



**ENVIRONMENT
AGENCY**

Permit with introductory note

Pollution Prevention and Control (England & Wales) Regulations 2000

Ellesmere Port Incinerator
Cleanaway Limited
Bridges Road
Ellesmere Port
South Wirral
Cheshire
CH65 4EQ

Permit number

BS5193IE

Contents

Introductory note	ii
Permit.....	1
Conditions	2
1 General.....	2
2 Operating conditions.....	6
3 Records	27
4 Reporting	28
5 Notifications	30
6 Interpretation.....	32
Schedule 1 - Notification of abnormal emissions.....	37
Schedule 2 - Reporting of monitoring data	39
Schedule 3 - Forms to be used	42
Schedule 4 - Reporting of performance data	43
Schedule 5 - Site Plan.....	44
Schedule 6 - List of Permitted Wastes.....	45

Introductory note

This introductory note does not form a part of the Permit

The following Permit is issued under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations 2000 (S.I.2000 No.1973), as amended, ("the PPC Regulations") to operate an installation carrying out activities covered by the description in Section 5.1 A(1)(a) and 5.3 A(1)(a) in Part 1 to Schedule 1 of the PPC Regulations, to the extent authorised by the Permit:

Section 5.1 A(1)(a) – "The incineration of hazardous waste in an incineration plant" and the definition of incineration plant covers the site and the entire incineration plant including all incineration lines, waste reception, storage, on site pre-treatment facilities, waste-fuel and air-supply systems, boiler, facilities for treatment of exhaust gases, on-site facilities for treatment or storage of residues and waste water, stack, devices and systems for controlling incineration operations recording and monitoring incineration conditions.

Section 5.3 A(1)(a) – "The disposal of hazardous waste (other than by incineration or landfill) in a facility with a capacity of more than 10 tonnes per day.

Aspects of the operation of the installation which are not regulated by conditions of the Permit are subject to the condition implied by Regulation 12(10) of the PPC Regulations, i.e. the Operator shall use the best available techniques for preventing or, where that is not practicable, reducing emissions from the installation.

Techniques include both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned.

In some sections of the Permit conditions require the Operator to use Best Available Techniques (BAT), in each of the aspects of the management of the installation, to prevent and where that is not practicable to reduce emissions. The conditions do not explain what is BAT. In determining BAT, the Operator should pay particular attention to relevant sections of the IPPC Sector guidance, appropriate Horizontal guidance and other relevant guidance.

A non-technical description of the installation is given in the Application, but the main features of the installation are as follows.

The Waste Incineration (England and Wales) Regulations 2002 (SI 2002 No. 2980) (The WI Regulations), the Pollution Prevention and Control (Waste Incineration Directive) (England and Wales) Direction 2002 and The Environmental Protection (Waste Incineration Directive) (England) Direction 2002 together implement the requirements of the Waste Incineration Directive (Directive (EC 2000/76/EC) on the Incineration of Waste. The Installation regulated under this Permit contains an existing Waste Incineration Installation (as defined in the WI Regulations) in which the incineration of waste in an incineration plant is carried out. Conditions delivering the corresponding requirements of the relevant articles of the Waste Incineration Directive have been incorporated into this Permit.

This permit allows Cleanaway Limited to operate an Installation in Ellesmere Port (National Grid Reference SJ 423 761), in the borough of Ellesmere Port and Neston. The site is located in a largely industrial area of Ellesmere Port, and is approximately 300m from the River Gowy.

The main activity carried out at the site is the disposal of waste by incineration. The incinerator has been designed primarily for the incineration of solid and liquid hazardous waste, although there is the flexibility to incinerate non-hazardous waste if appropriate. Operations is on a 24 hour/day all year round basis, with a nominal design capacity of 15 tonnes/hour. In addition to this activity there is also a Waste Management Centre which will allow some wastes to be stored at the installation prior to transfer to other facilities for further treatment including recycle and/or re-use.

Waste materials are received at the site, having previously undergone a rigorous procedure to ensure their suitability for incineration. Solid or liquid materials are either accepted in bulk tankers or in drums. Gaseous

wastes are also accepted. Wastes are analysed, at an appropriate frequency based on knowledge of the waste and its origin, on receipt to confirm that the waste is as described and segregated and stored as required ready for incineration. Drummed solids are transferred to the incinerator by a dedicated, automated mechanical drum handling feed system, whilst other packaged materials are fed via a manually operated airlock charging system. The incinerator is a rotary kiln designed for a slagging operation and to withstand high temperatures. There is a secondary combustion chamber designed to ensure high efficiency combustion of the gases produced from the wastes burning in the kiln. After the secondary combustion chamber the flue gases are cooled in a heat recovery section which ensures that the temperature regime in which dioxins can be reformed is avoided. At the base of this section there is an ash hopper in which particulates settle out. After the ash hopper the flue gases are quenched again ensuring the dioxin reformation temperature regime is avoided. Two separate scrubbing towers remove halogens and sulphur dioxide as well as providing further cooling for flue gases. Particulates are then removed in a bag filter system after injection of lime into the gas stream which is also reheated to avoid condensation. Continuous emission monitoring is undertaken in the horizontal duct section after the bag filter section (prior to the re-injection of hot air). Acidic aqueous effluent generated from the gas cleaning process is treated on-site through acid neutralisation, flocculation, settlement and dewatering. Cleaned waste water is discharged from the treatment plant to the River Gowy.

The primary emission point source to air is from the incinerator stack. There is continuous monitoring for particulates, carbon monoxide, carbon dioxide, oxides of nitrogen, hydrogen chloride, sulphur dioxide and volatile organic compounds. These are supplemented by periodic monitoring of hydrogen fluoride, heavy metals and dioxins.

The installation operates in accordance with a formal Environmental Management System accredited to ISO9001 and ISO14001.

Due to the type and volumes of waste stored on site, the plant is also regulated under the Control of Major Accident Hazards.

Note that the Permit requires the submission of certain information to the Agency (see Sections 4 and 5). In addition, the Agency has the power to seek further information at any time under regulation 28 to the PPC Regulations provided that it acts reasonably.

Other PPC Permits relating to this installation

Permit holder	Permit Number	Date of Issue
Not Applicable		

Superseded Licences/Authorisations/Consents relating to this installation

Holder	Reference Number	Date of Issue
Cleanaway Limited IPC Authorisation	AG8233 (as varied)	23/8/93

Other activities may take place on the site of this installation which are not regulated under this Permit or any other PPC Permit referred to in the Table above.

Other existing Licences/Authorisations/Registrations relating to this site

Holder	Reference Number	Date of Issue
Not Applicable		

Public Registers

Considerable information relating to Permits including the Application is available on public registers in accordance with the requirements of the PPC Regulations. Certain information may be withheld from public registers where it is commercially confidential or contrary to national security.

Variations to the Permit

This Permit may be varied in the future (by the Agency serving a Variation Notice on the Operator). If the Operator itself wants any of the Conditions of the Permit to be changed, it must submit a formal Application. The Status Log within the Introductory Note to any such Variation Notice will include summary details of this Permit, variations issued up to that point in time and state whether a consolidated version of the Permit has been issued.

Surrender of the Permit

Before this Permit can be wholly or partially surrendered, an Application to surrender the Permit has to be made by the Operator. For the application to be successful, the Operator must be able to demonstrate to the Agency that there is no pollution risk and that no further steps are required to return the site to a satisfactory state.

Transfer of the Permit or part of the Permit

Before the Permit can be wholly or partially transferred to another person, an Application to transfer the Permit has to be made jointly by the existing and proposed holders. A transfer will be allowed unless the Agency considers that the proposed holder will not be the person who will have control over the operation of the installation or will not comply with the conditions of the transferred Permit. If, however, the Permit authorises the carrying out of a specified waste management activity, the transfer will only be allowed if the proposed holder is also considered to be "a fit and proper person" as required by the PPC Regulations.

Talking to us

Please quote the Permit Number if you contact the Agency about this Permit.

To give a Notification under Condition 5.1.1, the Operator should use the Incident Hotline telephone number (0800 80 70 60) or any other number notified in writing to the Operator by the Agency for that purpose.

Status Log

Detail	Date	Response Date
Application BS5193IE	9/5/05	
Additional Information	14/9/05	
Permit determined		

End of Introductory Note.

Permit
Pollution Prevention and Control
Regulations 2000



**ENVIRONMENT
AGENCY**

Permit

Permit number
BS5193IE

The Environment Agency (the Agency) in exercise of its powers under Regulation 10 of the Pollution Prevention and Control (England and Wales) Regulations (SI 2000 No 1973), hereby authorises **Cleanaway Limited** ("the Operator"),

whose Registered Office is

**The Drive
Warley
Brentwood
Essex
CM13 3BE**

Company registration number **806128**

to operate an Installation at

**Ellesmere Port Incinerator
Bridges Road
Ellesmere Port
South Wirral
Cheshire
CH65 4EQ**

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

Signed	Date

Ian Fairbairn, SPG Warrington Team Leader

Authorised to sign on behalf of the Agency

Conditions

1 General

1.1 Permitted Activities

- 1.1.1 The Operator is authorised to carry out the activities and the associated activities specified in Table 1.1.1.

Table 1.1.1 - Permitted Activities

Activity listed in Schedule 1 of the PPC Regulations or Directly- Associated Activity	Description of specified activity	Limits of specified activity
Section 5.1 A(1)(a) – The Incineration of hazardous waste in an incineration plant	Incineration of hazardous and non-hazardous waste in an incinerator with a nominal design capacity of 15tonnes/hour	Evaluation and receipt of waste, storage, on-site pre-treatment facilities, waste-fuel and air-supply systems, feed systems to incinerator, gaseous waste processing, incineration, facilities for treatment of exhaust gases, on-site facilities for treatment or storage of residues and waste water, stack, devices and systems for controlling incineration operations, recording and monitoring incineration conditions.
Section 5.3 A(1)(a) – The disposal of hazardous waste (other than by incineration or landfill) in a facility with capacity of more than 10 tonnes per day	Waste Management Centre	Evaluation and receipt of waste, sorting and storage of waste through to despatch of waste not intended for incineration.

1.2 Site

- 1.2.1 The activities authorised under condition 1.1.1 shall not extend beyond the Site, being the land shown edged in green on the Site Plan at Schedule 5 to this Permit.

1.3 Overarching Management Condition

- 1.3.1 Without prejudice to the other conditions of this Permit, the Operator shall implement and maintain a management system, organisational structure and allocate resources that are sufficient to achieve compliance with the limits and conditions of this Permit.

1.4 Improvement Programme

- 1.4.1 The Operator shall complete the improvements specified in Table 1.4.1 by the date specified in that table, and shall send written notification of the date of completion of each requirement to the Agency within 14 days of the completion of each such requirement.

Table 1.4.1: Improvement programme

Reference	Requirement	Date
1	The Operator shall develop a written Site Closure Plan, with regard to Section 2.11 of the Environment Agency Guidance Note for the Incineration of Waste and Fuel Manufactured from or Including Waste Sector IPPC S5.01, July 2004. Upon completion of the plan a summary of the document shall be submitted to the Agency in writing.	1/05/06
2	The Operator shall undertake a review of the monitoring requirements for those items identified as not having MCERTS certification as specified in condition 2.10.9, with particular reference to the Total Organic Carbon Continuous Emissions Monitoring System analyser (TOC CEMS). On completion of the review the Operator shall submit a summary report in writing to the Agency, including a timetable for achieving the MCERTS standard, or an equivalent acceptable to the Agency, for any elements that are not currently MCERTS, unless otherwise agreed in writing with the Agency.	1/10/06
3	The Operator shall submit a proposal to the Agency to carry out tests to determine the size distribution of the particulate matter in the exhaust gas emissions to air from emission point A1, identifying the fractions within the PM ₁₀ , PM _{2.5} and PM _{1.0} ranges. The proposal shall include a timetable to carry out such tests and produce a report on the results. On receipt of written agreement by the Agency to the proposal and the timetable, the Operator shall carry out the tests and submit to the Agency a report on the results.	Proposal to be submitted to the Agency by 1/05/06 Report on size distribution tests to be submitted to the Agency within 2 months of the end of the agreed timetable.
4	The Operator shall calibrate and verify the performance of Continuous Emission Monitors for release points and parameters as specified in Table 2.2.2 to BS EN 14181 and submit a summary report, in writing, to the Environment Agency as evidence of compliance with the requirements of BS EN 14181.	Report to be submitted to the Agency by 28/12/06.
5	The Operator shall provide to the Agency a report on the improvements required to achieve the emission levels of suspended solids to water which are required from 1 st January 2008. The report shall propose a plan and timescale for implementation of the improvements and demonstrate how they represent BAT for the Permitted Installation.	Report to be submitted to the Agency by the earlier of the date which is 12 months before time-limited derogation expires or 6 months before the proposed implementation date.

6	The Operator shall provide to the Agency a report on the improvements required to achieve the emission levels of oxides of nitrogen to air which are required from 1 st January 2010. The report shall propose a plan and timescale for implementation of the improvements and demonstrate how they represent BAT for the Permitted Installation.	Report to be submitted to the Agency by the earlier of the date which is 12 months before time-limited derogation expires or 6 months before the proposed implementation date.
7	The Operator shall review the continuous emissions monitoring arrangements with the view to moving from the demonstration of compliance with the 97 th ile half hourly average emission limits included within this Permit, to demonstrating 100% compliance with half hourly average emission limit values in column A of Annex V of the Waste Incineration Directive. A written summary report of the review shall be submitted to the Environment Agency detailing the improvements identified and a timetable for their implementation. As a minimum this timetable shall include replacement of end of life equipment / monitors with equipment / monitors that can achieve the requirements of this permit and demonstration of compliance with the 100% emission limit value identified in Column A of Annex V of the Waste Incineration Directive.	01/07/06

- 1.4.2 Where the Operator fails to comply with any requirement by the date specified in Table 1.4.1 the Operator shall send written notification of such failure to the Agency within 14 days of such date.

1.5 Minor Operational Changes

- 1.5.1 The Operator shall seek the Agency's written agreement to any minor operational changes under condition 2.1.1 of this Permit by sending to the Agency: written notice of the details of the proposed change including an assessment of its possible effects (including waste production) on risks to the environment from the Permitted Installation; any relevant supporting assessments and drawings; and the proposed implementation date.
- 1.5.2 Any such change shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation in accordance with that change, and relevant provisions in the Application shall be deemed to be amended.
- 1.5.3 When the qualification "unless otherwise agreed in writing" is used elsewhere in this Permit, the Operator shall seek such agreement by sending to the Agency written notice of the details of the proposed method(s) or techniques.
- 1.5.4 Any such method(s) or techniques shall not be implemented until agreed in writing by the Agency. As from the agreed implementation date, the Operator shall operate the Permitted Installation using that method or technique, and relevant provisions in the Application (and the Site Protection and Monitoring Programme, as the case may be) shall be deemed to be amended.

1.6 Pre-Operational Conditions

1.6.1 There are no pre-operational conditions.

1.7 Off-site Conditions

1.7.1 There are no off-site conditions.

2 Operating conditions

2.1 In-Process Controls

- 2.1.1 The Permitted Installation shall, subject to the conditions of this Permit, be operated using the techniques and in the manner described in the documentation specified in Table 2.1.1, or as otherwise agreed in writing by the Agency in accordance with conditions 1.5.1 and 1.5.2 of this Permit.

Table 2.1.1: Operating techniques

Description	Parts	Date Received
Application	The response to questions B2.1 and B2.2 of the Application form and pages 5 through 42 of supporting document ELL/PPC/TO-2.0, supporting document ELL/PPC/TO-2(a) and 2(b), pages 1 through 21 of supporting document ELL/PPC/B2.1-7.0 and pages 1 through 11 of supporting document ELL/PPC/2.2-8.0.	9/5/05
Additional Information	Waste Management Centre Trial – Procedure 8602 pages 1-5 as submitted.	14/9/05

- 2.1.2 The Permitted Installation shall, subject to the other conditions of this Permit, be operated using the techniques and in the manner described in the Site Protection and Monitoring Programme submitted under condition 4.1.8 of this Permit or as otherwise agreed in writing by the Agency.
- 2.1.3 Only the wastes specified in Schedule 6 shall be incinerated in the Permitted Installation subject to the limitations in quantities not exceeding those specified for the waste types specified in Table 2.1.2.

Table 2.1.2: Permitted Waste Types

Waste type	Limitations	Maximum throughput
Hazardous and Non-hazardous Waste	Wastes shall only be accepted which comply with the description given in the Application.	100,000 t/year

- 2.1.4 The Operator shall incinerate only those hazardous wastes where the throughputs, calorific values and pollutant composition are within the ranges specified in the Application.
- 2.1.5 The Operator shall ensure that prior to accepting waste subject to condition 2.1.4 at the Permitted Installation, it has obtained sufficient information about the hazardous wastes to be burned to demonstrate compliance with the characteristics described in condition 2.1.4.
- 2.1.6 The Operator shall take representative samples of all hazardous waste deliveries to the Permitted Installation unless otherwise agreed in writing with Agency and test a representative selection of these samples to verify conformity with the information obtained as required by condition 2.1.5. These samples shall be retained for inspection by the Agency for a period of at least one month after the material is incinerated.

