

Nutrient Budget for the Camp Field, Bartons Road, Havant Development within the Solent Region (APP/19/00007)

Prepared on behalf of:

White Farming Limited
Chidden Farmhouse,
Hambledon,
Waterlooville, Hampshire, PO7 4TD

Prepared by:

Anna Becvar BSc Hons, M I Soil Sci, C Sci, MBPR FACTS
Earthcare Technical Ltd.
Manor Farm
Chalton
Waterlooville
Hants PO8 0BG

Tel: 02392 290 488
Email: anna@earthcaretechnical.co.uk

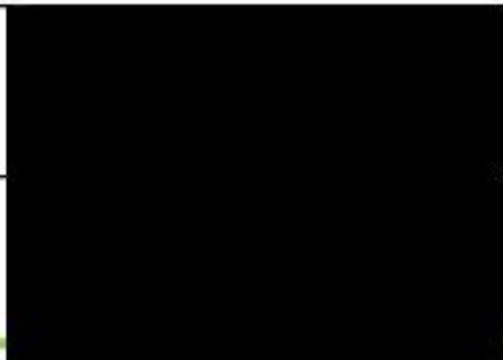
Ref: ETL412/19

15 May 2019

QUALITY CONTROL

Document Title:	Nutrient Budget for the Camp Field, Bartons Road, Havant Development within the Solent Region (APP/19/00007)
Revision:	V1.0 Issue 2.0
Date:	15 May 2019
Document Reference:	Bartons Road N Budget
Prepared For:	White Farming Ltd
Project Reference:	ETL 0412/19
Copyright:	Earthcare Technical Ltd © 2019

Quality control sign off

Document Author	Anna Becvar	
Quality Reviewer	Dr Martin Wood	

This report has been prepared by Earthcare Technical Ltd on behalf of the Client, taking into account the agreed scope of works. Unless otherwise agreed, this document and all other Intellectual Property Rights remain the property of Earthcare Technical Ltd.

In preparing this report, Earthcare Technical Ltd has exercised all reasonable skill and care, taking into account the objectives and the agreed scope of works and any contract between Earthcare Technical Ltd and the Client. Earthcare Technical Ltd does not accept any liability in negligence for any matters arising outside of the agreed scope of works. When issued in electronic format, Earthcare Technical Ltd does not accept any responsibility for any unauthorised changes made by others. This document may not be copied in whole or in part without the prior written consent of Earthcare Technical Limited.

Contents

Executive Summary	4
2. Introduction.....	6
3. Site description.....	7
4. Calculations	7
Appendix 1.....	12

Executive Summary

White Farming Limited submitted a planning application reference APP/19/00007 January 2019. The proposal is an Outline Application for access with all matters reserved, for up to 72 new homes plus associated green infrastructure including a community orchard. The proposed development is located at Camp Field (land to the west of Havant Crematorium).

Natural England as a consultee to the planning process requested that a nitrogen budget, the principal nutrient that may cause eutrophication in the marine environment, is calculated for the development.

A nitrogen budget has been calculated following the "Methodology to calculate the nitrogen budget for development in the Solent and achieve nitrogen neutrality", Natural England Working Draft August 2018, provided as a supporting document to the consultee response.

An area of 2.56 ha of arable land (31.2 kg/ha nitrate-N loss) will be lost to the development of which 0.4 ha is considered as Public Open Space (POS) in addition a further 1.06ha of Camp Field will be removed from arable production and placed in Biodiversity mitigation and enhancement features from which the average nitrogen loss equates to that of low intensity grazing land (13.0 kg/ha nitrate-N loss).

The net change in total nitrogen load for the development is calculated to be -4.88 kg/N/yr. Thus, development proposals have achieved slightly better than nutrient neutrality.

Should 1.9ha in of the current arable field also be allocated for an additional 50 dwellings by East Hants District Council, 0.11ha of additional amenity grass, wildflower area, and hedgerow would provide nutrient mitigation on site and land elsewhere on the land owners holding could be changed from arable production to lower nutrient impact land management use.

1. Suitably qualified advice

- 1.1. Anna Becvar BSc Hons MI Soil Sci C Sci MBPR FACTS RFE/414. Anna has a Bachelor of Science Honours Degree in Soils and Plant Nutrition. She is a Chartered Scientist and Member of the British Society of Soil Science. She is a qualified and active practitioner of the FACTS Advisory Scheme (Fertiliser Advisory Certification and Training Scheme). FACTS is an independent non-statutory certification Scheme for advisers in plant nutrient management. It was established in 1993 following discussions with the trade associations connected with the industry and BASIS® Registration Ltd. She is also a BASIS Approved Trainer for the scheme and has taught the FACTS qualification, The Advanced Nutrient Planning Module and currently teaches the BASIS Advanced Module BASIS Certificate in Plant Nutrition - Waste to Land. Anna is currently Outgoing Chair of the Professional Practice Committee within The British Society of Soil Science and a Board Trustee of the society.
- 1.2. Anna has worked as a consultant advisor on Government research into the best use of compost and anaerobic digestate since 2008 through the Waste and Resources Action Programme (WRAP) and Defra funded projects. Anna is the Independent Chair of the newly formed Market Development Working Group for Renewable Energy Assurance Ltd (REAL). She has recently worked on and delivered workshops and written case studies for agricultural aspects of the Clean Air Strategy on behalf of Natural England/Defra and CSF.
- 1.3. She has used her expertise in planning applications for burial sites, anaerobic digestion and compost facilities, storage lagoons and peripherally to housing developments in the past. She has also worked locally for the Downs and Harbour Clean Water Partnership with local farms and advisers.

2. Introduction

- 2.1. White Farming Limited submitted a planning application reference APP/19/00007 January 2019.
The proposal is an Outline Application for access with all matters reserved, for up to 72 new homes plus associated green infrastructure including a community orchard. The proposed development is located at Camp Field (land to the west of Havant Crematorium).
- 2.2. Natural England have stated within their consultation response to the development, 27 February 2019, that "There is existing evidence of high levels of nitrogen and phosphorus in the water environment with evidence of eutrophication at some designated sites. An Integrated Water Management Study for South Hampshire was commissioned by the Partnership for Urban South Hampshire (PUSH) Authorities to examine the delivery of development growth in relation to legislative and government policy requirements for designated sites and wider biodiversity. This work has identified that there is uncertainty as to whether housing development would require mitigation."
- 2.3. Natural England recommends that a nitrogen budget, the principal nutrient that may cause eutrophication in the marine environment is calculated for this development.
- 2.4. Wessex Planning on behalf of White Farming Limited have commissioned Earthcare Technical Limited (ETL) to calculate the nitrogen budget for the Camp Field development to confirm whether the development proposals do indeed achieve nutrient neutrality.
- 2.5. This report has been produced by Anna Becvar, BSc (Hons), MI Soil Sci, C Sci, MBPR, FACTS RFE/414, BASIS Approved Trainer, Director of ETL and peer reviewed by Dr Martin Wood (BA Hons, PhD, F I Soil Sci.), Director of ETL.
- 2.6. It is produced following the "Methodology to calculate the nitrogen budget for development in the Solent and achieve nitrogen neutrality", Natural England Working Draft August 2018, provided as a supporting document to the consultee response.

3. Site description

- 3.1. The proposed development will comprise of up to 72 dwellings and public open space. Camp Field is currently in arable farmland (cereals) and provides the entrance to the adjacent Crematorium. It is 6.63 ha in extent of which 2.56 ha of land will be developed under these proposals inclusive of provision for Public Open Space (POS).
- 3.2. The site is divided in two between the East Hants District Council (north section) and Havant District Council (South section). On part of the northern and north western field boundaries is Bartons Copse, an Ancient Woodland, which is of high ecological interest and protected.
- 3.3. Three (TPO) mature oaks stand in the centre of the field, running north-south along what was a field boundary.
- 3.4. The land is gently sloping and naturally lies wetter in the north western corner.
- 3.5. It is proposed that an area of 1.94 ha of the site will be residential use, with 0.22 ha under access road, 0.4 ha of POS within the development area of 2.56 ha. The current development area falls within the Havant District Council area of the site.
- 3.6. Within Camp Field there is a further 1.06ha of land that will be taken out of arable farmed land which will now incorporate biodiversity mitigation and enhancement features i.e. Swales, a BAP Priority Pond (SuDs), areas of Wildflower and bunds with native shrubs; and a tree enhancement Area.
- 3.7. A further area of 1.9ha in extent may be allocated for a further 50 dwellings under East Hants District Council. This area will be put into temporary managed pasture and has not been included within the following calculations.

