

DEPARTMENT OF THE ENVIRONMENT

Water (Northern Ireland) Order 1999

Consent for a Waste Water Treatment Works Discharge

TO Northern Ireland Water Ltd (The Consent Holder)

Westland House
Old Westland Road
BELFAST
BT14 6TE

Source of discharges

DRUMBEG WASTE WATER TREATMENT WORKS

Nature of discharges

Name of receiving waterway

Discharge A: Secondary treated waste water River Lagan

Discharge B: Settled storm waste water River Lagan

The Department of the Environment in pursuance of the powers conferred on it by the Water (Northern Ireland) Order 1999 HEREBY CONSENTS to your making the discharges stated above to the named receiving waterways in accordance with the application dated 16 February 2005 in respect of discharges from the above named waste water treatment works.

SUBJECT TO the following conditions:

1. LOCATION

- 1.1. The discharge (A) shall consist only of secondary treated waste water from an outlet at grid reference 331310 366660.
- 1.2. The discharge (B) shall consist only of settled storm waste water from an outlet at grid reference 331310 366660.

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2. CONDITIONS

SECONDARY TREATED WASTE WATER (Discharge A)

- 2.1. The volume of secondary treated waste water discharged shall not exceed 919.8 m³/day.
- 2.2. The average Daily Dry Weather Flow (DWF) of secondary treated waste water shall not exceed 363.2 m³/day.
- 2.3. Subject to the condition 5.1 spot samples of secondary treated waste water shall comply with the following limits for the parameters stated below. Each parameter shall be considered individually.

(a) PARAMETER	<u>95 PERCENTILE LIMIT</u>
Biochemical Oxygen Demand in 5 days at 20 °C (nitrification suppressed with allylthiourea)	30 mg/l O ₂
Suspended Solids (measured after drying at 105 °C)	50 mg/l

- (b) By the 1 Dec 2012 the treatment works shall be upgraded to meet the following standards

PARAMETER	<u>95 PERCENTILE LIMIT</u>
Biochemical Oxygen Demand in 5 days at 20 °C (nitrification suppressed with allylthiourea)	30 mg/l O ₂
Suspended Solids (measured after drying at 105 °C)	50 mg/l
Ammoniacal Nitrogen (expressed as N)	20 mg/l N

- 2.4. For the purpose of determining compliance with the conditions in 2.3. (a) and 2.3.(b) the Consent Holder shall take 12 (twelve) spot samples of the effluent at regular but randomised intervals over a 12 month period in accordance with an agreed sampling programme. Note sampling requirements of informative B.

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- 2.5. Compliance with the 95 percentile limits in condition 2.3 (a) and 2.3 (b) will be assessed using the look-up table in Annex 1. The number of samples exceeding the 95 percentile limit for any parameter in any 12 month period shall not exceed the maximum number of permitted exceedences stated in the look-up table, for the given number of samples taken.
- 2.6. During any period of less than 12 months for which this Consent applies, compliance with the 95 percentile standards in condition 2.3(a) and 2.3(b) shall be assessed using the number of samples taken within that period.
- 2.7. The Consent Holder shall forward the analysis results for the parameters stated in condition 2.3 (a) and 2.3 (b) to Northern Ireland Environment Agency on a monthly basis, within two weeks following the end of the month in which the samples were taken.
- 2.8. In as far as is reasonably practicable, the works shall be operated so as to prevent the discharge from containing any significant trace of visible oil or grease.

3. URBAN WASTE WATER TREATMENT REGULATION REQUIREMENTS

- 3.1. The Consent Holder shall comply with the Urban Waste Water Treatment Regulations (Northern Ireland) 2007 (hereafter referred to as the "Regulations").
- 3.2. For the purpose of conditions 3.3 to 3.5., interpretations and references to a numbered regulation or schedule shall have the meaning as in the Regulations, unless otherwise indicated.
- 3.3. The discharge derives from an agglomeration with a population equivalent less than 2,000 discharging to freshwaters in a sensitive area (eutrophic) as identified under Part I (a) of Schedule 1.
- 3.4. The Consent Holder shall inform Northern Ireland Environment Agency in writing of any change, or proposed change, to the population equivalent such as would make a material change to the application of the Regulations and shall, on request, inform Northern Ireland Environment Agency in writing of the actual population equivalent.
- 3.5. The discharge shall be subject to Regulation 7(6)(a) and shall satisfy the requirements of Regulation 7(7)(a).