- 2.1.7 Waste shall not be charged, or shall cease to be charged, into the incinerator if:
- the secondary combustion chamber temperature is below, or falls below, 900°C; or
 - the oxygen level is below, or falls below, 6% (wet) by volume on a daily average basis, with half hourly averages always exceeding 3%; or
 - any continuous emission limit value in Table 2.2.2(a) is exceeded; or
 - any continuous emission limit value in Table 2.2.2 is exceeded, other than under abnormal operating conditions ; or
 - monitoring results required to demonstrate compliance with any continuous emission limit value in Table 2.2.2 are unavailable other than under abnormal operating conditions.
- 2.1.8 The Operator shall operate at least one auxiliary burner in each line of the Permitted Installation at start-up or shut-down or whenever the operating temperature falls below that specified in condition 2.1.7, as long as incompletely burned waste is present in the secondary combustion chamber. Unless the temperature specified in condition 2.1.7 is maintained in the secondary combustion chamber, such burners may be fed only with fuels which result in emissions no higher than those arising from the use of gas oil, liquefied gas or natural gas.
- 2.1.9 The Operator shall record the beginning and end of each period of abnormal operation.
- 2.1.10 During a period of abnormal operation, the Operator shall restore normal operation of the failed equipment or replace the failed equipment as rapidly as possible.
- 2.1.11 Where, during abnormal operation, any of the following situations arise, the Operator shall, as soon as is practicable, cease the burning of waste until normal operation can be restored:
- continuous measurement shows that an emission exceeds any emission limit value in Table 2.2.2, or continuous emission monitors or continuous effluent monitoring devices are out of service, as the case may be, for a total of four hours uninterrupted duration;
 - the cumulative duration of abnormal operation periods over one calendar year exceeds 60 hours on an incineration line;
 - continuous measurement shows that an emission exceeds any emission limit value in Table 2.2.2 (a);
 - the alternative techniques to demonstrate compliance with the abnormal operation emission limit value(s) in Table 2.2.2 (a), as detailed in the Application or as agreed in writing with the Agency, are unavailable.
- 2.1.12 The Operator shall interpret the end of the period of abnormal operation as the earliest of the following:
- when the failed equipment is repaired and brought back into normal operation;
 - when the Operator initiates a shut-down of the waste combustion activity, as described in the Application;
 - when a period of 4 hours has elapsed from the start of the abnormal operation;
 - when, in any calendar year, an aggregated period of 60 hours abnormal operation has been reached for a given incineration line.
- 2.1.13 Infectious clinical waste must be placed in the furnace without first being mixed with other categories of waste, using techniques which are no less effective than those described in the Application.

2.2 Emissions

2.2.1 Emissions to Air, (including heat, but excluding Odour, Noise or Vibration) from Specified Points

2.2.1.1 This Part 2.2.1 of this Permit shall not apply to releases of odour, noise or vibration.

2.2.1.2 Emissions to air from the emission points in Table 2.2.1 shall only arise from the sources specified in that Table.

Table 2.2.1 : Emission points to air

Emission point reference or description	Source	Location of emission point (Drawing Reference ELL/PPC/0003 – Site Layout)
A1 - Main process stack	Exhaust gases from Rotary Kiln Incinerator and Secondary Combustion Chamber via Gas Cleaning Section	Emission Point A1
A2 – Cooling Water Towers	Steam from cooling water	Emission Point A2
A3 – Emergency Vent	Raw exhaust gas from Rotary Kiln Incinerator and Secondary Combustion Chamber	Emission Point A3

2.2.1.3 The limits for emissions to air for the parameters and emission point set out in Table 2.2.2 shall not be exceeded except during a period of abnormal operation. During a period of abnormal operation, the limits for emissions to air for the parameters and emission point set out in Table 2.2.2 (a) shall not be exceeded.

Table 2.2.2 : Emission limits to air and monitoring during normal operation

Emission point reference	Parameter	Limit (including Reference Period)	Monitoring frequency	Monitoring method
A1	Particulate matter	10 mg/m ³ ½hr average ¹⁰	Continuous measurement	BS EN 13284-2 ^{6 8}
A1	Particulate matter	10 mg/m ³ daily average	Continuous measurement	BS EN 13284-2 ^{6 8}
A1	Particulate matter	20 mg/m ³ periodic over minimum 1 hour period	Bi-annual	BS EN 13284-1
A1	Total Organic Carbon (TOC)	10 mg/m ³ ½hr average ¹⁰	Continuous measurement	BS EN 12619 ^{6 8}

A1	Total Organic Carbon (TOC)	10 mg/m ³ daily average	Continuous measurement	BS EN 12619 ^{6 8}
A1	Total Organic Carbon (TOC)	20 mg/m ³ periodic over minimum 1 hour period	Bi-annual	BS EN 12619
A1	Hydrogen chloride	10 mg/m ³ ½hr average ¹⁰	Continuous measurement	MCERTS certified instruments ^{7 9}
A1	Hydrogen chloride	10 mg/m ³ daily average	Continuous measurement	MCERTS certified instruments ^{7 9}
A1	Hydrogen chloride	30 mg/m ³ periodic over minimum 1 hour period	Bi-annual	BS EN 1911
A1	Hydrogen fluoride	1 mg/m ³ periodic over minimum 1 hour period	Bi-annual	USEPA Method 26/26A
A1	Carbon monoxide	150 mg/m ³ 10 minute average ¹¹	Continuous measurement	ISO 12039 ^{4 8}
A1	Carbon monoxide	50 mg/m ³ daily average	Continuous measurement	ISO 12039 ^{4 8}
A1	Carbon monoxide	100 mg/m ³ periodic over minimum 4 hour period	Bi-annual	ISO 12039
A1	Sulphur dioxide	50 mg/m ³ ½hr average ¹⁰	Continuous measurement	BS 6069-4.4 ^{5 8}
A1	Sulphur dioxide	50 mg/m ³ daily average	Continuous measurement	BS 6069-4.4 ^{5 8}
A1	Sulphur dioxide	200 mg/m ³ periodic over minimum 4 hour period	Bi-annual	BS6069-4.1
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	Until 31/12/2009 400 mg/m ³ ½hr average ¹⁰	Continuous measurement	ISO 10849 ^{5 8}
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	From 1/01/2010 200 mg/m ³ ½hr average ¹⁰	Continuous measurement	ISO 10849 ^{5 8}

A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	Until 31/12/2009 350 mg/m ³ daily average	Continuous measurement	ISO 10849 ^{5 8}
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	From 1/01/2010 200 mg/m ³ daily average	Continuous measurement	ISO 10849 ^{5 8}
A1	Oxides of nitrogen (NO and NO ₂ expressed as NO ₂)	350 mg/m ³ periodic over minimum 4 hour period	Bi-annual	ISO 10849 or BS 11564
A1	Cadmium & thallium and their compounds (total) ²	0.05 mg/m ³ periodic over minimum 30 minute, maximum 8 hour period	Bi-annual	BS EN 14385
A1	Mercury and its compounds ²	0.05 mg/m ³ periodic over minimum 30 minute, maximum 8 hour period	Bi-annual	BS EN 13211
A1	Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V and their compounds (total) ²	0.5 mg/m ³ periodic over minimum 30 minute, maximum 8 hour period	Bi-annual	BS EN 14385
A1	Dioxins / furans (I-TEQ)	0.1 ng/m ³ periodic over minimum 6 hours, maximum 8 hour period ³	Bi-annual	BS EN 1948

Note 1: See Section 6 for reference conditions

Note 2: Metals include gaseous, vapour and solid phases as well as their compounds (expressed as the metal or the sum of the metals as specified). Sb, As, Pb, Cr, Co, Cu, Mn, Ni and V mean antimony, arsenic, lead, chromium, cobalt, copper, manganese, nickel and vanadium respectively.

Note 3: The I-TEQ sum of the equivalence factors to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum.

Note 4: The Continuous Emission Monitors used shall be such that the values of the 95% confidence intervals of a single measured result at the daily emission limit value shall not exceed 10%. Valid half-hourly average values shall be determined within the effective operating time (excluding the start-up and shut-down periods) from the measured values after having subtracted this value of the confidence interval (10%). Where it is necessary to calibrate or maintain the monitor and this means that data is not available for a complete half-hour period, the half-hourly average shall nonetheless be considered valid if measurements are available for a minimum of 20 minutes during the half-hour period. (The number of half-hourly averages so validated shall not exceed 5 per day). Daily average values shall be determined as the average of all the valid half-hourly average values within a calendar day. The daily average value will be considered valid if no more than five half-hourly average values in any day have been determined not to be valid. No more than ten daily average values per year shall be determined not to be valid.

Note 5: As Note 4, except that the value of the confidence interval is 20% in place of 10%.

Note 6: As Note 4, except that the value of the confidence interval is 30% in place of 10%.

Note 7: As Note 4, except that the value of the confidence interval is 40% in place of 10%.

Note 8: MCERTS certification to the appropriate ranges and determinands is a demonstration of compliance to the applicable standards.

Note 9: The certification range for MCERTS equipment should be 1.5 times the daily emission limit value. The CEM shall also be able to measure instantaneous values over the ranges that are to be expected during all operating conditions. If it is necessary to use more than one range setting of the CEM to achieve this requirement, the CEM shall be verified for monitoring supplementary, higher ranges.

Note 10: 97% of the half hourly average values over the year shall not exceed the emission limit value.

Note 11: 95% of all measurements in a year determined as a 10 minute average shall not exceed the emission limit value.

Table 2.2.2 (a) : Emission limits to air and monitoring during abnormal operating conditions

Emission point reference	Parameter	Limit (including Reference Period) ¹	Monitoring frequency	Monitoring method
A1	Particulate matter	150 mg/m ³ ½hr average	Continuous measurement	BS EN 13284 ^{4,2} during abatement plant failure or portable monitor during failure of the continuous emission monitor
A1	Total Organic Carbon (TOC)	20 mg/m ³ ½hr average	Continuous measurement	BS EN 12619 ^{4,2} during abatement plant failure or portable monitor during failure of the continuous emission monitor
A1	Carbon monoxide	100 mg/m ³ ½hr average	Continuous measurement	ISO 12039 ^{4,3} during abatement plant failure or portable monitor during failure of the continuous emission monitor

Note 1: See Section 6 for reference conditions

Note 2: The Continuous Emission Monitors used shall be such that the values of the 95% confidence intervals of a single measured result at the daily emission limit value shall not exceed 30%. Valid half-hourly average values shall be determined within the effective operating time (excluding the start-up and shut-down periods if no waste is being incinerated) from the measured values after having subtracted this value of the confidence interval (30%). Where it is necessary to calibrate or maintain the monitor and this means that data is not available for a complete half-hour period, the half-hourly average shall nonetheless be considered valid if measurements are available for a minimum of 20 minutes during the half-hour period. (The number of half-hourly averages so validated shall not exceed 5 per day).

Note 3: As Note 2, except that the value of the confidence interval is 10% in place of 30%.

Note 4: MCERTS certification to the appropriate ranges and determinands is a demonstration of compliance to the applicable standards.

2.2.1.4 Total emissions to air from emission points set out in Table 2.2.1 in any year of a substance listed in Table 2.2.3 shall not exceed the relevant limit in that Table.

Table 2.2.3 Annual limits

Substance	Limit – kg
Not applicable	

2.2.2 Emissions to water (other than groundwater), including heat, from specified points

2.2.2.1 This Part 2.2.2 of this Permit shall not apply to releases of odour, noise or vibration or to releases to groundwater.

2.2.2.2 Conditions 2.2.2.3 - 2.2.2.6 shall not apply to emissions to sewer.

2.2.2.3 No emission from the Permitted Installation shall be made to water except via the Operator's on-site effluent treatment plant as specified in this Permit.

Table 2.2.4: Emission point to water

Emission Point description	Reference or Source	Receiving Water
W1 (Discharge reference point SJ 429 761)	Effluent treatment plant	River Gowy

2.2.2.4 The limits for the emissions to water for the parameters and emission point set out in Table 2.2.5 shall not be exceeded.

2.2.2.5 Where a substance is specified in Table 2.2.5 but no limit is set for it, the concentration of such substance in emissions to water from the relevant emission point shall be no greater than the background concentration.

Table 2.2.5 : Emission limits to water and monitoring

Emission point reference	Parameter	Limit (Including Reference Period)	Monitoring frequency	Monitoring method
W1	Volumetric flowrate	6000m ³ /day	Continuous	BS 3680
W1	pH	5 (min)	Continuous	BS 1647-2:1984
W1	pH	9 (max)	Continuous	BS 1647-2:1984
W1	Hydrocarbon oil	10 mg/l	Bi-annual	SCA by IR absorption
W1	Biochemical oxygen demand (ATU) 5 days @ 20°C	10 mg/l	Bi-annual	ISO 5815:1989 and EN 1899
W1	Total suspended solids as defined by Directive 91/271/EEC	Until 31/12/2007 30mg/l for 80% of all measured values of periodic samples taken over one year ^{1 & 4}	Daily – from continuous sampling equipment	BS EN 872
W1	Total suspended solids as defined by Directive 91/271/EEC	Until 31/12/2007 45mg/l for 100% of all measured values of periodic sample. ^{1 & 4}	Daily – from continuous sampling equipment	BS EN 872
W1	Total suspended solids as defined by Directive 91/271/EEC	From 1/01/2008 30mg/l for 95% of all measured values of periodic samples taken over one year. ^{1 & 4}	Daily – from continuous sampling equipment	BS EN 872
W1	Mercury and its compounds, expressed as mercury (Total Hg)	0.03 mg/l 24-hour flow proportional sample ²	Monthly	BS EN 13506
W1	Cadmium and its compounds, expressed as cadmium (Total Cd)	0.05 mg/l 24-hour flow proportional sample ²	Monthly	BS 6068-2.89
W1	Thallium and its compounds, expressed as thallium (Total Tl)	0.05 mg/l 24-hour flow proportional sample ²	Monthly	BS 6068-2.89
W1	Arsenic and its compounds, expressed as arsenic (Total As)	0.15 mg/l 24-hour flow proportional sample ²	Monthly	BS 6068-2.60

W1	Lead and its compounds, expressed as lead (Total Pb)	0.2 mg/l 24-hour flow proportional sample ²	Monthly	BS 6068-2.60
W1	Chromium and its compounds, expressed as chromium (Total Cr)	0.5 mg/l 24-hour flow proportional sample ²	Monthly	BS 6068-2.60
W1	Copper and its compounds, expressed as copper (Total Cu)	0.5 mg/l 24-hour flow proportional sample ²	Monthly	BS 6068-2.60
W1	Nickel and its compounds, expressed as nickel (Total Ni)	0.5 mg/l 24-hour flow proportional sample ²	Monthly	BS 6068-2.60
W1	Zinc and its compounds, expressed as Zinc (Total Zn)	1.5 mg/l 24-hour flow proportional sample ²	Monthly	BS 6068-2.60
W1	Dioxins/ furans (I-TEQ)	0.3 ng/l 24-hour flow proportional sample ³	Bi-annual	USEPA Method 1613

Note 1: Total suspended solids limits apply as periodic daily samples.

Note 2: Only 1 sample per year may exceed the limits stated above.

Note 3: The TEQ sum of the equivalence factors to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum.

Note 4: Compliance shall be demonstrated by comparing the difference between the concentration of suspended solids measured from the daily sample of effluent and the concentration of suspended solids measured from the equivalent daily sample for the abstraction water.

2.2.2.6 Total emissions to water in any year of a substance listed in Table 2.2.6 shall not exceed the relevant limit in that Table.

Table 2.2.6 Annual emission limits

Substance	Limit – kg
Not Applicable	

Emissions to sewer

2.2.2.7 No emission from the Permitted Installation shall be made to sewer.

Table 2.2.7 Emission points to sewer

Emission point reference or description	Sewer
Not Applicable	

2.2.2.8 No condition applies.

Table 2.2.8 : Emission limits and monitoring frequency to sewer

Emission point reference	Substance	Limit (Including Reference Period)	Monitoring frequency	Monitoring method
Not Applicable				

2.2.2.9 No condition applies.

2.2.2.10 No condition applies.

Table 2.2.9 Annual emission limit

Substance	Annual limit – kg
Not Applicable	

2.2.3 Emissions to groundwater

2.2.3.1 No emission from the Permitted Installation shall give rise to the introduction into groundwater of any substance in List I (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.2 No emission from within the Permitted Installation shall give rise to the introduction into groundwater of any substance in List II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)) so as to cause pollution (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)).

2.2.3.3 For substances other than those in List I or II (as defined in the Groundwater Regulations 1998 (S.I. 1998 No. 2746)), the Operator shall use BAT to prevent or where that is not practicable to reduce emissions to groundwater from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application.

2.2.4 Fugitive emissions of substances to air

2.2.4.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to air from the Permitted Installation in particular from:

- storage areas
- buildings
- pipes, valves and other transfer systems
- open surfaces

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5 Fugitive emissions of substances to water and sewer

2.2.5.1 Subject to condition 2.2.5.2 below, the Operator shall use BAT so as to prevent or where that is not practicable to reduce fugitive emissions of substances to water (other than Groundwater) and sewer from the Permitted Installation in particular from:

- all structures under or over ground
- surfacing
- bunding
- storage areas

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.5.2 There shall be no release to water that would cause a breach of an EQS established by the UK Government to implement the Dangerous Substances Directive 76/464/EEC.

2.2.6 Odour

2.2.6.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce odorous emissions from the Permitted Installation, in particular by:

- limiting the use of odorous materials
- restricting odorous activities
- controlling the storage conditions of odorous materials
- controlling processing parameters to minimise the generation of odour
- optimising the performance of abatement systems
- timely monitoring, inspection and maintenance
- employing, where appropriate, an approved odour management plan

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.2.6.2 No condition applies.

2.2.6.3 No condition applies.

2.2.7 Emissions to Land

2.2.7.1 This Part 2.2.7 of this Permit shall not apply to emissions to groundwater.

2.2.7.2 No emission from the Permitted Installation shall be made to land.

Table 2.2.10 Emission points into land

Emission point reference or description	Source	Soakaway
Not Applicable		

2.2.7.3 No condition applies.

2.2.8 Other technical measures

- 2.2.8.1 Where other technical measures of control are used to supplement or replace emission limit values in accordance with Regulation 12(8) of the PPC Regulations, the Operator shall comply with the requirements specified in Table 2.2.11.

Table 2.2.11: Equivalent parameters and technical measures

Parameter or measure	Requirement or description of measure, and frequency if relevant
Sulphur content of fuel	Monthly rolling average sulphur content of fuel burned shall not exceed 0.2% by weight
Bottom ash burn-out quality	The Permitted Installation must be operated to ensure that the bottom ash shall have a total organic carbon (TOC) content less than 3%, or a loss on ignition of less than 5% of the dry weight of the ash

2.3 Management

- 2.3.1 A copy of this Permit and those parts of the Application referred to in this Permit shall be available, at all times, for reference by all staff carrying out work subject to the requirements of the Permit.

