

CNTD.D.ØØ58

**Modification Consent to
Discharge**

Water Resources Act 1991
Section 88, Schedule 10
(as amended by the
Environment Act 1995)



Modification of Consent to Discharge

Consent Number: D58

To: Thames Water Limited
Clearwater Court
Vastern Road
Reading
Berkshire
RG1 8DB

Following a review of the conditions of its consent, the **ENVIRONMENT AGENCY** ("The Agency") exercising its powers under paragraph 7(2)(b) of schedule 10 to the Water Resources Act 1991, **HEREBY MODIFIES ITS CONSENT** for making a discharge **OF:**

Treated Sewage Effluent

with respect to Consent No. D58 issued on the 2nd November 1989.

FROM: Little Marlow Sewage Treatment Works

AT: Little Marlow, Buckinghamshire

TO: River Thames

FROM NOW ON the consent is modified as follows:

A. Substitution of the treated sewage effluent dry weather flow condition or maximum flow condition with the following condition:

- (a) The Dry Weather Flow of the discharge shall not exceed 40300 cubic metres per day. The consented Dry Weather Flow limit is set at the Consent Holder's planned annual 80%-exceeded flow.
- (b) In determining compliance with this consent, the measured Dry Weather Flow is that total daily volume that is exceeded by 90% of the recorded measured total daily volume values in any period of 12 months.
- (c) The numeric value of the measured Dry Weather Flow shall not exceed the numeric value of the consented Dry Weather Flow limit.
- (d) If the measured Dry Weather Flow exceeds the consented Dry Weather Flow limit then the Consent Holder shall as soon as is practicable investigate the

reasons for the exceedance. The Consent Holder shall report the reasons for the exceedance to the Environment Agency and the steps that it proposes to take to restore compliance. An exceedance of the Dry Weather Flow limit shall not be recorded as a failure if the Consent Holder takes appropriate steps to restore compliance.

- (e) If the measured Dry Weather Flow exceeds the consented Dry Weather limit because of unusual rainfall during the 12-month period, then it will not be recorded as a failure of the Dry Weather Flow limit. For the purposes of this condition, unusual rainfall shall mean rainfall that causes significantly higher sewage flows during the three-month period that normally records the lowest flows.
- (f) For unusual rainfall to be considered, the Consent Holder shall notify the Agency and provide supporting evidence as part of the normal specified data returns.

And

B. Substitution of the treated sewage effluent flow measurement condition or schedule with the following condition:

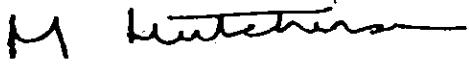
- (a) A continuous flow measurement and recording system ("the flow system") that complies with MCERTS Flow Monitoring scheme shall be provided and operated to record the total daily volume of sewage through the treatment works;
- (b) The flow system shall also measure and record the instantaneous flow at least every 15 minutes or the 15-minute average flow every 15 minutes. The Consent Holder shall provide and operate on-site visual display from which the Agency can readily obtain the instantaneous or 15-minute average flow readings;
- (c) The Consent Holder shall hold records of the total daily volume and the 15-minute flow readings;
- (d) As soon as reasonably practicable after installation of the flow system and before the expiry of any certificate issued, the Consent Holder shall employ an independent expert to clarify that the flow system complies with the MCERTS Flow Monitoring scheme;
- (e) The Consent Holder shall immediately on issue provide a copy of the MCERTS certificate to the Agency and shall provide a copy of the independent expert's report to the Agency on request;
- (f) The Consent Holder shall ensure that the flow system is always subject to a current MCERTS certificate;
- (g) The Consent Holder shall produce and maintain documented procedures for the calibration, operation and maintenance of the flow system ("maintenance procedures");
- (h) The Consent Holder shall employ an independent expert to certify that the maintenance procedures comply with the MCERTS requirements;

- (i) The Consent Holder shall calibrate, operate and maintain the flow system in accordance with the maintenance procedures. The Consent Holder shall keep a record of the maintenance procedures and maintenance records available for inspection of the Agency and provide a copy to the Agency on request;
- (j) The Consent Holder shall produce and maintain a formal Quality Management System ("QMS") for the management of the flow system and the implementation of the maintenance procedures. An appropriate independent certifier shall certify the QMS;
- (k) The Consent Holder shall record all failures of the flow system and any other breaks in the flow record. The reasons for all failures and breaks that lead to missing or suspect total daily volume records and all steps taken to prevent a re-occurrence shall be recorded;
- (l) The Consent Holder shall ensure that the flow system remains fully operational at all times and shall remedy any failures as soon as reasonably practicable;
- (m) The Consent Holder shall provide records of the flow readings and the reasons for any significant breaks in the record when requested, in a format specified by the Agency;
- (n) Flows of sewage through the treatment works shall be measured at a point(s) as is (are) agreed by the Agency.