4. Calculations

- 4.1. A nitrogen budget has been undertaken following the "Methodology to calculate the nitrogen budget for development in the Solent and achieve nitrogen neutrality", Natural England Working Draft August 2018, provided as a supporting document to the consultee response.
- 4.2. This will show that the development either avoids harm to the Chichester and Langstone Harbours Special Protection Area and the Solent Maritime Special Area of Conservation or will suggest mitigation measures required to ensure that there is no adverse effect and that the development will achieve nitrogen neutrality.
- 4.3. Calculations are provided as a series of tables. A maximum water use efficiency of 110 litres per day has been used within these calculations, though the application is for outline planning.
- 4.4. The receiving Waste Water Treatment Works (WWTW) has been identified as Budds Farm Wastewater Treatment, Works, Southmoor Lane, Havant, Hampshire. Consent No: A.751/H/97. The annual mean concentration of total nitrogen (TN) of the treated sewage effluent shall not exceed 9.7 mg N per litre. A copy is provided within Appendix 1 of this report.

4.5. Calculations have been carried out following four stages:

- Stage 1: Total Nitrogen (TN) load from the development waste water
- Stage 2: Total nitrogen load to be offset from the current land use
- Stage 3: The total nitrogen load for the proposed development is adjusted to consider proposed land uses
- Stage 4: The net change in total nitrogen load from the development.

4.6. The tabulated results are provided below.

STAGE 1 - TOTAL NITROGEN (TN) LOAD FROM DEVELOPMENT WASTEWATER				
Step	Measurement	Value	Unit	Explanation
Development proposal	Residential dwellings	72	Residential dwellings	
Step 1	Additional population	166	Persons	Uses an average household size of 2.3 x 72 dwellings (greenfield site).
Step 2	Wastewater volume generated by development	18,260	litres/day	166 persons x 110 litres
Step 3	Budds Farm, Havant WWTW environmental permit limit for TN	9.7	mg/l TN	
Step 4	TN discharged after WWTW treatment	159,409.8	mg/TN/day	90% of the consent limit = 8.73 mg/l TN. 18,260 x 8.73
	Convert mg/TN to kg/TN per day	0.1594	Kg/TN/day	Divide by 1,000,000
	Convert kg/TN per day to kg/TN per year	58.2	Kg/TN/yr	X 365 days
Wastewater total nitrogen load	58.2 Kg/TN/yr			

STAGE 2 - TOTAL NITROGEN LOAD FROM CURRENT LAND USE

Step	Measurement	Value	Unit	Explanation
1	Total area of existing agricultural land	3.62	Hectares	2.56 ha is the area of agricultural land that will be lost due to Development and a further 1.06ha will now be included within biodiversity mitigation and enhancement features
2	Identify farm type and confirm nitrate loss.	31.2	Kg/ha/yr	Land is currently in cereals
3	Multiply area by nitrate loss	112.94	Kg/TN/yr	3.62 ha x 31.2 kg/TN/yr
Total nitrogen load - current land use	112.94 Kg/TN/yr			

STAGE 3 - TOTAL NITROGEN LOAD FROM FUTURE LAND USES

Step	Measurement	Value	Unit	Explanation
1	New urban area	2.16	Hectares	Area of development that will change from agricultural land to urban land use (1.94ha residential area plus 0.22 ha access road)
2	Total Nitrogen Load from future urban area	30.88	Kg/TN/yr	$2.16 \text{ ha} \times 14.3 \text{ Kg TN/ha/yr}^1$
3	New SANG / open space and	1.46	Hectares	Area of development that will change from agricultural land to SANG / open space 0.4ha plus biodiversity mitigation and enhancement features of 1.06ha.
4	Total Nitrogen load from SANG / open space	18.98	Kg/TN/yr	$1.46 \text{ ha} \times 13.0 \text{ Kg/TN/yr}^2$
5	Combine Total Nitrogen load from future land uses	49.86	Kg/TN/yr	$30.88 \text{ Kg/TN/yr} + 18.98 \text{ Kg/TN/yr}$
Total Nitrogen Load - future land uses		49.86 Kg/TN/yr		

¹ Nitrogen leaching from urban land equates to 14.3 kg/ha/yr, Supplementary Planning Document – Achieving Nitrogen Neutrality in Poole Harbour

² Average nitrogen loss from low intensity grazing land

STAGE 4 - THE NET CHANGE IN TOTAL NITROGEN LOAD FROM THE DEVELOPMENT				
Step	Measurement	Value	Unit	Explanation
1	Identify Total Nitrogen load from wastewater (stage 1)	58.2	Kg/TN/yr	See Table 1
2	Calculate Total Nitrogen from land use - subtract Total Nitrogen load from future land uses (stage 3) from existing land uses (stage 2)	63.08	Kg/TN/yr	=112.94 Kg/TN/yr – 49.86 Kg/TN/yr
3	Determine Nitrogen Budget – the difference between the Total Nitrogen load for the proposed development and the existing uses	-4.88	Kg/TN/yr	=58.2 Kg/TN/yr (step 1) – 63.08 Kg/TN/yr (step 2)
Total Nitrogen Budget		-4.88 Kg/TN/yr		

4.7. An area of 2.56 ha of arable land (31.2 kg/ha nitrate-N loss) will be lost to the development of which 0.4 ha is considered as POS and 1.06ha Biodiversity mitigation and enhancement measures (1.46ha in total) from which the average nitrogen loss equates to that of low intensity grazing land (13.0 kg/ha nitrate-N loss).

4.8. The net change in total nitrogen load for the development of 72 dwellings is calculated to be -4.88 kg/N/yr. Thus, development proposals have achieved slightly better than nutrient neutrality.

4.9. Should a further area of 1.9ha in of the current arable field be allocated for 50 dwellings by East Hants District Council, 0.11ha of additional amenity grass, wildflower area, and hedgerow would provide nutrient mitigation on site and land elsewhere on the land owners holding could be changed from arable production to lower nutrient impact land management use.

Appendix 1

CONSENT NO.

A.751/H/97

THE ENVIRONMENT AGENCY**WATER RESOURCES ACT 1991
(As amended by the Environment Act 1995)****SECTION 88 - SCHEDULE 10****NOTICE OF VARIATION OF CONSENT TO DISCHARGE**

TO: Southern Water Services Ltd ("The Consent Holder")
Southern House
Yeoman Road
Worthing
West Sussex
BN13 3NX

WHEREAS the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) **GRANTED CONSENT** to the making of several discharges of **SEWAGE EFFLUENT** on the 10th day of June 2002 subsequently modified on the 3rd September 2002 and the 14th December 2004

FROM Budds Farm Wastewater Treatment Works

the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby **GIVES NOTICE** that **CONSENT** No A.751/H/97 is hereby varied as follows:

Secondary treated sewage effluent	A.751/H/97 01
Intermittent discharge of Secondary treated sewage effluent	A.751/H/97 02

FROM Budds Farm Wastewater Treatment Works

AT Southmoor Lane, Havant, Hampshire.

TO Controlled waters as specified in the appropriate schedules

The conditions of Schedules No A.751/H/97 01 and A.751/H/97 02 of consent number A.751/H/97 issued on the 10th day of June 2002 and subsequently modified on the 3rd September 2002 are varied as detailed in this notice.

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991 (as amended by the Environment Act 1995), no notice shall be served by the Agency which alters the effect of variations 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.

Dated this 15th day of December 2005

Signed 

Catherine Patel- Team Leader Water Quality Regulatory Support

Environment Agency

Colvedene Court, Wessex Way, Colden Common, Winchester, Hampshire SO21 1WP
Telephone: 08708 506 506 Fax: (01962) 841573.

CONSENT NO:	A751/H/97
SCHEDULE NO:	A751/H/97 01
DATE VARIED:	15 th December 2005

Conditions to be added:

Composition

11A. The Discharge shall not contain more than:

3 milligrammes per litre of total Iron

Dangerous Substances

The Dangerous Substance List I Condition

25. a) The quantity of List I Substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the Discharge shall not increase above
- i the levels specifically regulated by conditions 11 (vi),11(vii),11 (viii) and 11(ix)
 - ii the levels in the Discharge on the date of effect of this consent where no specific level is authorised; and
- b) notwithstanding (a) above, the concentration of List I Substances in the Discharge shall not exceed the concentrations specified in 'List 1 General Standards' in Annex 5 appended to this Notice.