Training

- 2.3.2 The Permitted Installation shall be supervised by staff who are suitably trained and fully conversant with the requirements of this Permit.
- 2.3.3 All staff shall be fully conversant with those aspects of the Permit conditions which are relevant to their duties and shall be provided with adequate professional technical development and training and written operating instructions to enable them to carry out their duties.
- 2.3.4 The Operator shall maintain a record of the skills and training requirements for all staff whose tasks in relation to the Permitted Installation may have an impact on the environment and shall keep records of all relevant training.

Maintenance

- 2.3.5 All plant and equipment used in operating the Permitted Installation, the failure of which could lead to an adverse impact on the environment, shall be maintained in good operating condition.
- 2.3.6 The Operator shall maintain a record of relevant plant and equipment covered by condition 2.3.5 and for such plant and equipment:
- 2.3.6.1 a written or electronic maintenance programme; and
 - 2.3.6.2 records of its maintenance.

Incidents and Complaints

- 2.3.7 The Operator shall maintain and implement written procedures for:
- 2.3.7.1 taking prompt remedial action, investigating and reporting actual or potential non-compliance with operating procedures or emission limits; and

- 2.3.7.2 investigating incidents, (including any malfunction, breakdown or failure of plant, equipment or techniques, down time, any short term and long term remedial measures and near misses) and prompt implementation of appropriate actions; and
- 2.3.7.3 ensuring that detailed records are made of all such actions and investigations.
- 2.3.8 The Operator shall record and investigate complaints concerning the Permitted Installation's effects or alleged effects on the environment. The record shall give the date and nature of complaint, time of complaint, name of complainant (if given), a summary of any investigation and the results of such investigation and any actions taken.
- 2.3.9 No condition applies.
 - 2.3.9.1 No condition applies.
 - 2.3.9.2 No condition applies.
 - 2.3.9.3 No condition applies.
 - 2.3.9.4 No condition applies.

2.4 Efficient use of raw materials

- 2.4.1 The Operator shall -
 - 2.4.1.1 maintain the raw materials table or description submitted in response to Section 2.4 of the Application and in particular consider on a periodic basis whether there are suitable alternative materials to reduce environmental impact;
 - 2.4.1.2 carry out periodic waste minimisation audits and water use efficiency audits. If such an audit has not been carried out in the 2 years prior to the issue of this Permit, then the first such audit shall take place within 2 years of its issue. The methodology used and an action plan for increasing the efficiency of the use of raw materials or water shall be submitted to the Agency within 2 months of completion of each such audit and a review of the audit and a description of progress made against the action plan shall be submitted to the Agency at least every 4 years thereafter; and
 - 2.4.1.3 ensure that incoming water use is directly measured and recorded.

2.5 Waste Storage and Handling

- 2.5.1 The Operator shall design, maintain and operate all facilities for the storage and handling of waste on the Permitted Installation such that there are no releases to water or land during normal operation and that emissions to air and the risk of accidental release to water or land are minimised.
- 2.5.2 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of litter from the Permitted Installation provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

2.6 Waste recovery or disposal

- 2.6.1 Waste produced at the Permitted Installation shall be:
 - 2.6.1.1 recovered to no lesser extent than described in the Application; and

- 2.6.1.2 where not recovered, disposed of while avoiding or reducing any impacts on the environment provided always that this is not done in any way that would have a greater effect on the environment than that described in the Application.
- 2.6.2 The Operator shall maintain the waste recovery or disposal table or description submitted in response to Section 2.6 of the Application and in particular review the available options for waste recovery and disposal for the purposes of complying with condition 2.6.1 above.
- 2.6.3 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin, destination (including whether this is a recovery or disposal operation) and where relevant removal date of any waste that is produced at the Permitted Installation.
- 2.6.4 The Operator shall maintain and implement a system which ensures that a record is made of the quantity, composition, origin and delivery date of any waste that is received for disposal or recovery at the Permitted Installation.
- 2.6.5 Bottom ash and APC residues shall not be mixed, unless being recycled to the rotary kiln.
- 2.6.6 Wastes produced at the Permitted Installation shall, as a minimum, be sampled and analysed in accordance with Table 2.6.1. Additional samples shall be taken and tested and appropriate action taken, whenever:
- disposal or recovery routes change; or
 - it is suspected that the nature or composition of the waste has changed such that the route currently selected may no longer be appropriate.

Table 2.6.1 : Emission limits and monitoring frequency for solid residues

Emission point reference	Substance	Limit (including Reference Period)	Monitoring frequency	Monitoring method
Bottom Ash waste from rotary kiln	Loss On Ignition (LOI)	5%	Monthly	Agency ash sampling protocol

2.7 Energy Efficiency

- 2.7.1 The Operator shall produce a report on the energy consumed at the Permitted Installation over the previous calendar year, by 31 January each year, providing the information required by condition 4.1.2.
- 2.7.2 The Operator shall maintain and update annually an energy management system which shall include, in particular, the monitoring of energy flows and targeting of areas for improving energy efficiency.
- 2.7.3 The Operator shall design, maintain and operate the Permitted Installation so as to secure energy efficiency, taking into account relevant guidance including the Agency's Energy Efficiency Horizontal Guidance Note as from time to time amended. Energy efficiency shall be secured in particular by:
- ensuring that the appropriate operating and maintenance systems are in place;
 - ensuring that all plant is adequately insulated to minimise energy loss or gain;

- ensuring that all appropriate containment methods, (e.g. seals and self-closing doors) are employed and maintained to minimise energy loss;
- employing appropriate basic controls, such as simple sensors and timers, to avoid unnecessary discharge of heated water or air;
- where building services constitute more than 5% of the total energy consumption of the Installation, identifying and employing the appropriate energy efficiency techniques for building services, having regard in particular to the Building services part of the Agency's Energy Efficiency Horizontal Guidance Note H2; and
- maintaining and implementing an energy efficiency plan which identifies energy saving techniques that are applicable to the activities and their associated environmental benefit and prioritises them, having regard to the appraisal method in the Agency's Energy Efficiency Horizontal Guidance Note H2.

2.8 Accident prevention and control

- 2.8.1 The Operator shall maintain and implement when necessary the accident management plan submitted or described in response to Section 2.8 of the Application. The plan shall be reviewed at least every 2 years or as soon as practicable after an accident, whichever is the earlier, and the Agency notified of the results of the review within 2 months of its completion.

2.9 Noise and Vibration

- 2.9.1 The Operator shall use BAT so as to prevent or where that is not practicable to reduce emissions of noise and vibration from the Permitted Installation, in particular by:

- equipment maintenance, eg. of fans, pumps, motors, conveyors and mobile plant;
- use and maintenance of appropriate attenuation, eg. silencers, barriers, enclosures;
- timing and location of noisy activities and vehicle movements;
- periodic checking of noise emissions, either qualitatively or quantitatively; and
- maintenance of building fabric,

provided always that the techniques used by the Operator shall be no less effective than those described in the Application, where relevant.

- 2.9.2 Emergency generators/ alarms/ sirens/ relief valves shall only be tested between the hours of 08:00 and 17:00 Monday to Friday and not on any Public Holiday.

- 2.9.3 No condition applies.

2.10 On-site Monitoring

- 2.10.1 The Operator shall maintain and implement an emissions monitoring programme which ensures that emissions are monitored from the specified points, for the parameters listed in and to the frequencies and methods described in Tables 2.2.2, 2.2.2a, 2.2.5 and 2.6.1, unless otherwise agreed in writing, and that the results of such monitoring are assessed. The programme shall ensure that monitoring is carried out under an appropriate range of operating conditions.

- 2.10.2 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in Tables 2.2.2 and 2.2.2a, the Operator shall perform a QAL2 test as specified in BS EN 14181 at least every three years and when there are significant changes to either the process, the fuel used or to the CEMs themselves.

- 2.10.3 Where Continuous Emission Monitors are installed to comply with the monitoring requirements in Tables 2.2.2 and 2.2.2a, the Operator shall perform an Annual Surveillance Test (AST) at least annually, as specified within BS EN 14181.
- 2.10.4 The Operator shall carry out environmental or other specified substance monitoring to the frequencies and methods described in Table 2.10.1.

Table 2.10.1 : Other monitoring requirements

Emission point reference or source or description of point of measurement	Substance or parameter	Monitoring frequency	Monitoring method	Other specifications
Near inner wall of furnace at the top of the secondary combustion chamber	Secondary Combustion Chamber Gas Temperature	Continuous measurement	As described in the Application	
A1	Exhaust Gas Temperature	Continuous measurement	As described in the Application	
A1	Exhaust Gas Pressure	Continuous measurement	As described in the Application	
A1	Exhaust Gas Oxygen Content	Continuous measurement	As described in the Application	
A1	Dioxin-like PCBs (WHO-TEQ ¹ Humans / Mammals)	Bi-annual periodic measurement, average value over sample period of between 6 and 8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)	
A1	Dioxin-like PCBs (WHO-TEQ ¹ Fish)	Bi-annual periodic measurement, average value over sample period of between 6 and 8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)	

Table 2.10.1 : Other monitoring requirements

Emission point reference or source or description of point of measurement	Substance or parameter	Monitoring frequency	Monitoring method	Other specifications
A1	Dioxin-like PCBs (WHO-TEQ ¹ Birds)	Bi-annual periodic measurement, average value over sample period of between 6 and 8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)	
A1	Specific Polycyclic aromatic hydrocarbons (PAHs) as specified in condition 6.1.1	Bi-annual periodic measurement, average value over sample period of between 6 and 8 hours.	Procedure shall use BS ISO 11338-1 and BS-ISO 11338-2.	
A1	Dioxins / furans (WHO-TEQ ¹ Humans / Mammals)	Bi-annual periodic measurement, average value over sample period of between 6 and 8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)	
A1	Dioxins / furans (WHO-TEQ Fish) ¹	Bi-annual periodic measurement, average value over sample period of between 6 and 8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)	
A1	Dioxins / furans (WHO-TEQ Birds) ¹	Bi-annual periodic measurement, average value over sample period of between 6 and 8 hours.	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)	

Table 2.10.1 : Other monitoring requirements

Emission point reference or source or description of point of measurement	Substance or parameter	Monitoring frequency	Monitoring method	Other specifications
W1	Temperature	Continuous	Traceable to national standards	
W1	Dioxins / furans (WHO-TEQ Humans / Mammals) ¹	Bi-annual periodic measurement, 24 hour flow proportional or spot sample	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)	
W1	Dioxins / furans (WHO-TEQ Fish) ¹	Bi-annual periodic measurement, 24 hour flow proportional or spot sample	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)	
W1	Dioxins / furans (WHO-TEQ Birds) ¹	Bi-annual periodic measurement, 24 hour flow proportional or spot sample	To be determined utilising sampling and analytical techniques developed for dioxins/furans (BS EN 1948)	
Bottom Ash – residue reference RT1	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.	Quarterly	Sampling and analysis as per Agency ash sampling protocol	

Table 2.10.1 : Other monitoring requirements

Emission point reference or source or description of point of measurement	Substance or parameter	Monitoring frequency	Monitoring method	Other specifications
Bottom Ash – residue reference RT1	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	Before use of a new disposal or recycling route	Sampling and analysis as per Agency ash sampling protocol	
APC Residues – residue reference RT2	Metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.	Quarterly	Sampling and analysis as per Agency ash sampling protocol.	
APC Residues – residue reference RT2	Total soluble fraction and metals (Antimony, Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	Before use of a new disposal or recycling route	Sampling and analysis as per Agency ash sampling protocol.	

Note 1: The TEQ sum of the equivalence factors to be reported as a range based on: All congeners less than the detection limit assumed to be zero as a minimum, and all congeners less than the detection limit assumed to be at the detection limit as a maximum.

2.10.5 The Operator shall carry out monitoring of the process variables listed in Table 2.10.1 to the frequencies and methods described in that Table.

2.10.6 No condition applies.

- 2.10.7 The Operator shall notify the Agency at least 14 days in advance of undertaking monitoring and/ or spot sampling, where such notification has been requested in writing by the Agency.
- 2.10.8 The Operator shall maintain records of all monitoring taken or carried out (this includes 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.
- 2.10.9 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme in condition 2.10.1 of this Permit and the environmental or other monitoring specified in condition 2.10.4 shall have either MCERTS certification or MCERTS accreditation (as appropriate) unless otherwise agreed in writing. Newly installed CEMs, or CEMs replacing existing CEMs, shall have MCERTS certification and have an MCERTS certified range which is not greater than 1.5 times the daily emission limit value (ELV) specified in Table 2.2.2. The CEM shall also be able to measure instantaneous values over the ranges which are to be expected during all operating conditions. If it is necessary to use more than one range setting of the CEM to achieve this requirement, the CEM shall be verified for monitoring supplementary, higher ranges.
- 2.10.10 There shall be provided:
- 2.10.10.1 safe and permanent means of access to enable sampling/monitoring to be carried out in relation to the emission points specified in Schedule 2 to this Permit, unless otherwise specified in that Schedule; and
 - 2.10.10.2 safe means of access to other sampling/monitoring points when required by the Agency.
- 2.10.11 The Operator shall carry out the on-going monitoring identified in the Site Protection and Monitoring Programme submitted under condition 4.1.8, unless otherwise agreed in writing by the Agency.
- 2.10.12 No condition applies
- 2.10.12.1 No condition applies.
 - 2.10.12.2 No condition applies.

2.11 Closure and Decommissioning

- 2.11.1 The Operator shall maintain and operate the Permitted Installation so as to prevent or minimise any pollution risk, including the generation of waste, on closure and decommissioning in particular by:-
- 2.11.1.1 attention to the design of new plant or equipment;
 - 2.11.1.2 the maintenance of a record of any events which have, or might have, impacted on the condition of the site along with any further investigation or remediation work carried out; and
 - 2.11.1.3 the maintenance of a site closure plan to demonstrate that the Installation can be decommissioned avoiding any pollution risk and returning the site of operation to a satisfactory state.
- 2.11.2 Notwithstanding condition 2.11.1 of this Permit, the Operator shall carry out a full review of the Site Closure Plan at least every 4 years.

2.11.3 The site closure plan shall be implemented on final cessation or decommissioning of the Permitted activities or part thereof.

2.11.4 The Operator shall give at least 30 days written notice to the Agency before implementing the site closure plan.

2.12 Multiple Operator installations

2.12.1 This is not a multi-Operator installation.

2.13 Transfer to effluent treatment plant

2.13.1 No transfers to effluent treatment plant are controlled under this part of this Permit.

Table 2.13.1 Transfer point(s) to effluent treatment plant(s)

Transfer point description or identifier	Source	Effluent Treatment Plant
Not applicable		

2.13.2 No condition applies.

Table 2.13.2 Limits for transfers to effluent treatment plant(s)

Parameter	Transfer Point	Limit (incl. reference period)	Monitoring frequency	Monitoring Method
Not applicable				

3 Records

3.1 The Operator shall ensure that all records required to be made by this Permit and any other records made by it in relation to the operation of the Permitted Installation shall:-

- 3.1.1 be made available for inspection by the Agency at any reasonable time;**
- 3.1.2 be supplied to the Agency on demand and without charge;**
- 3.1.3 be legible;**
- 3.1.4 be made as soon as reasonably practicable;**
- 3.1.5 indicate any amendments which have been made and shall include the original record wherever possible;**
- 3.1.6 be retained at the Permitted Installation, or other location agreed by the Agency in writing, for a minimum period of 4 years from the date when the records were made, unless otherwise agreed in writing; and**
- 3.1.7 where they concern the condition of the site of the Installation or are related to the implementation of the Site Protection and Monitoring Programme, be kept at the Permitted Installation, or other location agreed by the Agency in writing, until all parts of the Permit have been surrendered.**

4 Reporting

- 4.1.1 All reports and written and or oral notifications required by this Permit and notifications required by Regulation 16 of the PPC Regulations shall be made or sent to the Agency using the contact details notified in writing to the Operator by the Agency.
- 4.1.2 The Operator shall, unless otherwise agreed in writing, submit reports of the monitoring and assessment carried out in accordance with the conditions of this Permit, as follows:-
- 4.1.2.1 in respect of the parameters and emission points specified in Table S2 to Schedule 2;
 - 4.1.2.2 for the reporting periods specified in Table S2 to Schedule 2 and using the forms specified in Table S3 to Schedule 3;
 - 4.1.2.3 giving the information from such results and assessments as may be required by the forms specified in those Tables; and
 - 4.1.2.4 to the Agency within 28 days of the end of the reporting period.
- 4.1.3 The Operator shall submit to the Agency a report on the performance of the Permitted Installation over the previous year, by 31 January each year, providing the information listed in Tables S4.1 and S4.2 of Schedule 4, assessed at any frequency specified therein, and using the form specified in Table S3 to Schedule 3.
- 4.1.4 The Operator shall submit an annual performance report on the functioning and monitoring of the incineration plant in a format agreed with the Environment Agency by the 31st January each year. The report shall, as a minimum requirement, give an account of the running of the process and the emissions into air and water compared with the emission standards in the Waste Incineration Directive, as required by Article 12(2) of the Waste Incineration Directive. The first report shall be submitted by the 31st January 2007.
- 4.1.5 The Operator shall review fugitive emissions, having regard to the application of Best Available Techniques, on an annual basis, or such other period as shall be agreed in writing by the Agency, and a summary report on this review shall be sent to the Agency detailing such releases and the measures taken to reduce them within 3 months of the end of such period.
- 4.1.6 Where the Operator has a formal environmental management system applying to the Permitted Installation which encompasses annual improvement targets the Operator shall, not later than 31 January in each year, provide a summary report of the previous year's progress against such targets.
- 4.1.7 The Operator shall, within 6 months of receipt of written notice from the Agency, submit to the Agency a report assessing whether all appropriate preventive measures continue to be taken against pollution, in particular through the application of the best available techniques, at the Installation. The report shall consider any relevant published technical guidance current at the time of the notice which is either supplied with or referred to in the notice, and shall assess the costs and benefits of applying techniques described in that guidance, or otherwise identified by the Operator, that may provide environmental improvement.
- 4.1.8 The Operator shall, within two months of the date of this Permit, submit a detailed Site Protection and Monitoring Programme, in accordance with and using the appropriate template format given in the Land Protection Guidance. The Operator shall implement and maintain the Site Protection and Monitoring Programme (SPMP) submitted under this condition, and shall carry out regular reviews of it at a minimum frequency of every 2 years. The results of such reviews and any changes made to the SPMP shall be reported to the Agency within 1 month of the review or change.

