Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2010

Future Industrial Services Limited

Berwick-upon Tweed Chemical Works
East Ord Industrial Estate
Berwick-upon-Tweed
Northumberland
TD15 2XF

Variation application number

EPR/KP3937TY/V003

Permit number

EPR/KP3937TY

Berwick-upon-Tweed Chemical Works
Permit number EPR/KP3937TY

Introductory note

This introductory note does not form a part of the notice.

Under the Environmental Permitting (England & Wales) Regulations 2010 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

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

The site is situated on an industrial estate at East Ord approximately 1.5 km from the centre of Berwick-upon-Tweed. The site covers an area of 2.47 ha in an area comprising mixed industrial and agricultural properties of various ages. Access to the site is from the A1 via the A698 and is enclosed by secure fencing with a single vehicular access. Within the installation boundary there is an office block combined with an on-site laboratory and staff parking facilities.

The site is operated as a chemical production and hazardous waste treatment facility. Processes include handling primarily liquids, copper solutions being used in the chemical manufacturing process, waste acids being neutralised either with the addition of lime or caustic soda and the recovery of oil from wastes containing oil. Liquid wastes from these processes are treated for either disposal via sewer or landfill or sent off-site for further treatment.

There are no controlled waters in close proximity to the site with the nearest watercourse being the River Tweed approximately 645m to the north of the site. The nearest residential properties are situated some 500m to the south east. The site is situated within 2km of a SSSI and there are four European designated sites within 10km.

The operator has a management system certificated to ISO14001 and an appropriate WAMITAB certificate of technical competence.

This variation is to introduce a dryer for metal rich filter cake either received onto site or from the on-site acid/alkali neutralisation plant.

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 BT0243IT	Received 16/12/2004	Original application for chemical manufacturing processes
Response to request for information	Requested 16/12/2004	Response dated 05/01/2005
Response to request for information	Requested 06/04/2005	Response dated 07/04/2005
Permit BT0243IT determined	06/07/2005	
Variation CP3337SP	Determined 24/08/2005	To rectify administrative and typographical errors
Variation XP3635LV	Determined 25/01/2006	To modify Improvement Programme timetable
Application SP3831MK	Duly Made dated 29/01/2007	
Additional information Schedule 4 notice	Notice dated 21/02/2007	Response dated 26/03/2007
Additional information request		Response received 31/07/2007 Site layout and installation boundary
Variation notice SP3831MK	Determined 18/09/2007	
Application YP3137XQ	Duly Made dated 02/07/2008	
Additional information request		Response received 27/08/23008
Variation notice YP3137XQ	Determined 03/09/2008	
Application EPR/KP3937TY/T001	Duly Made 23/07/2010	Full transfer of permit EPR/BT0243IT
Additional information request		Response received 23/07/2010
Transfer EPR/KP3937TY/T001	Determined 28/07/2010	
Agency variation EPR/KP3937TY/V002 (YP3135EP)	Determined 2012/2013	Agency variation to implement the changes introduced by IED
Application EPR/KP3937TY/V003	Duly Made 31/03/2014	Introduction of filter cake dryer
Schedule 5 request for further information	Notice dated 13/05/2014	Response received 27/05/2014 and revised H1 assessment 29/05/2014
Variation EPR/KP3937TY/V003 (NP3234VX)	Determined 13/06/2014	

End of introductory note

Notice of variation and consolidation

The 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 and consolidates

permit number
EPR/KP3937TY

issued to
Future Industrial Services Limited ("the operator")

whose registered office is

Image Business Park
Acornfield Road
Kirkby
Liverpool
L33 7UF

company registration number **3734986**

to operate a regulated facility at:

Berwick-upon-Tweed Chemical Works
East Ord Industrial Estate
Berwick–upon-Tweed
Northumberland
TD15 2XF

to the extent set out in the schedules.

The notice shall take effect from 13/06/2014

Name	Date
Anne Nightingale	**13/06/2014**

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of the application made by the operator.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2010

Permit number
EPR/KP3937TY

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/KP3937TY/V003 authorising,

Future Industrial Services Limited ("the operator")

whose registered office is

Image Business Park
Acornfield Road
Kirkby
Liverpool
L33 7UF

company registration number **3734986**

to operate a regulated facility at:

Berwick-upon-Tweed Chemical Works
East Ord Industrial Estate
Berwick–upon-Tweed
Northumberland
TD15 2XF

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

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Name	Date
Anne Nightingale	**13/06/2014**

Authorised on behalf of the Environment Agency

Conditions

1 Management

1.1 General management

1.1.1 The operator shall manage and operate the activities:

(a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances 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 The operator shall:

(a) take appropriate measures to ensure that energy is used efficiently in the activities;

(b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and

(c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

1.3.1 The operator shall:

(a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;

(b) maintain records of raw materials and water used in the activities;

(c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and

(d) take any further appropriate measures identified by a review.

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

1.4.1 The operator shall take appropriate measures to ensure that:

(a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and

(b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and

(c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

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

2 Operations

2.1 Permitted activities

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

2.1.2 Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

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

2.3 Operating techniques

2.3.1 (a) The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by 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 or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan , and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.

2.3.2 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 tables S2.2, S2.3, S2.4, S2.5 and S2.6 and

(b) it conforms to the description in the documentation supplied by the producer and holder.

2.3.4 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.

Hazardous waste storage and treatment

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

2.4 Improvement programme

2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.

2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

2.5.1 The operations specified in schedule 1 table S1.4 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, S3.2 and S3.3.

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

3.1.3 Total annual emissions from the emission point(s) set out in tables schedule 3 S3.1, S3.2 and S3.3 of a substance listed in schedule 3 table S3.4 shall not exceed the relevant limit in table S3.4.

3.1.4 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

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

3.2.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;

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

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

3.3 Odour

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

3.3.2 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 which identifies and minimises the risks of pollution from odour;

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

3.4 Noise and vibration

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

3.4.2 The operator shall:

(a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;

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

3.5 Monitoring

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

(a) point source emissions specified in tables S3.1, S3.2 and S3.3.

3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.

3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.

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

4 Information

4.1 Records

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

(a) be legible;

(b) be made as soon as reasonably practicable;

(c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and

(d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:

(i) off-site environmental effects; and

(ii) matters which affect the condition of the land and groundwater.