Chemical Dosing Conditions

Dosing Condition

26. (a) Subject to paragraph (c) below, the chemical dosing material(s) employed shall be of an iron 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.

CONSENT NO:	A751/H/97
SCHEDULE NO:	A751/H/97 01
DATE VARIED:	15 th December 2005

- (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.

Dosing Telemetry

27. 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 iron dosing plant.

Additives

28. a) The Discharge shall at no time contain any polyelectrolyte(s), or other additives, without the Consent Holder obtaining the prior written agreement of the Agency. The use of the polyelectrolyte(s) or other additives shall be subject to the conditions contained in the said written agreement.
- (b) Such agreement will only be given by the Agency if it considers that the polyelectrolyte(s), or other additives, are unlikely to have an appreciable effect on controlled waters in the locality of the discharge.
- (c) The Agency shall be informed of any overdosing to the treatment system or of any spillages of any polyelectrolyte(s), or other additives, within two hours of the event.

Conditions to be varied:

Works Operation Condition

Condition 13 is hereby varied to read as follows:

13. (i) The works shall be operated and the effluent shall be treated in such a manner which, so far as is reasonably practicable, minimises the polluting effects of the Discharge made from the works on controlled waters.

CONSENT NO:	A751/H/97
SCHEDULE NO:	A751/H/97 01
DATE VARIED:	15 th December 2005

- (ii) This condition does not require:-
 - (a) any higher standard to be achieved in relation to any characteristic of the Discharge which are specifically regulated by conditions 9,10,11 and 11A than is required by those conditions;
 - (b) any alteration of the works or a change in the type of treatment used.

Substantial Change Condition

Condition 19 is hereby varied to read as follows:

- 19. (i) 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.
- (ii) A discharge of trade effluent into the works is new if -
 - (a) 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.
 - (b) it is made by a third party and the Discharge is authorised on or after that date.
- (iii) A discharge of trade effluent into the works is altered if -
 - (a) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of effect of this consent.
 - (b) it is made by a third party and the alteration of the Discharge is authorised on or after that date.
- (iv) 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 are specifically regulated by 9,10, 11 and 11A of this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.

CONSENT NO:	A751/H/97
SCHEDULE NO:	A751/H/97 01
DATE VARIED:	15 th December 2005

- (v) For the purposes of this condition "trade effluent" means -
 - (a) any discharge by the sewerage undertaker other than
 - (i) domestic sewage from premises connected directly or indirectly to the works; or
 - (ii) surface water run-off;
 - (b) 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.

Dangerous Substances List II Condition

Condition 22 is hereby varied to read as follows:

- a) The quantity of List II Substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the Discharge shall not increase above
 - i the levels specifically regulated by conditions 11 (i) to 11(v) and 11A
 - ii the levels in the Discharge on the date of effect of this consent where no specific level is authorised;and
- b) notwithstanding (a) above, the Discharge shall not contain quantities of any List II Substance such as to cause or contribute to the concentration of that substance in the receiving water exceeding the relevant Environmental Quality Standard (EQS).

CONSENT NO:	A751/H/97
SCHEDULE NO:	A751/H/97 02
DATE VARIED:	15 th December 2005

Conditions to be added:

Composition

15A . The Discharge shall not contain more than:

3 milligrammes per litre of total Iron

Dangerous Substances

The Dangerous Substance List I Condition

29. a) The quantity of List I Substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the Discharge shall not increase above
- i the levels specifically regulated by conditions 15(vi),15(vii),15(viii) and 15(ix)
 - ii the levels in the Discharge on the date of effect of this consent where no specific level is authorised; and
- b) notwithstanding(a) above, the concentration of List I Substances in the Discharge shall not exceed the concentrations specified in 'List 1General Standards' in Annex 5 appended to this Notice.

Chemical Dosing Conditions

Dosing Condition

30. (a) Subject to paragraph (c) below, the chemical dosing material(s) employed shall be of an iron 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

CONSENT NO:	A751/H/97
SCHEDULE NO:	A751/H/97 02
DATE VARIED:	15 th December 2005

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.

Dosing Telemetry

- 31. 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 iron dosing plant.

Additives

- 32. a) The Discharge shall at no time contain any polyelectrolyte(s), or other additives, without the Consent Holder obtaining the prior written agreement of the Agency. The use of the polyelectrolyte(s) or other additives shall be subject to the conditions contained in the said written agreement.
- b) Such agreement will only be given by the Agency if it considers that the polyelectrolyte(s), or other additives, are unlikely to have an appreciable effect on controlled waters in the locality of the discharge.
- (c) The Agency shall be informed of any overdosing to the treatment system or of any spillages of any polyelectrolyte(s), or other additives, within two hours of the event.

Conditions to be varied:

Works Operation Condition

Condition 17 is hereby varied to read as follows:

- 17. (i) The works shall be operated and the effluent shall be treated in such a manner which, so far as is reasonably practicable, minimises the polluting effects of the Discharge made from the works on controlled waters.
- (ii) This condition does not require:-

CONSENT NO:	A751/H/97
SCHEDULE NO:	A751/H/97 02
DATE VARIED:	15 th December 2005

- (a) any higher standard to be achieved in relation to any characteristic of the Discharge which are specifically regulated by conditions 13,14,15 and 15A than is required by those conditions;
- (b) any alteration of the works or a change in the type of treatment used.

Substantial Change Condition

Condition 23 is hereby varied to read as follows:

- 23. (i) 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.
- (ii) A discharge of trade effluent into the works is new if -
 - (a) 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.
 - (b) it is made by a third party and the Discharge is authorised on or after that date.
- (iii) A discharge of trade effluent into the works is altered if -
 - (a) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of effect of this consent.
 - (b) it is made by a third party and the alteration of the Discharge is authorised on or after that date.
- (iv) 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 are specifically regulated by 13, 14,15 and 15A of this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.
- (v) For the purposes of this condition "trade effluent" means -
 - (a) any discharge by the sewerage undertaker other than

CONSENT NO:	A751/H/97
SCHEDULE NO:	A751/H/97 02
DATE VARIED:	15 th December 2005

- (i) domestic sewage from premises connected directly or indirectly to the works; or
- (ii) surface water run-off;

(b) 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.

Dangerous Substances List II Condition

Condition 26 is hereby varied to read as follows:

- a) The quantity of List II Substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the Discharge shall not increase above
 - i the levels specifically regulated by conditions 15 (i) to 15(v) and 15A
 - ii the levels in the Discharge on the date of effect of this consent where no specific level is authorised;
 and
- b) notwithstanding (a) above, the Discharge shall not contain quantities of any List II Substance such as to cause or contribute to the concentration of that substance in the receiving water exceeding the relevant Environmental Quality Standard (EQS).

NOTE

Consent A.751/H/97 is updated accordingly. All other conditions of this consent remain unchanged and remain in force.

This Notice of Variation should be attached to the Consent document A.751/H/97

Consent History – for information purposes only

Consent Detail	Date	Comment
Application	Received 30/07/97	Determined
Consent A.751/H/97	Issued 10/06/02	Effective
Modification	Dated 03/09/02	Effective
Variation	Dated 15/12/05	Effective

List 1 General Standards

	Substance	Limit Total Concentration (ug/l)
1.	Aldrin	0.02
2.	Dieldrin	0.02
3.	Endrin	0.01
4.	Isodrin	0.01
5.	Carbon tetrachloride	24.0
6.	Chloroform	24.0
7.	DDT (all isomers)	0.05
8.	para-para-DDT	0.02
9.	Hexachlorobenzene	0.06
10.	Hexachlorobutadiene	0.2
11.	Hexachlorocyclohexane	0.2
12.	Pentachlorophenol	4.0
13.	Trichlorobenzene	0.8
14.	1,2-Dichloroethane	20.0



ENVIRONMENT
AGENCY

A00751

MODIFICATION OF CONSENT NO.	A.751/H/97
DATE OF MODIFICATION	14 th December 2004

WATER RESOURCES ACT 1991

(AS AMENDED BY THE ENVIRONMENT ACT 1995)

SECTION 88 – SCHEDULE 10

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

TO: Southern Water Services Limited
Southern House
Yeoman Road
Worthing
West Sussex BN13 3NX

WHEREAS on the 10th June 2002 the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) GRANTED CONSENT reference A.751/H/97 (and being subsequently modified on 3rd September 2002) to the making of several discharges of SEWAGE EFFLUENT (treated sewage effluent and storm sewage)

FROM: Budds Farm Wastewater Treatment Works, Southmoor Lane, Havant, Hampshire

TO: Solant or Langstone Harbour

NOTICE IS GIVEN by the **AGENCY** that the all the conditions of Schedule A.751/H/97 03 of the said Modification issued on the 10th June 2002 are hereby deleted and replaced by the conditions set out in the attached Schedule A.751/H/97 03 (M)

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991, as replaced by Schedule 22 of the Environment Act 1995, and paragraph 21 of the attached schedule, no notice shall be served by the Agency, which alters the modifications made by this notice, without the agreement in writing of the discharger, during a period of four (4) years from the date this notice is served.