Under the provisions of Paragraphs 7 and 8 of Schedule 10 to the Water Resources Act 1991, no notice shall be served by the Agency, which alters the effect of modifications made by this notice, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this notice is served.

This consent modification is served and takes effect on 1st April 2010

Signed

A rectangular box containing a handwritten signature in black ink. The signature appears to be 'M Hutchinson'.

Mark Hutchinson - Permitting Team Leader

NOTE. All other conditions of this consent remain unaltered and in force. This modification of consent should be read in conjunction with, and attached to the Schedule of Consent No. D58



WATER RESOURCES ACT 1991

**SECTION 88 - SCHEDULE 10
(AS AMENDED BY THE ENVIRONMENT ACT 1995)**

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

TO: Thames Water Utilities Limited ("the Consent Holder")
Clearwater Court
Vastern Road
Reading
Berkshire
RG1 8DB

Following a review of the conditions of its consent, the ENVIRONMENT AGENCY ("the Agency") exercising its powers under paragraph 7(2)(b) of Schedule 10 to the Water Resources Act 1991, HEREBY MODIFIES ITS CONSENTS for making discharges

OF: Treated Sewage Effluent

with respect to the attached list of consents, (List 1)

FROM the date upon which this modification takes effect, each of the consents in the attached List 1 is modified as follows:

Addition of the following new conditions OSM 1 – OSM 13 and Annexes OSM1 and LUT1 as specified in this notice of modification

NOTE. This modification notice wholly replaces previous modification notices for Consent No. List 1, which were issued on 14th October 2008, 12th January 2009 and 26th January 2009.

All other conditions of the consents in List 1 remain unaltered and in force. This notice of modification should be read in conjunction with, and attached to each consent as specified in the attached list of consents or schedules to consents.

Where a discharge is regulated by a schedule to a consent, then the wording in these conditions shall be taken as referring to that schedule in place of the term 'consent'.

Under the provisions of Paragraphs 7 and 8 of Schedule 10 to the Water Resources Act 1991, no notice shall be served by the Agency, which alters the effect of modifications made by this notice, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this notice is served.

This modification is served on 28th day of January 2009

This modification takes effect on 1st April 2009 or a later date agreed in writing by the Agency but no later than 1st January 2010.

Signed 

**Mark Hutchinson
Permitting Team Leader**

New conditions added: Operator Self Monitoring (OSM) conditions

OSM Monitoring programme

OSM 1 The Consent Holder shall, unless otherwise agreed in writing by the Agency, undertake a monitoring programme for the parameters specified by this consent which control the effluent quality by numeric limits, at not less than the frequencies specified in Annex OSM 1 to this permit.

This does not include List 1 substances included within a consent in the General Standards Table.

OSM 2 The monitoring programme referred to in condition OSM1 shall:

- (a) cover a calendar year, and
- (b) be recorded and referred to in a Quality Management System before the commencement of a calendar year sample period.

QMS and MCERTS

OSM 3 The Consent Holder shall have an appropriate Quality Management System covering Operator Self Monitoring.

OSM 4 The Consent Holder shall ensure that appropriate actions and activities carried out to fulfil the requirements of condition OSM1 are recorded.

OSM 5 Any sampling or analysis carried out to fulfil the requirements of condition OSM 1 shall be managed and operated by the Consent Holder or its appointed organisation or organisations in accordance with ISO 17025 for the MCERTS Performance Standard for Organisations Undertaking Sampling and Chemical Testing of Water (Part1) to the reasonable satisfaction of the Agency.

- OSM 6
- (a) **For the period up to 1 July 2010**, any organisation undertaking sampling and analysis to fulfil the requirements of condition OSM1 shall have applied for accreditation to ISO 17025 for the MCERTS Performance Standard for Organisations Undertaking Sampling and Chemical Testing of Water (Part1), unless otherwise agreed in writing by the Agency, and
 - (b) **From 1 July 2010**, any organisation undertaking sampling and analysis to fulfil the requirements of condition OSM1 shall have gained accreditation to ISO 17025 for the MCERTS Performance Standard for Organisations Undertaking Sampling and Chemical Testing of Water (Part1), unless otherwise agreed in writing by the Agency.

OSM7 The Consent Holder shall ensure that all required records of compliance and accreditation with ISO 17025 for the MCERTS Performance Standard for Organisations Undertaking Sampling and Chemical Testing of Water (Part 1) are maintained.