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

4.2 Reporting

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

4.2.2 A report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:

(a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;

(b) the annual production /treatment data set out in schedule 4 table S4.2;

(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 (a) In the event that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—

(i) inform the Environment Agency,

(ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and

(iii) take the measures necessary to prevent further possible incidents or accidents;

(b) in the event of a breach of any permit condition the operator must immediately—

(i) inform the Environment Agency, and

(ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;

(c) in the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.

4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

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

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

Where the operator is a registered company:

(a) any change in the operator's trading name, registered name or registered office address; and

(b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

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

(a) any change in the operator's name or address; and

(b) any steps taken with a view to the dissolution of the operator.

In any other case:

(a) the death of any of the named operators (where the operator consists of more than one named individual);

(b) any change in the operator's name(s) or address(es); and

(c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.

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

(a) the Environment Agency shall be notified at least 14 days before making the change; and

(b) the notification shall contain a description of the proposed change in operation.

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

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

(a) a decision by the Secretary of State not to re-certify the agreement;

(b) a decision by either the operator or the Secretary of State to terminate the agreement; and

(c) any subsequent decision by the Secretary of State to re-certify such an agreement.

4.4 Interpretation

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

4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "without delay", in which case it may be provided by telephone.

Schedule 1 - Operations

Table S1.1 Activities		
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**
Section 5.6 A(1) (a)	Temporary storage of hazardous waste with a total capacity exceeding 50 tonnes (D15)	From receipt of waste for introduction to the treatment process or for storage/disposal off site to a limit of 121,446 tonnes per annum. The maximum storage of waste in the following areas as shown on drawing reference figure 7B dated 27/07/07 and figure 2 dated 27/07/07 (effluent storage): Waste laboratory Small Area to a limit of 30 tonnes, Waste Area Bund A to a limit of 2 tonnes, Waste Area Bund B (Quarantine Bay) to a limit of 80 tonnes, Waste Area Bund C to a limit of 180 tonnes, Waste Area Bund D to a limit of 180 tonnes, Waste Area Bund E to a limit of 180 tonnes, Waste Area Bund F to a limit of 270 tonnes, Waste Area Bund G to a limit of 84 tonnes, Waste Area Bund H to a limit of 84 tonnes, Waste Area Bund I to a limit of 36 tonnes, Waste Area Bund J to a limit of 264 tonnes, Waste Area Bund K to a limit of 288 tonnes, Waste Area Bund L to a limit of 144 tonnes, Waste Area Tank A to a limit of 30 tonnes, Waste Area Tank B to a limit of 30 tonnes, Waste Area Tank C to a limit of 30 tonnes, Waste Area Bund P to a limit of 60 tonnes, Waste Area Bund Q to a limit of 60 tonnes, Waste Area Bund R to a limit of 120 tonnes, Process Tanks A, B and C to a limit of 30 tonnes per tank, Effluent storage tank S14 to a limit of 30 tonnes, Effluent storage tanks T08 and T09 to a limit of 80 tonnes, Effluent storage tanks S16, S17 and S18 to a limit of 120 tonnes, Filter Press House Skips to a limit of 2 x 30 m^3. Waste types to be as specified in Schedule 3 tables S2.2, S2.3, S2.4, S2.5 and S2.6.
Section 4.2 Part A(1) (a) (iii), (iv) and (v)	Producing the following inorganic chemicals: • Ammonium hydroxide • Ammonium chloride • Copper carbonate • Copper ammonium carbonate solution	From raw material intake, storage and handling to storage and handling of waste materials and finished product.

Table S1.1 Activities		
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**
	• Copper Oxide	
Section 5.3 A(1) (a) (ii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (D09)	Acid/alkali Neutralisation of hazardous waste in Process Vessels A, B or C as shown on drawing reference 7B dated 27/07/07 Waste types to be as specified in Schedule 2 table S2.3
Section 5.4 A(1)(a) (ii)	Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving physico-chemical treatment (D09)	Acid/alkali Neutralisation of non-hazardous waste in Process Vessels A, B or C as shown on drawing reference 7B dated 27/07/07 Waste types to be as specified in Schedule 2 table S2.4
Section 5.3 A(1) (a) (ii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (D09)	Reduction/oxidation of hazardous waste in Process Vessels A, B or C as shown on drawing reference 7B dated 27/07/07 Waste types to be as specified in Schedule 2 table S2.3
Section 5.3 A(1) (a) (ii)	Disposal or recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (D09, R03)	Storage and phase separation of waste oil in Process Vessels A, B and C as shown on drawing reference 7B dated 27/07/07 Waste types to be as specified in Schedule 2 tableS 2.2
Section 5.3 A1 (a) (ii)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (D09)	Waste types to be as specified in Schedule 2 table S2.3
Section 5.3 A(1) (a) (iv)	Disposal of hazardous waste with a capacity exceeding 10 tonnes per day involving bulking/repackaging of hazardous waste (D14)	Waste types to be as specified in Schedule 2 tables S2.2 and S2.3
Section 5.4 A(1) (a) (ii)	Disposal of non-hazardous waste with a capacity exceeding 50 tonnes per day involving physico-chemical treatment (D09)	Filtration of non-hazardous waste in the plate and frame press as shown on drawing reference figure 7B dated 27/07/07 Waste types to be as specified in Schedule 2 table S2.4
Section 5.3 A(1) (a) (ii)	Recovery of hazardous waste with a capacity exceeding 10 tonnes per day involving physico-chemical treatment (R04)	Drying of metal rich filter cake to provide a material suitable for metal recycling through smelting Waste types to be as specified in Schedule 2 table S2.6

Table S1.1 Activities		
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**
Directly associated activity Storage of non-hazardous waste	D15 Storage pending any of the operations numbered D01 to D14	Storage to a limit of 500 tonnes. Waste types to be as specified in Schedule 2 table 2.4
Directly associated activity Bulking/repackaging of non-hazardous waste	D14 repackaging prior to submission to any of the operations numbered D01 to D13	Bulking/repackaging pending any S5.4 A1(a)(ii) acid/alkali neutralisation activity or filtration activity.
Directly associated activity Steam generation	Burning of gas oil in a boiler to raise steam	Gas oil receipt, handling and storage
Directly associated activity Storage of non-hazardous waste prior to effluent treatment	D15 Storage pending any of the operations numbered D01 to D14	Storage of non-hazardous waste prior to discharge on site in tank S14 to a limit of 30 tonnes, as shown on drawing reference figure 2 dated 27/07/2007 Waste types to be as specified in Schedule 2 table 2.4
Directly associated activity Effluent treatment plant	D09 Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D01 to D12	Primary effluent treatment in process tanks T8 and T9 to a total storage limit of 50 tonnes and a daily throughput of less than 50 tonnes as shown on drawing reference figure 2 dated 27/07/2007 Waste types to be as specified in Schedule 2 table 2.4
Directly associated activity Disposal of waste	D06 Release into a water body except seas/oceans (storage of site effluent pending its disposal to sewer).	Discharge of non-hazardous waste from Tanks T8 and T9 as shown on drawing reference figure 2 dated 27/07/2007. Waste types to be as specified in Schedule 2 table 2.4
Directly associated activity Tanker and drum washing	D09 Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D01 to D12	Waste types to be as specified in Schedule 2 table S2.4.
Directly associated activity Metal drum/container crushing and/or shredding	R04 Recycling/reclamation of metals and metal compounds D09 Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12	To a limit of 20 tonnes per day. Waste types to be as specified in Schedule 2 table 2.5