4.1.9 No condition applies.

5 Notifications

- 5.1.1 The Operator shall notify the Agency **without delay** of:-
- 5.1.1.1 the detection of an emission of any substance which exceeds any limit or criterion in this Permit specified in relation to the substance;
 - 5.1.1.2 the detection of any fugitive emission which has caused, is causing or may cause significant pollution;
 - 5.1.1.3 the detection of any malfunction, breakdown or failure of plant or techniques which has caused, is causing or has the potential to cause significant pollution;
 - 5.1.1.4 any accident which has caused, is causing or has the potential to cause significant pollution;
 - 5.1.1.5 any incident which has led to a period of abnormal operation of incineration or co-incineration plant, as defined in section 6.1.1; and
 - 5.1.1.6 each operation of the emergency vent when waste is feeding. The report shall include the reasons for operation of the emergency vent, and the measures taken to prevent recurrence.
- 5.1.2 The Operator shall submit written confirmation to the Agency of any notification under condition 5.1.1, by sending:-
- 5.1.2.1 for notifications under conditions 5.1.1.1 – 5.1.1.4, the information listed in Part A of Schedule 1 to this Permit within 24 hours of such notification; and
 - 5.1.2.2 for notifications under conditions 5.1.1.1 – 5.1.1.4, the more detailed information listed in Part B of that Schedule as soon as practicable thereafter;
 - 5.1.2.3 for notifications under condition 5.1.1.5, the information listed in Part C of Schedule 1 as soon as practicable thereafter;
- and such information shall be in accordance with that Schedule.
- 5.1.3 The Operator shall give written notification as soon as practicable prior to any of the following:-
- 5.1.3.1 permanent cessation of the operation of part or all of the Permitted Installation;
 - 5.1.3.2 cessation of operation of part or all of the Permitted Installation for a period likely to exceed 1 year; and
 - 5.1.3.3 resumption of the operation of part or all of the Permitted Installation after a cessation notified under condition 5.1.3.2.
- 5.1.4 The Operator shall notify the Agency, as soon as reasonably practicable, of any information concerning the state of the Site which adds to that provided to the Agency as part of the Application or to that in the Site Protection and Monitoring Programme submitted under condition 4.1.8 of this Permit.
- 5.1.5 The Operator shall notify the following matters to the Agency in writing within 14 days of their occurrence:-
- 5.1.5.1 where the Operator is a registered company:-
 - any change in the Operator's trading name, registered name or registered office address;
 - any change to particulars of the Operator's ultimate holding company (including details of an ultimate holding company where an Operator has become a subsidiary)

- any steps taken with a view to the Operator going into administration, entering into a company voluntary arrangement or being wound up;
- 5.1.5.2 where the Operator is a corporate body other than a registered company:
- any change in the Operator's name or address;
 - any steps taken with a view to the dissolution of the Operator.
- 5.1.5.3 In any other case: -
- the death of any of the named Operators (where the Operator consists of more than one named individual);
 - any change in the Operator's name(s) or address(es);
 - 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 them being in a partnership, dissolving the partnership;
- 5.1.6 Where the Operator has entered into a Climate Change Agreement with the Government, the Operator shall notify the Agency within one month of:-
- 5.1.6.1 a decision by the Secretary of State not to re-certify that Agreement.
- 5.1.6.2 a decision by either the Operator or the Secretary of State to terminate that agreement.
- 5.1.6.3 any subsequent decision by the Secretary of State to re-certify such an Agreement.
- 5.1.7 Where the Operator has entered into a Direct Participant Agreement in the Emissions Trading Scheme which covers emissions relating to the energy consumption of the activities, the Operator shall notify the Agency within one month of:-
- 5.1.7.1 a decision by the Operator to withdraw from or the Secretary of State to terminate that agreement.
- 5.1.7.2 a failure to comply with an annual target under that Agreement at the end of the trading compliance period.

6 Interpretation

6.1.1 In this Permit, the following expressions shall have the following meanings:-

"Abatement equipment" means that equipment dedicated to the removal of polluting substances from releases from the Installation to air or water media.

"Abnormal operation" means any technically unavoidable stoppages, disturbances, or failures of the abatement plant or the measurement devices, during which the concentrations in the discharges into air and the purified waste water of the regulated substances may exceed the normal emission limit values. It includes the time taken for the plant to stabilise after the repair or replacement has been carried out.

"Annual release" means the total release during any calendar year commencing 1 January.

"APC residues" means air pollution control residues.

"Application" means the application for this Permit, together with any response to a notice served under Schedule 4 to the PPC Regulations and any other information formally accepted by the Agency as being part of the Application.

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

- water supplied to the site; or
- where more than 50% of the water used at the site is directly abstracted from ground or surface water on site, the abstracted water; or
- where the Permitted Installation uses no significant amount of supplied or abstracted water, the precipitation on to the site.

"BAT" means best available techniques means the most effective and advanced stage of development of activities and their methods of operation which indicates the practical suitability of particular techniques to prevent and where that is not practicable to reduce emissions and the impact on the environment as a whole. For these purposes: "available techniques" means "those techniques which have been developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the cost and advantages, whether or not the techniques are used or produced inside the United Kingdom, as long as they are reasonably accessible to the Operator"; "best" means "in relation to techniques, the most effective in achieving a high general level of protection of the environment as a whole" and "techniques" "includes both the technology used and the way in which the Installation is designed, built, maintained, operated and decommissioned." . In addition, Schedule 2 of the PPC Regulations has effect in relation to the determination of BAT.

"Bi-annual" means twice per year with at least five months between tests.

"Bottom Ash" means the slag from the rotary kiln.

"BOD" means **"Biochemical Oxygen Demand"**, which means biochemical oxygen demand measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea.

"CEM" Continuous emission monitor.

"CEN" means Comité Européen de Normalisation.

"Commissioning" relates to the period after construction has been completed or when a modification has been made to the plant or the raw materials when the Permitted Installation process is being tested and modified to operate according to its design.

"Controlled waters" shall have the same meaning as in Part III of the Water Resources Act 1991.

"Daily average" for releases of substances to air means the average of half-hourly averages over any period of 24 consecutive hours commencing at 1900 hours. Where any of abnormal operation, start-up or shut-down occur during the day in such a way that there are less than 43 half-hourly averages recorded during normal operation, no daily average shall be recorded for that day.

"Dioxin and Furans" means polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans.

"ELV" means emission limit value.

"Every 6 months" for reporting means after/during each 6 month period, January to June; July to December.

"Fly ash" means the ash collected from the bottom of the recuperators.

"Fugitive emission" means an emission to air or water (including sewer) from the Permitted Installation which is not controlled by an emission or background concentration limit under conditions 2.2.1.3, 2.2.2.4, 2.2.2.5, 2.2.2.8 or 2.2.2.9 of this Permit.

"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.

"Incineration Line" means all of the incineration equipment related to a common discharge to air location.

"Infectious clinical waste" means clinical waste incorporating substances containing viable micro-organisms or their toxins which are known or reliably believed to cause disease in man or other living organisms.

"ISO" means International Standards Organisation.

"Land Protection Guidance" means the version of the Agency guidance note "H7 - Guidance on the Protection of Land under the PPC Regime: Application Site Report and Site Protection and Monitoring Programme", including its appended templates for data reporting, which is current at the time of issue of the Permit.

" $L_{Aeq,T}$ " means the equivalent continuous A-weighted sound pressure level in dB determined over time period, T.

" $L_{A90,T}$ " means the A-weighted sound pressure level in dB exceeded for 90% of the time period, T.

" L_{AFmax} " means the maximum A weighted sound level measurement in dB measured with a fast time weighting.

"LO" means loss on ignition a technique used to determine the combustible material by heating the ash residue to a high temperature

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"MFSU" means manufacture, formulation, supply and use.

"mg/l" means milligramme per litre.

"mg/m³" means milligramme per cubic metre.

"Monitoring" includes the taking and analysis of samples, instrumental measurements (periodic and continual), calibrations, examinations, tests and surveys.

"PAH" means Poly-cyclic aromatic hydrocarbon, and comprises Anthanthrene, Benzo[a]anthracene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[b]naph(2,1-d)thiophene, Benzo[c]phenanthrene, Benzo[ghi]perylene, Benzo[a]pyrene, Cholanthrene, Chrysene, Cyclopenta[c,d]pyrene, Dibenzo[ah]anthracene, Dibenzo[a,i]pyrene Fluoranthene, Indo[1,2,3-cd]pyrene, Naphthalene

"PCB" means Polychlorinated Biphenyl. Dioxin-like PCBs are the non-ortho and mono-ortho PCBs listed in condition 6.1.5.

"Permitted Installation" means the activities and the limits to those activities described in Table 1.1.1 of this Permit.

"PPC Regulations" means the Pollution, Prevention and Control (England and Wales) Regulations SI 2000 No.1973 (as amended) and words and expressions defined in the PPC Regulations shall have the same meanings when used in this Permit save to the extent they are specifically defined in this Permit.

"PM₁₀, PM_{2.5}, PM_{1.0}" mean respectively those particulates which have mean particle diameters of 10, 2.5 and 1.0 microns (µm).

"Quarterly" for reporting/sampling means after/during each 3 month period, January to March; April to June; July to September and October to December and, when sampling, with at least 2 months between each sampling date.

"Sewer" means sewer within the meaning of section 219(1) of the Water Industry Act 1991.

"Shutdown" is any period where the plant is being returned to a non-operational state and there is no waste being fed.

"Staff" includes employees, directors or other officers of the Operator, and any other person under the Operator's direct or indirect control, including contractors.

"Start-up" is any period, where the plant has been non-operational, after igniting the auxiliary burner until waste has been fed to the incinerator to initiate steady-state conditions.

"TOC" means Total Organic Carbon. In respect of releases to air, this means the gaseous and vaporous organic substances, expressed as TOC. In respect of Bottom Ash, this means the total carbon content of all organic species present in the ash (excluding carbon in elemental form).

"Waste Incineration Directive" means Directive 2000/76/EC on the incineration of waste (O.J. L 332, 28.12.2000).

"Waste oil" has the same meaning as in Directive 75/439/EEC.

"WHO" means the World Health Organisation.

"Year" means calendar year ending 31 December.

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

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

6.1.3.1 in relation to gases 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 (including waste oil), 6% dry for solid fuels; and/or

6.1.3.2 in relation to gases 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; and/or

- 6.1.3.3 in relation to gases from incineration plants other than those burning waste oil, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 11% dry.
- 6.1.3.4 where hazardous wastes are burned in an incineration or co-incineration plant and the emissions of pollutants are reduced by gas treatment, standardisation of the gas with respect to oxygen content shall be carried out only if the oxygen concentration measured over the same period exceeds the relevant oxygen content defined in conditions 6.1.3.1 – 6.1.3.3 above. In other cases, the measured emissions shall be standardised only for moisture, pressure and temperature.
- 6.1.4 Where any condition of this Permit refers to the whole or parts of different documents, in the event of any conflict between the wording of such documents, the wording of the document(s) with the most recent date shall prevail to the extent of such conflict.
- 6.1.5 For dioxins/furans and dioxin-like PCBs the determination of the toxic equivalence concentration (I-TEQ, & WHO-TEQ for dioxins/furans, WHO-TEQ for dioxin-like PCBs) stated as a release limit and/or reporting requirement, the mass concentrations of the following congeners have to be multiplied with their respective toxic equivalence factors before summing.

TEF schemes for dioxins and furans				
Congener	I-TEF(1990)	WHO-TEF (1997/8)		
		Humans / Mammals	Fish	Birds
Dioxins				
2,3,7,8-TCDD	1	1	1	1
1,2,3,7,8-PeCDD	0.5	1	1	1
1,2,3,4,7,8-HxCDD	0.1	0.1	0.5	0.05
1,2,3,6,7,8-HxCDD	0.1	0.1	0.01	0.01
1,2,3,7,8,9-HxCDD	0.1	0.1	0.01	0.1
1,2,3,4,6,7,8-HpCDD	0.01	0.01	0.001	<0.001
OCDD	0.001	0.0001	-	-
Furans				
2,3,7,8-TCDF	0.1	0.1	0.05	1
1,2,3,7,8-PeCDF	0.05	0.05	0.05	0.1
2,3,4,7,8-PeCDF	0.5	0.5	0.5	1
1,2,3,4,7,8-HxCDF	0.1	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	0.1	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	0.1	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	0.1	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	0.01	0.01	0.01	0.01
1,2,3,4,7,8,9-HpCDF	0.01	0.01	0.01	0.01
OCDF	0.001	0.0001	0.0001	0.0001

TEF schemes for dioxin-like PCBs			
Congener	WHO-TEF (1997/8)		
	Humans / mammals	Fish	Birds
Non-ortho PCBs			
3,4,4',5-TCB (81)	0.0001	0.0005	0.1
3,3',4,4'-TCB (77)	0.0001	0.0001	0.05
3,3',4,4',5 - PeCB (126)	0.1	0.005	0.1
3,3',4,4',5,5'-HxCB(169)	0.01	0.00005	0.001
Mono-ortho PCBs			
2,3,3',4,4'-PeCB (105)	0.0001	<0.000005	0.0001
2,3,4,4',5-PeCB (114)	0.0005	<0.000005	0.0001
2,3',4,4',5-PeCB (118)	0.0001	<0.000005	0.00001
2',3,4,4',5-PeCB (123)	0.0001	<0.000005	0.00001
2,3,3',4,4',5-HxCB (156)	0.0005	<0.000005	0.0001
2,3,3',4,4',5'-HxCB (157)	0.0005	<0.000005	0.0001
2,3',4,4',5,5'-HxCB (167)	0.00001	<0.000005	0.00001
2,3,3',4,4',5,5'-HpCB (189)	0.0001	<0.000005	0.00001

Schedule 1 - Notification of abnormal emissions (Including abnormal operations)

This page outlines the information that the Operator must provide to satisfy conditions 5.1.1 and 5.1.2 of this Permit.

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 PPC Regulations.

Part A

Permit Number	
Name of Operator	
Location of Installation	
Location of the emission	
Time and date of the emission	

Substance(s) emitted	Media	Best estimate of the quantity or the rate of emission	Time during which the emission took place

Measures taken, or intended to be taken, to stop the emission	
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Part B

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 or harm which has been or may be caused by the emission	
The dates of any unauthorised emissions from the Installation in the preceding 24 months.	

Part C

Permit Number	
Name of Operator	
Location of Installation	

For multi-line plants, indicate which line(s) was (were) subject to abnormal operation.								
Time at which abnormal operation commenced								
Time at which abnormal operation ceased								
Duration of this incidence of abnormal operation								
Cumulative abnormal operation duration in current year (at end of present incidence)								
Reasons for abnormal operation								
How did the abnormal operation end? (e.g. plant repaired, reaching maximum permitted duration, initiation of shutdown, etc.)								
Where the abnormal operation was caused by the failure of the particulate, CO or TOC CEM, attach a copy of the alternate monitoring data which was used to demonstrate compliance with the abnormal operation emission limit values.								
Where abatement plant has failed, give the half-hourly average emissions for pollutants of relevance during the abnormal operation in the rows below								
Pollutant	1 st ½ hour	2 nd ½ hour	3 rd ½ hour	4 th ½ hour	5 th ½ hour	6 th ½ hour	7 th ½ hour	8 th ½ hour

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of Cleanaway Limited.

Schedule 2 - Reporting of monitoring data

Parameters for which reports shall be made, in accordance with conditions 4.1.2 and 4.1.3 of this Permit, are listed below.

Table S2: Reporting of monitoring data			
Parameter	Emission point	Reporting period	Period begins
Sulphur dioxide mg/ m ³	A1	Every 6 months	01/01/2006
Total Organic Carbon (TOC) mg/m ³	A1	Every 6 months	01/01/2006
Oxides of nitrogen mg/m ³	A1	Every 6 months	01/01/2006
Hydrogen Chloride mg/m ³	A1	Every 6 months	01/01/2006
Hydrogen Fluoride mg/m ³	A1	Every 6 months	01/01/2006
Particulate Matter mg/m ³	A1	Every 6 months	01/01/2006
Carbon Monoxide mg/m ³	A1	Every 6 months	01/01/2006
Cadmium & Thallium and their compounds (total) mg/m ³	A1	Every 6 months	01/01/2006
Mercury and its compounds mg/m ³	A1	Every 6 months	01/01/2006
Antimony, Arsenic, Lead, Chromium, Cobalt, Copper, Manganese, Nickel, and Vanadium and their compounds (total) mg/m ³	A1	Every 6 months	01/01/2006
Dioxins / furans (I-TEQ) ng/m ³	A1	Every 6 months	01/01/2006
Dioxin-like PCBs (WHO-TEQ Humans / Mammals) ng/m ³	A1	Every 6 months	01/01/2006
Dioxin-like PCBs (WHO-TEQ Fish) ng/m ³	A1	Every 6 months	01/01/2006
Dioxin-like PCBs (WHO-TEQ Birds) ng/m ³	A1	Every 6 months	01/01/2006
Poly-cyclic aromatic hydrocarbons (PAHs) ng/m ³	A1	Every 6 months	01/01/2006

Permit and introductory note: the PPC Regulations
Schedule 2 - Reporting of monitoring data

Volumetric Flowrate m ³ /day	W1	Every 6 months	01/01/2006
pH	W1	Every 6 months	01/01/2006
Hydrocarbon oil mg/l	W1	Every 6 months	01/01/2006
Biochemical oxygen demand – ATU 5 days @ 20°C mg/l	W1	Every 6 months	01/01/2006
Suspended solids mg/l	W1	Every 6 months	01/01/2006
Mercury and its compounds mg/l	W1	Every 6 months	01/01/2006
Cadmium and its compounds mg/l	W1	Every 6 months	01/01/2006
Thallium and its compounds mg/l	W1	Every 6 months	01/01/2006
Arsenic and its compounds mg/l	W1	Every 6 months	01/01/2006
Lead and its compounds mg/l	W1	Every 6 months	01/01/2006
Chromium and its compounds mg/l	W1	Every 6 months	01/01/2006
Copper and its compounds mg/l	W1	Every 6 months	01/01/2006
Nickel and its compounds mg/l	W1	Every 6 months	01/01/2006
Zinc and its compounds mg/l	W1	Every 6 months	01/01/2006
Dioxins / furans (ITEQ) ng/l	W1	Every 6 months	01/01/2006
Dioxins / furans (WHO-TEQ Humans / Mammals) ng/l	W1	Every 6 months	01/01/2006
Dioxins / furans (WHO-TEQ Fish) ng/l	W1	Every 6 months	01/01/2006
Dioxins / furans (WHO-TEQ Birds) ng/l	W1	Every 6 months	01/01/2006
Total soluble fraction and metals (Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	Bottom Ash	Before use of a new disposal or recycling route	01/01/2006

Metals (Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.	Bottom Ash	Every 6 months	01/01/2006
Loss On Ignition (LOI) %	Bottom Ash	Every 6 months	01/01/2006
Metals (Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) and their compounds, dioxins/furans and dioxin-like PCBs.	APC Residues	Every 6 months	01/01/2006
Total soluble fraction and metals (Cadmium, Thallium, Mercury, Lead, Chromium, Copper, Manganese, Nickel, Arsenic, Cobalt, Vanadium, Zinc) soluble fractions	APC Residues	Before use of a new disposal or recycling route	01/01/2006
Water usage	Permitted Installation	Every 12 months	01/01/2006
Energy usage	Permitted Installation	Every 12 months	01/01/2006
Waste disposal and/or recovery.	Permitted Installation	Every 12 months	01/01/2006

Note 1. Operational parameters have been specified in Table 2.10.1, and this information shall not normally be required to be reported, but shall be available for inspection at the site.