This Notice of Modification is made on 14th December 2004

Signed
Dave Robins [Redacted Signature] ent

NOTE Consent document Ref A.751/H/97 is updated accordingly.

N.B. This Notice of Modification should be attached to Consent document Ref. A.751/H/97

MODIFICATION SCHEDULE NO.	A.751/H/97 03 (M)
DATE OF MODIFICATION	14 th December 2004

CONDITIONS OF CONSENT TO DISCHARGE

TREATED SEWAGE EFFLUENT ("the Discharge").

FROM: BUDDS FARM WASTEWATER TREATMENT WORKS, SOUTHMOOR LANE, HAVANT, HAMPSHIRE

URBAN WASTEWATER TREATMENT REGULATIONS

- 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 more than 150,000 discharging to an estuary/coastal waters in a sensitive area 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 (1) and 5 (2) and shall satisfy the relevant requirements of Part I of Schedule 3.
- 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 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 regarding secondary treatment from the date of issue of the Notice of Modification. This condition continues the requirement for secondary treatment that was originally required by the earlier Notice of Modification of Consent Ref. A.751/H/97 03 issued on the 10th June 2002 and which came into force on the date as specified in the relevant paragraph of Regulation 5 (i.e. 31st December 2000).
- (b) Condition U2 above shall apply for the purpose of verifying compliance with the directive regarding nutrient removal (i.e. nitrogen) from the date as specified in the relevant paragraph of Regulation 5 (in this particular case 31st December 2004) as incorporated into this consent under condition U1(c) above.
- U4 (a) An appropriately labelled sample point shall be provided and maintained at National Grid Reference SU 7079 0564 as shown marked "SAMPLING POINT BF5 INLET WORKS UWWO CRUDE SEWAGE SAMPLING POINT (HAVANT)" on the Plan No. A80179.0516 Rev B attached as annex 2(a), which was attached to the Notice of Modification of Consent Ref. A.751/H/97 issued on 10th June 2002, or some other point as agreed in writing with the Agency, so that a representative sample of the Influent may be obtained.
- (b) An appropriately labelled sample point shall be provided and maintained at National Grid Reference SU 7075 0540 as shown marked "SAMPLING POINT BF6 COMPACT SPIRAL LAMELLAS DISTRIBUTION CHAMBER UWWO CRUDE SEWAGE SAMPLING POINT (PORTSMOUTH PLUS CESS LIQUORS)" on the Plan No. A80179.0516 Rev B attached as annex 2(a), which was attached to the Notice of Modification of Consent Ref. A.751/H/97 issued on 10th June 2002, so that a representative sample of the Discharge may be obtained.

Date

Signed

Dave Robinson – Team Leader Environment Management

A00751

CONSENT NO.

A.751/H/97

THE ENVIRONMENT AGENCY**WATER RESOURCES ACT 1991****(As amended by the Environment Act 1995)****SECTION 88 - SCHEDULE 10****NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE**

TO: Southern Water Services Ltd ("The Consent Holder")
Southern House
Yeoman Road
Worthing
West Sussex
BN13 3NX

WHEREAS the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) **GRANTED CONSENTS** to the making of several discharges of **SEWAGE EFFLUENT** on the 10th day of June 2002.

FROM Budds Farm Wastewater Treatment Works

the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby **GIVES NOTICE** that **CONSENT** No A.751/H/97 is hereby modified as follows:

Secondary treated sewage effluent	A.751/H/97 01
Intermittant discharge of Secondary treated sewage effluent	A.751/H/97 02

FROM: Budds Farm Wastewater Treatment Works

AT: Southmoor Lane, Havant, Hampshire.

TO: Controlled waters as specified in the appropriate schedules

The conditions of Schedules No A.751/H/97 01 and A.751/H/97 02 of consent number A.751/H/97 issued on the 10th day of June 2002 are modified as detailed in this notice.

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of 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.

Dated this 3 [REDACTED] 2002

Signed [REDACTED]
Area Environment Planning Manager

Environment Agency

Colvedene Court, Wessex Way, Colden Common, Winchester, Hampshire SO21 1WP

Telephone: (01962) 713267 Fax: (01962) 841573

CONSENT NO.	A.751/H/97	
SCHEDULE NO.	A.751/H/97	01
DATED	10 th June 2002	

Conditions to be added:

The following condition(s) shall now be included:

Operational Surveillance and Audit Condition

- 21 a) The Consent Holder shall maintain records that demonstrate to the satisfaction of the Agency:
- i) knowledge and understanding by the Consent Holder of the composition of materials supplied to them and of any changes in formulation of process inputs to the collecting, sewerage and/or treatment system;
 - ii) any changes in processes that may result in a change in the Dangerous Substances composition of the effluent discharge.
- b) The Consent Holder, at a time scale and frequency agreed by the Agency, shall undertake and record an audit to identify any additions or changes to the concentrations and loads of Dangerous Substances in the effluent since the date of issue of the consent.
- c) The audit procedure is to be previously agreed in writing by the Agency.
- d) The records kept in accordance with paragraphs a and b above shall be made available to the Agency on request.

The Dangerous Substance List II Condition

- 22 a) The quantity of List II Substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the Discharge shall not increase above
- i the levels specifically regulated by conditions 11 (i) to 11(v)
 - ii the levels in the Discharge on the date of effect of this consent where no specific level is authorised; and
- b) notwithstanding (a) above, the Discharge shall not contain quantities of any List II Substance such as to cause or contribute to the concentration of that substance in the receiving water exceeding the relevant Environmental Quality Standard (EQS).

Investigate and Monitor Condition

23. At the request of the Agency, the Consent Holder shall undertake any necessary investigations and provide an assessment of the source and quantity of specified List I and List II Substances (as defined in the Dangerous Substances Directive 76/464/EEC) within the discharge

Power to Modify Condition

24. If the Agency believes that the load of one or more Dangerous Substances has increased, it may at any time after the issue of this discharge consent, modify this consent by written notification to include specific limits for List I and List II Substances as defined in the Dangerous Substances Directive (76/464/EEC), or any Substance with a non-statutory EQS. This includes any period during which the Agency would otherwise be prohibited from modifying the consent.

CONSENT NO.	A.751/H/97	
SCHEDULE NO.	A.751/H/97	02
DATED	10 th June 2002	

Conditions to be added:

The following condition(s) shall now be included:

Operational Surveillance and Audit Condition

- 25 a) The Consent Holder shall maintain records that demonstrate to the satisfaction of the Agency:
- i) knowledge and understanding by the Consent Holder of the composition of materials supplied to them and of any changes in formulation of process inputs to the collecting, sewerage and/or treatment system;
 - ii) any changes in processes that may result in a change in the Dangerous Substances composition of the effluent discharge.
- b) The Consent Holder, at a time scale and frequency agreed by the Agency, shall undertake and record an audit to identify any additions or changes to the concentrations and loads of Dangerous Substances in the effluent since the date of issue of the consent.
- c) The audit procedure is to be previously agreed in writing by the Agency.
- d) The records kept in accordance with paragraphs a and b above shall be made available to the Agency on request.

The Dangerous Substance List II Condition

- 26 a) The quantity of List II Substances (as defined in the Dangerous Substances Directive 76/464/EEC) in the Discharge shall not increase above
- i the levels specifically regulated by conditions 15 (i) to 15(v)

- ii the levels in the Discharge on the date of effect of this consent where no specific level is authorised; and
- c) notwithstanding (a) above, the Discharge shall not contain quantities of any List II Substance such as to cause or contribute to the concentration of that substance in the receiving water exceeding the relevant Environmental Quality Standard (EQS).