Table S1.1 Activities		
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**
Directly associated activity Non-metal drum/container crushing and/or shredding	R03 Recycling/reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes). D09 Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the operations numbered D1 to D12	To a limit of 20 tonnes per day. Waste types to be as specified in Schedule 2 table 2.5

Table S1.2 Operating techniques		
Description	**Parts**	**Date Received**
Application (BT0243IT)	Response to questions 2.1 and 2.2	16/12/2004
Application for Variation SP3831MK	The response to questions 2.1, 2.2, 2.3, 2.8 and 2.10 given in Part B of the application	29/01/2007
Schedule 4 notice request for information dated 21/02/2007	This response updates the response to questions in section 2 of part B of the application	26/03/2007
Phased implementation	Whole letter	31/07/2007
Variation Application EPR/KP3937TY/V003	Part C2 and Supporting Documents C2Var1 to C2Var5 Part C3 and Supporting Documents C3Var1 to C3Var9	31/03/2014
Schedule 5 notice request for information dated 13/05/2014	Resonse to questions 1, 4, 5 and 6	27/05/2014

Table S1.3 Improvement Programme requirements	
Reference	**Requirement**
-	

Table S1.4 Pre-Operation requirements	
Reference	**Requirement**
1, 2, 3, 4	Completed

Schedule 2 - Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels	
Raw material and fuel description	**Specification**
Gas Oil	Less than 0.1% sulphur content.

Table S2.2 Permitted waste types and quantities for storage and treatment (oily wastes)		
EWC Code	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput of 121,466 tonnes per annum**	*
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS	
0105	***Drilling muds and other drilling wastes***	
010505*	Oil-containing drilling muds and wastes	M
010506*	Drilling muds and other drilling wastes containing dangerous substances	M
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL	
0501	***Wastes from petroleum refining***	
050105*	Oil spills	A
050106*	Oily sludges from maintenance operations of the plant or equipment	A
08	**WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS**	
08 03	***Wastes from MFSU of printing inks***	
08 03 19*	disperse oil	A
10	WASTES FROM THERMAL PROCESSES	
10 01	***wastes from power stations and other combustion plants (except 19)***	
10 01 22*	aqueous sludges from boiler cleansing containing dangerous substances	M
10 02	***wastes from the iron and steel industry***	
10 02 11*	wastes from cooling-water treatment containing oil	M
10 03	***wastes from aluminium thermal metallurgy***	
10 03 27*	wastes from cooling-water treatment containing oil	M
10 04	***wastes from lead thermal metallurgy***	
10 04 09*	wastes from cooling-water treatment containing oil	M
10 05	***wastes from zinc thermal metallurgy***	
10 05 08*	wastes from cooling-water treatment containing oil	M
10 06	***wastes from copper thermal metallurgy***	

Table S2.2 Permitted waste types and quantities for storage and treatment (oily wastes)		
EWC Code	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput of 121,466 tonnes per annum**	*
10 06 09*	wastes from cooling-water treatment containing oil	M
10 07	***wastes from silver, gold and platinum thermal metallurgy***	
10 07 07*	wastes from cooling-water treatment containing oil	M
10 08	***wastes from other non-ferrous thermal metallurgy***	
10 08 19*	wastes from cooling-water treatment containing oil	M
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)	A
12 01 07*	mineral-based machining oils free of halogens (except emulsions and solutions)	A
12 01 08*	machining emulsions and solutions containing halogens	A
12 01 09*	machining emulsions and solutions free of halogens	A
12 01 10*	synthetic machining oils	A
12 01 18*	metal sludge (grinding, honing and lapping sludge) containing oil	M
12 01 19*	readily biodegradable machining oil	A
12 03	***wastes from water and steam degreasing processes (except 11)***	
12 03 01*	aqueous washing liquids	A
12 03 02*	steam degreasing wastes	A
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	A
13 01 04*	chlorinated emulsions	A
13 01 05*	non-chlorinated emulsions	A
13 01 09*	mineral-based chlorinated hydraulic oils	A
13 01 10*	mineral based non-chlorinated hydraulic oils	A
13 01 11*	synthetic hydraulic oils	A
13 01 12*	readily biodegradable hydraulic oils	A
13 01 13*	other hydraulic oils	A
13 02	***waste engine, gear and lubricating oils***	
13 02 04*	mineral-based chlorinated engine, gear and lubricating oils	A

Table S2.2 Permitted waste types and quantities for storage and treatment (oily wastes)		
EWC Code	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput of 121,466 tonnes per annum**	*
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils	A
13 02 06*	synthetic engine, gear and lubricating oils	A
13 02 07*	readily biodegradable engine, gear and lubricating oils	A
13 02 08*	other engine, gear and lubricating oils	A
13 03	***waste insulating and heat transmission oils***	
13 03 01*	insulating or heat transmission oils containing PCBs	A
13 03 06*	mineral-based chlorinated insulating and heat transmission oils other than those mentioned in 13 03 01	A
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils	A
13 03 08*	synthetic insulating and heat transmission oils	A
13 03 09*	readily biodegradable insulating and heat transmission oils	A
13 03 10*	other insulating and heat transmission oils	A
13 04	***bilge oils***	
13 04 01*	bilge oils from inland navigation	A
13 04 02*	bilge oils from jetty sewers	A
13 04 03*	bilge oils from other navigation	A
13 05	***oil/water separator contents***	
13 05 01*	solids from grit chambers and oil/water separators	A
13 05 02*	sludges from oil/water separators	A
13 05 03*	interceptor sludges	A
13 05 06*	oil from oil/water separators	A
13 05 07*	oily water from oil/water separators	A
13 05 08*	mixtures of wastes from grit chambers and oil/water separators	A
13 07	***wastes of liquid fuels***	
13 07 01*	fuel oil and diesel	A
13 07 03*	other fuels (including mixtures)	A
13 08	***oil wastes not otherwise specified***	
13 08 01*	desalter sludges or emulsions	A
13 08 02*	other emulsions	A
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST	