Schedule 3 - Forms to be used

Table S3: Reporting Forms		
Media or parameter	Form Number	Date of Form
Air: Periodic monitored emissions biannually	Agency Form/BS5193IE/ A1/Form dated August 2005	August 2005
Air: Continuously monitored emissions of particulates	Agency Form/BS5193IE/A2/Form dated August 2005	August 2005
Air: Continuously monitored emissions of TOC	Agency Form/BS5193IE/A3/Form dated August 2005	August 2005
Air: Continuously monitored emissions of Hydrogen Chloride	Agency Form/BS5193IE/A4/Form dated August 2005	August 2005
Air: Continuously monitored emissions of Carbon monoxide	Agency Form/BS5193IE/A5/Form dated August 2005	August 2005
Air: Continuously monitored emissions of Sulphur dioxide	Agency Form/BS5193IE/A6/Form dated August 2005	August 2005
Air: Continuously monitored emissions of Oxides of nitrogen	Agency Form/BS5193IE/A7/Form dated August 2005	August 2005
Water: monitoring data (WID)	Agency Form/BS5193IE/W1/Form dated August 2005	August 2005
Water: emissions of dioxins and furans	Agency Form/BS5193IE/W2/Form dated August 2005	August 2005
Water: Continuously monitored emissions – effluent flowrate	Agency Form/BS5193IE/W3/Form dated August 2005	August 2005
Water: Continuously monitored emissions – pH	Agency Form/BS5193IE/W4/Form dated August 2005	August 2005
Water: Other periodic monitored emissions	Agency Form/BS5193IE/W5/Form dated August 2005	August 2005
Bottom Ash, APC Residues, Other solid residues: Loss on Ignition	Agency Form/BS5193IE/Ash1/Form dated August 2005	August 2005
Bottom Ash, APC Residues, Other solid residues: Solubility	Agency Form/BS5193IE/Ash2/Form dated August 2005	August 2005
Energy	Agency Form/BS5193IE/E1/Form dated August 2005	August 2005
Waste Return	Agency Form/BS5193IE/R1/Form dated August 2005	August 2005
Water usage	Agency Form/BS5193IE/WU1/Form dated August 2005	August 2005
Performance indicators	Agency Form/BS5193IE/PI1/Form dated August 2005	August 2005

Schedule 4 - Reporting of performance data

Data required to be recorded and reported by Condition 4.1.3. The data should be assessed at the frequency given and reported annually to the Agency.

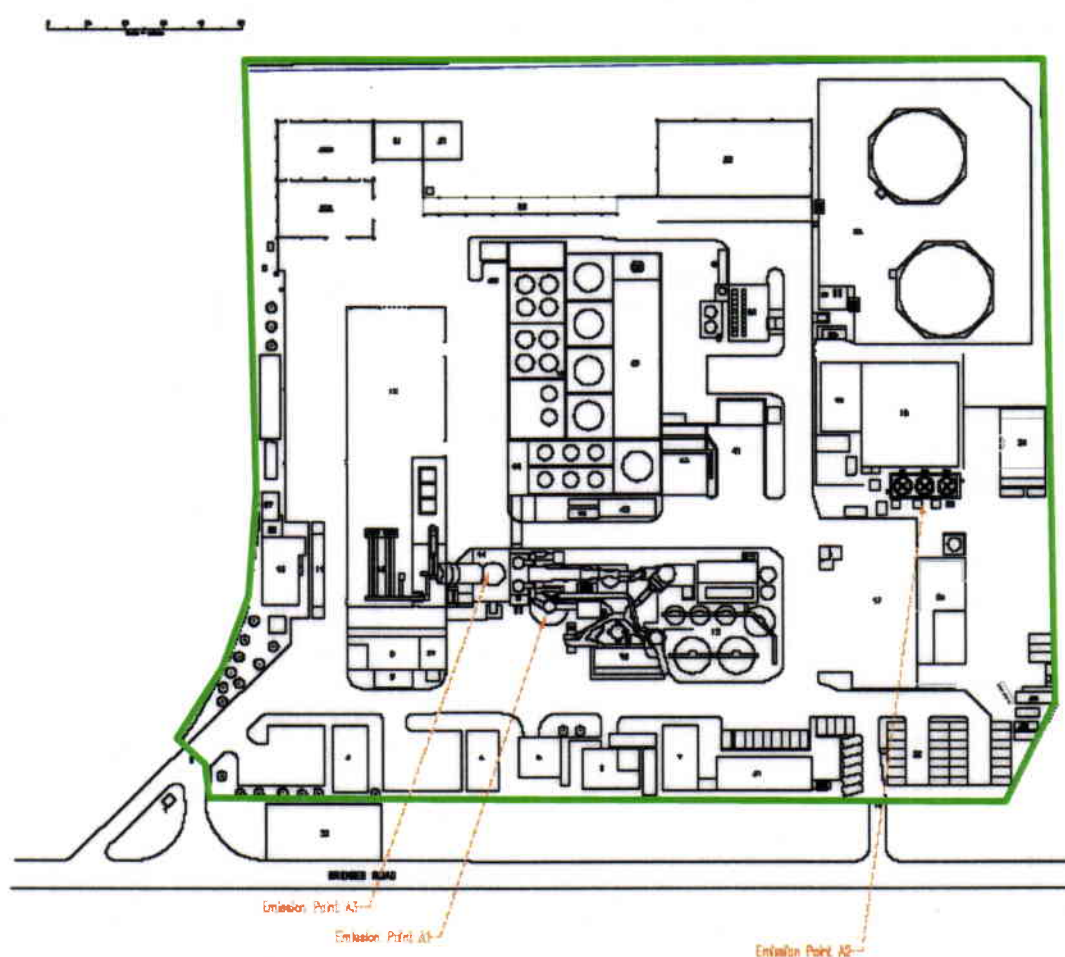
Table S4.1: Annual Production/Treatment

Total Hazardous Waste Incinerated	tonnes
Total Non-Hazardous Waste Incinerated	tonnes

Table S4.2: Performance parameters

Parameter	Frequency of assessment	Performance indicator
Electrical energy Imported to site	Annual	kWh / tonne of waste incinerated
Fuel oil consumption	Annual	kg/ tonne of waste incinerated
Mass of Bottom Ash produced	Annual	kg/ tonne of waste incinerated
Mass of APC residues disposed off-site	Annual	kg/ tonne of waste incinerated
Mass of Other solid residues disposed off-site	Annual	kg/ tonne of waste incinerated
Activated Carbon consumption	Annual	kg/ tonne of waste incinerated
Lime consumption	Annual	kg/ tonne of waste incinerated

Schedule 5 - Site Plan



Schedule 6 - List of Permitted Wastes

This Schedule reproduces the Permitted Wastes against the European Waste Catalogue (EWC) 2002 in full, with the "absolute entries" highlighted in red and the "mirror entries" highlighted in blue.

Absolute Entries – Hazardous waste regardless of threshold concentrations.

Mirror Entries – Hazardous waste only if dangerous substances are present above threshold concentrations.

Threshold concentrations for the hazardous properties H3 to H8, H10 and H11 are set out in Article 2 of the EWC 2002.

Permitted Waste Types		
Description	European Waste Catalogue Number (where available) or other specification	Waste type as defined in Table 2.1.2
Wastes from mineral metalliferous excavation	EWC 010101	Non-hazardous Waste
Wastes from mineral non-metalliferous excavation	EWC 010102	Non-hazardous Waste
Acid-generating tailings from processing of sulphide ore	EWC 010304	Hazardous Waste
Other tailings containing dangerous substances	EWC 010305	Hazardous Waste
Tailings other than those mentioned in EWC 010304 and 010305	EWC 010306	Non-hazardous Waste
Other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals	EWC 010307	Hazardous Waste
Dusty and powdery waste other than those in EWC 010307	EWC 010308	Non-hazardous Waste
Red mud from alumina production other than those in EWC 010307	EWC 010309	Non-hazardous Waste
Waste sand and clays	EWC 010409	Non-hazardous Waste
Dusty and powdery waste other than those in EWC 010407	EWC 010410	Non-hazardous Waste
Waste from potash and rock salt processing other than in EWC 010407	EWC 010411	Non-hazardous Waste
Tailings and other wastes from washing and cleaning of minerals other than those in EWC 010407 and 010411	EWC 010412	Non-hazardous Waste
Wastes from stone cutting and sawing other than those in EWC 010407	EWC 010413	Non-hazardous Waste
Oil-containing drilling muds and wastes	EWC 010505	Hazardous Waste
Drilling muds and other drilling wastes containing dangerous substances	EWC 010506	Hazardous Waste
Sludges from washing and cleaning from agriculture, horticulture, aquaculture, forestry, hunting and fishing	EWC 020101	Non-hazardous Waste
Animal tissue waste from agriculture, horticulture, aquaculture, forestry, hunting and fishing	EWC 020102	Non-hazardous Waste
Plant tissue waste from agriculture, horticulture, aquaculture, forestry, hunting and fishing	EWC 020103	Non-hazardous Waste
Waste plastics (except packaging) from agriculture, horticulture, aquaculture, forestry, hunting and fishing	EWC 020104	Non-hazardous Waste
Animal faeces, urine and manure (including spoiled straw), effluent, collected separately and treated off-site	EWC 020106	Non-hazardous Waste
Agrochemical wastes containing dangerous substances	EWC 020108	Hazardous Waste
Agrochemical waste other than those in EWC 020108	EWC 020109	Non-hazardous Waste
Waste metal from agriculture, horticulture, aquaculture, forestry, hunting and fishing	EWC 020110	Non-hazardous Waste