Investigate and Monitor Condition

27. At the request of the Agency, the Consent Holder shall undertake any necessary investigations and provide an assessment of the source and quantity of specified List I and List II Substances (as defined in the Dangerous Substances Directive 76/464/EEC) within the discharge

Power to Modify Condition

28. If the Agency believes that the load of one or more Dangerous Substances has increased, it may at any time after the issue of this discharge consent, modify this consent by written notification to include specific limits for List I and List II Substances as defined in the Dangerous Substances Directive (76/464/EEC), or any Substance with a non-statutory EQS. This includes any period during which the Agency would otherwise be prohibited from modifying the consent.

Other conditions of the consent

All other conditions of the consent remain in force. Consent A.751/H/97 is updated accordingly.

Consent History – for information purposes only

Consent Detail	Date		Comment
Application	Received	30/07/97	Determined
Consent A.751/H/97	Issued	10/06/02	Effective
Modification	Dated	03/09/02	Effective

Our Ref: A.751/H/97
Your Ref: Budds Fm/TE

Date: 3rd September 2002



**ENVIRONMENT
AGENCY**

Mr Paul Atkinson
Southern Water
Southern house
Yeoman Road
Worthing
West Sussex
BN13 3NX

Dear Paul,

**WATER RESOURCES ACT 1991, SCHEDULE 10 (AS AMENDED BY THE ENVIRONMENT
ACT 1995)**

MODIFICATION OF DISCHARGE CONSENT: A.751/H/97

LAND AT: Budds Farm Wastewater Treatment Works, Southmoor Lane, Havant, Hampshire.

Further to Don McLean's letter of the 21st August 2002 regarding the consent for the above site I have modified the appropriate consent schedules. As a result I enclose a modified consent document which incorporates Dangerous Substance conditions appropriate for the proposed discharge of effluent to the foul sewer from Manor Garage Filing Station, Purbrook.

Your attention is drawn to the conditions attached to the consent which should be complied with at all times, failing which, the consent holder will be liable to prosecution, either by the Agency or by any member of the public.

The conditions will remain in force until varied or revoked by the Agency or the Secretary of State for the Environment and they are binding on the consent holder, discharging effluent from the land or premises or, as the case may be, using the outlet to which they relate. Consent given under Section 88 and Schedule 10 of the Water Resources Act 1991 does not release the applicant from compliance with any other statutory or other requirement.

The consent is an important legal document and should be kept in a safe place.

If you are dissatisfied with the terms of any condition or period specified in the consent you may appeal against the Agency's decision by giving notice in writing to the Secretary of State under Section 91 of Water Resources Act 1991, at the following address :-

Secretary of State DEFRA
C/o DTLR
Environment Appeals Administration
The Planning Inspectorate
Room 4/19, Eagle Wing
Temple Quay House
2 The Square
Temple Quay
Bristol BS1 6PN

Environment Agency

Colvedene Court, Wessex Way, Colden Common, Winchester, Hampshire SO21 1WP
Telephone: (01962) 713267 Fax: (01962) 841573



Notice with a statement of the grounds of appeal should, however, be given within three months of the date of this letter and a copy sent to this Agency.

I would point out that under Schedule 23, para 21 (2) (b) (ii) of the Environment Act 1995 if you transfer the responsibility for the discharge to somebody else you must pass the consent to them and tell the Agency within 21 days. Please note that a form for this purpose is attached to the Certificate of Holder, which should be kept with the Consent document for future reference.

Finally, I trust the above is self-explanatory, however please do not hesitate to contact Bill Scott on the telephone number given below if any further information or assistance is required.

Yours sincerely



Area Environment Planning Manager (Hampshire & Isle of Wight)

G:\WaterQuality Business Services\AUTHORISATIONS\Southern Water\Portseaclean\A751 Modify let 3Sep02.doc

CONSENT NO:

A.751/H/97

THE WATER RESOURCES ACT 1991

A007S1

SECTION 88 - SCHEDULE 10

CONSENT TO DISCHARGE

To: Southern Water Services Ltd ("The Consent Holder")
 Southern House
 Yeoman Road
 WORTHING
 West Sussex
 BN13 3NX

WACT 834.

The **ENVIRONMENT AGENCY** ("the Agency") in pursuance of its powers under the Water Resources Act 1991 **HEREBY CONSENTS** to the making of several discharges **OF SEWAGE EFFLUENT**, as follows:-

Secondary treated sewage Effluent
 Settled screened storm sewage
 Preliminary Treated Sewage in an Emergency

A.751/H/97

FROM: Budds Farm Wastewater Treatment Works

AT: Southmoor Lane, Havant, Hampshire

TO: Controlled Waters, as specified in the attached Schedules.

SUBJECT TO the conditions set out in the following Schedules:

Secondary treated Sewage Effluent	A.751/H/97	01
Intermittent Discharge of Secondary Treated Sewage Effluent	A.751/H/97	02
Urban Waste Water Treatment Regulations	A.751/H/97	03
Settled screened storm Sewage	A.751/H/97	04
Preliminary Treated Sewage in an Emergency	A.751/H/97	05
Preliminary Treated Sewage in an Emergency	A.751/H/97	06

Subject to the provisions of paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991, as replaced by Schedule 22 to the Environment Act 1995 no notice shall be served by the Agency, altering this consent without the agreement in writing of the consent holder, during a period of 4 years from the date this consent takes effect or such later date as may be specified in an endorsement to this document.

This consent is issued and takes effect

Signed

AREA ENVIRONMENT PLANNING MANAGER

Environment Agency
 Colvedene Court, Wessex Way, Colden Common, Winchester, Hampshire SO21 1WP
 Telephone: 01962 713267 Fax: 01962 841573

A.751/H/97 Sewage effluent from Budds Farm Wastewater Treatment Works
 Issued 10/06/02

CONSENT NO:	A.751/H/97	
SCHEDULE NO:	A.751/H/97	01
DATE ISSUED:	10th June 2002	

CONDITIONS OF CONSENT TO DISCHARGE

SECONDARY TREATED SEWAGE EFFLUENT ("the Discharge").

**FROM: BUDDS FARM WASTEWATER TREATMENT WORKS,
SOUTHMOOR LANE, HAVANT, HAMPSHIRE (VIA EASTNEY LONG SEA
OUTFALL)**

Nature of Discharge

1. The Discharge shall consist solely of secondary treated sewage effluent.

Place of Discharge

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 1400 millimetre diameter pipe terminating with a diffuser section of 96 metres in length and consisting of 9 ports of maximum diameter 406 millimetres and spaced at 12 metre intervals.
 - (b) discharging to the Solent
 - (c) at National Grid Reference SZ 6679 9325
 - (d) shown marked "EASTNEY LONG SEA OUTFALL POINT OF DISCHARGE SZ 6679 9325" on Figure A80179.0269 attached as Annex 1(a).
 - (e) with the top inner surface of the outfall pipe/uppermost diffuser ports located below 17.74 metres Ordnance Datum Newlyn (ODN).

Sample point requirements

3. (a) An appropriately labelled sample point shall be provided and maintained at National Grid Reference SU 7068 0528 as shown marked 'SAMPLING POINT BF1' on Plan A80179.0516 Rev B attached as Annex 2(a) 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.

- (b) Appropriately labelled sample points shall be provided and maintained at National Grid Reference SU 7079 0564 as shown marked 'SAMPLING POINT BF5' and at National Grid reference SU 7075 0540 as shown marked 'SAMPLING POINT BF6' on Plan A80179.0516 Rev B attached as Annex 2(a) so that a representative sample of the Flow to full treatment may be obtained. The Consent Holder shall ensure that all constituents of the Flow to full treatment 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 Flow to full treatment taken at the said sampling point is a sample of what was flowing to full treatment into Budds Farm WTW. For compliance purposes, sample analysis will be interpreted in accordance with the protocol agreed between the Environment Agency and the Consent Holder.

Volume

4. The volume of the Discharge shall not exceed 197,597 cubic metres per day.
5. The Dry Weather Flow of the Discharge shall not exceed 85,277 cubic metres per day.

For the purpose of this condition 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".