Table S2.2 Permitted waste types and quantities for storage and treatment (oily wastes)		
EWC Code	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput of 121,466 tonnes per annum**	*
16 07	***wastes from transport tank, storage tank and barrel cleaning (except 05 and 13)***	
16 07 08*	wastes containing oil	M
16 07 09*	wastes containing other dangerous substances	M
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	
19 01	***wastes from incineration or pyrolysis of waste***	
19 01 06*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes	A
19 02	***wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)***	
19 02 07*	oil and concentrates from separation	A
19 08	***wastes from waste water treatment plants not otherwise specified***	
19 08 10*	grease and oil mixture from oil/water separation other than those mentioned in 19 08 09	M
19 11	***wastes from oil regeneration***	
19 11 03*	aqueous liquid wastes	A
19 11 04*	wastes from cleaning of fuel with bases	A
19 13	***wastes from soil and groundwater remediation***	
19 13 07*	aqueous liquid wastes and aqueous concentrates from groundwater remediation containing dangerous substances	M
20	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	
20 01	***separately collected fractions (except 15 01)***	
20 01 26*	oil and fat other than those mentioned in 20 01 25	M

Note *
A= Absolute Entry - Hazardous Waste regardless of any threshold concentrations
M =Mirror Entry - Hazardous Waste only if dangerous substances are present above threshold concentrations

Table S2.3 Permitted waste types and quantities for storage and treatment (Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
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	A
01 03 05*	other tailings containing dangerous substances	M
01 03 07*	other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals	M
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	M
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	A
03 02 05*	other wood preservatives containing dangerous substances	M
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	M
04 02 19*	sludges from on-site effluent treatment containing dangerous substances	M
05	WASTES FROM PETROLEUM REFINING, NATURAL GAS PURIFICATION AND PYROLYTIC TREATMENT OF COAL	
05 01	***wastes from petroleum refining***	
05 01 02*	desalter sludges	A
05 01 03*	tank bottom sludges	A
05 01 09*	sludges from on-site effluent treatment containing dangerous substances	M
05 01 11*	wastes from cleaning of fuels with bases	A
05 01 12*	oil containing acids	M
05 01 15*	spent filter clays	A
05 07	***wastes from natural gas purification and transportation***	
05 07 01*	wastes containing mercury	M
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	A

Table S2.3 Permitted waste types and quantities for storage and treatment (Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
06 01 02*	hydrochloric acid	A
06 01 03*	hydrofluoric acid	A
06 01 04*	phosphoric and phosphorous acid	A
06 01 05*	nitric acid and nitrous acid	A
06 01 06*	other acids	A
06 02	***wastes from the MFSU of bases***	
06 02 01*	calcium hydroxide	A
06 02 03*	ammonium hydroxide	A
06 02 04*	sodium and potassium hydroxide	A
06 02 05*	other bases	A
06 03	***wastes from the MFSU of salts and their solutions and metallic oxides***	
06 03 13*	solid salts and solutions containing heavy metals	M
06 03 15*	metallic oxides containing heavy metals	M
06 04	***metal-containing wastes other than those mentioned in 06 03***	
06 04 03*	wastes containing arsenic	M
06 04 04*	wastes containing mercury	M
06 04 05*	wastes containing other heavy metals	M
06 05	***sludges from on-site effluent treatment***	
06 05 02*	sludges from on-site effluent treatment containing dangerous substances	M
06 07	***wastes from the MFSU of halogens and halogen chemical processes***	
06 07 02*	activated carbon from chlorine production	A
06 07 04*	solutions and acids, for example contact acid	A
06 09	***wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes***	
06 09 03*	calcium-based reaction wastes containing or contaminated with dangerous substances	M
06 13	***wastes from inorganic chemical processes not otherwise specified***	
06 13 01*	inorganic plant protection products, wood-preserving agents and other biocides.	A
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	A

Table S2.3 Permitted waste types and quantities for storage and treatment (Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
07 01 10*	other filter cakes and spent absorbents	A
07 01 11*	sludges from on-site effluent treatment containing dangerous substances	M
07 02	***wastes from the MFSU of plastics, synthetic rubber and man-made fibres***	
07 02 01*	aqueous washing liquids and mother liquors	A
07 02 10*	other filter cakes and spent absorbents	A
07 02 11*	sludges from on-site effluent treatment containing dangerous substances	M
07 02 14*	wastes from additives containing dangerous substances	M
07 02 16*	wastes containing dangerous silicones	M
07 03	***wastes from the MFSU of organic dyes and pigments (except 06 11)***	
07 03 01*	aqueous washing liquids and mother liquors	A
07 03 10*	other filter cakes and spent absorbents	A
07 03 11*	sludges from on-site effluent treatment containing dangerous substances	M
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	A
07 04 10*	other filter cakes and spent absorbents	A
07 04 11*	sludges from on-site effluent treatment containing dangerous substances	M
07 04 13*	solid wastes containing dangerous substances	M
07 05	***wastes from the MFSU of pharmaceuticals***	
07 05 01*	aqueous washing liquids and mother liquors	A
07 05 10*	other filter cakes and spent absorbents	A
07 05 11*	sludges from on-site effluent treatment containing dangerous substances	M
07 05 13*	solid wastes containing dangerous substances	M
07 06	***wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics***	
07 06 01*	aqueous washing liquids and mother liquors	A
07 06 10*	other filter cakes and spent absorbents	A
07 06 11*	sludges from on-site effluent treatment containing dangerous substances	M
07 07	***wastes from the MFSU of fine chemicals and chemical products not otherwise specified***	
07 07 01*	aqueous washing liquids and mother liquors	A
07 07 10*	other filter cakes and spent absorbents	A