Records

- OSM 8** All records required to be made by this consent shall:
- (a) be legible, and
 - (b) be made as soon as reasonably practicable, and
 - (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 Agency, for at least 6 years from the date when the records were made, and
 - (e) where the records have been requested in writing by the Agency, copies shall be supplied to the Agency within 14 days, unless otherwise agreed in writing by the Agency,

Reporting routine analysis

- OSM 9** The analytical results from the monitoring programme required by condition OSM 1 must be supplied to the Agency in an electronic format defined by the Agency, as soon as is reasonably practical for each result, and at least on a quarterly basis.

Reporting exceedances

- OSM 10** When the Consent Holder becomes aware that a sample result has exceeded a numeric water quality limit specified within this Consent, (including those covered by the Look-up Table) the Consent Holder shall, unless prior agreement has been given in writing by the Agency, notify the Agency as soon as is reasonably practicable by a reporting system and format specified by the Agency.
- OSM 11** When the Consent Holder becomes aware that the Discharge is not compliant with the Look-up Table (as set out in Annex LUT1) for a numeric water quality limit specified within this Consent, the Consent Holder shall, unless prior agreement has been given in writing by the Agency, notify the Agency as soon as is reasonably practicable by a reporting system and format specified by the Agency.

Reporting sample missed or lost

- OSM 12** After becoming aware, or following notification that, a sample has not been taken on the Monitoring Programme pre-scheduled date, or is lost, or a result for that sample can not be reported, the Consent Holder shall record the details and reschedule the sample.

Annual monitoring summary compliance report

- OSM 13** A summary report :
- (a) of compliance with the monitoring programme referred to in condition OSM1 shall be made for each calendar year, and
 - (b) shall be submitted to the Agency within two months following the end of the year and shall have the data summarised and shall be in the format required by the Agency.

Annex OSM1 – Opra Tier 3 Sampling Frequency

Determinand	Normal frequency of samples per year	Reduced Sampling frequency after 12 consecutive months of numeric consent compliance, samples per year or pro rata over the remainder of a year	On consent failure return to Normal frequency as soon as reasonably practicable, samples per 12 months	Out of hours samples
Sanitary	24	12	24	For 24 samples 2 out of hours samples per annum
Non sanitary	12	12	12	For 12 samples 1 out of hours sample per annum

Annex OSM1 relates to spot samples which must be collected at approximately equal intervals during the year, but should include samples from different days of the week and different times. Approximately 10% of samples should be outside of the normal sampling window which is 9am - 3pm, Monday to Friday.

Annex LUT 1

Series of samples taken in any period of 12 consecutive months	Maximum number of samples for a given determinand permitted to exceed limit
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



ENVIRONMENT AGENCY

**WATER RESOURCES ACT 1991
Section 88 - Schedule 10
(as amended by the Environment Act 1995)**

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

To: Thames Water Utilities Ltd.
FAO: The Secretary
Clearwater Court
Vastern Road
READING
Berkshire RG1 8DB

WHEREAS the Environment Agency (the "Agency") in pursuance of its powers under the Water Resources Act 1991 **GRANTED CONSENT** to the making of a discharge of treated sewage effluent on the 2nd day of November 1989 and subsequently modified on the 18th day of December 1998

FROM: Little Marlow Sewage Treatment Works, Buckinghamshire

NOTICE IS GIVEN that all Conditions, Schedules and Annexes of the above consent are hereby deleted and replaced by the conditions set out in the following schedules:

Schedule 01	Treated Sewage Effluent
Schedule 02	Settled Storm Sewage
Schedule U	Treated Urban Waste Water

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 to the Water Resources Act 1991 (as amended by Schedule 22 to the Environment Act 1995), no notice shall be served by the Agency, which alters the modifications made by this notice, without the agreement in writing of the Consent Holder, during a period of 4 years from the date this notice is served.

Date Issued: 31st March 2005

Date Effective from: 1st April 2005

Signed: *[Signature]*

Team Leader, Regulatory Water Quality
West Area of Thames Region.

NOTE: Consent D58 is updated accordingly.



