

Notice of variation with introductory note

Environmental Permitting (England & Wales) Regulations 2010

Envirosol Limited

Envirosol Environmental Management
Facility Brownhills
Coppice Industrial Estate
Collier Close
Brownhills
West Midlands
WS8 7EU

Variation application number

EPR/MP3530GC/V006

Permit number

EPR/MP3530GC

Envirosol Environmental Management Facility Brownhills

Permit number EPR/MP3530GC

Introductory note

This introductory note does not form a part of the notice

The following notice gives notice of the variation of an environmental permit.

This variation application has been made to allow the further activities of treatment of non-hazardous and hazardous liquid wastes for recovery and disposal.

The site will continue to undertake the original activities of transfer, storage and bulking up of both hazardous and non hazardous wastes.

The schedules specify the changes made to the original permit.

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

Status log of the permit		
Description	Date	Comments
Application EPR/ MP3530GC/A001	Duly made 06/04/2008	
Additional Information Received	02/10/2008	
Permit determined	04/12/2008	
EPR/ MP3530GC/V002	Cancelled by the Agency	
EPR/ MP3530GC/V003	Cancelled by the Agency	
EPR/ MP3530GC/V004	Cancelled by the Agency	
Application EPR/MP3530GC/V005 (variation)	Duly made 13/06/2011	Application to vary and extend the installation boundary.
Variation determined EPR/MP3530GC	18/08/2011	Varied permit issued.
Application EPR/MP3530GC/V006 (variation)	30/09/2011	Application to vary in the Waste Treatment Plant.
Additional Information Received	17/02/2012	
Variation determined EPR/MP3530GC	19/03/2012	Varied permit issued.

End of introductory note

Notice of variation

Environmental Permitting (England and Wales) Regulations 2010

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2010 varies

Permit number
EPR/MP3530GC

issued to:
Envirosol Limited (“the operator”)

whose registered office is

**Unit 28,
Thornleigh Trading Estate
Blowers Green Road
Dudley
DY2 8UB**

company registration number **02426382**

to operate regulated facilities at

**Envirosol Environment Management Facility Brownhills
Collier Close
Coppice Side Industrial Estate
Brownhills
WS8 7EU**

to the extent set out in the schedules.

The notice shall take effect from 19/03/2012

Name	Date
PAUL BUTLER	19/03/2012

Authorised on behalf of the Environment Agency

Schedule 1 – conditions to be deleted

The following conditions and schedules are deleted as a result of the application made by the operator

All

Schedule 2 – conditions to be amended

None

Schedule 3 – conditions to be added

The following conditions and schedules as a result of the application made by the operator

1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3, 3.4, 3.5, 4.1, 4.2, 4.3, 4.4, and Schedule's 1 to 7 and forms dated 04/12/2012 and 19/03/2012

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

- (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
- (b) using sufficient competent persons and resources.

1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.

1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.

1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

1.2.1 For the following activities referenced in schedule 1, table S1.1 A1 to A3 and A5 to A9. The operator shall:

- (a) take appropriate measures to ensure that energy is used efficiently in the activities;
- (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
- (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 For the following activities referenced in schedule 1, table S1.1 A1 to A3 and A5 to A9. The operator shall:

- (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
- (b) maintain records of raw materials and water used in the activities;
- (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
- (d) take any further appropriate measures identified by a review.

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

1.4.1 The operator shall take appropriate measures to ensure that:

- (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
- (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
- (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

2 Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the “activities”).
- 2.1.2 For the following activities referenced in schedule 1, table S1.1 A1 to A21. Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

- 2.2.1 The activities shall not extend beyond the site, being the land shown edged in green on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 (a) For the following activities referenced in schedule 1, table S1.1 A1 to A21. The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- (b) If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan specified in schedule 1, table S1.2 or otherwise required under this permit, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 Any raw materials or fuels listed in schedule 2 table S2.1 shall conform to the specifications set out in that table.

- 2.3.3 Waste shall only be accepted if:
- (a) it is of a type and quantity listed in schedule 2 table(s) S2.2, S2.3, S2.4, S2.5, S2.6, S2.7, S2.8, S2.9, S2.10, S2.11; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
- 2.3.4 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
- (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

2.4 Technical requirements

Vehicle depollution and dismantling

- 2.4.1 The storage (including temporary storage) and treatment of waste motor vehicles shall meet the requirements of article 6(1) of the End-of-Life Vehicles Directive.

WEEE treatment

- 2.4.2 The storage (including temporary storage) and treatment of WEEE shall be carried out in accordance with the technical requirements of Annex III of the WEEE Directive.
- 2.4.3 WEEE shall be treated using best available treatment, recovery and recycling techniques (BATRRT).
- 2.4.4 As a minimum, the substances, preparations and components specified in table 2.4 shall be removed from any separately collected WEEE.

Table 2.4 Substances, preparations and components to be removed from separately collected WEEE

- Capacitors containing Polychlorinated biphenyls (PCB)
 - Mercury-containing components, such as switches or backlighting lamps
 - Batteries
 - Printed circuit boards of mobile phones generally, and of other devices if the surface of the printed circuit board is greater than 10 square centimetres
 - Toner cartridges, liquid and pasty, as well as colour toner
 - Plastic containing brominated flame retardants
 - Asbestos waste and components which contain asbestos
 - Cathode ray tubes
 - Chlorofluorocarbons (CFC), hydrochlorofluorocarbons (HCFC), hydrofluorocarbons (HFC), or hydrocarbons (HC)
 - Gas discharge lamps
 - Liquid crystal displays (together with their casing where appropriate) of a surface greater than 100 square centimetres and all those back-lighted with gas discharge lamps
 - External electric cables
 - Components containing refractory ceramic fibres
 - Components containing radioactive substances with the exception of components that are below the exemption thresholds set in Article 3 of and the Annex I to Council Directive 96/29/Euratom of 13 May 1996 laying down basic safety standards for the protection of the health of workers and the general public against the dangers arising from ionising radiation
 - Electrolytic capacitors containing “substances of concern” (height > 25mm, diameter > 25 mm or proportionately similar volume)
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2.4.5 All fluids contained within any WEEE shall be removed prior to further treatment.

2.4.6 Separately collected components of WEEE specified in table 2.5 shall be treated in accordance with the methods specified in that table.

Table 2.5 Specified Treatment Methods for separately collected components of WEEE

Component	Specified Treatment
Cathode ray tubes	The fluorescent coating shall be removed.
Gas discharge lamps	The mercury shall be removed.

- 2.4.7 Equipment shall be provided to record the weight of untreated WEEE accepted at, and components and materials leaving the site.

Waste battery and accumulator treatment

- 2.4.8 Treatment of waste batteries and accumulators must meet the minimum requirements set out in Annex III, Part A of Directive 2006/66/EC of the European Parliament and of the Council on batteries and accumulators and waste batteries and accumulators and repealing Directive 91/157/EEC.

Hazardous waste storage and treatment

- 2.4.9 Hazardous waste shall not be mixed, either with a different category of hazardous waste or with other waste, substances or materials, unless it is authorised by schedule 1 table S1.1 and appropriate measures are taken.

2.5 Pre-operational conditions

- 2.5.1 The operations specified in schedule 1 table S1.3 shall not commence until the measures specified in that table have been completed.

3 Emissions and monitoring

3.1 Emissions to water, air or land

3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 tables S3.1.

3.1.2 The limits given in schedule 3 shall not be exceeded.

3.2 Emissions of substances not controlled by emission limits

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

3.2.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan;

(b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.3 Monitoring

3.3.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:

(a) point source emissions specified in tables S3.1.

- 3.3.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.3.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.3.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.3.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1, unless otherwise agreed in writing by the Environment Agency.

3.4 Odour

- 3.4.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.
- 3.4.2 The operator shall:
- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to odour, submit to the Environment Agency for approval within the period specified, an odour management plan;
 - (b) implement the approved odour management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Noise and vibration

3.5.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.

3.5.2 The operator shall:

- (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan;
- (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

4 Information

4.1 Records

4.1.1 All records required to be made by this permit shall:

- (a) be legible;
- (b) be made as soon as reasonably practicable;
- (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
- (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.

4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.

4.2.2 For the following activities referenced in schedule 1, table S1.1 A1 to A4. A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

- (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;
- (b) the annual production /treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.

- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
- (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.

4.3 Notifications

- 4.3.1 The Environment Agency shall be notified without delay following the detection of:
- (a) any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution;
 - (b) the breach of a limit specified in the permit; or
 - (c) any significant adverse environmental effects.
- 4.3.2 Any information provided under condition 4.3.1 shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.
- 4.3.3 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.

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

Where the operator is a registered company:

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

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

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

4.3.5 In any other case:

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

4.3.6 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:

- (a) the Environment Agency shall be notified at least 14 days before making the change; and
- (b) the notification shall contain a description of the proposed change in operation.

4.3.7 The Environment Agency shall be given at least 14 days notice before implementation of any part of the site closure plan.

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

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

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made “without delay”, in which case it may be provided by telephone.

Schedule 1

Table S1.1 activities			
Activity ref.	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex IIA and IIB operations	Limits of specified activity and waste types
A1	S5.3 Part 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.	D13 – Blending and mixing of hazardous waste; D14 - Repackaging and bulking of Hazardous waste; and D15 – Storage of hazardous waste	Waste types as specified in Schedule 2 Table S2.2 and S2.3. Maximum throughput for the facility is 49,900 tonnes per year in total including any wastes received under Section 5.3 Part A(1)(b) Receipt and storage of permitted waste. Bulking of compatible wastes for off site disposal. Maximum storage time of 6 months from the date of receipt for any waste.
A2	S5.3 Part A (1) (b) The disposal of waste oils (other than by incineration or landfill) in a facility with a capacity of more than 10 tonnes per day.	D13 Bulking of wastes oil D15 Storage of waste oils pending disposal off site	Waste types as specified in Schedule 2 Table S2.2 and S2.3. Maximum throughput for the facility is 49,900 tonnes per year in total including any wastes received under Section 5.3 Part A(1)(a) Maximum storage time of 6 months from the date of receipt for any waste.
A3	S5.3 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.	D9 – crushing and shredding of drums and containers; and D15 – Storage of hazardous waste prior to treatment or transfer.	Maximum throughput for the facility is 49,900 tonnes per year in total including any wastes received under Section 5.3 Part A(1)(b) and containers which have previously contained waste types as specified in Schedule 2 Table S2.2. Crushing or shredding of metal or plastic containers in compatible batches that are either empty, having been received as empty or emptied on site, or that contain compatible solid/un-pumpable materials of hazardous waste types as listed in Schedule 2 Table S2.2. Also shredding of full small containers containing

Table S1.1 activities			
Activity ref.	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex IIA and IIB operations	Limits of specified activity and waste types
			compatible hazardous waste types as listed in schedule 2 Table S2.2 for the purposes of security destruction.
A5	S5.3 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.	D9 ph Adjustment D15 Storage of hazardous waste prior to treatment.	Waste types as specified in Schedule 2 Table S2.10.
A6	S5.3 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.	D9 Cyanide/Sulphide/Alkaline oxidation D15 Storage of hazardous waste prior to treatment.	Waste types as specified in Schedule 2 Table S2.6.
A7	S5.3 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.	D9 Hexavalent Chrome/ Acidic Redox D15 – Storage of hazardous waste prior to treatment.	Waste types as specified in Schedule 2 Table S2.8.
A8	S5.3 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.	D9 Filter press D15 – Storage of hazardous waste prior to treatment.	Treated wastes only for Waste Treatment Plant
A9	S5.3 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.	D9 Hydrolysis D15 – Storage of hazardous waste prior to treatment.	Waste types as specified in Schedule 2 Table S2.8.
	Directly Associated Activity		
A20	Lime Slurry Production	Lime Slurry Production	Addition of product lime to water as a precursor to the ph Adjustment activity
A21	Acid Pre-Treatment	Pre treatment of Acidic Waste to the require strength to allow it to be used in the above reactions	Addition of towns water to acidic waste materials as a precursor to the above reactions