Table S2.3 Permitted waste types and quantities for storage and treatment (Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
07 07 11*	sludges from on-site effluent treatment containing dangerous substances	M
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 13*	sludges from paint or varnish containing organic solvents or other dangerous substances	M
08 01 15*	aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances	M
08 01 17*	wastes from paint or varnish removal containing organic solvents or other dangerous substances	M
08 01 19*	aqueous suspensions containing paint or varnish containing organic solvents or other dangerous substances	M
08 01 21*	waste paint or varnish remover	A
08 03	***wastes from MFSU of printing inks***	
08 03 12*	waste ink containing dangerous substances	M
08 03 14*	ink sludges containing dangerous substances	M
08 03 16*	waste etching solutions	A
08 03 17*	waste printing toner containing dangerous substances	M
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	M
09	WASTES FROM THE PHOTOGRAPHIC INDUSTRY	
09 01	***wastes from the photographic industry***	
09 01 01*	water-based developer and activator solutions	A
09 01 02*	water-based offset plate developer solutions	A
09 01 03*	solvent-based developer solutions	A
09 01 04*	fixer solutions	A
09 01 05*	bleach solutions and bleach fixer solutions	A
09 01 06*	wastes containing silver from on-site treatment of photographic wastes	M
09 01 13*	aqueous liquid waste from on-site reclamation of silver other than those mentioned in 09 01 06	A
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	A

Table S2.3 Permitted waste types and quantities for storage and treatment (Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
10 01 09*	sulphuric acid	A
10 01 13*	fly ash from emulsified hydrocarbons used as fuel	A
10 01 14*	bottom ash, slag and boiler dust from co-incineration containing dangerous substances	M
10 01 16*	fly ash from co-incineration containing dangerous substances	M
10 01 18*	wastes from gas cleaning containing dangerous substances	M
10 01 20*	sludges from on-site effluent treatment containing dangerous substances	M
10 02	***wastes from the iron and steel industry***	
10 02 07*	solid wastes from gas treatment containing dangerous substances	M
10 02 13*	sludges and filter cakes from gas treatment containing dangerous substances	M
10 03	***wastes from aluminium thermal metallurgy***	
10 03 19*	flue-gas dust containing dangerous substances	M
10 03 21*	other particulates and dust (including ball-mill dust) containing dangerous substances	M
10 03 23*	solid wastes from gas treatment containing dangerous substances	M
10 03 25*	sludges and filter cakes from gas treatment containing dangerous substances	M
10 03 29*	wastes from treatment of salt slags and black drosses containing dangerous substances	M
10 04	***wastes from lead thermal metallurgy***	
10 04 03*	calcium arsenate	A
10 04 04*	flue-gas dust	A
10 04 05*	other particulates and dust	A
10 04 06*	solid wastes from gas treatment	A
10 04 07*	sludges and filter cakes from gas treatment	A
10 05	***wastes from zinc thermal metallurgy***	
10 05 05*	solid waste from gas treatment	A
10 05 06*	sludges and filter cakes from gas treatment	A
10 06	***wastes from copper thermal metallurgy***	
10 06 03*	flue-gas dust	A
10 06 06*	solid wastes from gas treatment	A
10 06 07*	sludges and filter cakes from gas treatment	A
10 08	***wastes from other non-ferrous thermal metallurgy***	

Table S2.3 Permitted waste types and quantities for storage and treatment (Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
10 08 15*	flue-gas dust containing dangerous substances	M
10 08 17*	sludges and filter cakes from flue-gas treatment containing dangerous substances	M
10 09	***wastes from casting of ferrous pieces***	
10 09 09*	flue-gas dust containing dangerous substances	M
10 09 11*	other particulates containing dangerous substances	M
10 09 13*	waste binders containing dangerous substances	M
10 09 15*	waste crack-indicating agent containing dangerous substances	M
10 10	***wastes from casting of non-ferrous pieces***	
10 10 09*	flue-gas dust containing dangerous substances	M
10 10 11*	other particulates containing dangerous substances	M
10 10 13*	waste binders containing dangerous substances	M
10 10 15*	waste crack-indicating agent containing dangerous substances	M
10 11	***wastes from manufacture of glass and glass products***	
10 11 09*	waste preparation mixture before thermal processing, containing dangerous substances	M
10 11 13*	glass-polishing and -grinding sludge containing dangerous substances	M
10 11 15*	solid wastes from flue-gas treatment containing dangerous substances	M
10 11 17*	sludges and filter cakes from flue-gas treatment containing dangerous substances	M
10 11 19*	solid wastes from on-site effluent treatment containing dangerous substances	M
10 12	***wastes from manufacture of ceramic goods, bricks, tiles and construction products***	
10 12 09*	solid wastes from gas treatment containing dangerous substances	M
10 12 11*	wastes from glazing containing heavy metals	M
10 13	***wastes from manufacture of cement, lime and plaster and articles and products made from them***	
10 13 12*	solid wastes from gas treatment containing dangerous substances	M
10 14	***waste from crematoria***	
10 14 01*	waste from gas cleaning containing mercury	M
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY	
11 01	***wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)***	
11 01 05*	pickling acids	A

Table S2.3 Permitted waste types and quantities for storage and treatment (Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
11 01 06*	acids not otherwise specified	A
11 01 07*	pickling bases	A
11 01 08*	phosphatising sludges	A
11 01 09*	sludges and filter cakes containing dangerous substances	M
11 01 11*	aqueous rinsing liquids containing dangerous substances	M
11 01 13*	degreasing wastes containing dangerous substances	M
11 01 15*	eluate and sludges from membrane systems or ion exchange systems containing dangerous substances	M
11 01 16*	saturated or spent ion exchange resins	A
11 01 98*	other wastes containing dangerous substances	M
11 02	***wastes from non-ferrous hydrometallurgical processes***	
11 02 02*	sludges from zinc hydrometallurgy (including jarosite, goethite)	A
11 02 05*	wastes from copper hydrometallurgical processes containing dangerous substances	M
11 02 07*	other wastes containing dangerous substances	M
11 05	***wastes from hot galvanising processes***	
11 05 03*	solid wastes from gas treatment	A
11 05 04*	spent flux	A
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 12*	spent waxes and fats	A
12 01 14*	machining sludges containing dangerous substances	M
12 01 16*	waste blasting material containing dangerous substances	M
12 01 20*	spent grinding bodies and grinding materials containing dangerous substances	M
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 03	***off-specification batches and unused products***	
16 03 03*	inorganic wastes containing dangerous substances	M
16 06	***batteries and accumulators***	
16 06 06*	separately collected electrolyte from batteries and accumulators	
16 08	***spent catalysts***	
16 08 02*	spent catalysts containing dangerous transition metals or dangerous transition metal	M