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4. WORKS OPERATION CONDITION

- 4.1. The works shall be operated and effluent shall be treated in a manner, which, so far as is reasonably practicable, minimises the polluting effects of the discharge made from the works to the receiving waterway.
- 4.2. Condition 4.1 does not require:
- (a) any higher standard to be achieved in relation to any characteristic of the discharge which is specifically regulated by conditions 2.3.(a), 2.3 (b) and 3.5 than is required by those conditions;
 - (b) any alteration of the works or a change in the type of treatment used.

5. UNUSUAL WEATHER CONDITIONS

- 5.1. No sample of secondary treated waste water taken at a time when unusual weather conditions are adversely affecting the operation of the waste water treatment works shall be taken into account in determining compliance with the conditions contained in condition 2.3(a) and 2.3(b) of this Consent.
- 5.2. For the purpose of this condition "unusual weather conditions" shall include:
- (i) low ambient temperature as evidenced by effluent temperature of 5°C or less, or by the freezing of mechanical equipment in the works,
 - (ii) significant snow deposits,
 - (iii) tidal or fluvial flooding,
 - (iv) weather conditions causing unforeseen loss of power to the works which could not be ameliorated by the reasonable provision and operation of standby generator facilities.
- 5.3. On each occasion where unusual weather conditions adversely affect the operation of the waste water treatment works, the Consent Holder shall use its best endeavours to mitigate the adverse effect.

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- 5.4. For an effluent sample to be considered for the purposes of condition 5.1 the Consent Holder shall notify Northern Ireland Environment Agency as soon as unusual weather conditions are known to have adversely affected operations and shall confirm the circumstances in writing as soon as possible thereafter (and in any event within 14 working days of the occurrence of such conditions). The notification shall include a full description of the unusual weather conditions and their impact on the operation of the works. The information shall be entered on the public register.

6. DISCHARGE OF SETTLED STORM WASTE WATER (Discharge B)

- 6.1. The volume of settled storm waste water discharged shall be limited to that which overflows when the storm tanks are full. The discharge of storm waste water to the storm tanks shall only occur when the flow at the storm overflow weir exceeds 10.6 l/sec due to rainfall and/or snow melt.
- 6.2. The Consent Holder shall provide, when requested by Northern Ireland Environment Agency, flow monitoring information to verify the flow at which the storm overflow operates.
- 6.3. The contents of the storm tanks shall be automatically returned for full treatment as soon as practicable after the overflow to the storm tanks has ceased.
- 6.4. The capacity of the storm tanks shall be at least 272 m³.
- 6.5. The discharge shall not contain a significant quantity of solid matter having a size greater than 6 millimetres in more than one dimension and the discharge shall not be comminuted or macerated to achieve this standard.

7. INTERSTAGE PUMPING STATION

- 7.1. The interstage pumping station shall be capable of passing forward for treatment at least 919.8 m³/day (10.6 l/s).
- 7.2. The duty pumps shall automatically reactivate immediately after power is restored following interruption to the supply.
- 7.3. Stand-by pumps shall automatically activate should the duty pumps become inoperative for reasons other than power failure.

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- 7.4 A 24 hour response telemetry alarm system shall be provided to give notification of failure of operation of the interstage pumps. The telemetry alarm system shall be maintained and tested on a regular basis. The Consent Holder shall keep a record of the test results for a period of 2 years and during that time they shall be made available to Northern Ireland Environment Agency upon request.
- 7.5 The Consent Holder shall keep telemetry records for a minimum of 2 years and supply Northern Ireland Environment Agency with a written report on the operation of the interstage pumps on request.
- 7.6 The interstage pumps shall be maintained in good working order, and shall be designed so that individual pumps can be repaired without interfering with the operation of the pumping station or causing a discharge to the storm tanks or to a waterway.