Table S1.1 activities continued

	Description of activities for waste operations	Limits of activities	
A4	<p>D15: Storage of non hazardous waste pending disposal off site</p> <p>R13: Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)</p> <p>D9: – crushing or shredding of metal or plastic containers.</p> <p>R3: Recycling/reclamation of organic substances which are not used as solvents</p> <p>R4: Recycling/reclamation of metals and metal compounds</p> <p>R5: Recycling/reclamation of other inorganic materials</p>	<p>Waste types as specified in Schedule 2 Table S2.2 to S2.5</p> <p>Maximum throughput for the facility is 49,900 tonnes per year in total including any wastes received under Section 5.3 Part A(1) (a) and (b) above</p> <p>The Capacity of the site for hazardous waste subject to an R5 activity shall not exceed 10 tonnes per day. Also of containers that contain compatible solid/unpumpable materials of non-hazardous waste types as listed in Schedule 2 Table S2.2 and full small containers containing compatible non-hazardous waste types as listed in schedule 3 Table S2.2 for the purposes of security destruction.</p> <p>Wastes shall be stored for no longer than 1 year prior to disposal or 3 years prior to recovery.</p> <p>Crushing or shredding of containers arising from the bulking of compatible wastes for off site disposal.</p> <p>Treatment consisting of manual sorting or manual separation of non-hazardous waste into different components for disposal, (no more than 50 tonnes per day) or recovery.</p> <p>There shall be no treatment of asbestos waste.</p> <p>Washing of shredded plastic and metal containers to allow for the material being more readily recycled</p> <p>Granulation of shredded and washed plastic to more readily facilitate recycling.</p> <p>Washing of contaminated rags to allow for the rags and immiscible liquid contaminants to be recycled.</p>	
A10	<p>D9: – Treatment of Non-Hazardous Waste - ph Adjustment</p> <p>D15:- Storage of non-hazardous waste prior to treatment.</p>	<p>Non-hazardous Wastes only</p> <p>Maximum amount of waste treated 49 tonnes per day</p>	<p>Waste types as specified in Schedule 2 Table S2.11.</p>
A11	<p>D9:- Treatment of Non-Hazardous Waste - Sulphide/Alkaline oxidation</p> <p>D15:- Storage of non-hazardous waste prior to treatment</p>		<p>Waste types as specified in Schedule 2 Table S2.7.</p>
A12	<p>D9:- Treatment of Non-Hazardous Waste - Acidic Redox</p> <p>D15:- Storage of non-hazardous waste prior to treatment.</p>		<p>Waste types as specified in Schedule 2 Table S2.9.</p>
A13	<p>D9 :- Treatment of Non-Hazardous Waste Hydrolysis</p> <p>D15: – Storage of hazardous waste prior to treatment.</p>		<p>Waste types as specified in Schedule 2 Table S2.9.</p>

Table S1.1 activities continued		
	Description of activities for waste operations	Limits of activities
A14	D9:- Treatment of Non-Hazardous Waste - Filter press D15:- Storage of hazardous waste prior to treatment.	Treated wastes only for Waste Treatment Plant
A15	R3:- Recycling/reclamation of organic substances which are not used as solvents - ph Adjustment R5:- Recycling/reclamation of other inorganic materials - ph Adjustment R13:- Storage of non-hazardous wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Hazardous Waste types as specified in Schedule 2 Table S2.10. Non-hazardous Waste types as specified in Schedule 2 Table S2.11.
A16	R5:- Recycling/reclamation of other inorganic materials - Sulphide/Alkaline oxidation R13:- Storage of non-hazardous wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Hazardous Waste types as specified in Schedule 2 Table S2.6. Non-hazardous Waste types as specified in Schedule 2 Table S2.7.
A17	R5:- Recycling/reclamation of other inorganic materials - Acidic Redox R13:- Storage of non-hazardous wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Hazardous Waste types as specified in Schedule 2 Table S2.8 Non-Hazardous Waste types as specified in Schedule 2 Table S2.9.
A18	R3:- Recycling/reclamation of organic substances which are not used as solvents - Filter press R5:- Recycling/reclamation of other inorganic materials - Filter press R13:- Storage of wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Treated wastes only for Waste Treatment Plant
A19	R3:- Recycling/reclamation of organic substances which are not used as solvents - Hydrolysis R5:- Recycling/reclamation of other inorganic materials - Hydrolysis R13:- Storage of non-hazardous wastes pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Hazardous Waste types as specified in Schedule 2 Table S2.8. Non-hazardous Waste types as specified in Schedule 2 Table S2.9.

Table S1.2 Operating techniques

Description	Parts	Date Received
Application	The response to section 2.1, excluding 2.1.3 and 2.1.5, and 2.2 in the Application.	18/02/2008
Response to Schedule 5 Notice dated 29/08/2008	Response to question 2.1	02/10/2008
Application to Vary	The responses to sections 1 of Part C2	13/06/2011
Application to Vary	The responses to sections 1 of Part C2, C3 and C4	30/09/2012
Response to Schedule 5 Notice dated 17/01/2012	Response to all questions	17/02/2012

Table S1.3 Pre-operational measures for future development

Ref	Operation	Pre-operational measures
1	Bulking of solvent wastes, the crushing and shredding of containers that contained solvent wastes in the new area.	<p>These operations shall not be brought into operation until the operator has submitted the following information to the Agency and the Agency has confirmed in writing its acceptance of the submitted information:</p> <ul style="list-style-type: none">(a) The detailed design and specification of the air extraction and abatement system serving the four processes identified in the application (reference "Application enclosure 6") which relates to the crushing and shredding operations, the manual bulking of materials that contain solvents and the bulking of materials onto tankers that contain solvents. This system shall be of sufficient capacity to ensure that all air from these areas is drawn through the system and there are no fugitive escapes from the controlled waste transfer area.(b) A detailed monitoring scheme for the performance of the extraction abatement system and for emissions from the extraction abatement system. The monitoring scheme shall detail the chemical determinands, monitoring methodology, and the monitoring locations for emissions from the extraction system in line with Agency monitoring guidance.(c) A plan showing the location of the emission point for the air extraction and abatement system (A1).
2	Waste Treatment Plant - Prior to the commissioning of the Waste Treatment plant	<p>Prior to the commencement of commissioning; the Operator shall provide a written commissioning plan, including timelines for completion, for approval by the Agency. The commissioning plan shall include the expected emissions to the environment during the different stages of commissioning, the expected durations of commissioning activities and the actions to be taken to protect the environment and report to the Agency in the event that actual emissions exceed expected emissions. Commissioning shall be carried out in accordance with the commissioning plan as approved.</p>
3	Waste Treatment Plant - After commissioning of the plant but before the operation of the Waste Treatment Plant	<p>The Operator shall submit a written report to the Agency on the commissioning of the installation. The report shall summarise the environmental performance of the plant as installed against the design parameters set out in the Application. Also, if there is any issues with the design that these are adequately explained and proposals and timelines to deal with those issues. The report shall also include a review of the performance of the facility against the conditions of this permit and details of procedures developed during commissioning for achieving and demonstrating compliance with permit conditions.</p>

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw materials and fuel description	Specification
Lime	Hg free
Hydrogen Peroxide	Concentration 20%

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal
01 WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 03 wastes from physical and chemical processing of metalliferous minerals
01 03 04* acid-generating tailings from processing of sulphide ore
01 03 05* other tailings containing dangerous substances
01 03 07* other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals
01 04 wastes from physical and chemical processing of non-metalliferous minerals
01 04 07* wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals
01 05 drilling muds and other drilling wastes
01 05 06* drilling muds and other drilling wastes containing dangerous substances
02 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 08* agrochemical waste containing dangerous substances
03 WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01 wastes from wood processing and the production of panels and furniture
03 02 wastes from wood preservation
03 02 01* non-halogenated organic wood preservatives
03 02 02* organochlorinated wood preservatives
03 02 03* organometallic wood preservatives
03 02 04* inorganic wood preservatives
03 02 05* other wood preservatives containing dangerous substances
04 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 02 wastes from the textile industry
04 02 16* dyestuffs and pigments containing dangerous substances
04 02 19* sludges from on-site effluent treatment containing dangerous substances

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal

05 WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 01 wastes from petroleum refining
05 01 02* desalter sludges
05 01 03* tank bottom sludges
05 01 04* acid alkyl sludges
05 01 07* acid tars
05 01 08* other tars
05 01 09* sludges from on-site effluent treatment containing dangerous substances
05 01 11* wastes from cleaning of fuels with bases
05 01 12* oil containing acids
05 01 15* spent filter clays
05 06 wastes from the pyrolytic treatment of coal
05 06 01* acid tars
05 06 03* other tars
05 07 wastes from natural gas purification and transportation
05 07 01* wastes containing mercury
06 WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01 wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 01* sulphuric acid and sulphurous acid
06 01 02* hydrochloric acid
06 01 03* hydrofluoric acid
06 01 04* phosphoric and phosphorous acid
06 01 05* nitric acid and nitrous acid
06 01 06* other acids
06 02 wastes from the MFSU of bases
06 02 01* calcium hydroxide
06 02 03* ammonium hydroxide
06 02 04* sodium and potassium hydroxide
06 02 05* other bases
06 03 wastes from the MFSU of salts and their solutions and metallic oxides
06 03 11* solid salts and solutions containing cyanides
06 03 13* solid salts and solutions containing heavy metals
06 03 15* metalloxides containing heavy metals
06 04 metal-containing wastes other than those mentioned in 06 03
06 04 03* wastes containing arsenic
06 04 04* wastes containing mercury

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal

06 04 05* wastes containing other heavy metals
06 05 sludges from on-site effluent treatment
06 05 02* sludges from on-site effluent treatment containing dangerous substances
06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 02* wastes containing dangerous sulphides
06 07 wastes from the MFSU of halogens and halogen chemical processes
06 07 01* wastes containing asbestos from electrolysis
06 07 02* activated carbon from chlorine production
06 07 03* barium sulphate sludge containing mercury
06 07 04* solutions and acids, for example contact acid
06 08 wastes from the MFSU of silicon and silicon derivatives
06 08 02* waste containing dangerous silicones
06 09 wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes
06 09 03* calcium-based reaction wastes containing or contaminated with dangerous substances
06 10 wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture
06 10 02* wastes containing dangerous substances
06 13 wastes from inorganic chemical processes not otherwise specified
06 13 01* inorganic plant protection products, wood-preserving agents and other biocides.
06 13 04* wastes from asbestos processing
06 13 05* soot
07 WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 01* aqueous washing liquids and mother liquors
07 01 03* organichalogenated solvents, washing liquids and mother liquors
07 01 04* other organicsolvents, washing liquids and mother liquors
07 01 07* halogenated still bottoms and reaction residues
07 01 08* other still bottoms and reaction residues
07 01 09* halogenated filter cakes and spent absorbents
07 01 10* other filter cakes and spent absorbents
07 01 11* sludges from on-site effluent treatment containing dangerous substances
07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 01* aqueous washing liquids and mother liquors
07 02 07* halogenated still bottoms and reaction residues
07 02 08* other still bottoms and reaction residues
07 02 09* halogenated filter cakes and spent absorbents
07 02 10* other filter cakes and spent absorbents
07 02 11* sludges from on-site effluent treatment containing dangerous substances

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal

07 02 14* wastes from additives containing dangerous substances
07 02 16* waste containing dangerous silicones
07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 01* aqueous washing liquids and mother liquors
07 03 07* halogenated still bottoms and reaction residues
07 03 08* other still bottoms and reaction residues
07 03 09* halogenated filter cakes and spent absorbents
07 03 10* other filter cakes and spent absorbents
07 03 11* sludges from on-site effluent treatment containing dangerous substances
07 04 wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 01* aqueous washing liquids and mother liquors
07 04 07* halogenated still bottoms and reaction residues
07 04 08* other still bottoms and reaction residues
07 04 09* halogenated filter cakes and spent absorbents
07 04 10* other filter cakes and spent absorbents
07 04 11* sludges from on-site effluent treatment containing dangerous substances
07 04 13* solid wastes containing dangerous substances
07 05 wastes from the MFSU of pharmaceuticals
07 05 01* aqueous washing liquids and mother liquors
07 05 07* halogenated still bottoms and reaction residues
07 05 08* other still bottoms and reaction residues
07 05 09* halogenated filter cakes and spent absorbents
07 05 10* other filter cakes and spent absorbents
07 05 11* sludges from on-site effluent treatment containing dangerous substances
07 05 13* solid wastes containing dangerous substances
07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 01* aqueous washing liquids and mother liquors
07 06 07* halogenated still bottoms and reaction residues
07 06 08* other still bottoms and reaction residues
07 06 09* halogenated filter cakes and spent absorbents
07 06 10* other filter cakes and spent absorbents
07 06 11* sludges from on-site effluent treatment containing dangerous substances
07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 01* aqueous washing liquids and mother liquors
07 07 07* halogenated still bottoms and reaction residues
07 07 08* other still bottoms and reaction residues
07 07 09* halogenated filter cakes and spent absorbents