Table S2.3 Permitted waste types and quantities for storage and treatment (Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
	compounds	
16 08 05*	spent catalysts containing phosphoric acid	M
16 08 06*	spent liquids used as catalysts	A
16 08 07*	spent catalysts contaminated with dangerous substances	M
16 09	***oxidising substances***	
16 09 01*	permanganates, for example potassium permanganate	A
16 09 02*	chromates, for example potassium chromate, potassium or sodium dichromate	A
16 09 03*	peroxides, for example hydrogen peroxide	A
16 09 04*	oxidising substances, not otherwise specified	A
16 10	***aqueous liquid wastes destined for off-site treatment***	
16 10 01*	aqueous liquid wastes containing dangerous substances	M
16 10 03*	aqueous concentrates containing dangerous substances	M
17	CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	
17 05	***soil (including excavated soil from contaminated sites), stones and dredging spoil***	
17 05 03*	soil and stones containing dangerous substances	M
17 05 05*	dredging spoil containing dangerous substances	M
17 05 07*	track ballast containing dangerous substances	M
18	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)	
18 02	***wastes from research, diagnosis, treatment or prevention of disease involving animals***	
18 02 05*	chemicals consisting of or containing dangerous substances	M
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	A
19 01 06*	aqueous liquid wastes from gas treatment and other aqueous liquid wastes	A
19 01 07*	solid wastes from gas treatment	A
19 01 10*	spent activated carbon from flue-gas treatment	A
19 01 11*	bottom ash and slag containing dangerous substances	M

Table S2.3 Permitted waste types and quantities for storage and treatment (Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
19 01 13*	fly ash containing dangerous substances	M
19 01 15*	boiler dust containing dangerous substances	M
19 01 17*	pyrolysis wastes containing dangerous substances	M
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	A
19 02 05*	sludges from physico/chemical treatment containing dangerous substances	M
19 02 08*	liquid combustible wastes containing dangerous substances	M
19 02 11*	other wastes containing dangerous substances	M
19 04	***vitrified waste and wastes from vitrification***	
19 04 02*	fly ash and other flue-gas treatment wastes	A
19 04 03*	non-vitrified solid phase	A
19 07	***landfill leachate***	
19 07 02*	landfill leachate containing dangerous substances	M
19 08	***wastes from waste water treatment plants not otherwise specified***	
19 08 06*	saturated or spent ion exchange resins	A
19 08 07*	solutions and sludges from regeneration of ion exchangers	A
19 08 08*	membrane system waste containing heavy metals	M
19 08 11*	sludges containing dangerous substances from biological treatment of industrial waste water	M
19 08 13*	sludges containing dangerous substances from other treatment of industrial waste water	M
19 11	***wastes from oil regeneration***	
19 11 05*	sludges from on-site effluent treatment containing dangerous substances	M
19 11 07*	wastes from flue-gas cleaning	A
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	M
19 13	***wastes from soil and groundwater remediation***	
19 13 03*	sludges from soil remediation containing dangerous substances	M
19 13 05*	sludges from groundwater remediation containing dangerous substances	M

Table S2.3 Permitted waste types and quantities for storage and treatment (Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
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	A
20 01 15*	alkalines	A
20 01 17*	photochemicals	A
20 01 19*	pesticides	A
20 01 27*	paint, inks, adhesives and resins containing dangerous substances	M
20 01 29*	detergents containing dangerous substances	M

Note *
A= Absolute Entry - Hazardous Waste regardless of any threshold concentrations
M =Mirror Entry - Hazardous Waste only if dangerous substances are present above threshold concentrations

Table S2.4 Permitted waste types and quantities for storage and treatment (Non-Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
01	WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS	
01 01	***wastes from mineral excavation***	
01 01 01	wastes from mineral metalliferous excavation	
01 01 02	wastes from mineral non-metalliferous excavation	
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 09	waste sand and clays	
01 04 11	wastes from potash and rock salt processing other than those mentioned in 01 04 07	
01 04 12	tailings and other wastes from washing and cleaning of minerals other than those mentioned in 01 04 07 and 01 04 11	
01 04 13	wastes from stone cutting and sawing other than those mentioned in 01 04 07	
01 05	***drilling muds and other drilling wastes***	
01 05 04	freshwater drilling muds and wastes	
01 05 07	barite-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06	
01 05 08	chloride-containing drilling muds and wastes other than those mentioned in 01 05 05 and 01 05 06	
02	WASTES FROM AGRICULTURE, HORTICULTURE, AQUACULTURE, FORESTRY, HUNTING AND FISHING, FOOD PREPARATION AND PROCESSING	
02 01	***wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing***	
02 01 01	sludges from washing and cleaning	
02 01 07	wastes from forestry	
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 01	sludges from washing and cleaning	
02 02 04	sludges from on-site effluent treatment	
02 03	***wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast***	

Table S2.4 Permitted waste types and quantities for storage and treatment (Non-Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
	extract production, molasses preparation and fermentation	
02 03 01	sludges from washing, cleaning, peeling, centrifuging and separation	
02 03 02	wastes from preserving agents	
02 03 04	materials unsuitable for consumption or processing	
02 03 05	sludges from on-site effluent treatment	
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 02	wastes from preserving agents	
02 06 03	sludges from on-site effluent treatment	
02 07	***wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)***	
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials	
02 07 03	wastes from chemical treatment	
02 07 04	materials unsuitable for consumption or processing	
02 07 05	sludges from on-site effluent treatment	
03	WASTES FROM WOOD PROCESSING AND THE PRODUCTION OF PANELS AND FURNITURE, PULP, PAPER AND CARDBOARD	
03 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 07	mechanically separated rejects from pulping of waste paper and cardboard	
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 02	liming waste	

Table S2.4 Permitted waste types and quantities for storage and treatment (Non-Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
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 09	wastes from dressing and finishing	
04 02	***wastes from the textile industry***	
04 02 10	organic matter from natural products (for example grease, wax)	
04 02 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	
04 02 21	wastes from unprocessed textile fibres	
04 02 22	wastes from processed textile fibres	
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 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	metallic oxides other than those mentioned in 06 03 15	
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 09	***wastes from the MSFU of phosphorous chemicals and phosphorous chemical processes***	
06 09 04	calcium-based reaction wastes other than those mentioned in 06 09 03	

Table S2.4 Permitted waste types and quantities for storage and treatment (Non-Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
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 02 17	wastes containing silicones other than those mentioned in 07 02 16	
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	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	

Table S2.4 Permitted waste types and quantities for storage and treatment (Non-Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
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 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 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	
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 14	sludges and filter cakes from gas treatment other than those mentioned in 10 02 13	