8. GENERAL DISCHARGE CONDITIONS

Power

- 8.1. A permanent stand-by power generator shall be provided and maintained in good working order. The generator shall activate automatically in the event of a failure of the mains power supply. The generator shall be tested on a regular basis to ensure that it is functioning satisfactorily. Records of tests of the generator should be kept for a minimum of 2 years and made available to Northern Ireland Environment Agency on request.
- 8.2. Where there is not a permanent generator on site, provision must for the connection of a portable generator. The Consent Holder must hold an adequate supply of portable generators that fulfil the requirements of condition 8.1.

Sampling

- 8.3. Facilities shall be provided, maintained and labelled so that representative samples of the following can be safely obtained at the stated sample point location:

<u>Type of sample</u>	<u>Easting and Northing</u>
Secondary treated effluent before discharge	331160 366600

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Flow Measurement

- 8.4. Continuous flow recording equipment such that a reading can be readily obtained, shall be provided and operated when requested for a stated period by Northern Ireland Environment Agency to enable the daily volume and instantaneous flows as detailed in condition 8.5 to be recorded. See informative D
- 8.5. Facilities shall be provided to enable the following flows to be measured.

Waste water passing forward for treatment

or

Final effluent discharge flow

and

Storm waste water overflowed

- 8.6. Flow readings recorded by the Consent Holder shall be retained for a period of 2 years and made available to Northern Ireland Environment Agency upon request in a format specified.

Records

- 8.7. All records shall be:
- true and accurate;
 - comprehensible and legible;
 - recorded as soon as practicable after each relevant event;
 - amended in such a way, when amendments are necessary, so as to leave the original entry clear and legible and that the person who has made the amendment is identified.

Access

- 8.8. The Consent Holder shall permit duly authorised representatives of Northern Ireland Environment Agency to enter the premises at all reasonable times under Article 25 of the Water (NI) Order 1999 in order to undertake the functions conferred on Northern Ireland Environment Agency by the Order and to ensure that the conditions of this consent are complied with.

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Priority Pollutants

- 8.9. The Consent Holder shall notify the Northern Ireland Environment Agency in writing if it becomes known that a material change or planned change in the nature of the waste water received has occurred, in respect of discharges from trade premises to the sewerage system, that may increase or introduce into the effluent any 'Priority Pollutant' (as listed in Annex 2 of this Consent and updated from time to time and notified to the Consent Holder in writing), or any other substance considered by the Consent Holder as having or likely to have a significant effect on the receiving waters.

Substantial Change Condition

- 8.10. A discharge shall not be made from the works if it would cause a significant increase in the polluting effects of the discharge on the receiving waterway as a result of a new or altered discharge of trade effluent into the works. See informative E.
- 8.11. An increase in the polluting effects of the discharge on the receiving waterway is not significant for the purposes of condition 8.9 if it relates to any characteristic of the discharge which is specifically regulated by condition 2.3(a), 2.3(b), 2.8 and 3.5 of this consent but it may be significant if it is caused by a change in some other characteristic of the discharge.

Unauthorised Discharge Condition

- 8.12. A discharge made from the works shall not contain any poisonous, noxious or polluting matter or solid waste matter which is attributable to any unauthorised discharge into the works.
- 8.13. A discharge into the works is unauthorised if it is made by a third party and either there is no obligation to receive it, or conditions subject to which there is an obligation to receive it, are not observed.
- 8.14. Nothing in this, or any other condition of this Consent, prevents anyone from relying on any defence available under the Water and Sewerage Services (Northern Ireland) Order 2006 and any amendment thereof.

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Review of Discharge Conditions

- 8.15. This consent may be subject to review in line with the conditions in paragraphs 6 (1) to (5) of Schedule 1 of The Water (NI) Order 1999 subject to the requirements of paragraphs 5 (1) to (7).
- 8.16. In respect of condition 8.15 Northern Ireland Environment Agency may alter any of the conditions of this Consent at any time within 4 years of the date of issue for the purposes of meeting the requirements of the Water Framework Directive or any other European Union Directives as implemented into Northern Ireland legislation or where the formally agreed sewerage system upgrade indicates additional requirements at the waste water treatment works.