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal

07 07 10* other filter cakes and spent absorbents
07 07 11* sludges from on-site effluent treatment containing dangerous substances
08 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 wastes from MFSU and removal of paint and varnish
08 01 15* aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances
08 01 17* wastes from paint or varnish removal containing organic solvents or other dangerous substances
08 01 19* aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances
08 01 21* waste paint or varnish remover
08 03 wastes from MFSU of printing inks
08 03 16* waste etching solutions
08 05 wastes not otherwise specified in 08
08 05 01* waste isocyanates
09 WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01 wastes from the photographic industry
09 01 01* water-based developer and activator solutions
09 01 02* water-based offset plate developer solutions
09 01 04* fixer solutions
09 01 05* bleach solutions and bleach fixer solutions
09 01 13* aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06
10 WASTES FROM THERMAL PROCESSES
10 01 wastes from power stations and other combustion plants (except 19)
10 01 04* oil fly ash and boiler dust
10 01 09* sulphuric acid
10 01 13* fly ash from emulsified hydrocarbons used as fuel
10 01 14* bottom ash, slag and boiler dust from co-incineration containing dangerous substances
10 01 16* fly ash from co-incineration containing dangerous substances
10 01 18* wastes from gas cleaning containing dangerous substances
10 01 20* sludges from on-site effluent treatment containing dangerous substances
10 01 22* aqueous sludges from boiler cleansing containing dangerous substances
10 02 wastes from the iron and steel industry
10 02 07* solid wastes from gas treatment containing dangerous substances
10 02 11* wastes from cooling-water treatment containing oil
10 02 13* sludges and filter cakes from gas treatment containing dangerous substances
10 03 wastes from aluminium thermal metallurgy

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal

10 03 04* primary production slags
10 03 08* salt slags from secondary production
10 03 09* black drosses from secondary production
10 03 17* tar-containing wastes from anode manufacture
10 03 19* flue-gas dust containing dangerous substances
10 03 21* other particulates and dust (including ball-mill dust) containing dangerous substances
10 03 23* solid wastes from gas treatment containing dangerous substances
10 03 25* sludges and filter cakes from gas treatment containing dangerous substances
10 03 27* wastes from cooling-water treatment containing oil
10 03 29* wastes from treatment of salt slags and black drosses containing dangerous substances
10 04 wastes from lead thermal metallurgy
10 04 01* slags from primary and secondary production
10 04 02* dross and skimmings from primary and secondary production
10 04 03* calcium arsenate
10 04 04* flue-gas dust
10 04 05* other particulates and dust
10 04 06* solid wastes from gas treatment
10 04 07* sludges and filter cakes from gas treatment
10 04 09* wastes from cooling-water treatment containing oil
10 05 wastes from zinc thermal metallurgy
10 05 03* flue-gas dust
10 05 05* solid waste from gas treatment
10 05 06* sludges and filter cakes from gas treatment
10 05 08* wastes from cooling-water treatment containing oil
10 05 10* dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities
10 06 wastes from copper thermal metallurgy
10 06 03* flue-gas dust
10 06 06* solid wastes from gas treatment
10 06 07* sludges and filter cakes from gas treatment
10 06 09* wastes from cooling-water treatment containing oil
10 07 wastes from silver, gold and platinum thermal metallurgy
10 07 07* wastes from cooling-water treatment containing oil
10 08 wastes from other non-ferrous thermal metallurgy
10 08 08* salt slag from primary and secondary production
10 08 10* dross and skimmings that are flammable or emit, upon contact with water, flammable gases in dangerous quantities

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal

10 08 12* tar-containing wastes from anode manufacture
10 08 15* flue-gas dust containing dangerous substances
10 08 17* sludges and filter cakes from flue-gas treatment containing dangerous substances
10 08 19* wastes from cooling-water treatment containing oil
10 09 wastes from casting of ferrous pieces
10 09 05* casting cores and moulds which have not undergone pouring containing dangerous substances
10 09 07* casting cores and moulds which have undergone pouring containing dangerous substances
10 09 09* flue-gas dust containing dangerous substances
10 09 11* other particulates containing dangerous substances
10 09 13* waste binders containing dangerous substances
10 09 15* waste crack-indicating agent containing dangerous substances
10 10 wastes from casting of non-ferrous pieces
10 10 05* casting cores and moulds which have not undergone pouring, containing dangerous substances
10 10 07* casting cores and moulds which have undergone pouring, containing dangerous substances
10 10 09* flue-gas dust containing dangerous substances
10 10 11* other particulates containing dangerous substances
10 10 13* waste binders containing dangerous substances
10 10 15* waste crack-indicating agent containing dangerous substances
10 11 wastes from manufacture of glass and glass products
10 11 09* waste preparation mixture before thermal processing, containing dangerous substances
10 11 13* glass-polishing and -grinding sludge containing dangerous substances
10 11 15* solid wastes from flue-gas treatment containing dangerous substances
10 11 17* sludges and filter cakes from flue-gas treatment containing dangerous substances
10 11 19* solid wastes from on-site effluent treatment containing dangerous substances
10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 09* solid wastes from gas treatment containing dangerous substances
10 12 11* wastes from glazing containing heavy metals
10 13 wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 09* wastes from asbestos-cement manufacture containing asbestos
10 13 12* solid wastes from gas treatment containing dangerous substances
11 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDROMETALLURGY
11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
11 01 05* pickling acids
11 01 06* acids not otherwise specified
11 01 07* pickling bases

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal

11 01 08* phosphatising sludges
11 01 09* sludges and filter cakes containing dangerous substances
11 01 11* aqueous rinsing liquids containing dangerous substances
11 01 13* degreasing wastes containing dangerous substances
11 01 15* eluate and sludges from membrane systems or ion exchange systems containing dangerous substances
11 01 16* saturated or spent ion exchange resins
11 02 wastes from non-ferrous hydrometallurgical processes
11 02 02* sludges from zinhydrometallurgy (including jarosite, goethite)
11 02 05* wastes from copper hydrometallurgical processes containing dangerous
Substances
11 02 07* other wastes containing dangerous substances
11 03 sludges and solids from tempering processes
11 03 01* wastes containing cyanide
11 03 02* other wastes
11 05 wastes from hot galvanising processes
11 05 03* solid wastes from gas treatment
11 05 04* spent flux
12 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 20* spent grinding bodies and grinding materials containing dangerous substances
12 03 wastes from water and steam degreasing processes (except 11)
12 03 01* aqueous washing liquids
12 03 02* steam degreasing wastes
13 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 01 waste hydraulic oils
13 01 01* hydraulic oils, containing PCBs (1)
13 03 waste insulating and heat transmission oils
13 03 01* insulating or heat transmission oils containing PCBs
13 05 oil/water separator contents
13 05 01* solids from grit chambers and oil/water separators
13 08 oil wastes not otherwise specified
13 08 01* desalter sludges or emulsions
13 08 02* other emulsions
14 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08)
14 06 waste organic solvents, refrigerants and foam/aerosol propellants
14 06 01* chlorofluorocarbons, HCFC, HFC

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal

15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 packaging (including separately collected municipal packaging waste)
15 01 10* packaging containing residues of or contaminated by dangerous substances
15 01 11* metallic packaging containing a dangerous solid porous matrix (for example asbestos), including empty pressure containers
16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 09* components containing PCBs
16 01 11* brake pads containing asbestos
16 01 21* hazardous components other than those mentioned in 16 01 07 to 16 01 11 and 16 01 13 and 16 01 14
16 02 wastes from electrical and electronic equipment
16 02 09* transformers and capacitors containing PCBs
16 02 10* discarded equipment containing or contaminated by PCBs other than those mentioned in 16 02 09
16 02 12* discarded equipment containing free asbestos
16 02 15* hazardous components removed from discarded equipment
16 05 gases in pressure containers and discarded chemicals
16 05 04* gases in pressure containers (including halons) containing dangerous substances
16 05 06* laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
16 05 07* discarded inorganic chemicals consisting of or containing dangerous substances
16 05 08* discarded organic chemicals consisting of or containing dangerous substances
16 06 batteries and accumulators
16 06 06* separately collected electrolyte from batteries and accumulators
16 07 wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 09* wastes containing other dangerous substances
16 08 spent catalysts
16 08 02* spent catalysts containing dangerous transition metals (3) or dangerous transition metal compounds
16 08 05* spent catalysts containing phosphoric acid
16 08 06* spent liquids used as catalysts
16 08 07* spent catalysts contaminated with dangerous substances
16 09 oxidising substances
16 09 01* permanganates, for example potassium permanganate
16 09 02* chromates, for example potassium chromate, potassium or sodium dichromate
16 09 03* peroxides, for example hydrogen peroxide
16 09 04* oxidising substances, not otherwise specified

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal

16 10 aqueous liquid wastes destined for off-site treatment
16 10 01* aqueous liquid wastes containing dangerous substances
16 10 03* aqueous concentrates containing dangerous substances
16 11 waste linings and refractories
16 11 01* carbon-based linings and refractories from metallurgical processes containing dangerous substances
16 11 03* other linings and refractories from metallurgical processes containing dangerous substances
16 11 05* linings and refractories from non-metallurgical processes containing dangerous substances
17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 06 insulation materials and asbestos-containing construction materials
17 06 01* insulation materials containing asbestos
17 06 03* other insulation materials consisting of or containing dangerous substances
17 06 05* construction materials containing asbestos (7)
17 08 gypsum-based construction material
17 08 01* gypsum-based construction materials contaminated with dangerous substances
17 09 other construction and demolition wastes
17 09 01* construction and demolition wastes containing mercury
17 09 02* construction and demolition wastes containing PCB (for example PCB containing sealants, PCB-containing resin-based floorings, PCB-containing sealed glazing units, PCB-containing capacitors)
17 09 03* other construction and demolition wastes (including mixed wastes) containing dangerous substances
18 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 06* chemicals consisting of or containing dangerous substances
18 01 08* cytotoxic and cytostatic medicines
18 02 wastes from research, diagnosis, treatment or prevention of disease involving animals
18 02 05* chemicals consisting of or containing dangerous substances
18 02 07* cytotoxic and cytostatic medicines
19 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01 wastes from incineration or pyrolysis of waste
19 01 05* filter cake from gas treatment
19 01 06* aqueous liquid wastes from gas treatment and other aqueous liquid wastes
19 01 07* solid wastes from gas treatment
19 01 10* spent activated carbon from flue-gas treatment
19 01 11* bottom ash and slag containing dangerous substances
19 01 13* fly ash containing dangerous substances

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal

19 01 15* boiler dust containing dangerous substances
19 01 17* pyrolysis wastes containing dangerous substances
19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 04* premixed wastes composed of at least one hazardous waste
19 02 05* sludges from physico/chemical treatment containing dangerous substances
19 02 07* oil and concentrates from separation
19 02 08* liquid combustible wastes containing dangerous substances
19 02 09* solid combustible wastes containing dangerous substances
19 02 11* other wastes containing dangerous substances
19 03 stabilised/solidified wastes (4)
19 03 04* wastes marked as hazardous, partly (5) stabilised
19 03 06* wastes marked as hazardous, solidified
19 04 vitrified waste and wastes from vitrification
19 04 02* fly ash and other flue-gas treatment wastes
19 04 03* non-vitrified solid phase
19 07 landfill leachate
19 07 02* landfill leachate containing dangerous substances
19 08 wastes from waste water treatment plants not otherwise specified
19 08 07* solutions and sludges from regeneration of ion exchangers
19 08 08* membrane system waste containing heavy metals
19 08 11* sludges containing dangerous substances from biological treatment of industrial waste water
19 08 13* sludges containing dangerous substances from other treatment of industrial waste water
19 10 wastes from shredding of metal-containing wastes
19 10 03* fluff-light fraction and dust containing dangerous substances
19 10 05* other fractions containing dangerous substances
19 11 wastes from oil regeneration
19 11 01* spent filter clays
19 11 02* acid tars
19 11 03* aqueous liquid wastes
19 11 04* wastes from cleaning of fuel with bases
19 11 05* sludges from on-site effluent treatment containing dangerous substances
19 11 07* wastes from flue-gas cleaning
19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 06* wood containing dangerous substances
19 12 11* other wastes (including mixtures of materials) from mechanical treatment of
waste containing dangerous substances
19 13 wastes from soil and groundwater remediation

Table S2.2 – List of Hazardous Wastes that are Likely to Require Disposal
19 13 01* solid wastes from soil remediation containing dangerous substances
19 13 03* sludges from soil remediation containing dangerous substances
19 13 05* sludges from groundwater remediation containing dangerous substances
19 13 07* aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances
20 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 separately collected fractions (except 15 01)
20 01 14* acids
20 01 15* alkalines
20 01 17* photochemicals
20 01 19* pesticides
20 01 29* detergents containing dangerous substances
20 01 31* cytotoxic and cytostatic medicines
20 01 37* wood containing dangerous substances