Sludges from washing and cleaning from the preparation and processing of meat, fish and other foods of animal origins	EWC 020201	Non-hazardous Waste
Animal tissue waste from the preparation and processing of meat, fish and other foods of animal origins	EWC 020202	Non-hazardous Waste
Materials unsuitable for consumption or processing	EWC 020203	Non-hazardous Waste
Sludges from on-site effluent treatment from the preparation and processing of meat, fish and other foods of animal origins	EWC 020204	Non-hazardous Waste
Sludges from washing, cleaning, peeling, centrifuging and separation	EWC 020301	Non-hazardous Waste
Wastes from preserving agents	EWC 020302	Non-hazardous Waste
Wastes from solvent extraction	EWC 020303	Non-hazardous Waste
Materials unsuitable for consumption and processing	EWC 020304	Non-hazardous Waste
Sludges from on-site effluent treatment	EWC 020305	Non-hazardous Waste
Soil from washing and cleaning of beet	EWC 020401	Non-hazardous Waste
Off specification calcium carbonate	EWC 020402	Non-hazardous Waste
Sludges from on-site effluent treatment	EWC 020403	Non-hazardous Waste
Materials unsuitable for consumption or processing from dairy products industry	EWC 020501	Non-hazardous Waste
Sludges from on-site effluent treatment from dairy products industry	EWC 020502	Non-hazardous Waste
Materials unsuitable for consumption or processing from baking and confectionery industry	EWC 020601	Non-hazardous Waste
Wastes from preserving agent from baking or confectionery industry	EWC 020602	Non-hazardous Waste
Sludges from on-site effluent treatment from baking or confectionery industry	EWC 020603	Non-hazardous Waste
Wastes from washing, cleaning and mechanical reduction of raw materials from the production of alcoholic and non-alcoholic beverages (except tea, coffee and cocoa)	EWC 020701	Non-hazardous Waste
Wastes from spirits distillation from the production of alcoholic and non-alcoholic beverages (except tea, coffee and cocoa)	EWC 020702	Non-hazardous Waste
Wastes from chemical treatment from the production of alcoholic and non-alcoholic beverages (except tea, coffee and cocoa)	EWC 020703	Non-hazardous Waste
Materials unsuitable for consumption or processing from the production of alcoholic and non-alcoholic beverages (except tea, coffee and cocoa)	EWC 020704	Non-hazardous Waste
Sludges from on-site effluent treatment from the production of alcoholic and non-alcoholic beverages (except tea, coffee and cocoa)	EWC 020705	Non-hazardous Waste
Sawdust, shavings, cuttings, wood, particle board and veneer containing dangerous substances	EWC 030104	Hazardous Waste
Sawdust, shavings, cuttings, wood, particle board and veneer other than those in EWC 030104	EWC 030105	Non-hazardous Waste
Non-halogenated organic wood preservatives	EWC 030201	Hazardous Waste
Organochlorinated wood preservatives	EWC 030202	Hazardous Waste
Organometallic wood preservatives	EWC 030203	Hazardous Waste
Inorganic wood preservatives	EWC 030204	Hazardous Waste
Other wood preservatives containing dangerous substances	EWC 030205	Hazardous Waste
Green liquor sludge (from recovery of cooking liquor)	EWC 030302	Non-hazardous Waste
De-inking sludges from paper recycling	EWC 030305	Non-hazardous Waste
Mechanically separated rejects from pulping of waste paper and cardboard	EWC 030307	Non-hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Wastes from sorting of paper and cardboard destined for recycling	EWC 030308	Non-hazardous Waste
Lime mud waste	EWC 030309	Non-hazardous Waste
Fibre rejects, fibre-, filler-, and coating sludges from mechanical separation	EWC 030310	Non-hazardous Waste
Sludges from on-site effluent treatment other than those in EWC 030310	EWC 030311	Non-hazardous Waste
Fleshings and lime split wastes	EWC 040101	Non-hazardous Waste
Liming waste	EWC 040102	Non-hazardous Waste
Degreasing waste containing solvents without a liquid phase	EWC 040103	Hazardous Waste
Tanning liquor containing chromium	EWC 040104	Non-hazardous Waste
Tanning liquor free of chromium	EWC 040105	Non-hazardous Waste
Sludges in particular from on-site effluent treatment containing chromium	EWC 040106	Non-hazardous Waste
Sludges in particular from on-site effluent treatment free of chromium	EWC 040107	Non-hazardous Waste
Waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium	EWC 040108	Non-hazardous Waste
Wastes from dressing and finishing	EWC 040109	Non-hazardous Waste
Waste from composite materials (impregnated textile, elastomer, plastomer)	EWC 040209	Non-hazardous Waste
Organic material from natural products	EWC 040210	Non-hazardous Waste
Waste from finishing containing organic solvents	EWC 040214	Hazardous Waste
Waste from finishing other than those in EWC 040214	EWC 040215	Non-hazardous Waste
Dyestuffs and pigments containing dangerous substances	EWC 040216	Hazardous Waste
Dyestuffs and pigments other than those in EWC 040216	EWC 040217	Non-hazardous Waste
Sludges from on-site effluent treatment containing dangerous substances	EWC 040219	Hazardous Waste
Sludges from on-site effluent treatment other than those in EWC 040219	EWC 040220	Non-hazardous Waste
Wastes from unprocessed textile fibres	EWC 040221	Non-hazardous Waste
Wastes from processed textile fibres	EWC 040222	Non-hazardous Waste
Tank bottom sludges	EWC 050103	Hazardous Waste
Acid alkyl sludges	EWC 050104	Hazardous Waste
Oil Spills	EWC 050105	Hazardous Waste
Oily sludges from maintenance operations of the plant or equipment	EWC 050106	Hazardous Waste
Acid Tars	EWC 050107	Hazardous Waste
Other Tars	EWC 050108	Hazardous Waste
Sludges from on-site effluent treatment plant containing dangerous substances	EWC 050109	Hazardous Waste
Sludges from on-site effluent treatment other than those in EWC 050109	EWC 050110	Non-hazardous Waste
Wastes from cleaning of fuels with bases	EWC 050111	Hazardous Waste
Oil containing acids	EWC 050112	Hazardous Waste
Boiler feedwater sludges	EWC 050113	Non-hazardous Waste
Wastes from cooling columns	EWC 050114	Non-hazardous Waste
Spent Filter Clays	EWC 050115	Hazardous Waste
Sulphur containing wastes from petroleum desulphurisation	EWC 050116	Non-hazardous Waste
Bitumen	EWC 050117	Non-hazardous Waste
Acid Tars	EWC 050601	Hazardous Waste
Other Tars	EWC 050603	Hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Waste from cooling columns	EWC 050604	Non-hazardous Waste
Wastes from containing sulphur	EWC 050702	Non-hazardous Waste
Sulphuric acid and sulphurous acid	EWC 060101	Hazardous Waste
Hydrochloric acid	EWC 060102	Hazardous Waste
Hydrofluoric acid	EWC 060103	Hazardous Waste
Phosphoric and phosphorous acid	EWC 060104	Hazardous Waste
Nitric acid and nitrous acid	EWC 060105	Hazardous Waste
Other acids	EWC 060106	Hazardous Waste
Wastes not otherwise specified (inorganic chemical process wastes)	EWC 060199	Hazardous Waste
Calcium hydroxide	EWC 060201	Hazardous Waste
Ammonium hydroxide	EWC 060203	Hazardous Waste
Sodium and potassium hydroxide	EWC 060204	Hazardous Waste
Wastes not otherwise specified (waste alkaline solutions)	EWC 060299	Hazardous Waste
Solid salts and solutions containing cyanide	EWC 060311	Hazardous Waste
Solid salts and solutions containing heavy metals	EWC 060313	Hazardous Waste
Solid salts and solutions other than those in EWC 060311 and 060313	EWC 060314	Non-hazardous Waste
Metallic oxides containing heavy metals	EWC 060315	Hazardous Waste
Metallic oxides other than those in EWC 060315	EWC 060316	Non-hazardous Waste
Waste containing arsenic	EWC 060403	Hazardous Waste
Waste containing mercury	EWC 060404	Hazardous Waste
Waste containing other heavy metals	EWC 060405	Hazardous Waste
Sludges from on-site effluent treatment containing dangerous substances	EWC 060502	Hazardous Waste
Sludges from on-site effluent treatment other than those in EWC 060502	EWC 060503	Non-hazardous Waste
Wastes containing dangerous sulphides	EWC 060602	Hazardous Waste
Wastes containing sulphides other than those in EWC 060602	EWC 060603	Non-hazardous Waste
Waste containing asbestos from electrolysis	EWC 060701	Hazardous Waste
Activated carbon from chlorine production	EWC 060702	Hazardous Waste
Solutions and acids, for example contact acid	EWC 060704	Hazardous Waste
Wastes containing dangerous silicones	EWC 060802	Hazardous Waste
Phosphorous slag	EWC 060902	Non-hazardous Waste
Calcium-based reaction wastes containing or contaminated with dangerous substances	EWC 060903	Hazardous Waste
Calcium based reaction wastes other than those in EWC 060903	EWC 060904	Non-hazardous Waste
Wastes containing dangerous substances	EWC 061002	Hazardous Waste
Calcium based reaction wastes from titanium dioxide production	EWC 061101	Non-hazardous Waste
Inorganic plant protection products, wood preserving agents and other biocides	EWC 061301	Hazardous Waste
Spent activated carbon (excluding EWC 060702)	EWC 061302	Hazardous Waste
Carbon black	EWC 061303	Non-hazardous Waste
Waste from asbestos processing	EWC 061304	Hazardous Waste
Soot	EWC 061305	Hazardous Waste
Aqueous washing liquids and mother liquors (from MFSU of basic organic chemicals)	EWC 070101	Hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Organic halogenated solvents, washing liquids and mother liquors (from MFSU of basic organic chemicals)	EWC 070103	Hazardous Waste
Other organic solvents, washing liquids and mother liquors (from MFSU of basic organic chemicals)	EWC 070104	Hazardous Waste
Halogenated still bottoms and reaction residues (from MFSU of basic organic chemicals)	EWC 070107	Hazardous Waste
Other still bottoms and reaction residues (from MFSU of basic organic chemicals)	EWC 070108	Hazardous Waste
Halogenated filter cakes, spent absorbents (from MFSU of basic organic chemicals)	EWC 070109	Hazardous Waste
Other filter cakes, spent absorbents (from MFSU of basic organic chemicals)	EWC 070110	Hazardous Waste
Sludges from on-site effluent treatment containing dangerous substances (from MFSU of basic organic chemicals)	EWC 070111	Hazardous Waste
Sludges from on-site effluent treatment other than those in EWC 070111	EWC 070112	Non-hazardous Waste
Aqueous washing liquids and mother liquors (from MFSU of plastics, synthetic rubber and man-made fibres)	EWC 070201	Hazardous Waste
Organic halogenated solvents, washing liquids and mother liquors (from MFSU of plastics, synthetic rubber and man-made fibres)	EWC 070203	Hazardous Waste
Other organic solvents, washing liquids and mother liquors (from MFSU of plastics, synthetic rubber and man-made fibres)	EWC 070204	Hazardous Waste
Halogenated still bottoms and reaction residues (from MFSU of plastics, synthetic rubber and man-made fibres)	EWC 070207	Hazardous Waste
Other still bottoms and reaction residues (from MFSU of plastics, synthetic rubber and man-made fibres)	EWC 070208	Hazardous Waste
Halogenated filter cakes, spent absorbents (from MFSU of plastics, synthetic rubber and man-made fibres)	EWC 070209	Hazardous Waste
Other filter cakes, spent absorbents (from MFSU of plastics, synthetic rubber and man-made fibres)	EWC 070210	Hazardous Waste
Sludges from on-site effluent treatment containing dangerous substances (from MFSU of plastics, synthetic rubber and man-made fibres)	EWC 070211	Hazardous Waste
Sludges from on-site effluent treatment other than those in EWC 070211	EWC 070212	Non-hazardous Waste
Waste plastic	EWC 070213	Non-hazardous Waste
Waste from additives other than those in EWC 070414	EWC 070215	Non-hazardous Waste
Aqueous washing liquids and mother liquors (from MFSU of organic dyes and pigments except EWC 0611)	EWC 070301	Hazardous Waste
Organic halogenated solvents, washing liquids and mother liquors (from MFSU of organic dyes and pigments except EWC 0611)	EWC 070303	Hazardous Waste
Other organic solvents, washing liquids and mother liquors (from MFSU of organic dyes and pigments except EWC 0611)	EWC 070304	Hazardous Waste
Halogenated still bottoms and reaction residues (from MFSU of organic dyes and pigments except EWC 0611)	EWC 070307	Hazardous Waste
Other still bottoms and reaction residues (from MFSU of organic dyes and pigments except EWC 0611)	EWC 070308	Hazardous Waste
Halogenated filter cakes, spent absorbents (from MFSU of organic dyes and pigments except EWC 0611)	EWC 070309	Hazardous Waste
Other filter cakes, spent absorbents (from MFSU of organic dyes and pigments except EWC 0611)	EWC 070310	Hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Sludges from on-site effluent treatment containing dangerous substances (from MFSU of organic dyes and pigments except EWC 0611)	EWC 070311	Hazardous Waste
Sludges from on-site effluent treatment other than those mentioned in EWC 070311	EWC 070312	Non-Hazardous Waste
Aqueous washing liquids and mother liquors (from MFSU of organic pesticides except EWC 020105)	EWC 070401	Hazardous Waste
Organic halogenated solvents, washing liquids and mother liquors (from MFSU of organic pesticides except EWC 020105)	EWC 070403	Hazardous Waste
Other organic solvents, washing liquids and mother liquors (from MFSU of organic pesticides except EWC 020105)	EWC 070404	Hazardous Waste
Halogenated still bottoms and reaction residues (from MFSU of organic pesticides except EWC 020105)	EWC 070407	Hazardous Waste
Other still bottoms and reaction residues (from MFSU of organic pesticides except EWC 020105)	EWC 070408	Hazardous Waste
Halogenated filter cakes, spent absorbents (from MFSU of organic pesticides except EWC 020105)	EWC 070409	Hazardous Waste
Other filter cakes, spent absorbents (from MFSU of organic pesticides except EWC 020105)	EWC 070410	Hazardous Waste
Sludges from on-site effluent treatment containing dangerous substances (from MFSU of organic pesticides except EWC 020105)	EWC 070411	Hazardous Waste
Sludges from on-site effluent treatment other than those mentioned in EWC 070411	EWC 070412	Non-Hazardous Waste
Solid wastes containing dangerous substances	EWC 070413	Hazardous Waste
Aqueous washing liquids and mother liquors (from MFSU of pharmaceuticals)	EWC 070501	Hazardous Waste
Organic halogenated solvents, washing liquids and mother liquors (from MFSU of pharmaceuticals)	EWC 070503	Hazardous Waste
Other organic solvents, washing liquids and mother liquors (from MFSU of pharmaceuticals)	EWC 070504	Hazardous Waste
Halogenated still bottoms and reaction residues (from MFSU of pharmaceuticals)	EWC 070507	Hazardous Waste
Other still bottoms and reaction residues (from MFSU of pharmaceuticals)	EWC 070508	Hazardous Waste
Halogenated filter cakes, spent absorbents (from MFSU of pharmaceuticals)	EWC 070509	Hazardous Waste
Other filter cakes, spent absorbents (from MFSU of organic dyes and pigments except EWC 0611)	EWC 070510	Hazardous Waste
Sludges from on-site effluent treatment containing dangerous substances (from MFSU of pharmaceuticals)	EWC 070511	Hazardous Waste
Sludges from on-site effluent treatment other than those mentioned in EWC 070511	EWC 070512	Non-Hazardous Waste
Solid wastes containing dangerous substances	EWC 070513	Hazardous Waste
Aqueous washing liquids and mother liquors (from MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics)	EWC 070601	Hazardous Waste
Organic halogenated solvents, washing liquids and mother liquors (from MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics)	EWC 070603	Hazardous Waste
Other organic solvents, washing liquids and mother liquors (from MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics)	EWC 070604	Hazardous Waste
Halogenated still bottoms and reaction residues (from MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics)	EWC 070607	Hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Other still bottoms and reaction residues (from MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics)	EWC 070608	Hazardous Waste
Halogenated filter cakes, spent absorbents (from MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics)	EWC 070609	Hazardous Waste
Other filter cakes, spent absorbents (from MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics)	EWC 070610	Hazardous Waste
Sludges from on-site effluent treatment containing dangerous substances (from MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics)	EWC 070611	Hazardous Waste
Sludges from on-site effluent treatment other than those mentioned in EWC 070611	EWC 070612	Non-Hazardous Waste
Aqueous washing liquids and mother liquors (from MFSU of fine chemicals and chemical products not otherwise specified)	EWC 070701	Hazardous Waste
Organic halogenated solvents, washing liquids and mother liquors (from MFSU of fine chemicals and chemical products not otherwise specified)	EWC 070703	Hazardous Waste
Other organic solvents, washing liquids and mother liquors (from MFSU of fine chemicals and chemical products not otherwise specified)	EWC 070704	Hazardous Waste
Halogenated still bottoms and reaction residues (from MFSU of fine chemicals and chemical products not otherwise specified)	EWC 070707	Hazardous Waste
Other still bottoms and reaction residues (from MFSU of fine chemicals and chemical products not otherwise specified)	EWC 070708	Hazardous Waste
Halogenated filter cakes, spent absorbents (from MFSU of fine chemicals and chemical products not otherwise specified)	EWC 070709	Hazardous Waste
Other filter cakes, spent absorbents (from MFSU of fine chemicals and chemical products not otherwise specified)	EWC 070710	Hazardous Waste
Sludges from on-site effluent treatment containing dangerous substances (from MFSU of fine chemicals and chemical products not otherwise specified)	EWC 070711	Hazardous Waste
Sludges from on-site effluent treatment other than those mentioned in EWC 070711	EWC 070712	Non-Hazardous Waste
Waste paint and varnish containing organic solvents or other dangerous substances	EWC 080111	Hazardous Waste
Waste paint and varnish other than those in EWC 080111	EWC 080112	Non-hazardous Waste
Sludges from paint or varnish containing organic solvents or other dangerous substances	EWC 080113	Hazardous Waste
Sludges from paint or varnish other than those in EWC 080113	EWC 080114	Non-hazardous Waste
Aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances	EWC 080115	Hazardous Waste
Aqueous sludges containing paint or varnish other than those in EWC 080115	EWC 080116	Non-hazardous Waste
Waste from paint or varnish from removal containing organic solvents or other dangerous substances	EWC 080117	Hazardous Waste
Wastes from paint or varnish other than those in EWC 080117	EWC 080118	Non-hazardous Waste
Aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances	EWC 080119	Hazardous Waste
Aqueous suspensions containing paint or varnish other than those in EWC 080119	EWC 080120	Non-hazardous Waste
Waste paint or varnish remover	EWC 080121	Hazardous Waste
Waste coating powders	EWC 080201	Non-hazardous Waste
Aqueous sludges containing ceramic materials	EWC 080202	Non-hazardous Waste