6. The rate of Discharge shall not exceed 2287 litres per second, subject to condition 7 below.
7. The Discharge of treated sewage effluent from Budds Farm WTW into the Solent, up to a maximum flow rate of 2287 litres per second, shall comprise of secondary treated sewage effluent from the Portsmouth Catchment at a flow rate not exceeding 1334 litres per second and secondary treated sewage effluent from the Havant Catchment at a flow rate not exceeding 953 litres per second.

Flow measurement

8. (a) A continuous flow monitoring and recording system, to a specification provided by the Agency, with on-site visual display from which readings can be readily obtained by the Agency, shall be provided and operated to record the daily volume and instantaneous flow of the discharge and the sewage through the treatment works from the Havant and Portsmouth Catchments.
- (b) As soon as practicable after completion of the flow system installation the Consent Holder shall employ an independent expert to certify that the installation complies with the Agency's specification. The Consent Holder shall satisfy himself as to the professional competence of the expert. A copy of the certifier's report shall be provided to the Agency when it is available.
- (c) Records of the flow readings shall be maintained by the Consent Holder and shall be provided to the Agency when requested, in a format specified by the Agency.

- (d) The Consent Holder shall produce and maintain a quality control manual, approved by the independent expert and to the satisfaction of the Agency, specifying procedures for the calibration, operation and maintenance of the flow monitoring system. The flow system 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 by the Agency and provide a copy to the Agency on request.
- (e) The Consent Holder shall record all failures of the continuous flow system and any other 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 recorder remains fully operational at all times. Any failures shall be remedied as soon as possible.

Composition

- 9. (a) Subject to paragraph (b) below, the Discharge shall not contain more than:
 - (i) 40 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);
 - (ii) 60 milligrammes per litre of suspended solids (measured after drying at 105°C).
- (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 Annex 4 to this consent, 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.
- 10. (a) The Discharge shall not contain more than:
 - (i) 80 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);
- 11. The discharge shall not contain more than:
 - (i) 30 microgrammes per litre of total Chromium
 - (ii) 120 microgrammes per litre of total Copper
 - (iii) 70 microgrammes per litre of total Lead
 - (iv) 45 microgrammes per litre of total Nickel
 - (v) 190 microgrammes per litre of total Zinc
 - (vi) 1.5 microgrammes per litre of total Cadmium
 - (vii) 10 microgrammes per litre of total tetrachloroethylene
 - (viii) 10 microgrammes per litre of total trichloroethylene
 - (ix) 0.3 microgrammes per litre of total mercury

Screening/Solids Separation

- 12
- (a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.
 - (b) The screening device shall be maintained in an efficient operational condition.
 - (c) All screenings must be removed and disposed of in a manner such as to prevent entry to the Discharge.

Works Operation Condition

- 13.
- (i) The works shall be operated and the effluent shall be treated in such a manner which, so far as is reasonably practicable, minimises the polluting effects of the Discharge made from the works on controlled waters.
 - (ii) This condition does not require:-
 - (a) any higher standard to be achieved in relation to any characteristic of the Discharge which are specifically regulated by conditions 9,10 and 11 than is required by those conditions;
 - (b) any alteration of the works or a change in the type of treatment used.

Unusual Weather Conditions

- 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 conditions 9,10 and 13 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 works 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 effect.

- (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 circumstances 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.

Recording and Reporting

- 15. (a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. 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 effluent quality.
- 16. The Consent Holder shall notify the Agency in writing if any known or planned introduction or material change in respect of discharges from trade premises to the sewerage system occurs, that may increase or introduce into the effluent any "dangerous substance" (set out in Annex 3 to this notice as updated from time to time and notified to the Consent Holder in writing), and any other substance considered by the Consent Holder as having or likely to have a significant effect on the receiving waters.

Maintenance

- 17. The works 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;
- 18. (a) The Consent Holder shall maintain the outfall pipe and diffusers in an efficient operational condition, so as to minimise the probability of blockages or other failures, and shall implement periodic inspections of the integrity and performance of the diffusers and outfall pipe.
- (b) On request the Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions undertaken.

Substantial Change Condition

- 19. (i) 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.

- (ii) A discharge of trade effluent into the works is new if -
 - (a) 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.
 - (b) it is made by a third party and the Discharge is authorised on or after that date.
- (iii) A discharge of trade effluent into the works is altered if -
 - (a) it is made by the sewerage undertaker and its composition or quantity changes significantly on or after the date of effect of this consent.
 - (b) it is made by a third party and the alteration of the Discharge is authorised on or after that date.
- (iv) 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 are specifically regulated by 9, 10 and 11 of this consent but it may be significant if it is caused by a change in some other characteristic of the Discharge.
- (v) For the purposes of this condition "trade effluent" means -
 - (a) any discharge by the sewerage undertaker other than
 - (i) domestic sewage from premises connected directly or indirectly to the works; or
 - (ii) surface water run-off;
 - (b) 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.

Unauthorised Discharges Condition

- 20. (i) 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.
- (ii) 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.
- (iii) 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 NO:	A.751/H/97	
SCHEDULE NO:	A.751/H/97	02
DATE ISSUED:	10th June 2002	

CONDITIONS OF CONSENT TO DISCHARGE

INTERMITTENT DISCHARGE OF SECONDARY TREATED SEWAGE EFFLUENT ("the Discharge")

**FROM: BUDDS FARM WASTEWATER TREATMENT WORKS,
SOUTHMOOR LANE, HAVANT, HAMPSHIRE (BUDDS FARM OUTFALL)**

Nature of Discharge

1. The Discharge shall consist solely of secondary treated sewage effluent only in the event of:
 - (a) Storm conditions in the Portsmouth catchment; OR
 - (b) Failure of the transfer tunnel from Eastney sewage pumping station to Budds Farm WTW, OR
 - (c) Failure of the final effluent Booster pumping station, OR
 - (d) Routine maintenance of the above mentioned transfer tunnel.

Place of Discharge

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 1725 millimetre diameter pipe;
 - (b) discharging to Langstone Harbour;
 - (c) at National Grid Reference SU 7054 0510;
 - (d) shown marked "BUDDS FARM OUTFALL" on Drawing number A80179.0123 attached as Annex 1(b).

Sampling Point Requirements

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SU 7070 0527 as shown marked 'SAMPLING POINT BF2' on Plan A80179.0516 Rev B attached as Annex 2(a) 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 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.

Volume

4. The Discharge of secondary treated sewage effluent into Langstone Harbour, up to a maximum flow rate of 953 litres per second shall only take place when the sum of the treated sewage effluent from Budds Farm WTW and screened storm sewage from the Portsmouth catchment exceeds 3600 litres per second (maximum capacity for Eastney LSO). Save that at all times when an admixture of screened storm sewage and secondary treated sewage effluent is discharged, a minimum of 1334 litres per second of secondary treated sewage effluent shall be discharged via Eastney LSO.
5. The discharge may also take place in the event of but only for the duration of:
 - a) Failure of the transfer tunnel from Eastney sewage pumping station to Budds Farm WTW, or
 - b) Failure of the final effluent Booster pumping station; or
 - c) Routine maintenance of the above mentioned transfer tunnel in accordance with condition 11 below.
6. When storm sewage flows from the Portsmouth catchment entering the Eastney Headworks fall below 2266 litres per second, treated sewage effluent discharged to Langstone Harbour catchment shall be incrementally transferred for discharge via the Long Sea Outfall at Eastney. The Discharge of treated sewage effluent discharging via the Budds Farm outfall will be progressively reduced until normal flow conditions are resumed and the Discharge shall cease.
7. The maximum flow rate of 953 litres per second of treated sewage effluent discharged into Langstone Harbour shall only take place when the total capacity of the Long Sea Outfall is exceeded by the combined flow of 1334 litres per second of treated sewage effluent and 2266 litres per second of storm sewage from the Portsmouth catchment.
8. The volume of the Discharge shall not exceed 82,339 cubic metres per day.
9. The Dry Weather Flow of the Discharge shall not exceed 32,918 cubic metres per day.

 For the purpose of this condition 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.
10. The rate of Discharge shall not exceed 953 litres per second.
11. Routine maintenance on the transfer tunnel must be carried out between 1 October and 30 April subject to the prior written approval of the Agency and at least 28 days written notice.