Table S2.3 - List of Hazardous Wastes that are Recovered Under Normal Circumstances
01 WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
01 05 drilling muds and other drilling wastes
01 05 05* oil-containing drilling muds and wastes
03 WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01 04* sawdust, shavings, cuttings, wood, particle board and veneer containing dangerous substances
04 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 01 wastes from the leather and fur industry
04 01 03* degreasing wastes containing solvents without a liquid phase
04 02 wastes from the textile industry
04 02 14* wastes from finishing containing organic solvents
05 WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 01 wastes from petroleum refining
05 01 05* oil spills
05 01 06* oily sludges from maintenance operations of the plant or equipment
06 WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01 wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 13 02* spent activated carbon (except 06 07 02)

Table S2.3 - List of Hazardous Wastes that are Recovered Under Normal Circumstances

07 WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 03* organic halogenated solvents, washing liquids and mother liquors
07 01 04* other organic solvents, washing liquids and mother liquors
07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 03* organic halogenated solvents, washing liquids and mother liquors
07 02 04* other organic solvents, washing liquids and mother liquors
07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 03* organic halogenated solvents, washing liquids and mother liquors
07 03 04* other organic solvents, washing liquids and mother liquors
07 04 wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 03* organic halogenated solvents, washing liquids and mother liquors
07 04 04* other organic solvents, washing liquids and mother liquors
07 05 wastes from the MFSU of pharmaceuticals
07 05 03* organic halogenated solvents, washing liquids and mother liquors
07 05 04* other organic solvents, washing liquids and mother liquors
07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 03* organic halogenated solvents, washing liquids and mother liquors
07 06 04* other organic solvents, washing liquids and mother liquors
07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 03* organic halogenated solvents, washing liquids and mother liquors
07 07 04* other organic solvents, washing liquids and mother liquors
08 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 wastes from MFSU and removal of paint and varnish
08 01 11* waste paint and varnish containing organic solvents or other dangerous substances
08 01 13* sludges from paint or varnish containing organic solvents or other dangerous substances
08 03 wastes from MFSU of printing inks
08 03 12* waste ink containing dangerous substances
08 03 14* ink sludges containing dangerous substances
08 03 17* waste printing toner containing dangerous substances
08 03 19* disperse oil
08 04 wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
08 04 11* adhesive and sealant sludges containing organic solvents or other dangerous substances
08 04 13* aqueous sludges containing adhesives or sealants containing organic solvents or other dangerous substances
08 04 15* aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances
08 04 17* rosin oil

Table S2.3 - List of Hazardous Wastes that are Recovered Under Normal Circumstances
09 WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01 wastes from the photographic industry
09 01 03* solvent-based developer solutions
09 01 06* wastes containing silver from on-site treatment of photographic wastes
09 01 11* single-use cameras containing batteries included in 16 06 01, 16 06 02 or 16 06 03
10 WASTES FROM THERMAL PROCESSES
10 01 wastes from power stations and other combustion plants (except 19)
10 11 11* waste glass in small particles and glass powder containing heavy metals (for example from cathode ray tubes)
12 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 06* mineral-based machining oils containing halogens (except emulsions and solutions)
12 01 07* mineral-based machining oils free of halogens (except emulsions and solutions)
12 01 08* machining emulsions and solutions containing halogens
12 01 09* machining emulsions and solutions free of halogens
12 01 10* synthetic machining oils
12 01 12* spent waxes and fats
12 01 14* machining sludges containing dangerous substances
12 01 16* waste blasting material containing dangerous substances
12 01 18* metal sludge (grinding, honing and lapping sludge) containing oil
12 01 19* readily biodegradable machining oil
13 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 01 waste hydraulic oils
13 01 04* chlorinated emulsions
13 01 05* non-chlorinated emulsions
13 01 09* mineral-based chlorinated hydraulic oils
13 01 10* mineral based non-chlorinated hydraulic oils
13 01 11* synthetic hydraulic oils
13 01 12* readily biodegradable hydraulic oils
13 01 13* other hydraulic oils
13 02 waste engine, gear and lubricating oils
13 02 04* mineral-based chlorinated engine, gear and lubricating oils
13 02 05* mineral-based non-chlorinated engine, gear and lubricating oils
13 02 06* synthetic engine, gear and lubricating oils
13 02 07* readily biodegradable engine, gear and lubricating oils
13 02 08* other engine, gear and lubricating oils
13 03 waste insulating and heat transmission oils
13 03 06* mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01

Table S2.3 - List of Hazardous Wastes that are Recovered Under Normal Circumstances

13 03 07* mineral-based non-chlorinated insulating and heat transmission oils
13 03 08* synthetic insulating and heat transmission oils
13 03 09* readily biodegradable insulating and heat transmission oils
13 03 10* other insulating and heat transmission oils
13 04 bilge oils
13 04 01* bilge oils from inland navigation
13 04 02* bilge oils from jetty sewers
13 04 03* bilge oils from other navigation
13 05 oil/water separator contents
13 05 02* sludges from oil/water separators
13 05 03* interceptor sludges
13 05 06* oil from oil/water separators
13 05 07* oily water from oil/water separators
13 05 08* mixtures of wastes from grit chambers and oil/water separators
13 07 wastes of liquid fuels
13 07 01* fuel oil and diesel
13 07 02* petrol
13 07 03* other fuels (including mixtures)
14 WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (except 07 and 08)
14 06 waste organic solvents, refrigerants and foam/aerosol propellants
14 06 02* other halogenated solvents and solvent mixtures
14 06 03* other solvents and solvent mixtures
14 06 04* sludges or solid wastes containing halogenated solvents
14 06 05* sludges or solid wastes containing other solvents
15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 02 absorbents, filter materials, wiping cloths and protective clothing
15 02 02* absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances
16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 07* oil filters
16 01 08* components containing mercury
16 01 10* explosive components (for example air bags)
16 01 13* brake fluids
16 01 14* antifreeze fluids containing dangerous substances
16 02 wastes from electrical and electronic equipment
16 02 13* discarded equipment containing hazardous components (2) other than those mentioned in 16 02 09 to 16 02 12
16 03 off-specification batches and unused products

Table S2.3 - List of Hazardous Wastes that are Recovered Under Normal Circumstances

16 03 03* inorganic wastes containing dangerous substances
16 03 05* organic wastes containing dangerous substances
16 06 01* lead batteries
16 06 02* Ni-Cd batteries
16 06 03* mercury-containing batteries
16 07 08* wastes containing oil
17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 01 concrete, bricks, tiles and ceramics
17 01 06* mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances
17 02 wood, glass and plastic
17 02 04* glass, plastic and wood containing or contaminated with dangerous substances
17 03 bituminous mixtures, coal tar and tarred products
17 03 01* bituminous mixtures containing coal tar
17 03 03* coal tar and tarred products
17 04 metals (including their alloys)
17 04 09* metal waste contaminated with dangerous substances
17 04 10* cables containing oil, coal tar and other dangerous substances
17 05 soil (including excavated soil from contaminated sites), stones and dredging spoil
17 05 03* soil and stones containing dangerous substances
17 05 05* dredging spoil containing dangerous substances
17 05 07* track ballast containing dangerous substances
18 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 10* amalgam waste from dental care
19 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 08 wastes from waste water treatment plants not otherwise specified
19 08 06* saturated or spent ion exchange resins
19 08 10* grease and oil mixture from oil/water separation other than those mentioned in 19 08 09
20 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 separately collected fractions (except 15 01)
20 01 21* fluorescent tubes and other mercury-containing waste
20 01 23* discarded equipment containing chlorofluorocarbons
20 01 26* oil and fat other than those mentioned in 20 01 25
20 01 27* paint, inks, adhesives and resins containing dangerous substances
20 01 33* batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these batteries

Table S2.3 - List of Hazardous Wastes that are Recovered Under Normal Circumstances

20 01 35* discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components (6)

Table 2.4 List of Non Hazardous Wastes that are likely to require disposal**01 WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS****01 03 wastes from physical and chemical processing of metalliferous minerals**

01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05

01 03 08 dusty and powdery wastes other than those mentioned in 01 03 07

01 03 09 red mud from alumina production other than the wastes mentioned in 01 03 07

01 04 wastes from physical and chemical processing of non-metalliferous minerals

01 04 11 wastes from potash and rock salt processing other than those mentioned in 01 04 07

01 05 drilling muds and other drilling wastes

01 05 04 freshwater drilling muds and wastes

01 05 07 barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06

01 05 08 chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06

02 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING**02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing**

02 01 09 agrochemical waste other than those mentioned in 02 01 08

02 02 wastes from the preparation and processing of meat, fish and other foods of animal origin

02 02 02 animal-tissue waste

02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation

02 03 02 wastes from preserving agents

02 03 05 sludges from on-site effluent treatment

02 04 wastes from sugar processing

02 04 01 soil from cleaning and washing beet

02 04 02 off-specification calcium carbonate

02 04 03 sludges from on-site effluent treatment

02 05 wastes from the dairy products industry

02 05 02 sludges from on-site effluent treatment

02 06 wastes from the baking and confectionery industry

02 06 02 wastes from preserving agents

02 06 03 sludges from on-site effluent treatment

02 07 wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)

02 07 05 sludges from on-site effluent treatment

03 WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF

Table 2.4 List of Non Hazardous Wastes that are likely to require disposal

PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 01 wastes from wood processing and the production of panels and furniture
03 01 05 sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03 wastes from pulp, paper and cardboard production and processing
03 03 02 green liquor sludge (from recovery of cooking liquor)
03 03 05 de-inking sludges from paper recycling
03 03 09 lime mud waste
03 03 10 fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11 sludges from on-site effluent treatment other than those mentioned in 03 03 10
04 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 01 wastes from the leather and fur industry
04 01 01 fleshings and lime split wastes
04 01 02 liming waste
04 01 04 tanning liquor containing chromium
04 01 05 tanning liquor free of chromium
04 01 06 sludges, in particular from on-site effluent treatment containing chromium
04 01 07 sludges, in particular from on-site effluent treatment free of chromium
04 01 08 waste tanned leather (blue sheetings, shavings, cuttings, buffing dust) containing chromium
04 01 09 wastes from dressing and finishing
04 02 wastes from the textile industry
04 02 15 wastes from finishing other than those mentioned in 04 02 14
04 02 17 dyestuffs and pigments other than those mentioned in 04 02 16
04 02 20 sludges from on-site effluent treatment other than those mentioned in 04 02 19
05 WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 01 wastes from petroleum refining
05 01 10 sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13 boiler feedwater sludges
05 01 14 wastes from cooling columns
05 01 16 sulphur-containing wastes from petroleum desulphurisation
05 01 17 bitumen
05 06 wastes from the pyrolytic treatment of coal
05 06 04 waste from cooling columns
05 07 wastes from natural gas purification and transportation
05 07 02 wastes containing sulphur
06 WASTES FROM INORGANIC CHEMICAL PROCESSES
06 03 wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 03 16 metalloxides other than those mentioned in 06 03 15

Table 2.4 List of Non Hazardous Wastes that are likely to require disposal

06 05 sludges from on-site effluent treatment
06 05 03 sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 03 wastes containing sulphides other than those mentioned in 06 06 02
06 09 wastes from the MFSU of phosphorous chemicals and phosphorous chemical processes
06 09 02 phosphorous slag
06 09 04 calcium-based reaction wastes other than those mentioned in 06 09 03
06 11 wastes from the manufacture of inorganic pigments and opacifiers
06 11 01 calcium-based reaction wastes from titanium dioxide production
06 13 wastes from inorganic chemical processes not otherwise specified
07 WASTES FROM ORGANIC CHEMICAL PROCESSES
07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 12 sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 12 sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 02 15 wastes from additives other than those mentioned in 07 02 14
07 04 wastes from the MFSU of organic plant protection products (except 02 01 08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 12 sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05 wastes from the MFSU of pharmaceuticals
07 05 12 sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 05 14 solid wastes other than those mentioned in 07 05 13
07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 12 sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12 sludges from on-site effluent treatment other than those mentioned in 07 07 11
08 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 wastes from MFSU and removal of paint and varnish
08 01 12 waste paint and varnish other than those mentioned in 08 01 11
08 01 14 sludges from paint or varnish other than those mentioned in 08 01 13
08 01 16 aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 01 18 wastes from paint or varnish removal other than those mentioned in 08 01 17
08 01 20 aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
08 02 wastes from MFSU of other coatings (including ceramic materials)
08 02 01 waste coating powders
08 02 02 aqueous sludges containing ceramic materials
08 02 03 aqueous suspensions containing ceramic materials