Table S2.4 Permitted waste types and quantities for storage and treatment (Non-Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
10 02 15	other sludges and filter cakes	
10 03	***wastes from aluminium thermal metallurgy***	
10 03 05	waste alumina	
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 09	wastes from cooling-water treatment other than those mentioned in 10 05 08	
10 06	***wastes from copper thermal metallurgy***	
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 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 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 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	

Table S2.4 Permitted waste types and quantities for storage and treatment (Non-Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
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 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 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 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 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 11	wastes from cement-based composite materials other than those mentioned in 10 13 09 and 10 13 10	
10 13 13	solid wastes from gas treatment other than those mentioned in 10 13 12	
10 13 14	waste concrete and concrete sludge	

Table S2.4 Permitted waste types and quantities for storage and treatment (Non-Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY	
11 01	***wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, 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	
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 03	***off-specification batches and unused products***	
16 03 04	inorganic wastes other than those mentioned in 16 03 03	
16 08	***spent catalysts***	
16 08 01	spent catalysts containing gold, silver, rhenium, rhodium, palladium, iridium or platinum (except 16 08 07)	
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	
18	WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (except kitchen and restaurant wastes not arising from immediate health care)	
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	

Table S2.4 Permitted waste types and quantities for storage and treatment (Non-Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
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 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 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 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 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 01	screenings	
19 08 02	waste from desanding	
19 08 05	sludges from treatment of urban waste water	
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 02	sludges from water clarification	
19 09 03	sludges from decarbonation	

Table S2.4 Permitted waste types and quantities for storage and treatment (Non-Hazardous Wastes)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
19 09 05	saturated or spent ion exchange resins	
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***	
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 25	edible oil and fat	
20 01 28	paint, inks, adhesives and resins other than those mentioned in 20 01 27	
20 01 41	wastes from chimney sweeping	
20 02	***garden and park wastes (including cemetery waste)***	
20 02 03	other non-biodegradable wastes	
20 03	***other municipal wastes***	
20 03 03	street-cleaning residues	

Table S2.5 Permitted waste types and quantities for storage and treatment (Drums and Containers)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
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 02	plastic packaging	
15 01 04	metallic packaging	
15 01 05	composite packaging	
15 01 06	mixed packaging	
15 01 10*	packaging containing residues of or contaminated by dangerous substances	M

Note *
A= Absolute Entry - Hazardous Waste regardless of any threshold concentrations
M =Mirror Entry - Hazardous Waste only if dangerous substances are present above threshold concentrations

Table S2.6 Permitted waste types and quantities for storage and treatment (Metal rich Filtercake Dryer)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
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 07*	other wastes containing dangerous substances from physical and chemical processing of metalliferous minerals	M
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	M
06	WASTES FROM INORGANIC CHEMICAL PROCESSES	
06 03	***wastes from the MFSU of salts and their solutions and metallic oxides***	
06 03 13*	solid salts and solutions containing heavy metals	M
06 03 15*	metallic oxides containing heavy metals	M
06 04	***metal-containing wastes other than those mentioned in 06 03***	
06 04 05*	wastes containing other heavy metals	M
06 13	***wastes from inorganic chemical processes not otherwise specified***	
06 13 01*	inorganic plant protection products, wood-preserving agents and other biocides.	A
10	WASTES FROM THERMAL PROCESSES	
10 02	***wastes from the iron and steel industry***	
10 02 13*	sludges and filter cakes from gas treatment containing dangerous substances	M
10 06	***wastes from copper thermal metallurgy***	
10 06 07*	sludges and filter cakes from gas treatment	A
11	WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY	
11 01	***wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphatising, alkaline degreasing, anodising)***	
11 01 09*	sludges and filter cakes containing dangerous substances	M
11 01 16*	saturated or spent ion exchange resins	A
11 02	***wastes from non-ferrous hydrometallurgical processes***	
11 02 05*	wastes from copper hydrometallurgical processes containing dangerous substances	M
11 02 07*	other wastes containing dangerous substances	M
16	WASTES NOT OTHERWISE SPECIFIED IN THE LIST	
16 03	***off-specification batches and unused products***	

Table S2.6 Permitted waste types and quantities for storage and treatment (Metal rich Filtercake Dryer)		
EWC Codes	**Description** **Only the 6 digit codes (including the asterisk as appropriate for hazardous waste) are permitted and a maximum throughput included in the quantity in Table S2.2**	*
16 03 03*	inorganic wastes containing dangerous substances	M
16 08	***spent catalysts***	
16 08 02*	spent catalysts containing dangerous transition metals or dangerous transition metal compounds	M
16 08 07*	spent catalysts contaminated with dangerous substances	M
19	WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	
19 02	***wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)***	
19 02 05*	sludges from physico/chemical treatment containing dangerous substances	M
19 08	***wastes from waste water treatment plants not otherwise specified***	
19 08 08*	membrane system waste containing heavy metals	M

Note *
A= Absolute Entry - Hazardous Waste regardless of any threshold concentrations
M =Mirror Entry - Hazardous Waste only if dangerous substances are present above threshold concentrations

Schedule 3 – Emissions and monitoring

Table S3.1 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 [Note 1]	Ammonia	Ammonina Scrubber Stack	15 mg/m^3	Hourly Average	Continuous	Draeger ammonia sensor
A2 [Note 1]	-	Boiler Stack	-	-	-	-
A3 [Note 1]	Particulates	Copper Oxide Particulate Discharge point	20 mg/m3	Hourly average	Continuous	BS EN 13284-1
A5 [Note 1]	Hydrogen Chloride	Copper Carbonate/ Hydrochloric Discharge point	-	--	Monthly	Manual Measurement using Draeger tube
A6 [Note 2]	Nitrogen Dioxide	Scrubber serving tanks A, B and C	200 mg/m^3	--	During each batch reaction	Manual measurement using Draeger tube
A6 [Note 2]	Sulphur Dioxide	Scrubber serving tanks A, B and C	50 mg/m^3	--	During each batch reaction	Manual measurement using Draeger tube
A6 [Note 2]	Hydrogen Chloride	Scrubber serving tanks A, B and C	10 mg/m^3	--	During each batch reaction	Manual measurement using Draeger tube
A6 [Note 2]	Ammonia	Scrubber serving tanks A, B and C	10 mg/m^3	--	During each batch reaction	Manual measurement using Draeger tube
A6 [Note 2]	Hydrogen Sulphide	Scrubber serving tanks A, B and C	5 mg/m^3	--	During each batch reaction	Manual measurement using Draeger tube
A7 [Note 3]	Particulates	Metal rich dryer discharge point	1 mg/m^3	Hourly average	Continuous	BS EN 13284-1