Flow measurement

12. (a) A continuous flow monitoring and recording system, to a specification provided by the Agency, with on-site visual display from which readings

can be readily obtained by the Agency, shall be provided and operated to record the daily volume and instantaneous flow of the following discharges:

- (i) Treated sewage effluent from Budds Farm WTW discharging via the Eastney Long Sea Outfall.
 - (ii) Screened Storm Sewage from the Portsmouth catchment discharging via the Eastney Long sea Outfall into the Solent.
 - (iii) Treated sewage effluent from Budds Farm WTW discharging via the existing Budds Farm outfall into Langstone Harbour.
- (b) As soon as practicable after completion of the flow system installation the Consent Holder shall employ an independent expert to certify that the installation complies with the Agency's specification. The Consent Holder shall satisfy himself as to the professional competence of the expert. A copy of the certifier's report shall be provided to the Agency when it is available.
- (c) Records of the flow readings shall be maintained by the Consent Holder and shall be provided to the Agency when requested, in a format specified by the Agency.
- (d) The Consent Holder shall produce and maintain a quality control manual, approved by the independent expert and to the satisfaction of the Agency, specifying procedures for the calibration, operation and maintenance of the flow monitoring system. The flow system 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 by the Agency and provide a copy to the Agency on request.
- (e) the Consent Holder shall record all failures of the continuous flow system and any other 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 recorder remains fully operational at all times. Any failures shall be remedied as soon as possible.

Composition

13. (a) Subject to paragraph (b) below, the Discharge shall not contain more than:
- (i) 40 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allyl-thiourea);
 - (iii) 60 milligrammes per litre of suspended solids (measured after drying at 105°C).
- (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 Annex 4 to this consent, 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.

14. (a) The Discharge shall not contain more than:

- (i) 80 milligrammes per litre of biochemical oxygen demand (measured after 5 days at 20°C with nitrification suppressed by the addition of allylthiourea);

15. The Discharge shall not contain more than:

- (i) 30 microgrammes per litre of total Chromium
- (ii) 120 microgrammes per litre of total Copper
- (iii) 70 microgrammes per litre of total Lead
- (iv) 45 microgrammes per litre of total Nickel
- (v) 190 microgrammes per litre of total Zinc
- (vi) 1.5 microgrammes per litre of total Cadmium
- (vii) 10 microgrammes per litre of total tetrachloroethylene
- (viii) 10 microgrammes per litre of total trichloroethylene
- (ix) 0.3 microgrammes per litre of total mercury

Screening/Solids Separation

- 16 (a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.
- (b) The screening device shall be maintained in an efficient operational condition.
- (c) All screenings must be removed and disposed of in a manner such as to prevent entry to the Discharge.

Works Operation Condition

17. (i) The works shall be operated and the 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 on controlled waters.
- (ii) This condition does not require:-
- (a) any higher standard to be achieved in relation to any characteristic of the Discharge which is specifically regulated by conditions 13,14 and 15 than is required by those conditions;
 - (b) any alteration of the works or a change in the type of treatment used.

Unusual Weather Conditions

18. (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 conditions 13, 14 and 17 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;
 - (iv) tidal or fluvial flooding;
 - (iv) weather conditions causing unforeseen loss of power supply to the sewage treatment works 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 effect.
- (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 circumstances 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.

Recording and Reporting

19. (a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. 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 effluent quality.
20. The Consent Holder shall notify the Agency in writing if any known or planned introduction or material change in respect of discharges from trade premises to the sewerage system occurs, that may increase or introduce into the effluent any "dangerous substance" (set out in Annex 3 to this notice as updated from time to time and notified to the Consent Holder in writing), and any other substance considered by the Consent Holder as having or likely to have a significant effect on the receiving waters.

Maintenance

21. The works 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.
22. (a) The Consent Holder shall maintain the outfall pipe in an efficient operational condition, so as to minimise the probability of blockages or other failures, and shall implement periodic inspections of the integrity and performance of the outfall pipe.
- (b) On request the Consent Holder shall supply the agency with a written report on the maintenance and all non-routine actions undertaken.

Substantial Change Condition

23. (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 characteristic of the Discharge which is specifically regulated by conditions 13, 14 and 17 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 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.

Unauthorised Discharges Condition

24. (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 NO:	A.751/H/97	03
SCHEDULE NO:	A.751/H/97	
DATE ISSUED:	10th June 2002	

CONDITIONS OF CONSENT TO DISCHARGE

**FROM: BUDDS FARM WASTEWATER TREATMENT WORKS,
SOUTHMOOR LANE, HAVANT, HAMPSHIRE**

URBAN WASTE WATER TREATMENT REGULATIONS

- UO** (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 more than 150,000 discharging to an estuary.
- (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(1) and shall satisfy the relevant requirements of Part I of Schedule 3.
- 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 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.

U4(a) (i) Inlet sampling point, Havant Catchment

An appropriately labelled sample point shall be and maintained at National Grid Reference SU 7079 0564, as shown marked 'SAMPLING POINT BF5 INLET WORKS UWWD CRUDE SEWAGE SAMPLING POINT (HAVANT)' on the attached Plan A80179.0516 Rev B attached as annex 2(a), or some other point as agreed in writing with the Agency, so that a

representative sample of the Influent may be obtained.

U4(a) (ii) Inlet sampling point, Portsmouth Catchment

An appropriately labelled sample point shall be provided and maintained at National Grid Reference SU 7075 0540, as shown marked 'SAMPLING POINT BF6 COMPACT SPIRAL LAMELLAS DISTRIBUTION CHAMBER UWWO CRUDE SEWAGE SAMPLING POINT (PORTSMOUTH PLUS CESS LIQUORS)' on the attached Plan A80179.0516 Rev B attached as annex 2(a), or some other point as agreed in writing with the Agency, so that a representative sample of the Influent may be obtained.

CONSENT NO:	A.751/H/97	
SCHEDULE NO:	A.751/H/97	04
DATE ISSUED	10th June 2002	

CONDITIONS OF CONSENT TO DISCHARGE

SETTLED SCREENED STORM SEWAGE ("the discharge")

**FROM: BUDDS FARM WASTEWATER TREATMENT WORKS,
SOUTHMOOR LANE, HAVANT, HAMPSHIRE (BUDDS FARM OUTFALL)**

Nature of Discharge

1. The Discharge shall consist solely of settled screened storm sewage.

Place of Discharge

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 1725 millimetre diameter pipe,
 - (b) discharging to Langstone Harbour,
 - (c) at National Grid Reference SU 7054 0510,
 - (d) shown marked "BUDDS FARM OUTFALL" on drawing number A80179.0123 attached as Annex 1(b).

Sampling Point Requirements

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SU 7066 0561 as shown marked 'SAMPLING POINT BF3' on Plan A80179.0516 Rev B attached as Annex 2(a) 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.

Volume

4. The Discharge shall occur when and only for as long as, the storm tanks are full. The Discharge of storm sewage to the storm tanks shall only occur when the rate of flow from the Havant catchment at the storm sewage separating weir is in excess of 953 litres per second due to rainfall and/or snow melt. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.

5. The capacity of the storm tanks shall be at least 7250 cubic metres.

Flow measurement

6. (a) A continuous flow monitoring and recording system, to a specification provided by the Agency, with on-site visual display from which readings can be readily obtained by the Agency, shall be provided and operated to record the daily volume and instantaneous flow of the discharge
- (b) As soon as practicable after completion of the flow system installation the Consent Holder shall employ an independent expert to certify that the installation complies with the Agency's specification. The Consent Holder shall satisfy himself as to the professional competence of the expert. A copy of the certifier's report shall be provided to the Agency when it is available.

Composition

- 7 (a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.
- (b) The screening device shall be maintained in an efficient operational condition.
- (c) All screenings must be removed and disposed of in a manner such as to prevent entry to the Discharge.

Works Operation Condition

8. (i) 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.
- (ii) This condition does not require any alteration of the works or a change in the type of treatment used.

Recording and Reporting

9. (a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. 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 effluent quality.
10. The Consent Holder shall notify the Agency in writing if any known or planned introduction or material change in respect of discharges from trade

premises to the sewerage system occurs, that may increase or introduce into the effluent any "dangerous substance" (set out in Annex 3 to this notice as updated from time to time and notified to the Consent Holder in writing), and any other substance considered by the Consent Holder as having or likely to have a significant effect on the receiving waters.

Substantial Change Condition

11. (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 change 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 characteristic of the Discharge which is specifically regulated by a condition 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.