Table 2.4 List of Non Hazardous Wastes that are likely to require disposal

08 03 wastes from MFSU of printing inks
08 03 07 aqueous sludges containing ink
08 03 08 aqueous liquid waste containing ink
08 03 13 waste ink other than those mentioned in 08 03 12
08 03 15 ink sludges other than those mentioned in 08 03 14
08 03 18 waste printing toner other than those mentioned in 08 03 17
08 04 wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09
08 04 12 adhesive and sealant sludges other than those mentioned in 08 04 11
08 04 14 aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
08 04 16 aqueous liquid waste containing adhesives or sealants other than those mentioned in 08 04 15
09 WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01 wastes from the photographic industry
10 WASTES FROM THERMAL PROCESSES
10 01 wastes from power stations and other combustion plants (except 19)
10 01 01 bottom ash, slag and boiler dust (excluding boiler dust mentioned in 10 01 04)
10 01 02 coal fly ash
10 01 03 fly ash from peat and untreated wood
10 01 05 calcium-based reaction wastes from flue-gas desulphurisation in solid form
10 01 07 calcium-based reaction wastes from flue-gas desulphurisation in sludge form
10 01 15 bottom ash, slag and boiler dust from co-incineration other than those mentioned in 10 01 14
10 01 17 fly ash from co-incineration other than those mentioned in 10 01 16
10 01 19 wastes from gas cleaning other than those mentioned in 10 01 05, 10 01 07 and 10 01 18
10 01 21 sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 23 aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 01 25 wastes from fuel storage and preparation of coal-fired power plants
10 01 26 wastes from cooling-water treatment
10 02 wastes from the iron and steel industry
10 02 01 wastes from the processing of slag
10 02 02 unprocessed slag
10 02 08 solid wastes from gas treatment other than those mentioned in 10 02 07
10 02 10 mill scales
10 02 12 wastes from cooling-water treatment other than those mentioned in 10 02 11
10 02 14 sludges and filter cakes from gas treatment other than those mentioned in 10 02 13
10 02 15 other sludges and filter cakes
10 03 wastes from aluminium thermal metallurgy
10 03 02 anode scraps
10 03 05 waste alumina

Table 2.4 List of Non Hazardous Wastes that are likely to require disposal

10 03 16 skimmings other than those mentioned in 10 03 15
10 03 18 carbon-containing wastes from anode manufacture other than those mentioned in 10 03 17
10 03 20 flue-gas dust other than those mentioned in 10 03 19
10 03 22 other particulates and dust (including ball-mill dust) other than those mentioned in 10 03 21
10 03 24 solid wastes from gas treatment other than those mentioned in 10 03 23
10 03 26 sludges and filter cakes from gas treatment other than those mentioned in 10 03 25
10 03 28 wastes from cooling-water treatment other than those mentioned in 10 03 27
10 03 30 wastes from treatment of salt slags and black drosses other than those mentioned in 10 03 29
10 04 wastes from lead thermal metallurgy
10 04 10 wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05 wastes from zinc thermal metallurgy
10 05 01 slags from primary and secondary production
10 05 04 other particulates and dust
10 05 09 wastes from cooling-water treatment other than those mentioned in 10 05 08
10 05 11 dross and skimmings other than those mentioned in 10 05 10
10 06 wastes from copper thermal metallurgy
10 06 01 slags from primary and secondary production
10 06 02 dross and skimmings from primary and secondary production
10 06 04 other particulates and dust
10 06 10 wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07 wastes from silver, gold and platinum thermal metallurgy
10 07 01 slags from primary and secondary production
10 07 02 dross and skimmings from primary and secondary production
10 07 03 solid wastes from gas treatment
10 07 04 other particulates and dust
10 07 05 sludges and filter cakes from gas treatment
10 07 08 wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08 wastes from other non-ferrous thermal metallurgy
10 08 04 particulates and dust
10 08 09 other slags
10 08 11 dross and skimmings other than those mentioned in 10 08 10
10 08 13 carbon-containing wastes from anode manufacture other than those mentioned in 10 08 12
10 08 14 anode scrap
10 08 16 flue-gas dust other than those mentioned in 10 08 15
10 08 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20 wastes from cooling-water treatment other than those mentioned in 10 08 19
10 09 wastes from casting of ferrous pieces
10 09 03 furnace slag

Table 2.4 List of Non Hazardous Wastes that are likely to require disposal

10 09 06 casting cores and moulds which have not undergone pouring other than those mentioned in 10 09 05
10 09 08 casting cores and moulds which have undergone pouring other than those mentioned in 10 09 07
10 09 10 flue-gas dust other than those mentioned in 10 09 09
10 09 12 other particulates other than those mentioned in 10 09 11
10 09 14 waste binders other than those mentioned in 10 09 13
10 09 16 waste crack-indicating agent other than those mentioned in 10 09 15
10 10 wastes from casting of non-ferrous pieces
10 10 03 furnace slag
10 10 06 casting cores and moulds which have not undergone pouring, other than those mentioned in 10 10 05
10 10 08 casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07
10 10 10 flue-gas dust other than those mentioned in 10 10 09
10 10 12 other particulates other than those mentioned in 10 10 11
10 10 14 waste binders other than those mentioned in 10 10 13
10 10 16 waste crack-indicating agent other than those mentioned in 10 10 15
10 11 wastes from manufacture of glass and glass products
10 11 03 waste glass-based fibrous materials
10 11 05 particulates and dust
10 11 10 waste preparation mixture before thermal processing, other than those mentioned in 10 11 09
10 11 14 glass-polishing and -grinding sludge other than those mentioned in 10 11 13
10 11 16 solid wastes from flue-gas treatment other than those mentioned in 10 11 15
10 11 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 11 17
10 11 20 solid wastes from on-site effluent treatment other than those mentioned in 10 11 19
10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 01 waste preparation mixture before thermal processing
10 12 03 particulates and dust
10 12 05 sludges and filter cakes from gas treatment
10 12 06 discarded moulds
10 12 10 solid wastes from gas treatment other than those mentioned in 10 12 09
10 12 12 wastes from glazing other than those mentioned in 10 12 11
10 12 13 sludge from on-site effluent treatment
10 13 wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 01 waste preparation mixture before thermal processing
10 13 04 wastes from calcination and hydration of lime
10 13 06 particulates and dust (except 10 13 12 and 10 13 13)
10 13 07 sludges and filter cakes from gas treatment
10 13 10 wastes from asbestos-cement manufacture other than those mentioned in 10 13 09
10 13 11 wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10

Table 2.4 List of Non Hazardous Wastes that are likely to require disposal	
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12
10 13 14	waste concrete and concrete sludge
11 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDROMETALLURGY	
11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)	
11 01 10	sludges and filter cakes other than those mentioned in 11 01 09
11 01 12	aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 14	degreasing wastes other than those mentioned in 11 01 13
11 02 wastes from non-ferrous hydrometallurgical processes	
11 02 03	wastes from the production of anodes for aqueous electrolytical processes
11 02 06	wastes from copper hydrometallurgical processes other than those mentioned in 11 02 05
11 05 wastes from hot galvanising processes	
11 05 02	zinc ash
12 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS	
12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics	
12 01 15	machining sludges other than those mentioned in 12 01 14
12 01 17	waste blasting material other than those mentioned in 12 01 16
12 01 21	spent grinding bodies and grinding materials other than those mentioned in 12 01 20
16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)	
16 01 12	brake pads other than those mentioned in 16 01 11
16 01 22	components not otherwise specified
16 02 wastes from electrical and electronic equipment	
16 02 14	discarded equipment other than those mentioned in 16 02 09 to 16 02 13
16 02 16	components removed from discarded equipment other than those mentioned in 16 02 15
16 05 gases in pressure containers and discarded chemicals	
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 06 batteries and accumulators	
16 06 05	other batteries and accumulators
16 08 spent catalysts	
16 08 03	spent catalysts containing transition metals or transition metal compounds not otherwise specified
16 08 04	spent fluid catalytic cracking catalysts (except 16 08 07)
16 10 aqueous liquid wastes destined for off-site treatment	
16 10 02	aqueous liquid wastes other than those mentioned in 16 10 01
16 10 04	aqueous concentrates other than those mentioned in 16 10 03
16 11 waste linings and refractories	
16 11 02	carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11

Table 2.4 List of Non Hazardous Wastes that are likely to require disposal

01
16 11 04 other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
16 11 06 linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 03 bituminous mixtures, coal tar and tarred products
17 03 02 bituminous mixtures other than those mentioned in 17 03 01
17 06 insulation materials and asbestos-containing construction materials
17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03
17 08 gypsum-based construction material
17 08 02 gypsum-based construction materials other than those mentioned in 17 08 01
18 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)
18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 07 chemicals other than those mentioned in 18 01 06
18 01 09 medicines other than those mentioned in 18 01 08
18 02 wastes from research, diagnosis, treatment or prevention of disease Involving animals
18 02 06 chemicals other than those mentioned in 18 02 05
18 02 08 medicines other than those mentioned in 18 02 07
19 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 01 wastes from incineration or pyrolysis of waste
19 01 02 ferrous materials removed from bottom ash
19 01 12 bottom ash and slag other than those mentioned in 19 01 11
19 01 14 fly ash other than those mentioned in 19 01 13
19 01 16 boiler dust other than those mentioned in 19 01 15
19 01 18 pyrolysis wastes other than those mentioned in 19 01 17
19 01 19 sands from fluidised beds
19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 03 premixed wastes composed only of non-hazardous wastes
19 02 06 sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 02 10 combustible wastes other than those mentioned in 19 02 08 and 19 02 09
19 03 stabilised/solidified wastes
19 03 05 stabilised wastes other than those mentioned in 19 03 04
19 03 07 solidified wastes other than those mentioned in 19 03 06
19 04 vitrified waste and wastes from vitrification
19 04 01 vitrified waste
19 04 04 aqueous liquid wastes from vitrified waste tempering
19 05 wastes from aerobic treatment of solid wastes
19 05 03 off-specification compost

Table 2.4 List of Non Hazardous Wastes that are likely to require disposal

19 06 wastes from anaerobic treatment of waste
19 06 03 liquor from anaerobic treatment of municipal waste
19 06 04 digestate from anaerobic treatment of municipal waste
19 06 05 liquor from anaerobic treatment of animal and vegetable waste
19 06 06 digestate from anaerobic treatment of animal and vegetable waste
19 07 landfill leachate
19 07 03 landfill leachate other than those mentioned in 19 07 02
19 08 wastes from waste water treatment plants not otherwise specified
19 08 09 grease and oil mixture from oil/water separation containing only edible oil and fats
19 08 12 sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09 wastes from the preparation of water intended for human consumption or water for industrial use
19 09 01 solid waste from primary filtration and screenings
19 09 02 sludges from water clarification
19 09 03 sludges from decarbonation
19 09 05 saturated or spent ion exchange resins
19 09 06 solutions and sludges from regeneration of ion exchangers
19 10 wastes from shredding of metal-containing wastes
19 10 02 non-ferrous waste
19 10 04 fluff-light fraction and dust other than those mentioned in 19 10 03
19 10 06 other fractions other than those mentioned in 19 10 05
19 11 wastes from oil regeneration
19 11 06 sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13 wastes from soil and groundwater remediation
19 13 02 solid wastes from soil remediation other than those mentioned in 19 13 01
19 13 04 sludges from soil remediation other than those mentioned in 19 13 03
19 13 06 sludges from groundwater remediation other than those mentioned in 19 13 05
19 13 08 aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07
20 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS
20 01 separately collected fractions (except 15 01)
20 01 30 detergents other than those mentioned in 20 01 29
20 01 32 medicines other than those mentioned in 20 01 31
20 01 41 wastes from chimney sweeping

Table S2.5 List of wastes the are likely to be recovered under normal circumstances
02 WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING
02 01 wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 10 waste metal
02 02 wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 03 materials unsuitable for consumption or processing
02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 03 wastes from solvent extraction
02 03 04 materials unsuitable for consumption or processing
02 05 wastes from the dairy products industry
02 05 01 materials unsuitable for consumption or processing
02 06 wastes from the baking and confectionery industry
02 06 01 materials unsuitable for consumption or processing
02 07 wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 02 wastes from spirits distillation
02 07 03 wastes from chemical treatment
02 07 04 materials unsuitable for consumption or processing
04 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 02 wastes from the textile industry
04 02 09 wastes from composite materials (impregnated textile, elastomer, plastomer)
04 02 10 organic matter from natural products (for example grease, wax)
04 02 21 wastes from unprocessed textile fibres
04 02 22 wastes from processed textile fibres
06 WASTES FROM INORGANIC CHEMICAL PROCESSES
06 13 wastes from inorganic chemical processes not otherwise specified
06 13 03 carbon black
07 WASTES FROM ORGANIC CHEMICAL PROCESSES
07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 13 waste plastic
09 WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01 wastes from the photographic industry
09 01 07 photographic film and paper containing silver or silver compounds
09 01 08 photographic film and paper free of silver or silver compounds
09 01 10 single-use cameras without batteries
09 01 12 single-use cameras containing batteries other than those mentioned in 09 01 11
10 WASTES FROM THERMAL PROCESSES