CONSENT INFORMATIVES

A Dry Weather Flow

For the purpose of this Consent Dry Weather Flow shall mean the average daily flow to the treatment works during seven consecutive days without rain (excluding a period which includes public holidays), following seven days during which the rainfall did not exceed 0.25 millimetres on any one day.

B Sampling

The Consent Holder shall arrange for spot or composite samples to be taken (depending upon the standards to be assessed in the Consent) at regular but randomised intervals over a 12 month period. The sampling days shall be varied across all days of the week and all months during the 12 month period. In the case of spot samples the time of sampling shall be varied across normal working hours. Any failure to take a sample shall be notified to Northern Ireland Environment Agency as soon as practical and confirmed in writing, providing details of the reason for the failure and what action was taken to address the situation.

The Consent Holder shall arrange for the effluent samples to be analysed for the parameters stated in this Consent by laboratories that have been accredited by a nationally recognised quality accreditation body, such as UKAS. The parameter analysis shall employ the methods contained in the appropriate Blue Book (or it's equivalent) and shall be carried out to the accuracy and precision stipulated in the selected method and shall as a minimum comply with the requirements set out in Annex 10 of the Guidance Note to the Urban Waste Water Treatment Directive (August 1999) and the associated appendices.

C Population Equivalent

The Consent Holder shall inform Northern Ireland Environment Agency in writing of any change, or proposed change, to the population equivalent and shall, upon request, inform Northern Ireland Environment Agency in writing of the actual population equivalent.

D Flow Recording

The use of portable flow measurement equipment at this works may be acceptable to Northern Ireland Environment Agency by agreement in writing and where the environment impact is considered low, measurement may be limited to 1 year in three.

The Consent Holder shall produce and maintain a quality control manual approved by an independent expert and to the satisfaction of Northern

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Ireland Environment Agency, specifying procedures for the calibration, operation and maintenance of the flow recording system. The flow recording equipment shall be calibrated, operated and maintained by the Consent Holder in accordance with the provisions of the manual. The Consent Holder shall keep a record of these procedures available for inspection for a minimum period of 24 months and provide a copy to Northern Ireland Environment Agency upon request.

The Consent Holder shall record all failures of the continuous flow recording system and any breaks in the flow record. The reasons for these failures and breaks shall be recorded and all steps taken to prevent a re-occurrence. The Consent Holder shall ensure that as far as possible the recorded remains operational at all times. Any failures shall be remedied as soon as practicable.

The Consent Holder shall take into account the requirements section 4.6 Appendix 10(i) of Annex 10 of the Guidance Note to the Urban Waste Water Treatment Regulations (Northern Ireland) 1995 in meeting the flow requirements.

E Substantial Change Condition

A discharge of trade effluent into the works is new if:

- (a) it is made by the Consent Holder and is of a kind not made into the works by the Consent Holder immediately before the date this consent takes effect; or
- (b) it is made by a third party and the discharge is authorised on or after that date.

A discharge of trade effluent into the works is altered if:

- (a) it is made by the Consent Holder and its composition or quantity changes significantly on or after the date of this consent; or
- (b) it is made by a third party and the alteration of the discharge is authorised on or after that date.

For the purposes of this condition "trade effluent" means:

- (a) any discharge by the Consent Holder other than:
 - (i) domestic waste water from premises connected directly or indirectly to the works; or
 - (ii) surface water run-off;

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(b) any discharge by a third party which is only accepted as a result of an authorisation by the Sewerage Undertaker.

F Additional Informatives

Any transfer of waste to or from this works by tanker shall comply with the requirements of the Controlled Waste (Duty of Care) Regulations (Northern Ireland) 2002.

The Department considers that bunds should be provided around oil storage or bulk chemical storage tanks and that any chemical should be stored safely in order to reduce the risk of pollution of neighbouring watercourses and groundwater from accidental spillage or leakage.

The drainage of the site should be designed so as to contain any spillages within the site and not discharge such spillages direct to a watercourse.