CONDITIONS OF CONSENT TO DISCHARGE

TREATED SEWAGE EFFLUENT ("the Discharge")

FROM: LITTLE MARLOW SEWAGE TREATMENT WORKS

1. a) The works shall be operated and the effluent shall be treated in a manner which, so far as reasonably practicable, minimises the polluting effects of the discharge made from the works on controlled waters.
b) This condition does not require:
 - i) any higher standard to be achieved in relation to any characteristic of the discharge which is specifically regulated by conditions 7, 8, 9 and 10 than is required by those conditions;
 - ii) any alteration of the works or a change in the type of treatment used.
2. The discharge shall consist solely of treated sewage effluent.
3. The discharge shall be made in the manner and at the place as specified as:
 - a) discharging by means of a pipe outlet
 - b) discharging to the River Thames
 - c) at National Grid Reference SU 8771 8696.
4. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SU 8731 8740, so that a representative sample of the Discharge may be obtained. The consent holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.
5. The volume of the Discharge shall not exceed 124,600 cubic metres per day.
6. a) A continuous flow measurement and recording system, to a specification provided by the Agency, shall be provided and operated to record the total daily volume, and the instantaneous or 15-minute integrated flow every 15 minutes of the discharge. An on-site visual display from which instantaneous or 15-minute integrated flow readings can be readily obtained by the Agency shall be provided and operated. The Consent Holder shall hold records of the flow readings.

- b) As soon as practicable after completion of the flow system installation and subsequently on the expiry of any certificate issued, the Consent Holder shall employ an independent expert to certify that the installation and its quality management system complies with the Agency's specification. The independent expert shall be accredited to a competency scheme approved by the Agency. A copy of the certificate shall be sent to the Agency and the certifier's report shall be provided to the Agency on request. If a certificate issued for a flow system has no expiry date included then the certificate shall be deemed to expire five years after the issue date of the certificate.
 - c) The Consent Holder shall produce and maintain a documented quality management system, approved by the independent expert and to the satisfaction of the Agency, specifying procedures for the calibration, operation and maintenance of the flow measurement equipment. The flow measurement equipment shall be calibrated, operated and maintained by the Consent Holder in accordance with the provisions of the QMS. The Consent Holder shall keep a record of these procedures available for inspection by the Agency and provide a copy to the Agency on request.
 - d) The Consent Holder shall record all failures of the continuous flow measurement system and any other breaks in the flow record. The reasons for all significant failures and breaks, which lead to missing or suspect data, and all steps taken to prevent a re-occurrence shall be recorded and details shall be provided to the Agency on request. A failure or break is significant for the purposes of this condition if it prevents the calculation of the total daily volume to the required level of uncertainty. The Consent Holder shall ensure that as far as possible the recorder remains fully operational at all times. Any failures shall be remedied as soon as possible.
 - e) Records of the flow readings or the reasons for any breaks in the record, as described in condition d) above, shall be provided to the Agency when requested, in a format specified by the Agency.
 - f) Flows of sewage through the treatment works shall be measured at the inlet or such other point(s) as are agreed by the Agency.
7. a) Subject to paragraph (b) below the Discharge shall not contain more than;
- i) 35 milligrammes per litre of suspended solids (measured after drying at 105° C)
 - ii) 20 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20° C with nitrification suppressed by the addition of allyl-thiourea)
 - iii) 5 milligrammes per litre of ammoniacal nitrogen (expressed as N).
- b) The limit for any of the relevant parameters set out in paragraph (a) above may be exceeded where, in any series of samples of the Discharge taken at regular but randomised intervals in any period of twelve consecutive months as listed in Column 1 of the table at Annexe 1 to this consent, not more than the relevant number of samples, as listed in Column 2 of said table, exceed the applicable limit for that relevant parameter.

8. The Discharge shall not contain more than;
- i) 56 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20° C with nitrification suppressed by the addition of allylthiourea)
 - ii) 20 milligrammes per litre of ammoniacal nitrogen (expressed as N).
9. The Discharge shall not contain more than:
- i) 5 milligrammes per litre of total iron
 - ii) 4 milligrammes per litre of total aluminium.
10. 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.
11. a) Subject to paragraph (c) below, the chemical dosing material(s) employed in the phosphorus removal process shall be of an iron or polyaluminium salt formulation as notified to the Agency in writing prior to use.
- b) The chemical dosing material shall at all times conform to the British Standards specification(s) relating to potable products or other equivalent specification as agreed in writing with the Agency prior to use. Copies of the documentation of the quality assurance system shall be made available for inspection by officers of the Agency at all reasonable times.
- c) The chemical formulation of the chemical dosing material shall not be changed without the prior written agreement of the Agency and such agreement shall only be given if the Agency considers that the relevant chemical formulation is unlikely to have an appreciable effect on controlled waters in the locality of the discharge.
12. A telemetry alarm system connected to a 24 hour response system shall be provided and maintained to provide notification of failure or breakdown of the chemical dosing plant.
13. The chemical dosing plant shall be operated and maintained in accordance with good operational practice such that:
- a) It remains fully operational except at times of unavoidable mechanical or electrical breakdown which shall be attended to, and the Agency informed of the failure, as soon as practicable after the failure;
 - b) Following a failure all equipment shall be returned to normal operation as soon as practicable;
 - c) Tanks shall be desludged at sufficient frequency and in such a manner to prevent excessive carryover of suspended solids.
14. a) No sample of the discharge, taken at a time when unusual weather conditions are adversely affecting the operation of the sewage treatment works, shall be taken into account in deciding whether or not the conditions contained in paragraphs 1, 7 and 8 of this consent have been complied with.