Table S2.5 List of wastes the are likely to be recovered under normal circumstances

10 01 wastes from power stations and other combustion plants (except 19)
10 01 24 sands from fluidised beds
10 11 wastes from manufacture of glass and glass products
10 11 12 waste glass other than those mentioned in 10 11 11
10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 08 waste ceramics, bricks, tiles and construction products (after thermal processing)
11 WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDROMETALLURGY
11 05 wastes from hot galvanising processes
11 05 01 hard zinc
12 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS
12 01 wastes from shaping and physical and mechanical surface treatment of metals and plastics
12 01 01 ferrous metal filings and turnings
12 01 02 ferrous metal dust and particles
12 01 03 non-ferrous metal filings and turnings
12 01 04 non-ferrous metal dust and particles
12 01 05 plastics shavings and turnings
12 01 13 welding wastes
15 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 packaging (including separately collected municipal packaging waste)
15 01 01 paper and cardboard packaging
15 01 02 plastic packaging
15 01 03 wooden packaging
15 01 04 metallic packaging
15 01 05 composite packaging
15 01 06 mixed packaging
15 01 07 glass packaging
15 01 09 textile packaging
15 02 03 absorbents, filter materials, wiping cloths and protective clothing other than those mentioned in 15 02 02
16 WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 01 end-of-life vehicles from different means of transport (including off-road machinery) and wastes from dismantling of end-of-life vehicles and vehicle maintenance (except 13, 14, 16 06 and 16 08)
16 01 06 end-of-life vehicles, containing neither liquids nor other hazardous components
16 01 15 antifreeze fluids other than those mentioned in 16 01 14
16 01 16 tanks for liquefied gas
16 01 17 ferrous metal
16 01 18 non-ferrous metal
16 01 19 plastic
16 01 20 glass

Table S2.5 List of wastes the are likely to be recovered under normal circumstances

16 03 off-specification batches and unused products
16 03 04 inorganic wastes other than those mentioned in 16 03 03
16 03 06 organic wastes other than those mentioned in 16 03 05
16 05 05 gases in pressure containers other than those mentioned in 16 05 04
16 06 04 alkaline batteries (except 16 06 03)
16 08 01 spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)
17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)
17 02 wood, glass and plastic
17 02 01 wood
17 02 02 glass
17 02 03 plastic
17 04 metals (including their alloys)
17 04 01 copper, bronze, brass
17 04 02 aluminium
17 04 03 lead
17 04 04 zinc
17 04 05 iron and steel
17 04 06 tin
17 04 07 mixed metals
17 04 11 cables other than those mentioned in 17 04 10
19 WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE
19 09 wastes from the preparation of water intended for human consumption or water for industrial use
19 09 04 spent activated carbon
19 10 wastes from shredding of metal-containing wastes
19 10 01 iron and steel waste
19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 12 01 paper and cardboard
19 12 02 ferrous metal
19 12 03 non-ferrous metal
19 12 04 plastic and rubber
19 12 05 glass
19 12 07 wood other than that mentioned in 19 12 06
19 12 08 textiles
19 12 09 minerals (for example sand, stones)
19 12 10 combustible waste (refuse derived fuel)
20 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

Table S2.5 List of wastes the are likely to be recovered under normal circumstances

20 01 separately collected fractions (except 15 01)
20 01 25 edible oil and fat
20 01 28 paint, inks, adhesives and resins other than those mentioned in 20 01 27
20 01 34 batteries and accumulators other than those mentioned in 20 01 33
20 01 36 discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35
20 01 38 wood other than that mentioned in 20 01 37
20 01 39 plastics
20 01 40 metals

Table S2.6 – List of Hazardous Waste suitable for the cyanide/sulphide and alkaline redox process

03 WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 02 wastes from wood preservation
03 02 04* inorganic wood preservatives
06 02 wastes from the MFSU of bases
06 02 01* calcium hydroxide
06 02 03* ammonium hydroxide
06 02 04* sodium and potassium hydroxide
06 02 05* other bases
06 03 wastes from the MFSU of salts and their solutions and metallic oxides
06 03 11* solid salts and solutions containing cyanides
06 03 13* solid salts and solutions containing heavy metals
06 03 15* metalloxides containing heavy metals
06 04 metal-containing wastes other than those mentioned in 06 03
06 04 03* wastes containing arsenic
06 04 05* wastes containing other heavy metals
06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes
06 06 02* wastes containing dangerous sulphides
09 WASTES FROM THE PHOTOGRAPHIC INDUSTRY

Table S2.6 – List of Hazardous Waste suitable for the cyanide/sulphide and alkaline redox process
09 01 wastes from the photographic industry
09 01 05* bleach solutions and bleach fixer solutions
11 03 sludges and solids from tempering processes
11 03 02* other wastes
11 03 01* wastes containing cyanide
16 03 off-specification batches and unused products
16 03 03* inorganic wastes containing dangerous substances
16 05 gases in pressure containers and discarded chemicals
16 05 06* laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
16 05 07* discarded inorganic chemicals consisting of or containing dangerous substances
16 05 08* discarded organic chemicals consisting of or containing dangerous substances
16 07 wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 09* wastes containing other dangerous substances
16 08 spent catalysts
16 08 06* spent liquids used as catalysts
16 09 oxidising substances
16 09 01* permanganates, for example potassium permanganate
16 09 03* peroxides, for example hydrogen peroxide
16 09 04* oxidising substances, not otherwise specified
16 10 aqueous liquid wastes destined for off-site treatment
16 10 01* aqueous liquid wastes containing dangerous substances
16 10 03* aqueous concentrates containing dangerous substances
18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 06* chemicals consisting of or containing dangerous substances
18 02 wastes from research, diagnosis, treatment or prevention of disease
Involving animals
18 02 05* chemicals consisting of or containing dangerous substances
19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified

Table S2.6 – List of Hazardous Waste suitable for the cyanide/sulphide and alkaline redox process
19 12 11* other wastes (including mixtures of materials) from mechanical treatment of waste containing dangerous substances
20 01 separately collected fractions (except 15 01)
20 01 15* alkalines

Table S2.7 – List of Non-Hazardous Waste suitable for the cyanide/sulphide and alkaline redox process
16 03 off-specification batches and unused products
16 03 04 inorganic wastes other than those mentioned in 16 03 03
16 05 gases in pressure containers and discarded chemicals
16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 10 aqueous liquid wastes destined for off-site treatment
16 10 02 aqueous liquid wastes other than those mentioned in 16 10 01
18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 07 chemicals other than those mentioned in 18 01 06
18 02 wastes from research, diagnosis, treatment or prevention of disease
Involving animals
18 02 06 chemicals other than those mentioned in 18 02 05
19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

Table S2.8 – List of Hazardous Waste suitable for the hydrolysis, acid blending and acidic redox process
01 03 wastes from physical and chemical processing of metalliferous minerals
01 03 04* acid-generating tailings from processing of sulphide ore

Table S2.8 – List of Hazardous Waste suitable for the hydrolysis, acid blending and acidic redox process
01 03 05* other tailings containing dangerous substances
01 03 07* other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals
03 WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 02 wastes from wood preservation
03 02 04* inorganic wood preservatives
06 WASTES FROM INORGANIC CHEMICAL PROCESSES
06 01 wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 01* sulphuric acid and sulphurous acid
06 01 02* hydrochloric acid
06 01 03* hydrofluoric acid
06 01 04* phosphoric and phosphorous acid
06 01 05* nitric acid and nitrous acid (non-fuming only)
06 01 06* other acids
06 07 wastes from the MFSU of halogens and halogen chemical processes
06 07 04* solutions and acids, for example contact acid
10 01 wastes from power stations and other combustion plants (except 19)
10 01 09* sulphuric acid
11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
11 01 05* pickling acids
11 01 06* acids not otherwise specified
16 03 off-specification batches and unused products
16 03 03* inorganic wastes containing dangerous substances
16 05 gases in pressure containers and discarded chemicals
16 05 06* laboratory chemicals, consisting of or containing dangerous substances,
16 05 07* discarded inorganic chemicals consisting of or containing dangerous substances
16 05 08* discarded organic chemicals consisting of or containing dangerous substances
16 07 wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)

Table S2.8 – List of Hazardous Waste suitable for the hydrolysis, acid blending and acidic redox process
16 07 09* wastes containing other dangerous substances
16 08 spent catalysts
16 08 05* spent catalysts containing phosphoric acid
16 08 06* spent liquids used as catalysts
16 09 oxidising substances
16 09 01* permanganates, for example potassium permanganate
16 09 02* chromates, for example potassium chromate, potassium or sodium dichromate
16 09 03* peroxides, for example hydrogen peroxide
16 09 04* oxidising substances, not otherwise specified
16 10 aqueous liquid wastes destined for off-site treatment
16 10 01* aqueous liquid wastes containing dangerous substances
16 10 03* aqueous concentrates containing dangerous substances
18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 06* chemicals consisting of or containing dangerous substances
18 02 wastes from research, diagnosis, treatment or prevention of disease Involving animals
18 02 05* chemicals consisting of or containing dangerous substances
19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 11* other wastes (including mixtures of materials) from mechanical treatment of
waste containing dangerous substances
20 01 separately collected fractions (except 15 01)
20 01 14* acids

Table S2.9 – List of Non-Hazardous Waste suitable for the hydrolysis, acid blending and acidic redox process
16 03 off-specification batches and unused products
16 03 04 inorganic wastes other than those mentioned in 16 03 03
16 05 gases in pressure containers and discarded chemicals
16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 10 aqueous liquid wastes destined for off-site treatment

Table S2.9 – List of Non-Hazardous Waste suitable for the hydrolysis, acid blending and acidic redox process
16 10 02 aqueous liquid wastes other than those mentioned in 16 10 01
18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 07 chemicals other than those mentioned in 18 01 06
18 02 wastes from research, diagnosis, treatment or prevention of disease Involving animals
18 02 06 chemicals other than those mentioned in 18 02 05
19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

Table S2.10 – List of Hazardous Waste suitable for the pH adjust & precipitation process
01 03 wastes from physical and chemical processing of metalliferous minerals
01 03 04* acid-generating tailings from processing of sulphide ore
01 03 05* other tailings containing dangerous substances
01 03 07* other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals
01 04 wastes from physical and chemical processing of non-metalliferous minerals
01 04 07* wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals
03 WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD
03 02 wastes from wood preservation
03 02 04* inorganic wood preservatives
04 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 02 wastes from the textile industry
04 02 19* sludges from on-site effluent treatment containing dangerous substances
05 WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL
05 01 wastes from petroleum refining
05 01 09* sludges from on-site effluent treatment containing dangerous substances

Table S2.10 – List of Hazardous Waste suitable for the pH adjust & precipitation process
06 01 wastes from the manufacture, formulation, supply and use (MFSU) of acids
06 01 01* sulphuric acid and sulphurous acid
06 01 02* hydrochloric acid
06 01 03* hydrofluoric acid
06 01 04* phosphoric and phosphorous acid
06 01 06* other acids
06 02 wastes from the MFSU of bases
06 02 01* calcium hydroxide
06 02 03* ammonium hydroxide
06 02 04* sodium and potassium hydroxide
06 02 05* other bases
06 03 wastes from the MFSU of salts and their solutions and metallic oxides
06 03 13* solid salts and solutions containing heavy metals
06 03 15* metallic oxides containing heavy metals
06 04 metal-containing wastes other than those mentioned in 06 03
06 04 03* wastes containing arsenic
06 04 04* wastes containing mercury
06 04 05* wastes containing other heavy metals
06 05 sludges from on-site effluent treatment
06 05 02* sludges from on-site effluent treatment containing dangerous substances
06 07 wastes from the MFSU of halogens and halogen chemical processes
06 07 04* solutions and acids, for example contact acid
06 10 wastes from the MFSU of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture
06 10 02* wastes containing dangerous substances
06 13 wastes from inorganic chemical processes not otherwise specified
06 13 01* inorganic plant protection products, wood-preserving agents and other biocides.
07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 01* aqueous washing liquids and mother liquors
07 01 11* sludges from on-site effluent treatment containing dangerous substances