G Sewerage Undertaker

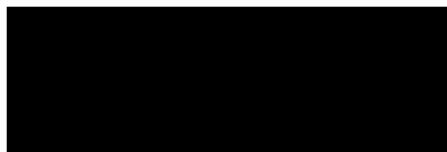
For the purposes of this Consent, Sewerage Undertaker shall mean Northern Ireland Water Ltd.

COMMENCEMENT DATE

This Consent shall take effect from the date of issue.

Previously issued the 30th day of March 2007 and the 30th day of May 2008.

Re-issued on this 20th day of December.



Authorised Officer

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ANNEX 1

Urban Waste Water Treatment Directive Look-up Table

Number of samples taken in any twelve month period	Maximum number of allowed exceedences for any parameter
4-7	1
8-16	2
17-28	3
29-40	4
41-53	5
54-67	6
68-81	7
82-95	8
96-110	9
111-125	10
126-140	11
141-155	12
156-171	13
172-187	14
188-203	15
204-219	16
220-235	17
236-251	18
252-268	19
269-284	20
285-300	21
301-317	22
318-334	23
335-350	24
351-365	25

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ANNEX 2

Priority Pollutant Listing

DANGEROUS SUBSTANCES LIST I	
1	Cadmium (total and dissolved) and its compounds
2	Carbon Tetrachloride (CTC)
3	Chloroform (CF) (Trichloromethane)
4	DDT Isomers (pp-DDE, pp-TDE, op-DDT, pp-DDT)
5	The 'Drins' (Aldrin, Dieldrin, Endrin, Isodrin)
6	1,2-Dichloroethane (EDC)
7	Hexachlorobenzene (HCB)
8	Hexachlorobutadiene (HCBd)
9	hexachlorocyclohexane (α-HCH, β-HCH, γ-HCH (Lindane))
10	Mercury (total and dissolved) and its compounds
11	Pentachlorophenol (PCP)
12	Tetrachloroethene (PER)
13	Trichlorobenzene (1,2,3-TCB, 1,2,4-TCB, 1,3,5-TCB)
14	Trichloroethene (TRI)
DANGEROUS SUBSTANCES LIST II	
15	Boron (total)
16	Chromium (total and dissolved)
17	Copper (total and dissolved)
18	Cyanide
19	Cyfluthrin
20	Iron (total and dissolved)
21	Lead (total and dissolved)
22	Nickel (total and dissolved)
23	Permethrin
24	Vanadium
25	Zinc (total and dissolved)
26	pH (if <5.5 and >9.0)
27	PCSD
28	Sulcofuron
29	Flucofuron
30	Azinphos-ethyl
31	Azinphos-methyl
32	Dichlorovos
33	Endosulphan
34	Fenitrothion
35	Fenthion
36	Malathion
37	Parathion (including parathion Methyl)
38	Simazine
39	Tributyltin
40	Trifuralin
41	Triphenyltin Acetate (Fentin Acetate)
42	Triphenyltin Chloride (Fentin Chloride)
43	Triphenyltin Hydroxide (Fentin Hydroxide)
44	Atrazine
45	2-Amino-4-Chlorophenol
46	Anthracene
47	Arsenic and its mineral compounds
48	Benzene