- b) For the purpose of this condition 'unusual weather conditions' shall include:-
 - i) low ambient temperatures as evidenced by effluent temperatures 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 supply to the sewage treatment which could not be ameliorated by the reasonable provision and operation of standby generation facilities.
 - c) On any occasion where unusual weather conditions adversely affect the operation of the sewage treatment works, the consent holder shall use its best endeavours to mitigate that adverse affect.
 - d) For a sample of the discharge to be considered for the purposes of (a) above, the consent holder shall notify the Agency by telefax or telephone as soon as unusual weather conditions are known to have adversely affected operations and shall confirm the circumstance in writing as soon as possible thereafter (and in any event within 14 days of the occurrence of such conditions). That notification shall include a full description of the unusual weather conditions and their impact on the operation of the works.
- 15.
- a) A discharge shall not be made from the works if it would cause a significant increase in the polluting effects of the discharge on controlled waters as a result of a new or altered discharge of trade effluent into the works.
 - b) A discharge of trade effluent into the works is new if:
 - i) it is made by the sewerage undertaker and is of a kind not made into the works by the undertaker immediately before the date of this consent; or
 - iii) it is made by a third party and the discharge is authorised on or after that date.
 - c) A discharge of trade effluent into the works is altered if:
 - i) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of this consent; or
 - ii) it is made by a third party and the alteration of the discharge is authorised on or after that date.
 - d) An increase in the polluting effects of the discharge on controlled waters is not significant for the purposes of this condition if it relates to any characteristic of the discharge which is specifically regulated by conditions 7, 8, 9 and 10 of this consent but it may be significant if it is caused by a change in some other characteristic of the discharge.

- e) For the purposes of this condition 'trade effluent' means:
 - i) any discharge by a sewerage undertaker other than
 - 1) domestic sewage from premises connected directly or indirectly to the works; or
 - 2) surface water run-off;
 - ii) any discharge by a third party which is authorised under Chapter III of Part IV of the Water Industry Act 1991 or which is only accepted as a result of a contract with the sewerage undertaker.

- 16. a) 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.

- b) 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.

- c) Nothing in this, or any other, condition of this consent prevents anyone from relying on any defence available to them under section 87 of the Water Resources Act 1991.

Consent: D58

Updated: 31 MAR 2005

ANNEXE 1

The limit for any of the relevant parameters set out in paragraph 7 of Schedule 1 of the attached consent may be exceeded where, in any series of samples of the discharge taken at regular but randomised intervals in any period of twelve consecutive months, as listed in Column 1 of the table below, no more than the relevant number of samples, as listed in Column 2 of the said table, exceed the applicable limit for that relevant parameter.

TABLE

<u>Column 1</u>	<u>Column 2</u>
Series of samples taken in any period of twelve months	Maximum number of samples for a given determinand permitted to exceed limit
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



CONDITIONS OF CONSENT TO DISCHARGE

STORM SEWAGE ("the Discharge")

FROM: LITTLE MARLOW SEWAGE TREATMENT WORKS

1.
 - a) The works shall be operated and the effluent shall be treated in a manner which, so far as reasonably practicable, minimises the polluting effects of the discharge made from the works on controlled waters.
 - b) This condition does not require any alteration of the works or a change in the type of treatment used.
2. The Discharge shall consist solely of storm sewage.
3. The discharge shall be made in the manner and at the place as specified as:
 - a) discharging by means of a pipe outlet
 - b) discharging to the River Thames
 - c) at National Grid Reference SU 8771 8696
4. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SU 8761 8720, so that a representative sample of the Discharge may be obtained. The consent holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.
5. The discharge shall occur when and only for as long as the storm tank(s) are full. The discharge of storm sewage to the storm tank(s) shall only occur when the rate of flow at the storm sewage separating weir is in excess of 1442 litres per second due to rainfall and/or snow melt. The storm tank(s) shall be emptied and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tank(s).
6. The capacity of the storm tank(s) shall be at least 10,383 cubic metres.
7.
 - a) The Discharge shall not contain a significant quantity of solid matter having a size greater than 6 millimetres in more than two dimensions.
 - b) The Discharge shall not be comminuted or macerated to achieve the standard in (a) above.