Table S2.10 – List of Hazardous Waste suitable for the pH adjust & precipitation process
07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 01* aqueous washing liquids and mother liquors
07 02 11* sludges from on-site effluent treatment containing dangerous substances
07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 01* aqueous washing liquids and mother liquors
07 03 11* sludges from on-site effluent treatment containing dangerous substances
07 04 wastes from the MFSU of organic plant protection products (except 02 01
08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 01* aqueous washing liquids and mother liquors
07 04 11* sludges from on-site effluent treatment containing dangerous substances
07 05 wastes from the MFSU of pharmaceuticals
07 05 01* aqueous washing liquids and mother liquors
07 05 11* sludges from on-site effluent treatment containing dangerous substances
07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 01* aqueous washing liquids and mother liquors
07 06 11* sludges from on-site effluent treatment containing dangerous substances
07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 01* aqueous washing liquids and mother liquors
07 07 11* sludges from on-site effluent treatment containing dangerous substances
08 03 wastes from MFSU of printing inks
08 03 16* waste etching solutions
08 04 wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 15* aqueous liquid waste containing adhesives or sealants containing organic solvents or other dangerous substances
09 01 wastes from the photographic industry
09 01 01* water-based developer and activator solutions
09 01 02* water-based offset plate developer solutions
09 01 04* fixer solutions
09 01 05* bleach solutions and bleach fixer solutions
09 01 06* wastes containing silver from on-site treatment of photographic wastes

Table S2.10 – List of Hazardous Waste suitable for the pH adjust & precipitation process

09 01 13* aqueous liquid waste from on-site reclamation of silver other than those
10 01 wastes from power stations and other combustion plants (except 19)
10 01 09* sulphuric acid
10 01 20* sludges from on-site effluent treatment containing dangerous substances
10 01 22* aqueous sludges from boiler cleansing containing dangerous substances
11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
11 01 05* pickling acids
11 01 06* acids not otherwise specified
11 01 07* pickling bases
11 01 08* phosphating sludges
11 01 09* sludges and filter cakes containing dangerous substances
11 01 10 sludges and filter cakes other than those mentioned in 11 01 09
11 01 11* aqueous rinsing liquids containing dangerous substances
11 01 13* degreasing wastes containing dangerous substances
11 01 15* eluate and sludges from membrane systems or ion exchange systems containing dangerous substances
11 02 wastes from non-ferrous hydrometallurgical processes
11 02 02* sludges from zinc hydrometallurgy (including jarosite, goethite)
11 02 05* wastes from copper hydrometallurgical processes containing dangerous substances
11 03 sludges and solids from tempering processes
11 03 02* other wastes
11 05 wastes from hot galvanising processes
11 05 04* spent flux
12 03 wastes from water and steam degreasing processes (except 11)
12 03 01* aqueous washing liquids
12 03 02* steam degreasing wastes
13 05 oil/water separator contents
13 05 02* sludges from oil/water separators

Table S2.10 – List of Hazardous Waste suitable for the pH adjust & precipitation process
13 05 03* interceptor sludges
13 05 07* oily water from oil/water separators
13 05 08* mixtures of wastes from grit chambers and oil/water separators
16 03 off-specification batches and unused products
16 03 03* inorganic wastes containing dangerous substances
16 05 06* laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
16 05 07* discarded inorganic chemicals consisting of or containing dangerous substances
16 05 08* discarded organic chemicals consisting of or containing dangerous substances
16 06 batteries and accumulators
16 06 06* separately collected electrolyte from batteries and accumulators
16 07 wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)
16 07 09* wastes containing other dangerous substances
16 08 spent catalysts
16 08 05* spent catalysts containing phosphoric acid
16 08 06* spent liquids used as catalysts
16 10 aqueous liquid wastes destined for off-site treatment
16 10 01* aqueous liquid wastes containing dangerous substances
16 10 03* aqueous concentrates containing dangerous substances
18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 06* chemicals consisting of or containing dangerous substances
18 02 wastes from research, diagnosis, treatment or prevention of disease Involving animals
18 02 05* chemicals consisting of or containing dangerous substances
19 01 wastes from incineration or pyrolysis of waste
19 01 06* aqueous liquid wastes from gas treatment and other aqueous liquid wastes
19 07 landfill leachate
19 07 02* landfill leachate containing dangerous substances
19 08 wastes from waste water treatment plants not otherwise specified
19 08 07* solutions and sludges from regeneration of ion exchangers
19 08 11* sludges containing dangerous substances from biological treatment of industrial

Table S2.10 – List of Hazardous Waste suitable for the pH adjust & precipitation process
19 08 13* sludges containing dangerous substances from other treatment of industrial waste water
19 11 wastes from oil regeneration
19 11 03* aqueous liquid wastes
19 11 04* wastes from cleaning of fuel with bases
19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 11* other wastes (including mixtures of materials) from mechanical treatment of
19 13 wastes from soil and groundwater remediation
19 13 03* sludges from soil remediation containing dangerous substances
19 13 05* sludges from groundwater remediation containing dangerous substances
19 13 07* aqueous liquid wastes and aqueous concentrates from groundwater remediation
20 01 separately collected fractions (except 15 01)
20 01 14* acids
20 01 15* alkalines
20 01 17* photochemicals
20 01 29* detergents containing dangerous substances

Table S2.11 – List of Non-Hazardous Waste suitable for the pH adjust & precipitation process
01 03 wastes from physical and chemical processing of metalliferous minerals
01 03 06 tailings other than those mentioned in 01 03 04 and 01 03 05
01 05 drilling muds and other drilling wastes
01 05 04 freshwater drilling muds and wastes
01 05 07 barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
01 05 08 chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06
02 03 wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 05 sludges from on-site effluent treatment

Table S2.11 – List of Non-Hazardous Waste suitable for the pH adjust & precipitation process
02 04 wastes from sugar processing
02 04 02 off-specification calcium carbonate
02 04 03 sludges from on-site effluent treatment
02 05 wastes from the dairy products industry
02 05 02 sludges from on-site effluent treatment
02 06 wastes from the baking and confectionery industry
02 06 03 sludges from on-site effluent treatment
02 07 wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 04 materials unsuitable for consumption or processing
02 07 05 sludges from on-site effluent treatment
03 03 wastes from pulp, paper and cardboard production and processing
03 03 02 green liquor sludge (from recovery of cooking liquor)
03 03 05 de-inking sludges from paper recycling
03 03 09 lime mud waste
03 03 11 sludges from on-site effluent treatment other than those mentioned in 03 03 10
04 WASTES FROM THE LEATHER, FUR AND TEXTILE INDUSTRIES
04 01 wastes from the leather and fur industry
04 01 06 sludges, in particular from on-site effluent treatment containing chromium
04 01 07 sludges, in particular from on-site effluent treatment free of chromium
04 02 wastes from the textile industry
04 02 20 sludges from on-site effluent treatment other than those mentioned in 04 02 19
05 01 wastes from petroleum refining
05 01 10 sludges from on-site effluent treatment other than those mentioned in 05 01 09
05 01 13 boiler feedwatersludges
06 03 wastes from the MFSU of salts and their solutions and metallic oxides
06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
06 05 sludges from on-site effluent treatment
06 05 03 sludges from on-site effluent treatment other than those mentioned in 06 05 02
06 06 wastes from the MFSU of sulphur chemicals, sulphur chemical processes and desulphurisation processes

Table S2.11 – List of Non-Hazardous Waste suitable for the pH adjust & precipitation process
06 06 03 wastes containing sulphides other than those mentioned in 06 06 02
07 01 wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
07 01 12 sludges from on-site effluent treatment other than those mentioned in 07 01 11
07 02 wastes from the MFSU of plastics, synthetic rubber and man-made fibres
07 02 12 sludges from on-site effluent treatment other than those mentioned in 07 02 11
07 03 wastes from the MFSU of organic dyes and pigments (except 06 11)
07 03 12 sludges from on-site effluent treatment other than those mentioned in 07 03 11
07 04 wastes from the MFSU of organic plant protection products (except 02 01
08 and 02 01 09), wood preserving agents (except 03 02) and other biocides
07 04 12 sludges from on-site effluent treatment other than those mentioned in 07 04 11
07 05 wastes from the MFSU of pharmaceuticals
07 05 12 sludges from on-site effluent treatment other than those mentioned in 07 05 11
07 06 wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 12 sludges from on-site effluent treatment other than those mentioned in 07 06 11
07 07 wastes from the MFSU of fine chemicals and chemical products not otherwise specified
07 07 12 sludges from on-site effluent treatment other than those mentioned in 07 07 11
08 01 wastes from MFSU and removal of paint and varnish
08 01 16 aqueous sludges containing paint or varnish other than those mentioned in 08 01 15
08 01 20 aqueous suspensions containing paint or varnish other than those mentioned in 08 01 19
08 02 wastes from MFSU of other coatings (including ceramic materials)
08 02 02 aqueous sludges containing ceramic materials
08 02 03 aqueous suspensions containing ceramic materials
08 03 wastes from MFSU of printing inks
08 03 07 aqueous sludges containing ink
08 03 08 aqueous liquid waste containing ink
08 03 15 ink sludges other than those mentioned in 08 03 14
08 04 wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 14 aqueous sludges containing adhesives or sealants other than those mentioned in 08 04 13
08 04 16 aqueous liquid waste containing adhesives or sealants other than those
mentioned in 08 04 15

Table S2.11 – List of Non-Hazardous Waste suitable for the pH adjust & precipitation process
10 01 wastes from power stations and other combustion plants (except 19)
10 01 21 sludges from on-site effluent treatment other than those mentioned in 10 01 20
10 01 23 aqueous sludges from boiler cleansing other than those mentioned in 10 01 22
10 04 wastes from lead thermal metallurgy
10 04 10 wastes from cooling-water treatment other than those mentioned in 10 04 09
10 05 wastes from zinc thermal metallurgy
10 05 09 wastes from cooling-water treatment other than those mentioned in 10 05 08
10 06 wastes from copper thermal metallurgy
10 06 10 wastes from cooling-water treatment other than those mentioned in 10 06 09
10 07 wastes from silver, gold and platinum thermal metallurgy
10 07 05 sludges and filter cakes from gas treatment
10 07 08 wastes from cooling-water treatment other than those mentioned in 10 07 07
10 08 wastes from other non-ferrous thermal metallurgy
10 08 18 sludges and filter cakes from flue-gas treatment other than those mentioned in 10 08 17
10 08 20 wastes from cooling-water treatment other than those mentioned in 10 08 19
10 12 wastes from manufacture of ceramic goods, bricks, tiles and construction products
10 12 13 sludge from on-site effluent treatment
10 13 wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 07 sludges and filter cakes from gas treatment
11 01 wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising)
11 01 10 sludges and filter cakes other than those mentioned in 11 01 09
11 01 12 aqueous rinsing liquids other than those mentioned in 11 01 11
11 01 14 degreasing wastes other than those mentioned in 11 01 13
16 03 off-specification batches and unused products
16 03 04 inorganic wastes other than those mentioned in 16 03 03
16 05 gases in pressure containers and discarded chemicals
16 05 09 discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08
16 10 aqueous liquid wastes destined for off-site treatment
16 10 02 aqueous liquid wastes other than those mentioned in 16 10 01

Table S2.11 – List of Non-Hazardous Waste suitable for the pH adjust & precipitation process
16 10 04 aqueous concentrates other than those mentioned in 16 10 03
18 01 wastes from natal care, diagnosis, treatment or prevention of disease in humans
18 01 07 chemicals other than those mentioned in 18 01 06
18 02 wastes from research, diagnosis, treatment or prevention of disease Involving animals
18 02 06 chemicals other than those mentioned in 18 02 05
19 02 wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 06 sludges from physico/chemical treatment other than those mentioned in 19 02 05
19 04 vitrified waste and wastes from vitrification
19 04 04 aqueous liquid wastes from vitrified waste tempering
19 06 wastes from anaerobic treatment of waste
19 06 03 liquor from anaerobictreatment of municipal waste
19 06 04 digestate from anaerobictreatment of municipal waste
19 06 05 liquor from anaerobictreatment of animal and vegetable waste
19 06 06 digestate from anaerobictreatment of animal and vegetable waste
19 07 landfill leachate
19 07 03 landfill leachate other than those mentioned in 19 07 02
19 08 wastes from waste water treatment plants not otherwise specified
19 08 12 sludges from biological treatment of industrial waste water other than those mentioned in 19 08 11
19 08 14 sludges from other treatment of industrial waste water other than those mentioned in 19 08 13
19 09 wastes from the preparation of water intended for human consumption or water for industrial use
19 09 02 sludges from water clarification
19 09 03 sludges from decarbonation
19 09 06 solutions and sludges from regeneration of ion exchangers
19 11 wastes from oil regeneration
19 11 06 sludges from on-site effluent treatment other than those mentioned in 19 11 05
19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11
19 13 wastes from soil and groundwater remediation

Table S2.11 – List of Non-Hazardous Waste suitable for the pH adjust & precipitation process
19 13 04 sludges from soil remediation other than those mentioned in 19 13 03
19 13 06 sludges from groundwater remediation other than those mentioned in 19 13 05
19 13 08 aqueous liquid wastes and aqueous concentrates from groundwater remediation other than those mentioned in 19 13 07

Schedule 3 – Emissions and monitoring

Table S4.1 Point source emissions to air – emission limits and monitoring requirements

Emission point ref. & location	Parameter	Source	Limit (including unit)	Reference period	Monitoring frequency	Monitoring standard or method
A1 [Point A1 on site plan to be submitted see Note 1]	VOC's	Abatement plant	Note 1	Note 1	Note 1	Note 1

Note 1- To be confirmed in writing with the Environment Agency following completion of Pre-operational condition 1, Table S1.3

Schedule 4 - Reporting

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

Table S5.1 Reporting of monitoring data

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air Parameters as required by condition 3.5.1.	A1	Every 12 months	Note 2

Note 2- To be confirmed in writing with the Environment Agency following completion of Pre-operational condition 1, Table S1.3

Table S5.2: Annual production/treatment

Parameter	Units

Table S5.3 Performance parameters

Parameter	Frequency of assessment	Units
Energy usage	Annually	MWh

Table S5.4 Reporting forms

Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Agency	04/12/08
Energy usage	Form energy 1 or other form as agreed in writing by the Agency	04/12/08
Waster usage	Form water 1 or other form as agreed in writing by the Agency	Dd/03/12
Reporting Other performance indicators	Form Performance 1 or other form as agreed in writing by the Agency	Dd/03/12

Schedule 5 - Notification

These pages outline the information that the operator must provide.