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49	Benzidine
50	Benzylchloride (Alpha-chlorotoluene)
51	Benzylidenechloride (Alpha,alpha-dichlorotoluene)
52	Biphenyl
53	Chloral Hydrate
54	Clordane
55	Chloroacetic Acid
56	2-Chloroaniline
57	3-Chloroaniline
58	4-Chloroaniline
59	Mono-Chlorobenzene
60	1-Chloro-2,4-Dinitrobenzene
61	2-Chloroethanol
62	4-Chloro-3-Methylphenol
63	1-Chloronaphthalene
64	Chloronaphthalenes (technical mixture)
65	4-Chloronitroaniline
66	1-Chloro-2-Nitrobenzene
67	1-Chloro-3-Nitrobenzene
68	1-Chloro-4-Nitrobenzene
69	4-Chloro-2-Nitrotoluene
70	Chloronitrotoluenes (other than 4-Chloro-2-Nitrotoluene)
71	2-Chlorophenol
72	3-Chlorophenol
73	4-Chlorophenol
74	Chloroprene (2-Chloro-1,3-Butadiene)
75	3-Chloropropene (Allylchloride)
76	2-Chlorotoluene
77	3-Chlorotoluene
78	4-Chlorotoluene
79	2-Chloro-p-Toluidine
80	Chlorotoluidines (Other than 2-Chloro-p-Toluidine)
81	Coumaphos
82	Cyanuric Chloride (2,4,6-Trichloro-1,3,5-Triazine)
83	2,4,D (Including 2,4-D Salts and 2,4-D Esters)
84	Demeton (Including D-O, D-S, D-S-Methyl & D-S-Methyl Sulphone)
85	1,2-Dibromoethane
86	Dibutyltin Dichloride
87	Dibutyltin Oxide
88	Dibutyltin Salts (Other than Dibutyltin Dichloride & Dibutyltin Oxide)
89	Dichloroanilines
90	1,2-Dichlorobenzene
91	1,3-Dichlorobenzene
92	1,4-Dichlorobenzene
93	Dichlorobenzidines
94	Dichloro-Di-Isopropyl Ether
95	1,1-Dichloroethane
96	1,1-Dichloroethylene (Vinylidene Chloride)
97	1,2-Dichloroethylene
98	Dichloromethane
99	Dichloronitrobenzenes
100	2,4-Dichlorophenol
101	1,2-Dichloropropane
102	1,3-Dichloropropan-2-ol

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103	1,3-Dichloropropene
104	2,3-Dichloropropene
105	Dichlorprop
106	Diethylamine
107	Dimethoate
108	Dimethylamine
109	Disulfoton
110	Epichlorohydrin
111	Ethylbenzene
112	Heptaclor (Including Heptachlorepoxyde)
113	Hexachloroethane
114	Isopropyl Benzene
115	Linuron
116	MCPA
117	Mecoprop
118	Methamidophos
119	Mevinphos
120	Monolinuron
121	Napthalene
122	Omethoate
123	Oxy-Demeton-Methyl
124	PAH (With special ref to 3,4-Benzopyrene & 3,4-Benzofluoranthene)
125	PCB (Including PCT)
126	Phoxime
127	Propanil
128	Pyrazon
129	2,4,5-T (Including 2,4,5-T Salts & 2,4,5-T Esters)
130	Tetrabutyltin
131	1,2,4,S-Tetrachlorobenzene
132	1,1,2,2- Tetrachloroethane
133	Toluene
134	Triazophos
135	Tributyl Phosphate
136	Trichlorfon
137	1,1,1-Trichloroethane
138	1,1,2-Trichloroethane
139	Trichlorophenols
140	1,1,2-Tri-Chloro-Tri-Fluoro-Ethane
141	Vinyl Chloride (Chloroethylene)
142	Xylenes (Technical Mixture of Isomers)
143	Bentazone
	Water Framework Directive 2000/60/EC Annex X
	(Other than those pollutants on List I & II above)
144	Alachlor
145	BDEs: Pentabromodiphenylether
146	BDEs: Octabromodiphenylether
147	BDEs: Decabromodiphenylether
148	C10-C13-Chloroalkanes
149	Chloropyrifos
150	Di-(2-ethylhexyl) Phthalate (DEHP)
151	Diuron
152	Isoproturon
153	Nonylphenols: 4-(para)-nonylphenol

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154	Octylphenols: Para-tert-Octylphenol
155	PAH: Fluoroanthene
156	PAH: Benzo(a)pyrene
157	PAH: Benzo(b)fluoroanthene
158	PAH: Benzo(g,h,i)perylene
159	PAH: Benzo(k)fluoroanthene
160	PAH: Indeno(1,2,3-cd)pyrene
161	Chlorfenvinfos
162	Diazinon
163	Propetamphos
164	Pentachlorobenzene
	Metals/Metaloids DSD 76/464/EEC
	(Other than those pollutants on List I & II above)
165	Selenium
166	Antimony
167	Molybdenum
168	Titanium
169	Barium
170	Beryllium
171	Uranium
172	Cobalt
173	Thallium
174	Tellurium
175	Silver

This list is applicable as at the 1st August 2004 and will be updated as and when changes to the requirements of the relevant legislation occur.