8. a) A discharge shall not be made from the works if it would cause a significant increase in the polluting effects of the discharge on controlled waters as a result of a new or altered discharge of trade effluent into the works.
- b) A discharge of trade effluent into the works is new if -
- (i) it is made by the sewerage undertaker and is of a kind not made into the works by the undertaker immediately before the date of effect of this consent; or
 - (ii) it is made by a third party and the discharge is authorised on or after that date.
- c) A discharge of trade effluent into the works is altered if -
- (i) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of effect of this consent; or
 - (ii) it is made by a third party and the alteration of the discharge is authorised on or after that date.
- d) An increase in the polluting effects of the discharge on controlled waters is not significant for the purposes of this condition if it relates to any characteristics of the discharge which are specifically regulated by other conditions of this consent schedule but it may be significant if it is caused by a change in some other characteristic of the discharge.
- e) For the purposes of this condition "trade effluent" means -
- (i) any discharge by the sewerage undertaker other than
 - (1) domestic sewage from premises connected directly or indirectly to the works; or
 - (2) surface water run-off;
 - (ii) any discharge by a third party which is authorised under Chapter III of Part IV of the Water Industry Act 1991 or which is only accepted as a result of a contract with the sewerage undertaker.
9. a) 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.
- b) 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.
- c) Nothing in this, or any other, condition of this consent prevents anyone from relying on any defence available to them under Section 87 of the Water Resources Act 1991.

31 MAR 2003



CONDITIONS OF CONSENT TO DISCHARGE

STORM SEWAGE ("the Discharge")

FROM: LITTLE MARLOW SEWAGE TREATMENT WORKS

1. a) The works shall be operated and the effluent shall be treated in a manner which, so far as reasonably practicable, minimises the polluting effects of the discharge made from the works on controlled waters.
b) This condition does not require any alteration of the works or a change in the type of treatment used.
2. The Discharge shall consist solely of storm sewage.
3. The discharge shall be made in the manner and at the place as specified as:
 - a) discharging by means of a pipe outlet
 - b) discharging to the River Thames
 - c) at National Grid Reference SU 8772 8696
4. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SU 8772 8696, so that a representative sample of the Discharge may be obtained. The consent holder shall ensure that all constituents of the Discharge pass through the said sampling point at all times and in any legal proceedings it shall, for the purposes of Section 10 of the Rivers (Prevention of Pollution) Act 1961, be presumed, until the contrary is shown that any sample of the Discharge taken at the said sampling point is a sample of what was discharging into controlled waters.
5. The discharge shall occur when and only for as long as the storm tank(s) are full. The discharge of storm sewage to the storm tank(s) shall only occur when the rate of flow at the storm sewage separating weir is in excess of 1442 litres per second due to rainfall and/or snow melt. The storm tank(s) shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tank(s).
6. The capacity of the storm tank(s) shall be at least 10,383 cubic metres.
7. a) The Discharge shall not contain a significant quantity of solid matter having a size greater than 6 millimetres in more than two dimensions.
b) The Discharge shall not be comminuted or macerated to achieve the standard in (a) above.

8. a) A discharge shall not be made from the works if it would cause a significant increase in the polluting effects of the discharge on controlled waters as a result of a new or altered discharge of trade effluent into the works.
- b) A discharge of trade effluent into the works is new if -
- (i) it is made by the sewerage undertaker and is of a kind not made into the works by the undertaker immediately before the date of effect of this consent; or
 - (ii) it is made by a third party and the discharge is authorised on or after that date.
- c) A discharge of trade effluent into the works is altered if -
- (i) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of effect of this consent; or
 - (ii) it is made by a third party and the alteration of the discharge is authorised on or after that date.
- d) An increase in the polluting effects of the discharge on controlled waters is not significant for the purposes of this condition if it relates to any characteristics of the discharge which are specifically regulated by other conditions of this consent schedule but it may be significant if it is caused by a change in some other characteristic of the discharge.
- e) For the purposes of this condition "trade effluent" means -
- (i) any discharge by the sewerage undertaker other than
 - (1) domestic sewage from premises connected directly or indirectly to the works; or
 - (2) surface water run-off;
 - (ii) any discharge by a third party which is authorised under Chapter III of Part IV of the Water Industry Act 1991 or which is only accepted as a result of a contract with the sewerage undertaker.
9. a) 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.
- b) 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.
- c) Nothing in this, or any other, condition of this consent prevents anyone from relying on any defence available to them under Section 87 of the Water Resources Act 1991.

10.

- a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected the operation of the storm tank(s). Copies of the programme shall be made available for inspection by the Agency's officers at all reasonable times.