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

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

Part A

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

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

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

be taken, to stop the emission	
--------------------------------	--

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

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

Part B - to be submitted as soon as practicable

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

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 - Interpretation

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

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

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

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

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

“*best available treatment, recovery and recycling techniques*” shall have the meaning given to it in the document published jointly by the Department for Environment, Food and Rural Affairs, the Welsh Assembly Government and the Scottish Executive on 27th November 2006, entitled “Guidance on Best Available Treatment, Recovery and Recycling Techniques (BATRRRT) and Treatment of Waste Electrical and Electronic Equipment (WEEE);

“*bioaerosol threshold limits*” means the maximum acceptable bioaerosol concentrations at the nearest sensitive receptor, or at an equivalent distance downwind of the composting operations, which are attributable to the composting operations. The maximum acceptable concentrations are respectively 300, 1000 and 500 CFU m⁻³ for gram-negative bacteria, total bacteria and *Aspergillus fumigatus*,

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

“*compost*” means solid particulate material that is the result of composting, which has been *sanitised* and *stabilised*, and which confers beneficial effects when added to soil, used as a component of growing media or used in another way in conjunction with plants.

“*composting*” means the biological decomposition of organic materials, under conditions that are predominantly aerobic and that allow the development of thermophilic temperatures as a result of biologically produced heat.

"controlled substances" means chlorofluorocarbons, other fully halogenated chlorofluorocarbons, halons, carbon tetrachloride, 1,1,1-trichloroethane, methyl bromide, hydrobromofluorocarbons and hydrochlorofluorocarbons listed in Annex I of Regulation (EC) No 2037/2000 of the European Parliament and of the Council of 29 June 2000 on substances that deplete the ozone layer, including their isomers, whether alone or in a mixture, and whether they are virgin, recovered, recycled or reclaimed. This definition shall not cover any controlled substance which is in a manufactured product other than a container used for the transportation or storage of that substance, or insignificant quantities of any controlled substance, originating from inadvertent or coincidental production during a manufacturing process, from unreacted feedstock, or from use as a processing agent which is present in chemical substances as trace impurities, or that is emitted during product manufacture or handling

"D" means a disposal operation provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

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

"emissions to land" includes emissions to groundwater.

"End-of-Life Vehicles Directive" means Directive 2000/53/EC of the European Parliament and Council of 18 September 2000 on end-of-life vehicles.

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

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2010 No.675 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"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.

"groundwater protection zones 1 and 2" have the meaning given in the document titled "Groundwater Protection: Policy and Practice" published by the Environment Agency in 2006.

"hazardous property" has the meaning given in Schedule 3 of the Hazardous Waste (England and Wales) Regulations 2005 No.894 and the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138).

"hazardous waste" has the meaning given in the Hazardous Waste (England and Wales) Regulations 2005 No.894, the Hazardous Waste (Wales) Regulations 2005 No. 1806 (W.138), the List of Wastes (England) Regulations 2005 No.895 and the List of Wastes (Wales) Regulations 2005 No. 1820 (W.148).

"Industry Standard Protocol" means "A standardised protocol for the monitoring of bioaerosols at

open composting facilities” published by the Association for Organics Recycling and developed in conjunction with the Environment Agency

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

“*maturation*” means a stage when by agitating and turning the compost it no longer results in reheating and the monitored temperature falls to ambient without the compost being too dry or anaerobic. Phytotoxins that are formed during the 'active' composting phase are metabolised by micro-organisms, which will result in the final material not being harmful to plants. This usually coincides with drop in pH toward neutral, and the conversion of ammonia into nitrates and recolonisation of beneficial micro-organisms. The maturation phase may need active management by turning to prevent the material becoming anaerobic.

“*nearest sensitive receptors*” means the nearest place to the composting operations where people are likely to be for prolonged or frequent periods. This term would therefore apply to dwellings (including any associated gardens) and to workplaces where workers would frequently be present. It does not apply to the operators of composting facilities or their staff while carrying out the composting operation as their health is covered by Health and Safety legislation.

“*ozone-depleting substances*” “*ODS*” means “controlled substances” contained in refrigeration, air-conditioning and heat pump equipment, equipment containing solvents, fire protection systems and fire extinguishers.

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

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

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

“*Solvent Emissions Directive*” means Directive 1999/13/EC (as amended by Directive 2004/42/EC) on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations.

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

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

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

“*WEEE Directive*” means Directive 2002/96/EC of the European Parliament and of the Council of 27th January 2003 on waste electrical and electronic equipment (WEEE) as amended by Directive 2003/108/EC of the European Parliament and of the Council of 8th December 2003 on waste electrical and electronic equipment (WEEE).

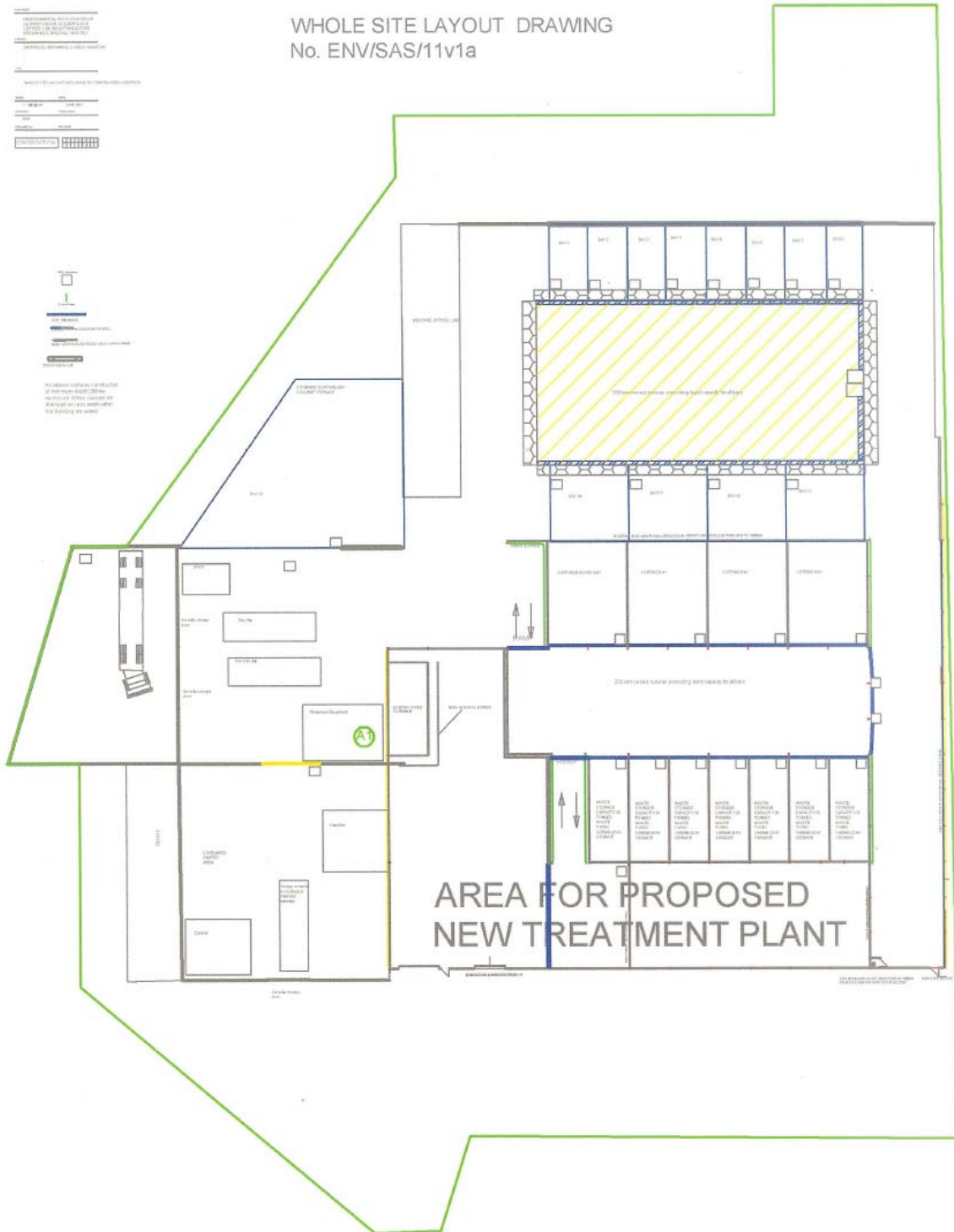
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

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

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

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

Schedule 7 - Site plan



END OF PERMIT

Permit Number: EPR/MP3530GC

Operator: Envirosol Limited

Facility: Envirosol Environmental Management Facility Brownhills

Form Number: Air1 / 04/12/08

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

Emission Point	Substance / Parameter	Emission		Result ^[1]	Test Method ^[2]	Sample Date and Times ^[3]	Uncertainty ^[4]
		Limit Value	Reference Period				
A1	VOC as Total Organic Carbon (TOC)	20 mg/m ³	1 hour period		BS EN 12619		

The result given is the maximum value (or the minimum value in the case of a limit that is expressed as a minimum) obtained during the reporting period, expressed in the same terms as the emission limit value. Where the emission limit value is expressed as a range, the result is given as the 'minimum – maximum' measured values. Where an internationally recognised standard test method is used the reference number is given. Where another method that has been formally agreed with the Agency is used, then the appropriate identifier is given. In other cases the principal technique is stated, e.g. gas chromatography. For non-continuous measurements the date and time of the sample that produced the result is given. For continuous measurements the percentage of the process operating time covered by the result is given. The uncertainty associated with the quoted result at the 95% confidence interval, unless otherwise stated.

Signed
Authorised to sign as representative of Envirosol Limited

Date.....

Permit Number: EPR/MP3530GC

Operator: Envirosol Limited

Facility: Envirosol Environmental Management Facility Brownhills

Form Number: Energy1 / 04/12/08

Reporting of Energy Usage for the year xxxx

Energy Source	Energy Usage		Specific Usage (MWh/unit output)
	Quantity	Primary Energy (MWh)	
Electricity *	MWh		
Natural Gas	MWh		
TOTAL	-		

* Conversion factor for delivered electricity to primary energy = 2.6

Operator's comments :

Signed
Authorised to sign as representative of Envirosol Limited

Date.....

Permit Number: EPR/MP3530GC

Operator: Envirosol Limited

Facility: Envirosol Environmental Management Facility Brownhills

Form Number: WaterUsage1 / 19/03/12

Reporting of Water Usage for the year

Water Source	Usage (m ³ /year)	Specific Usage (m ³ /unit output)
Mains water		
TOTAL WATER USAGE		

Operator's comments :

Signed
Authorised to sign as representative of Envirosol Limited

Date.....

Permit Number: EPR/MP3530GC

Operator: EnviroSol Limited

Facility: EnviroSol Environmental Management Facility Brownhills

Form Number: Performance1 / 19/03/12

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

Parameter	Units
Total raw material used	tonnes

Operator's comments :

Signed
Authorised to sign as representative of EnviroSol Limited

Date.....