Aqueous suspensions containing ceramic materials	EWC 080203	Non-hazardous Waste
Aqueous sludges containing ink	EWC 080307	Non-hazardous Waste
Aqueous liquid waste containing ink	EWC 080308	Non-hazardous Waste
Waste ink containing dangerous substances	EWC 080312	Hazardous Waste
Waste ink other than those in EWC 080312	EWC 080313	Non-hazardous Waste
Ink sludges containing dangerous substances	EWC 080314	Hazardous Waste
Ink sludges other than those in EWC 080314	EWC 080315	Non-hazardous Waste
Waste etching solutions	EWC 080316	Hazardous Waste
Waste printing toner containing dangerous substances	EWC 080317	Hazardous Waste
Waste printing toner other than those in EWC 080317	EWC 080318	Non-hazardous Waste
Disperse oil	EWC 080319	Hazardous Waste
Waste adhesives and sealants containing organic solvents or other dangerous substances	EWC 080409	Hazardous Waste
Waste adhesives and sealants other than those in EWC 080409	EWC 080410	Non-hazardous Waste
Adhesive and sealant sludges containing organic solvents or other dangerous substances	EWC 080411	Hazardous Waste
Adhesive and sealant sludges other than those in EWC 080411	EWC 080412	Non-hazardous Waste
Aqueous sludges containing adhesives or sealants containing organic solvents or other dangerous substances	EWC 080413	Hazardous Waste
Aqueous sludges containing adhesive or sealant other than those in EWC 080413	EWC 080414	Non-hazardous Waste
Aqueous liquid waste containing adhesives or sealants with organic solvents or other dangerous substances	EWC 080415	Hazardous Waste
Aqueous liquid waste containing adhesive or sealant other than those in EWC 080415	EWC 080416	Non-hazardous Waste
Rosin oil	EWC 080417	Hazardous Waste
Waste isocyanates	EWC 080501	Hazardous Waste
Water based developer and activator solutions	EWC 090101	Hazardous Waste
Water based offset plate developer solutions	EWC 090102	Hazardous Waste
Solvent based developer solutions	EWC 090103	Hazardous Waste
Fixer solutions	EWC 090104	Hazardous Waste
Bleach solutions and bleach fixer solutions	EWC 090105	Hazardous Waste
Waste containing silver from on-site effluent treatment of photographic waste	EWC 090106	Hazardous Waste
Photographic film and paper containing silver or silver compounds	EWC 090107	Non-hazardous Waste
Photographic film and paper free of silver or silver compounds	EWC 090108	Non-hazardous Waste
Single use cameras without batteries	EWC 090110	Non-hazardous Waste
Single use cameras containing batteries included in EWC 160601, 160602 and 160603	EWC 090111	Hazardous Waste
Bottom ash, slag and boiler dust (excluding those in EWC 100104)	EWC 100101	Non-hazardous Waste
Coal fly ash	EWC 100102	Non-hazardous Waste
Fly ash from peat and untreated wood	EWC 100103	Non-hazardous Waste
Oily fly ash and boiler dust	EWC 100104	Hazardous Waste
Calcium based reaction wastes from flue gas desulphurisation in solid form	EWC 100105	Non-hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Calcium based reaction wastes from flue gas desulphurisation in sludge form	EWC 100107	Non-hazardous Waste
Sulphuric acid (from power stations and combustion plants except EWC 19)	EWC 100109	Hazardous Waste
Fly ash from emulsified hydrocarbons used as fuel	EWC 100113	Hazardous Waste
Bottom ash, slag and boiler dust from co-incineration containing dangerous substances	EWC 100114	Hazardous Waste
Bottom ash, slag and boiler dust from co-incineration other than those in EWC 100114	EWC 100115	Non-hazardous Waste
Fly ash from co-incineration containing dangerous substances	EWC 100116	Hazardous Waste
Fly ash from co-incineration other than those in EWC 100116	EWC 100117	Non-hazardous Waste
Wastes from gas cleaning containing dangerous substances	EWC 100118	Hazardous Waste
Wastes from gas cleaning other than those in EWC 100105, 100107 and 100118	EWC 100119	Non-hazardous Waste
Sludges from on-site effluent treatment containing dangerous substances	EWC 100120	Hazardous Waste
Sludges from on-site effluent treatment other than those in EWC 100120	EWC 100121	Non-hazardous Waste
Aqueous sludges from boiler cleansing containing dangerous substances	EWC 100122	Hazardous Waste
Aqueous sludges from boiler cleansing other than those mentioned in EWC 100122	EWC 100123	Non-hazardous Waste
Sands from fluidised beds	EWC 100124	Non-hazardous Waste
Wastes from fuel storage and preparation of coal fired power plants	EWC 100125	Non-hazardous Waste
Wastes from cooling water	EWC 100126	Non-hazardous Waste
Wastes from processing of slag	EWC 100201	Non-hazardous Waste
Unprocessed slag	EWC 100202	Non-hazardous Waste
Solid waste from gas treatment of electrical arc furnaces containing dangerous substances	EWC 100207	Hazardous Waste
Solid wastes from gas treatment other than those in EWC 100207	EWC 100208	Non-hazardous Waste
Mill scales	EWC 100210	Non-hazardous Waste
Waste from cooling water treatment containing oil	EWC 100211	Hazardous Waste
Waste from cooling water treatment other than those in EWC 100211	EWC 100212	Non-hazardous Waste
Sludges from gas treatment containing dangerous substances	EWC 100213	Hazardous Waste
Sludges and filter cakes from gas treatment other than those in EWC 100213	EWC 100214	Non-hazardous Waste
Other sludges and filter cakes	EWC 100215	Non-hazardous Waste
Anode scraps	EWC 100302	Non-hazardous Waste
Primary production slags	EWC 100304	Hazardous Waste
Waste alumina	EWC 100305	Non-hazardous Waste
Salt slags from secondary production	EWC 100308	Hazardous Waste
Black drosses from secondary production	EWC 100309	Hazardous Waste
Skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities	EWC 100315	Hazardous Waste
Skimmings other than those in EWC 100315	EWC 100316	Non-hazardous Waste
Tar containing wastes from anode manufacture	EWC 100317	Hazardous Waste
Carbon containing wastes from anode manufacture other than those in EWC 100317	EWC 100318	Non-hazardous Waste
Flue-gas dust containing dangerous substances	EWC 100319	Hazardous Waste
Flue gas dust other than those in EWC 100319	EWC 100320	Non-hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Other particulates and dust (including ball-mill dust) containing dangerous substances	EWC 100321	Hazardous Waste
Other particulates and dust (including ball mill dust) other than those in EWC 100321	EWC 100322	Non-hazardous Waste
Solid wastes from gas treatment containing dangerous substances	EWC 100323	Hazardous Waste
Solid wastes from gas treatment other than those in EWC 100323	EWC 100324	Non-hazardous Waste
Sludges and filter cakes from gas treatment containing dangerous substances	EWC 100325	Hazardous Waste
Sludges and filter cakes from gas treatment other than those in EWC 100325	EWC 100326	Non-hazardous Waste
Wastes from cooling-water treatment containing oil	EWC 100327	Hazardous Waste
Wastes from cooling water treatment other than those in EWC 100327	EWC 100328	Non-hazardous Waste
Waste from treatment of salt and black drosses containing dangerous substances	EWC 100329	Hazardous Waste
Wastes from treatment of salt slags and black drosses other than those in EWC 103029	EWC 100330	Non-hazardous Waste
Slags from primary and secondary production	EWC 100401	Hazardous Waste
Dross and skimmings from primary and secondary production	EWC 100402	Hazardous Waste
Calcium arsenate	EWC 100403	Hazardous Waste
Flue gas dust	EWC 100404	Hazardous Waste
Other particulates and dust	EWC 100405	Hazardous Waste
Solid waste from gas treatment	EWC 100406	Hazardous Waste
Sludges from gas treatment	EWC 100407	Hazardous Waste
Wastes from cooling-water treatment containing oil	EWC 100409	Hazardous Waste
Wastes from cooling water treatment other than those in EWC 100409	EWC 100410	Non-hazardous Waste
Flue gas dust	EWC 100503	Hazardous Waste
Solid waste from gas treatment	EWC 100505	Hazardous Waste
Sludges from gas treatment	EWC 100506	Hazardous Waste
Wastes from cooling-water treatment containing oil	EWC 100508	Hazardous Waste
Dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities	EWC 100510	Hazardous Waste
Slags from primary and secondary production	EWC 100601	Non-hazardous Waste
Dross and skimmings from primary and secondary production	EWC 100602	Non-hazardous Waste
Flue gas dust	EWC 100603	Hazardous Waste
Other particulates and dust	EWC 100604	Non-hazardous Waste
Solid waste from gas treatment	EWC 100606	Hazardous Waste
Sludges from gas treatment	EWC 100607	Hazardous Waste
Wastes from cooling-water treatment containing oil	EWC 100609	Hazardous Waste
Wastes from cooling water treatment other than those in EWC 100609	EWC 100610	Non-hazardous Waste
Slags from primary and secondary production	EWC 100701	Non-hazardous Waste
Dross and skimmings from primary and secondary production	EWC 100702	Non-hazardous Waste
Solid waste from gas treatment	EWC 100703	Non-hazardous Waste
Other particulates and dust	EWC 100704	Non-hazardous Waste
Sludges and filter cakes from gas treatment	EWC 100705	Non-hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Wastes from cooling-water treatment containing oil	EWC 100707	Hazardous Waste
Wastes from cooling water treatment other than those in EWC 100707	EWC 100708	Non-hazardous Waste
Particulates and dust	EWC 100804	Non-hazardous Waste
Salt slag from primary and secondary production	EWC 100808	Hazardous Waste
Other slags	EWC 100809	Non-hazardous Waste
Dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities	EWC 100810	Hazardous Waste
Dross and skimmings other than those in EWC 100810	EWC 100811	Non-hazardous Waste
Tar-containing wastes from anode manufacture	EWC 100812	Hazardous Waste
Carbon containing wastes from anode manufacture other than those in EWC 100812	EWC 100813	Non-hazardous Waste
Anode scrap	EWC 100814	Non-hazardous Waste
Flue gas dust containing dangerous substances	EWC 100815	Hazardous Waste
Flue gas dust other than those mentioned in EWC 100815	EWC 100816	Non-hazardous Waste
Sludges and filter cakes from flue gas treatment containing dangerous substances	EWC 100817	Hazardous Waste
Sludges and filter cakes from gas treatment other than those in EWC 100817	EWC 100818	Non-hazardous Waste
Waste from cooling-water treatment containing oil	EWC 100819	Hazardous Waste
Wastes from cooling water treatment other than those in EWC 100819	EWC 100820	Non-hazardous Waste
Furnace slag	EWC 100903	Non-hazardous Waste
Casting cores and moulds which have not undergone pouring other than those in EWC 100905	EWC 100906	Non-hazardous Waste
Casting cores and moulds which have undergone pouring other than those in EWC 100907	EWC 100908	Non-hazardous Waste
Flue gas dust containing dangerous substances	EWC 100909	Hazardous Waste
Flue gas dust other than those in EWC 100909	EWC 100910	Non-hazardous Waste
Other particulates containing dangerous substances	EWC 100911	Hazardous Waste
Other particulates other than those in EWC 100911	EWC 100912	Non-hazardous Waste
Waste binders containing dangerous substances	EWC 100913	Hazardous Waste
Waste binders other than those in EWC 100913	EWC 100914	Non-hazardous Waste
Waste crack indicating agent other than those in EWC 100915	EWC 100916	Non-hazardous Waste
Casting cores and moulds which have not undergone pouring other than those in EWC 101005	EWC 101006	Non-hazardous Waste
Casting cores and moulds which have undergone pouring other than those in EWC 101007	EWC 101008	Non-hazardous Waste
Flue gas dust containing dangerous substances	EWC 101009	Hazardous Waste
Flue gas dust other than those in EWC 101009	EWC 101010	Non-hazardous Waste
Other particulates containing dangerous substances	EWC 101011	Hazardous Waste
Other particulates other than those in EWC 101011	EWC 101012	Non-hazardous Waste
Waste binders containing dangerous substances	EWC 101013	Hazardous Waste
Waste binders other than those in EWC 101013	EWC 101014	Non-hazardous Waste
Waste crack indicating agent other than those in EWC 101015	EWC 101016	Non-hazardous Waste
Waste glass based fibrous materials	EWC 101103	Non-hazardous Waste

Particulates and dust	EWC 101105	Non-hazardous Waste
Waste preparation mixture before thermal processing, containing dangerous substances	EWC 101109	Hazardous Waste
Waste preparation mixture before thermal processing other than those in EWC 101109	EWC 101110	Non-hazardous Waste
Waste glass in small particles and glass powder containing heavy metals (for example cathode ray tubes)	EWC 101111	Hazardous Waste
Waste glass other than those in EWC 101111	EWC 101112	Non-hazardous Waste
Glass -polishing and -grinding sludge containing dangerous substances	EWC 101113	Hazardous Waste
Glass -polishing and -grinding sludge other than those in EWC 101113	EWC 101114	Non-hazardous Waste
Solid wastes from flue gas treatment containing dangerous substances	EWC 101115	Hazardous Waste
Solid waste from flue gas treatment other than those in EWC 101115	EWC 101116	Non-hazardous Waste
Sludges and filter cakes from flue gas treatment containing dangerous substances	EWC 101117	Hazardous Waste
Sludges and filter cakes from flue gas treatment other than those in EWC 101117	EWC 101118	Non-hazardous Waste
Solid wastes from on-site effluent treatment containing dangerous substances	EWC 101119	Hazardous Waste
Solid wastes from on-site effluent treatment other than those in EWC 101119	EWC 101120	Non-hazardous Waste
Waste preparation mixture before thermal processing	EWC 101201	Non-hazardous Waste
Particulates and dust	EWC 101203	Non-hazardous Waste
Sludges and filter cakes from gas treatment	EWC 101205	Non-hazardous Waste
Discarded moulds	EWC 101206	Non-hazardous Waste
Waste ceramics, bricks, tiles and construction products (after thermal processing)	EWC 101208	Non-hazardous Waste
Solid wastes from gas treatment containing dangerous substances	EWC 101209	Hazardous Waste
Solid waste from gas treatment other than those in EWC 101209	EWC 101210	Non-hazardous Waste
Wastes from glazing containing heavy metals	EWC 101211	Hazardous Waste
Waste from glazing other than those in EWC 101211	EWC 101212	Non-hazardous Waste
Sludge from on-site effluent treatment	EWC 101213	Non-hazardous Waste
Waste preparation mixture before thermal processing	EWC 101301	Non-hazardous Waste
Wastes from calcination and hydration of lime	EWC 101304	Non-hazardous Waste
Particulates and dust (except EWC 101312 and 101313)	EWC 101306	Non-hazardous Waste
Sludges and filter cakes from gas treatment	EWC 101307	Non-hazardous Waste
Wastes from asbestos cement manufacture other than those in EWC 101309	EWC 101310	Non-hazardous Waste
Solid waste from gas treatment containing dangerous substances	EWC 101312	Hazardous Waste
Solid waste from gas treatment other than those in EWC 101312	EWC 101313	Non-hazardous Waste
Waste concrete and concrete sludge	EWC 101314	Non-hazardous Waste
Pickling acids	EWC 110105	Hazardous Waste
Acids not otherwise specified	EWC 110106	Hazardous Waste
Pickling bases	EWC 110107	Hazardous Waste
Phosphating sludges	EWC 110108	Hazardous Waste
Sludges and filter cakes containing dangerous substances	EWC 110109	Hazardous Waste
Sludges and filter cakes other than those in EWC 110109	EWC 110110	Non-hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Aqueous rinsing liquids containing dangerous substances	EWC 110111	Hazardous Waste
Aqueous rinsing liquids other than those in EWC 110111	EWC 110112	Non-hazardous Waste
Degreasing wastes containing dangerous substances	EWC 110113	Hazardous Waste
Degreasing wastes other than those in EWC 110113	EWC 110114	Non-hazardous Waste
Eluate and sludges from membrane systems or ion exchange systems containing dangerous substances	EWC 110115	Hazardous Waste
Saturated or spent ion exchange resins	EWC 110116	Hazardous Waste
Other wastes containing dangerous substances	EWC 110198	Hazardous Waste
Sludges from zinc hydrometallurgy	EWC 110202	Hazardous Waste
Wastes from copper hydrometallurgical processes containing dangerous substances	EWC 110205	Hazardous Waste
Other wastes containing dangerous substances	EWC 110207	Hazardous Waste
Waste containing cyanide	EWC 110301	Hazardous Waste
Other wastes	EWC 110302	Hazardous Waste
Hard zinc	EWC 110501	Non-hazardous Waste
Zinc ash	EWC 110502	Non-hazardous Waste
Solid wastes from gas treatment	EWC 110503	Hazardous Waste
Spent flux	EWC 110504	Hazardous Waste
Ferrous metal filings and turnings	EWC 120101	Non-hazardous Waste
Ferrous metal dust and particles	EWC 120102	Non-hazardous Waste
Non-ferrous metal filings and particles	EWC 120103	Non-hazardous Waste
Non-ferrous metal dust and particles	EWC 120104	Non-hazardous Waste
Plastics shavings and turnings	EWC 120105	Non-hazardous Waste
Mineral based machining oils containing halogens (except emulsions & solutions)	EWC 120106	Hazardous Waste
Mineral based machining oils free of halogens (except emulsions & solutions)	EWC 120107	Hazardous Waste
Machining emulsions containing halogens	EWC 120108	Hazardous Waste
Machining emulsions free of halogens	EWC 120109	Hazardous Waste
Synthetic machining oils	EWC 120110	Hazardous Waste
Spent waxes and fats	EWC 120112	Hazardous Waste
Welding wastes	EWC 120113	Non-hazardous Waste
Machining sludges containing dangerous substances	EWC 120114	Hazardous Waste
Metal sludge (grinding, honing and lapping sludge) containing oil	EWC 120118	Hazardous Waste
Readily biodegradable machining oil	EWC 120119	Hazardous Waste
Spent grinding bodies and grinding materials other than those in EWC 120120	EWC 120121	Non-hazardous Waste
Aqueous washing liquids	EWC 120301	Hazardous Waste
Steam degreasing waste	EWC 120302	Hazardous Waste
Hydraulic oils containing PCBs	EWC 130101	Hazardous Waste
Chlorinated emulsions	EWC 130104	Hazardous Waste
Non-chlorinated emulsions	EWC 130105	Hazardous Waste
Mineral based chlorinated hydraulic oils	EWC 130109	Hazardous Waste
Mineral based non-chlorinated hydraulic oils	EWC 130110	Hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Synthetic hydraulic oils	EWC 130111	Hazardous Waste
Readily biodegradable hydraulic oils	EWC 130112	Hazardous Waste
Other hydraulic oils	EWC 130113	Hazardous Waste
Mineral based chlorinated engine, gear & lubricating oils	EWC 130204	Hazardous Waste
Mineral based Non-chlorinated engine, gear & lubricating oils	EWC 130205	Hazardous Waste
Synthetic engine, gear & lubricating oils	EWC 130206	Hazardous Waste
Readily biodegradable engine, gear & lubricating oils	EWC 130207	Hazardous Waste
Other engine, gear & lubricating oils	EWC 130208	Hazardous Waste
Insulating or heat transmission oils and other liquids containing PCBs	EWC 130301	Hazardous Waste
Mineral based chlorinated insulating and heat transmission oils other than those in EWC 130301	EWC 130306	Hazardous Waste
Mineral based non-chlorinated insulating and heat transmission oils	EWC 130307	Hazardous Waste
Synthetic insulating and heat transmission oils	EWC 130308	Hazardous Waste
Readily biodegradable insulating and heat transmission oils	EWC 130309	Hazardous Waste
Other insulating and heat transmission oils	EWC 130310	Hazardous Waste
Bilge oils from inland navigation	EWC 130401	Hazardous Waste
Bilge oils from jetty sewers	EWC 130402	Hazardous Waste
Bilge oils from other navigation	EWC 130403	Hazardous Waste
Solids from grit chambers and oil/water separators	EWC 130501	Hazardous Waste
Sludges from Oil/water separators	EWC 130502	Hazardous Waste
Interceptor sludges	EWC 130503	Hazardous Waste
Oil from oil/water separators	EWC 130506	Hazardous Waste
Oily water from oil/water separators	EWC 130507	Hazardous Waste
Mixtures of waste from grit chambers and oil/water separators	EWC 130508	Hazardous Waste
Fuel oil and diesel	EWC 130701	Hazardous Waste
Petrol	EWC 130702	Hazardous Waste
Other fuels (including mixtures)	EWC 130703	Hazardous Waste
Desalter sludges or emulsions	EWC 130801	Hazardous Waste
Other emulsions	EWC 130802	Hazardous Waste
Oil waste not otherwise specified	EWC 130899	Hazardous Waste
Chlorofluorocarbons, HCFC, HFC	EWC 140601	Hazardous Waste
Other halogenated solvents and solvent mixes	EWC 140602	Hazardous Waste
Other solvents and solvent mixes	EWC 140603	Hazardous Waste
Sludges or solid wastes containing halogenated solvents	EWC 140604	Hazardous Waste
Sludges or solid wastes containing other solvents	EWC 140605	Hazardous Waste
Paper and cardboard packaging	EWC 150101	Non-hazardous Waste
Plastic packaging	EWC 150102	Non-hazardous Waste
Wooden packaging	EWC 150103	Non-hazardous Waste
Metallic packaging	EWC 150104	Non-hazardous Waste
Composite packaging	EWC 150105	Non-hazardous Waste
Mixed packaging	EWC 150106	Non-hazardous Waste