- b) On request the Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions that may have adversely affected the operation of the storm tank(s).

ENVIRONMENT AGENCY

**WATER RESOURCES ACT 1991
Section 88 - Schedule 10
(as amended by the Environment Act 1995)**

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

To: Thames Water Utilities Ltd.
Gainsborough House
Manor Farm Road
READING
Berkshire RG2 0JN

WHEREAS the Agency in pursuance of its powers under the Water Resources Act 1991 **GRANTED CONSENT** to the making of a discharge of sewage effluent on the 13th day of November 1989

FROM Little Marlow Sewage Treatment Works, Little Marlow, Buckinghamshire

NOTICE IS GIVEN that for the purposes of implementing the requirements of the Urban Waste Water Treatment Regulations 1994, the conditions specified in **Schedule U** as attached are hereby appended to the consent as Schedule U.

Dated: 18 DEC 1998 **Signed:**



Regional Water Quality Manager
Thames Region

NOTE: All other conditions of the consent remain in force.
Consent D.58 is updated accordingly.

CONDITIONS OF CONSENT TO DISCHARGE

TREATED URBAN WASTE WATER ("the Discharge")

FROM: LITTLE MARLOW SEWAGE TREATMENT WORKS, BUCKINGHAMSHIRE

- U0 (a) The Consent Holder shall comply with the Urban Waste Water Treatment (England and Wales) Regulations 1994 ("the Regulations").
- (b) For the purpose of conditions U1 and U2 below, interpretations and references to a numbered regulation or Schedule shall have the meaning as in the Regulations, unless otherwise indicated.
- U1 (a) The Discharge derives from an agglomeration with a population equivalent of between 15,000 and 150,000 discharging to fresh waters in a Sensitive Area (Eutrophic) as identified under Part I (a) of Schedule 1.
- (b) The Consent Holder shall inform the 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 the Agency in writing of the actual population equivalent.
- (c) The Discharge shall be subject to Regulation 5(2). The Discharge shall satisfy the relevant requirements of Part I of Schedule 3 and conform to the Total Phosphorus requirements of Table 2 to that Schedule.
- U2 (a) The Consent Holder shall provide apparatus for the purpose of:
(i) measuring or recording the volume, rate of flow, nature, composition or temperature,
and (ii) collecting samples of any waste water,
as is necessary to ensure compliance with paragraph (b) below.
- (b) The Consent Holder shall monitor the Discharge to verify compliance with the requirements of condition U1(c) above in accordance with the control procedures as set out in Part II of Schedule 3.
- (c) The Consent Holder shall provide to the Agency any information collected in complying with paragraph (b) above in a manner agreed with the Agency.
- U3 (a) Condition U2 above shall apply for the purpose of verifying compliance with the Directive from the date as specified in the relevant paragraph of Regulation 5 as incorporated into this consent under condition U1(c) above.



DEPARTMENT OF THE ENVIRONMENT

WATER ACT 1989

DIRECTION TO THE NATIONAL RIVERS AUTHORITY ("THE AUTHORITY")
TO GRANT A CONSENT TO THAMES WATER UTILITIES LIMITED ("THE COMPANY")

WHEREAS:-

(a) the THAMES Water Authority submitted an application to the Secretary of State dated 28 March 1989, in accordance with section 34 of the Control of Pollution Act 1974, as modified by the Control of Pollution (Discharges by Authorities) Regulations 1984, to discharge sewage effluent into the River Thames from Little Marlow Sewage Treatment Works ("the proposed discharge");

(b) that application is deemed by virtue of paragraph 25(2) (a) of Schedule 26 to the Water Act 1989 to have been made by the Company to the Authority, and the Secretary of State has determined that paragraph 25(3) of that Schedule is to apply to that application;

NOW THEREFORE the Secretary of State, in exercise of his power under paragraph 4(7) and 6(4) of Schedule 12 to the Water Act 1989, hereby directs the Authority:-

- 1) to grant a consent to the Company for the proposed discharge subject to the conditions set out in the Schedule hereto; and
- 2) to revoke any previous consents in respect of the proposed discharge.

Signed on behalf of
the Secretary of State
for the Environment

2 NOV 1989

WATER ACT 1989
CONSENT TO DISCHARGE SEWAGE EFFLUENT INTO THE RIVER THAMES.