Note 1: As shown as shown on Appendix A3.4 in application dated 16/12/04

Note 2: As shown on drawing in response to Q3 of schedule 4 notice received 26/03/07 A3.4 in application dated 16/12/04

Note 3: as shown on drawing in C2DryerVar3.mar14 in application EPR/KP3937TY/V003

Table S3.2 Point Source emissions to water (other than sewer) and land – emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (incl. unit)**	**Reference Period**	**Monitoring frequency**	**Monitoring standard or method**
-						

Table S3.3 Point source emissions to sewer, effluent treatment plant or other transfers off-site– emission limits and monitoring requirements						
Emission point ref. & location	**Parameter**	**Source**	**Limit (incl. Unit)**	**Reference period**	**Monitoring frequency**	**Monitoring standard or method**
S1 (Note 1)	Volume	Treated Effluent	-	Per batch	Daily	Level indication on storage tank
S1 (Note 1)	Copper	Process Effluent	100g/ 24hrs as a weekly average	Prior to discharge	Spot sample	BS6068 section 2.60:1998
S1 (Note 1)	Mercury	Process Effluent	0.005 mg/l	Prior to discharge	Spot sample	Atomic fluorescence spectrometry

Note 1: As shown as shown on Appendix A3.4 in application dated 16/12/04

Table S3.4 Annual limits		
Substance	**Medium**	**Limit (including unit)**
Copper	Sewer	20 kg
Mercury	Sewer	0.01 kg

Schedule 4 - Reporting

Table S4.1 Reporting of monitoring data			
Parameter	**Emission or monitoring point/reference**	**Reporting period**	**Period begins**
Ammonia	A1	Quarterly	01/07/2007
Particulates	A3	Quarterly	01/07/2007
Hydrogen Chloride	A5	Quarterly	01/07/2007
Nitrogen Dioxide	A6	Quarterly	01/07/2014
Sulphur Dioxide	A6	Quarterly	01/07/2014
Hydrogen Chloride	A6	Quarterly	01/07/2014
Ammonia	A6	Quarterly	01/07/2014
Hydrogen Sulphide	A6	Quarterly	01/07/2014
Particulates	A7	Quarterly	01/07/2014
Copper	S1	Quarterly	01/07/2007
Mercury	S1	Quarterly	01/07/2007
Copper kg	S1	Annually	01/07/2007
Mercury kg	S1	Annually	01/07/2007

Table S4.2: Annual production/treatment	
Parameter	**Units**
Production of amoniacal based etching solution	tonnes
Production of copper carbonate	tonnes
Effluent discharged to sewer	m^3

Table S4.3 Performance parameters		
Parameter	**Frequency of assessment**	**Units**
Water usage	Annually	m^3
Energy usage	Annually	MWh

Table S4.4 Reporting forms		
Media/parameter	**Reporting format**	**Date of form**
Air	Form A1 or other form as agreed in writing by the Environment Agency	06/08/2007
Sewer	Form S1 or other form as agreed in writing by the Environment Agency	06/08/2007
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	06/08/2007
Energy usage	Form E1 or other form as agreed in writing by the Environment Agency	06/08/2007

Schedule 5 - Notification of abnormal emissions

This page outlines the information that the Operator must provide to satisfy conditions 4.3.1 and 4.3.2 of this Permit.

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

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

Part A

Permit Number	**EPR/KP3937TY**
Name of operator	**Future Industrial Services Limited**
Location of Facility	**Berwick-upon-Tweed Chemical Works** **East Ord Industrial Estate** **Berwick–upon-Tweed** **Northumberland** **TD15 2XF**
Time and date of the detection	

(a) Notification requirements for any activity that gives rise to an incident or accident which significantly affects or may significantly affect the environment	
To be notified Immediately	
Date and time of the event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances(s) potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken, or intended to be taken, to stop any emission	
Description of the failure or accident.	

(b) Notification requirements for the breach of a permit condition	
To be notified immediately	
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**
In the event of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment:	
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.

"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.

"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.

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

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

"hazardous property" has the meaning 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).

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

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

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

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

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

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

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:

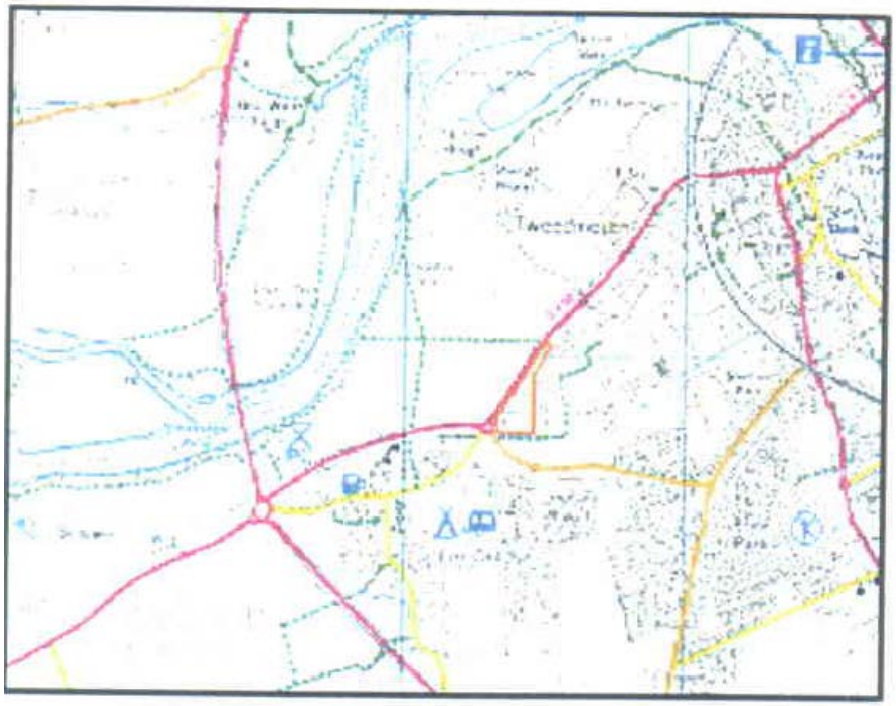
(a) in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid and gaseous fuels, 6% dry for solid fuels; and/or

(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

Site Location



Site Plan