Glass packaging	EWC 150107	Non-hazardous Waste
Textile packaging	EWC 150109	Non-hazardous Waste
Packaging containing residues of or contaminated by dangerous substances	EWC 150110	Hazardous Waste
Metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers	EWC 150111	Hazardous Waste
Absorbents, filter materials, wiping cloths, protective clothing contaminated by dangerous substances	EWC 150202	Hazardous Waste
Absorbents, filter materials, wiping cloths and protective clothing other than those in EWC 150202	EWC 150203	Non-hazardous Waste
End of life tyres	EWC 160103	Non-hazardous Waste
Oil filters	EWC 160107	Hazardous Waste
Components containing PCBs	EWC 160109	Hazardous Waste
Explosive components (for example air bags)	EWC 160110	Hazardous Waste
Brake fluids	EWC 160113	Hazardous Waste
Antifreeze fluids containing dangerous substances	EWC 160114	Hazardous Waste
Antifreeze fluids other than those in EWC 160114	EWC 160115	Non-hazardous Waste
Tanks for liquefied gas	EWC 160116	Non-hazardous Waste
Ferrous metal	EWC 160117	Non-hazardous Waste
Non-ferrous metal	EWC 160118	Non-hazardous Waste
Plastic	EWC 160119	Non-hazardous Waste
Glass	EWC 160120	Non-hazardous Waste
Hazardous components other than those mentioned in EWC 160107 to EWC 160111 and EWC 160113 and EWC 160114	EWC 160121	Hazardous Waste
Components not otherwise specified	EWC 160122	Non-hazardous Waste
Transformers and capacitors containing PCBs	EWC 160209	Hazardous Waste
Discarded equipment containing or contaminated by PCBs other those mentioned in EWC 160209	EWC 160210	Hazardous Waste
Discarded equipment containing chlorofluorocarbons, HCFC, HFC	EWC 160211	Hazardous Waste
Discarded equipment containing hazardous components other than those mentioned in EWC 160209 to EWC 160212	EWC 160213	Hazardous Waste
Discarded equipment other than those in EWC 160209 and 160213	EWC 160214	Non-hazardous Waste
Hazardous components removed from discarded equipment	EWC 160215	Hazardous Waste
Components removed from discarded equipment other than those in EWC 160215	EWC 160216	Non-hazardous Waste
Inorganic wastes containing dangerous substances	EWC 160303	Hazardous Waste
Inorganic wastes other than those in EWC 160303	EWC 160304	Non-hazardous Waste
Organic wastes containing dangerous substances	EWC 160305	Hazardous Waste
Organic wastes other than those in EWC 160305	EWC 160306	Non-hazardous Waste
Fireworks waste	EWC 160402	Hazardous Waste
Gases in pressure containers (including halons) containing dangerous substances	EWC 160504	Hazardous Waste
Gases in pressure containers other than those in EWC 160504	EWC 160505	Non-hazardous Waste
Laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals	EWC 160506	Hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Discarded inorganic chemicals consisting of or containing dangerous substances	EWC 160507	Hazardous Waste
Discarded organic chemicals consisting of or containing dangerous substances	EWC 160508	Hazardous Waste
Discarded chemicals other than those in EWC 160506, 160507 or 160508	EWC 160509	Non-hazardous Waste
Lead batteries	EWC 160601	Hazardous Waste
Alkaline batteries (except EWC 160603)	EWC 160604	Non-hazardous Waste
Other batteries and accumulators	EWC 160605	Non-hazardous Waste
Separately collected electrolyte from batteries and accumulators	EWC 160606	Hazardous Waste
Wastes containing oil	EWC 160708	Hazardous Waste
Waste containing other dangerous substances	EWC 160709	Hazardous Waste
Spent catalysts containing gold, silver, rhenium, rhodium, iridium, or platinum (except EWC 160807)	EWC 160801	Non-hazardous Waste
Spent catalysts containing dangerous transition metals or transition metal compounds	EWC 160802	Hazardous Waste
Spent catalyst containing transition metals or transition metal compounds not otherwise specified	EWC 160803	Non-hazardous Waste
Spent fluid cracking catalysts (except EWC 160807)	EWC 160804	Non-hazardous Waste
Spent catalysts containing phosphoric acid	EWC 160805	Hazardous Waste
Spent liquids used as catalysts	EWC 160806	Hazardous Waste
Spent catalysts contaminated with dangerous substances	EWC 160807	Hazardous Waste
Permanganates, for example potassium permanganate	EWC 160901	Hazardous Waste
Chromates, for example potassium chromate, potassium or sodium dichromate	EWC 160902	Hazardous Waste
Peroxides, for example hydrogen peroxide	EWC 160903	Hazardous Waste
Oxidising substances, not otherwise specified	EWC 160904	Hazardous Waste
Aqueous liquid wastes containing dangerous substances	EWC 161001	Hazardous Waste
Aqueous liquid wastes other than those in EWC 161001	EWC 161002	Non-hazardous Waste
Aqueous concentrates containing dangerous substances	EWC 161003	Hazardous Waste
Aqueous concentrates other than those in EWC 161003	EWC 161004	Non-hazardous Waste
Carbon based linings and refractories from metallurgical processes containing dangerous substances	EWC 161101	Hazardous Waste
Carbon based linings and refractories from metallurgical processes other than those in EWC 161101	EWC 161102	Non-hazardous Waste
Other linings and refractories from metallurgical processes containing dangerous substances	EWC 161103	Hazardous Waste
Other linings and refractories from metallurgical processes other than those in EWC 161103	EWC 161104	Non-hazardous Waste
Linings and refractories from non-metallurgical processes containing dangerous substances	EWC 161105	Hazardous Waste
Linings and refractories from non-metallurgical processes other than those in EWC 161105	EWC 161106	Non-hazardous Waste
Concrete	EWC 170101	Non-hazardous Waste
Bricks	EWC 170102	Non-hazardous Waste
Tiles and ceramics	EWC 170103	Non-hazardous Waste
Mixtures of, or separate fractions of concrete, bricks, tiles, ceramics containing dangerous substances	EWC 170106	Hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Mixtures of concrete, bricks, tiles and ceramics other than those in EWC 170106	EWC 170107	Non-hazardous Waste
Wood	EWC 170201	Non-hazardous Waste
Glass	EWC 170202	Non-hazardous Waste
Plastic	EWC 170203	Non-hazardous Waste
Glass, plastic and wood containing or contaminated with dangerous substances	EWC 170204	Hazardous Waste
Bituminous mixtures containing coal tar	EWC 170301	Hazardous Waste
Bituminous mixtures other than those in EWC 170301	EWC 170302	Non-hazardous Waste
Coal tar and tarred products	EWC 170303	Hazardous Waste
Copper, bronze, brass	EWC 170401	Non-hazardous Waste
Aluminium	EWC 170402	Non-hazardous Waste
Lead	EWC 170403	Non-hazardous Waste
Zinc	EWC 170404	Non-hazardous Waste
Iron and steel	EWC 170405	Non-hazardous Waste
Tin	EWC 170406	Non-hazardous Waste
Mixed metals	EWC 170407	Non-hazardous Waste
Metal waste contaminated with dangerous substances	EWC 170409	Hazardous Waste
Cables containing oil, coal tar and other dangerous substances	EWC 170410	Hazardous Waste
Cables other than those in EWC 170410	EWC 170411	Non-hazardous Waste
Soil and stones containing dangerous substances	EWC 170503	Hazardous Waste
Soil and stones other than those in EWC 170503	EWC 170504	Non-hazardous Waste
Dredging spoil containing dangerous substances	EWC 170505	Hazardous Waste
Dredging spoil other than those in EWC 170505	EWC 170506	Non-hazardous Waste
Track ballast containing dangerous substances	EWC 170507	Hazardous Waste
Track ballast other than those in EWC 170507	EWC 170508	Non-hazardous Waste
Other insulation materials consisting of or containing dangerous substances	EWC 170603	Hazardous Waste
Insulation materials other than those in EWC 170601 and 170603	EWC 170604	Non-hazardous Waste
Gypsum based construction materials contaminated with dangerous substances	EWC 170801	Hazardous Waste
Gypsum based construction materials other than those in EWC 170801	EWC 170802	Non-hazardous Waste
Construction and demolition wastes containing PCB (for example PCB containing sealants, PCB containing resin-based floorings, PCB containing sealed glazing units, PCB containing capacitors)	EWC 170902	Hazardous Waste
Other construction and demolition wastes (including mixed wastes) containing dangerous substances	EWC 170903	Hazardous Waste
Mixed construction and demolition wastes other than those in EWC 170901, 170902 and 170903	EWC 170904	Non-hazardous Waste
Sharps (except EWC 180103)	EWC 180101	Non-hazardous Waste
Body parts and organs including blood bags and blood preserves (except in EWC 180103)	EWC 180102	Non-hazardous Waste
Wastes whose collection and disposal is subject to special requirements in view of the prevention of infection	EWC 180103	Hazardous Waste
Wastes whose collection and disposal is not subject to special requirements in order to prevent infection (e.g. dressings, plaster casts, linen, disposable clothing, diapers)	EWC 180104	Non-hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Chemicals consisting of or containing dangerous substances	EWC 180106	Hazardous Waste
Chemicals other than those in EWC 180106	EWC 180107	Non-hazardous Waste
Cytotoxic and cytostatic medicines	EWC 180108	Hazardous Waste
Medicines other than those in EWC 180108	EWC 180109	Non-hazardous Waste
Sharps (except EWC 180202)	EWC 180201	Non-hazardous Waste
Wastes whose collection and disposal is subject to special requirements in view of the prevention of infection	EWC 180202	Hazardous Waste
Wastes whose collection and disposal is not subject to special requirements in order to prevent infection	EWC 180203	Non-hazardous Waste
Chemicals consisting of or containing dangerous substances	EWC 180205	Hazardous Waste
Chemicals other than those mentioned in EWC 180205	EWC 180206	Non-hazardous Waste
Cytotoxic and cytostatic medicines	EWC 180207	Hazardous Waste
Medicines other than those in EWC 180207	EWC 180208	Non-hazardous Waste
Filter cake from gas treatment	EWC 190105	Hazardous Waste
Aqueous liquid waste from gas treatment and other aqueous liquid waste	EWC 190106	Hazardous Waste
Solid waste from gas treatment	EWC 190107	Hazardous Waste
Spent activated carbon from flue gas treatment	EWC 190110	Hazardous Waste
Bottom ash and slag containing dangerous substances	EWC 190111	Hazardous Waste
Bottom ash and slag other than those in EWC 190111	EWC 190112	Non-hazardous Waste
Fly ash containing dangerous substances	EWC 190113	Hazardous Waste
Fly ash other than those in EWC 190113	EWC 190114	Non-hazardous Waste
Boiler dust containing dangerous substances	EWC 190115	Hazardous Waste
Boiler dust other than those in EWC 190115	EWC 190116	Non-hazardous Waste
Pyrolysis waste containing dangerous substances	EWC 190117	Hazardous Waste
Pyrolysis wastes other than those in EWC 190117	EWC 190118	Non-hazardous Waste
Sands from fluidised beds	EWC 190119	Non-hazardous Waste
Premixed wastes composed only of non-hazardous wastes	EWC 190203	Non-hazardous Waste
Premixed waste composed of at least one waste marked hazardous	EWC 190204	Hazardous Waste
Sludges from physico/chemical treatment containing dangerous substances	EWC 190205	Hazardous Waste
Sludges from physico/chemical treatment other than those in EWC 190205	EWC 190206	Non-hazardous Waste
Oil and concentrates from separation	EWC 190207	Hazardous Waste
Liquid combustible wastes containing dangerous substances	EWC 190208	Hazardous Waste
Solid combustible wastes containing dangerous substances	EWC 190209	Hazardous Waste
Combustible wastes other than those in EWC 190208 and 190209	EWC 190210	Non-hazardous Waste
Waste marked as hazardous, partly stabilised	EWC 190304	Hazardous Waste
Stabilised wastes other than those in EWC 190304	EWC 190305	Non-hazardous Waste
Waste marked as hazardous, solidified	EWC 190306	Hazardous Waste
Solidified wastes other than those in EWC 190306	EWC 190307	Non-hazardous Waste
Vitrified waste	EWC 190401	Non-hazardous Waste
Fly ash and other flue gas treatment waste from vitrification	EWC 190402	Hazardous Waste
Non-vitrified solid phase	EWC 190403	Hazardous Waste
Aqueous liquid wastes from vitrified waste tempering	EWC 190404	Non-hazardous Waste

Permit and introductory note: the PPC Regulations
Schedule 6 - List of Permitted Wastes

Liquor from anaerobic treatment of municipal waste	EWC 190603	Non-hazardous Waste
Digestate from anaerobic treatment of municipal waste	EWC 190604	Non-hazardous Waste
Liquor from anaerobic treatment of animal and vegetable waste	EWC 190605	Non-hazardous Waste
Digestate from anaerobic treatment of animal and vegetable waste	EWC 190606	Non-hazardous Waste
Landfill leachate containing dangerous substances	EWC 190702	Hazardous Waste
Landfill leachate other than those in EWC 190702	EWC 190703	Non-hazardous Waste
Screenings	EWC 190801	Non-hazardous Waste
Waste from desanding	EWC 190802	Non-hazardous Waste
Sludges from treatment of urban waste water	EWC 190805	Non-hazardous Waste
Saturated or spent ion exchange resins	EWC 190806	Hazardous Waste
Solutions and sludges from regeneration of ion exchangers	EWC 190807	Hazardous Waste
Membrane system waste containing heavy metals	EWC 190808	Hazardous Waste
Grease and oil mixture from oil/water separation containing only edible fats	EWC 190809	Non-hazardous Waste
Grease and oil mixture from oil/waste water separation other than those in EWC 190809	EWC 190810	Hazardous Waste
Sludges containing dangerous substances from biological treatment of industrial waste water	EWC 190811	Hazardous Waste
Sludges from biological treatment of industrial waste water other than those mentioned in EWC 190811	EWC 190812	Non-hazardous Waste
Sludges containing dangerous substances from other treatment of industrial waste water	EWC 190813	Hazardous Waste
Sludges from other treatment of industrial waste water other than those in EWC 190813	EWC 190814	Non-hazardous Waste
Solid waste from primary filtration and screenings	EWC 190901	Non-hazardous Waste
Sludges from water clarification	EWC 190902	Non-hazardous Waste
Sludges from decarbonation	EWC 190903	Non-hazardous Waste
Spent activated carbon	EWC 190904	Non-hazardous Waste
Saturated or spent ion exchange resins	EWC 190905	Non-hazardous Waste
Solutions and sludges from regeneration of ion exchangers	EWC 190906	Non-hazardous Waste
Iron and steel waste	EWC 191001	Non-hazardous Waste
Non-ferrous waste	EWC 191002	Non-hazardous Waste
Fluff – light fraction and dust containing dangerous substances	EWC 191003	Hazardous Waste
Fluff light fraction and dust other than those in EWC 191003	EWC 191004	Non-hazardous Waste
Other fractions containing dangerous substances	EWC 191005	Hazardous Waste
Other fractions other than those in EWC 191005	EWC 191006	Non-hazardous Waste
Spent Filter Clays	EWC 191101	Hazardous Waste
Acid Tars	EWC 191102	Hazardous Waste
Aqueous liquid waste from oil regeneration	EWC 191103	Hazardous Waste
Wastes from cleaning of fuel with bases	EWC 191104	Hazardous Waste
Sludges from on-site effluent treatment containing dangerous substances	EWC 191105	Hazardous Waste
Sludges from on-site effluent treatment other than those mentioned in EWC 191105	EWC 191106	Non-hazardous Waste
Wastes from flue gas cleaning	EWC 191107	Hazardous Waste

Paper and cardboard	EWC 191201	Non-hazardous Waste
Ferrous metal	EWC 191202	Non-hazardous Waste
Non-ferrous metal	EWC 191203	Non-hazardous Waste
Plastic and rubber	EWC 191204	Non-hazardous Waste
Glass	EWC 191205	Non-hazardous Waste
Wood containing dangerous substances	EWC 191206	Hazardous Waste
Wood other than EWC 191206	EWC 191207	Non-hazardous Waste
Textiles	EWC 191208	Non-hazardous Waste
Minerals	EWC 191209	Non-hazardous Waste
Combustible waste	EWC 191210	Non-hazardous Waste
Other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances	EWC 191211	Hazardous Waste
Other wastes from mechanical treatment of wastes other than those in EWC 191211	EWC 191212	Non-hazardous Waste
Solid wastes from soil remediation containing dangerous substances	EWC 191301	Hazardous Waste
Solid wastes from soil remediation other than those in EWC 191301	EWC 191302	Non-hazardous Waste
Sludges from soil remediation containing dangerous substances	EWC 191303	Hazardous Waste
Sludges from soil remediation other than those in EWC 191303	EWC 191304	Non-hazardous Waste
Sludges from groundwater remediation containing dangerous substances	EWC 191305	Hazardous Waste
Sludges from groundwater remediation other than those in EWC 191305	EWC 191306	Non-hazardous Waste
Aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances	EWC 191307	Hazardous Waste
Aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those in EWC 191307	EWC 191308	Non-hazardous Waste
Paper and cardboard	EWC 200101	Non-hazardous Waste
Glass	EWC 200102	Non-hazardous Waste
Biodegradable kitchen and canteen waste	EWC 200108	Non-hazardous Waste
Clothes	EWC 200110	Non-hazardous Waste
Textiles	EWC 200111	Non-hazardous Waste
Solvents	EWC 200113	Hazardous Waste
Acids	EWC 200114	Hazardous Waste
Alkalines	EWC 200115	Hazardous Waste
Photochemicals	EWC 200117	Hazardous Waste
Pesticides	EWC 200119	Hazardous Waste
Fluorescent tubes and other mercury containing waste	EWC 200121	Hazardous Waste
Discarded equipment containing chlorofluorocarbons	EWC 200123	Hazardous Waste
Edible oil and fat	EWC 200125	Non-hazardous Waste
Oil and fat other than those mentioned in EWC 200125	EWC 200126	Hazardous Waste
Paint, inks, adhesives and resins containing dangerous substances	EWC 200127	Hazardous Waste
Paint, inks, adhesives and resins other than those in EWC 200127	EWC 200128	Non-hazardous Waste
Detergents containing dangerous substances	EWC 200129	Hazardous Waste
Detergents other than those in EWC 200129	EWC 200130	Non-hazardous Waste

Cytotoxic and cytostatic medicines	EWC 200131	Hazardous Waste
Medicines other than those in EWC 200131	EWC 200132	Non-hazardous Waste
Batteries and accumulators included in EWC 160601, 160602 or 160603 and unsorted batteries and accumulators containing these batteries	EWC 200133	Hazardous Waste
Batteries and accumulators other than those in EWC 200133	EWC 200134	Non-hazardous Waste
Discarded electrical and electronic equipment other than those mentioned in EWC 200121 and 200123 containing hazardous components	EWC 200135	Hazardous Waste
Discarded electrical and electronic equipment other than those in EWC 200121, 200123 and 200135	EWC 200136	Non-hazardous Waste
Wood containing dangerous substances	EWC 200137	Hazardous Waste
Wood other than in EWC 200137	EWC 200138	Non-hazardous Waste
Plastics	EWC 200139	Non-hazardous Waste
Metals	EWC 200140	Non-hazardous Waste
Biodegradable waste	EWC 200201	Non-hazardous Waste
Soil and stones	EWC 200202	Non-hazardous Waste
Other non-biodegradable wastes	EWC 200203	Non-hazardous Waste
Mixed municipal waste	EWC 200301	Non-hazardous Waste
Wastes from markets	EWC 200302	Non-hazardous Waste
Street cleaning residues	EWC 200303	Non-hazardous Waste
Septic tank sludge	EWC 200304	Non-hazardous Waste
Waste from sewage cleaning	EWC 200306	Non-hazardous Waste
Bulky waste	EWC 200307	Non-hazardous Waste

END OF PERMIT