WHEREAS:-

(a) the THAMES Water Authority submitted an application to the Secretary of State dated 28 March 1989, in accordance with section 34 of the Control of Pollution Act 1974, as modified by the Control of Pollution (Discharges by Authorities) Regulations 1984, to discharge sewage effluent into the River Thames from Little Marlow Sewage Treatment Works ("the proposed discharge");

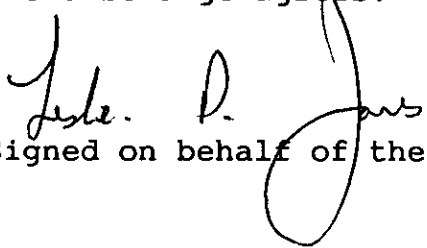
(b) that application is deemed by virtue of paragraph 25(2) (a) of Schedule 26 to the Water Act 1989 to have been made by Thames Water Utilities Limited ("the Company") to the National Rivers Authority ("the Authority"), and the Secretary of State has determined that paragraph 25(3) of that Schedule is to apply to that application;

(c) the Secretary of State, in exercise of his powers under paragraph 4(7) and 6(4) of Schedule 12 to the Water Act 1989, has directed the Authority to issue the following consent for the proposed discharge and to revoke all previous consents relating to that discharge.

NOW THEREFORE the Authority, in exercise of its powers under paragraphs 2 and 6 of Schedule 12 to the Water Act 1989:-

- (a) grants a consent to the proposed discharge subject to the conditions set out in the Schedule hereto; and
- (b) revokes all existing consents relating to the proposed discharge.

The period during which no notice by virtue of paragraph 6(2) or (4)(c) of Schedule 12 to the Water Act 1989 shall be served in respect of the consent shall be the period ending on the date two years from the date of this consent, or the date specified in paragraph C.1.i of the Schedule hereto, whichever shall be later, or such other date as the person who proposes to make or makes the discharge agrees.


Signed on behalf of the Authority

.B./..11/...1989

SCHEDULE

CONDITIONS PRESCRIBED FOR THE DISCHARGE OF SEWAGE EFFLUENT FROM LITTLE MARLOW SEWAGE TREATMENT WORKS TO THE RIVER THAMES.

A. NATURE OF EFFLUENT

1. The discharge shall consist of treated sewage effluent from an outlet at National Grid Reference SU 8772 8696.

B. VOLUME OF EFFLUENT

1. (i) For the period upto and including 30 June 1991:

The volume of treated sewage effluent discharged under dry weather conditions shall not exceed 30,000 cubic metres in any period of 24 hours.

(ii) For the period from 1 July 1991:

The volume of treated sewage effluent discharged under dry weather conditions shall not exceed 40,300 cubic metres in any period of 24 hours.

C. COMPOSITION OF EFFLUENT

1. Subject to paragraph C.2 below, no sample of the treated sewage effluent taken by the Authority shall contain more than:

i. for the period up to and including 30 June 1991 :

(a) 35 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius);

(b) 20 milligrams per litre of biochemical oxygen demand (determined in the presence of 0.5 milligrams per litre of allyl-thiourea after 5 days at 20 degrees Celsius);

(c) 8 milligrams per litre of ammoniacal nitrogen expressed as nitrogen.

ii. for the period from 1 July 1991 :

(a) 35 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius);

(b) 20 milligrams per litre of biochemical oxygen demand (determined in the presence of 0.5 milligrams per litre of allyl-thiourea after 5 days at 20 degrees Celsius);

(c) 5 milligrams per litre of ammoniacal nitrogen expressed as nitrogen.

2. The limit for any of the determinands set out in paragraph C.1 above may be exceeded where, in any series of samples of treated sewage effluent taken (whether before or after the grant of this consent) by the Authority in the period of twelve months ending on the date of the discharge, as listed in column (1) of the table at Annex A to this schedule, no more than the relevant number of samples, as listed in column (2) of the said table, exceeds the applicable limit for that determinand at the time when a sample is taken, that is in respect of samples taken after the grant of this consent, the limit set out in paragraph C.1, and in respect of samples taken before the grant of this consent, the corresponding provision of the consent then in force.

3. Notwithstanding paragraphs C.1 and C.2 above, for the period up to and including 30 June 1991 no sample of the treated sewage effluent shall contain more than:

(a) 105 milligrams per litre of suspended solids (measured after drying at 105 degrees Celsius);

(b) 60 milligrams per litre of biochemical oxygen demand (determined in the presence of 0.5 milligrams per litre of allyl-thiourea after 5 days at 20 degrees Celsius);

(c) 16 milligrams per litre of ammoniacal nitrogen expressed as nitrogen.

D. TAKING OF SAMPLES

1. Facilities shall be provided to the Authority's authorised representatives so as to enable samples of the effluent to be conveniently obtained.

ANNEX A

TABLE

Series of samples
taken in any year

Maximum number of samples
for given determinand
permitted to exceed limit

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