Unauthorised Discharges Condition

12. (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 NO:	A.751/H/97
SCHEDULE NO:	A.751/H/97 05
DATE ISSUED:	10th June 2002

CONDITIONS OF CONSENT TO DISCHARGE

PRELIMINARY TREATED SEWAGE EFFLUENT IN AN EMERGENCY CAUSED BY FAILURE OF THE TRANSFER TUNNEL OR DURING ITS ROUTINE MAINTENANCE OR FAILURE OF THE FINAL EFFLUENT BOOSTER PUMPING STATION ("the Discharge")

FROM: EASTNEY LONG SEA OUTFALL

Nature of Discharge

1. The Discharge shall consist solely of preliminary treated sewage effluent in an emergency arising from failure of the sewage transfer tunnel between Eastney Pumping Station and Budds Farm WTW or during its routine maintenance or failure of the final effluent booster pumping station and it is not reasonably practicable to dispose of the sewage otherwise. There shall be no undue delay on the part of the Consent holder in remedying any such failure or breakdown.

Place of Discharge

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via a 1400 millimetre diameter pipe terminating with a diffuser section of 96 metres in length and consisting of 9 ports of maximum diameter 406 millimetres and spaced at 12 metre intervals.
 - (b) discharging to the Solent
 - (c) at National Grid Reference SZ 6679 9325
 - (d) shown marked "EASTNEY LONG SEA OUTFALL POINT OF DISCHARGE SZ 6679 9325" on A80179.0269 attached as Annex 1(a).
 - (e) with the top inner surface of the outfall pipe located below 17.74 metres Ordnance datum Newlyn (ODN).

Sampling Point Requirements

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SZ 6737 9929 as shown marked 'SAMPLING POINT E2' on Plan A80179.2090 attached as Annex 2(b) 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.

Rate of flow

4. The rate of discharge shall not exceed 3,600 litres per second.

Flow measurement

5. (a) A continuous flow monitoring and recording system, to a specification provided by the Agency, with on-site visual display from which readings can be readily obtained by the Agency, shall be provided and operated to record the daily volume and instantaneous flow of the discharge:
- (b) As soon as practicable after completion of the flow system installation the Consent Holder shall employ an independent expert to certify that the installation complies with the Agency's specification. The Consent Holder shall satisfy himself as to the professional competence of the expert. A copy of the certifier's report shall be provided to the Agency when it is available.
- (c) Records of the flow readings shall be maintained by the Consent Holder and shall be provided to the Agency when requested, in a format specified by the Agency.
- (d) The Consent Holder shall produce and maintain a quality control manual, approved by the independent expert and to the satisfaction of the Agency, specifying procedures for the calibration, operation and maintenance of the flow monitoring system. The flow system 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 by the Agency and provide a copy to the Agency on request.
- (e) The Consent Holder shall record all failures of the continuous flow system and any other 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 recorder remains fully operational at all times. Any failures shall be remedied as soon as possible.

Screening/Solids separation

- 6 (a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.
- (b) The screening device shall be maintained in an efficient operational condition.

- (c) All screenings must be removed and disposed of in a manner such as to prevent entry to the Discharge.

Telemetry

- 7. (a) A 24 hour response telemetry alarm system shall be provided and maintained to give notification of failure or breakdown of the transfer tunnel.
- (b) The Consent Holder shall take all reasonable remedial measures to return the transfer tunnel to normal operation, as soon as practicable after receipt of warning of failure or breakdown of the transfer tunnel.
- (c) The Consent Holder shall notify the Agency, as soon as practicable, when there is potential for operation of the emergency overflow in the event of failure or breakdown of the transfer tunnel.

Recording and reporting

- 8. (a) The Consent Holder shall establish and operate a documented maintenance programme and record all non-routine actions undertaken that may have adversely affected effluent quality. 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 effluent quality.

Maintenance

- 9. (a) The Consent Holder shall maintain the transfer tunnel in an efficient operational condition, so as to minimise the probability of blockages or other failures, and shall implement periodic inspections of the integrity and performance of the transfer tunnel in accordance with condition 9 from Schedule A.751/H/97 02.
- (b) On request the Consent Holder shall supply the Agency with a written report on the maintenance and all non-routine actions undertaken.

Listed substances

- 10. The Consent Holder shall notify the Agency in writing if any known or planned introduction or material change in respect of discharges from trade premises to the sewerage system occurs, that may increase or introduce into the effluent any "dangerous substance" (set out in Annex 3 to this notice as updated from time to time and notified to the Consent Holder in writing), and any other substance considered by the Consent Holder as having or likely to have a significant effect on the receiving waters.

CONSENT NO:	A.751/H/97
SCHEDULE NO:	A.751/H/97 06
DATE ISSUED:	10th June 2002

CONDITIONS OF CONSENT TO DISCHARGE

PRELIMINARY TREATED SEWAGE IN AN EMERGENCY CAUSED BY FAILURE OF THE TRANSFER TUNNEL OR DURING ITS ROUTINE MAINTENANCE OR FAILURE OF THE FINAL EFFLUENT BOOSTER PUMPING STATION ("the Discharge")

FROM: FORT CUMBERLAND STORM WATER TANKS, FORT CUMBERLAND ROAD, EASTNEY, PORTSMOUTH, HAMPSHIRE

Nature of Discharge

1. The Discharge shall consist solely of preliminary treated sewage in an emergency arising from failure of the sewage transfer tunnel between Eastney Pumping Station and Budds Farm WTW or during its routine maintenance or failure of the final effluent booster pumping station and it is not reasonably practicable to dispose of the sewage otherwise. There shall be no undue delay on the part of the Consent Holder in remedying any such failure or breakdown.

Place of Discharge

2. The Discharge shall be made in the manner and at the place specified as:
 - (a) discharging via two 1800 millimetre diameter pipes.
 - (b) discharging to Langstone Harbour Entrance.
 - (c) at National Grid Reference SZ 6858 9929
 - (d) shown marked "STORM OUTFALL" on Plan A80179.0126 attached as Annex 1 (c)

Sampling point requirements

3. An appropriately labelled sample point shall be provided and maintained at National Grid Reference SZ 6850 9936 as shown marked 'SAMPLING POINT FC1' on plan A80179.2127 attached as Annex 2(c) 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 sample of what was discharging into controlled waters.

Volume

4. The Discharge shall occur when and only the capacity of the storm sewage storage tanks at Fort Cumberland of 40,000 cubic metres and the rate of flow through the Long Sea Outfall at Eastney of 3,600 litres per second have been exceeded.

Storage in the sewerage system

5.
 - (a) A storm sewage storage facility at Fort Cumberland of 40,000 cubic metres design capacity shall be provided and fully utilised prior to Discharge being made.
 - (b) The Discharge shall occur when, and only for as long as, the storm sewage storage tanks are full and the capacity of the Long Sea Outfall at Eastney has been exceeded. The storm sewage storage tanks shall be emptied and their contents returned to the pass forward flow as soon as practicable after cessation of the overflow.

Screening/Solids separation

6.
 - (a) The Discharge shall have passed, without prior comminution or maceration, through a screening device having apertures no greater than 6 millimetres in two dimensions.
 - (b) The screening device shall be maintained in an efficient operational condition.
 - (c) All screenings must be removed and disposed of in a manner such as to prevent entry to the Discharge.

Event monitor/telemetry

7.
 - (a) A recording system shall be provided and maintained to record the frequency and duration of overflow events.
 - (b) On request, the Consent Holder shall supply the Agency with a written report on the frequency and duration of overflow events.

Telemetry

8.
 - (a) A 24 hour response telemetry alarm system shall be provided and maintained to give notification of failure or breakdown of the tunnel transfer system.
 - (b) The Consent Holder shall take all reasonable remedial measures to return the transfer tunnel to normal operation, as soon as practicable after receipt of warning of failure or breakdown.

- (c) The Consent Holder shall notify the Agency, as soon as practicable, when there is potential for operation of the emergency overflow in the event of failure or breakdown of the tunnel transfer system.

G:\WaterQuality Business Services\AUTHORISATIONS\Southern Water\Portseaclean\Final
consents\A751 issued 10-6-02.doc

ANNEX 3 A.751/H/97

1. Mercury and its compounds	2. Cadmium and its compounds
3. Hexachlorocyclohexane (lindane and related compounds)	4. Carbon tetrachloride
5. DDT (the isomers of 1,1,1-trichloro-2,2 bis {p-chlorophenyl} ethane)	
6. Pentachlorophenol (PCP)	7. Aldrin
8. Dieldrin	9. Endrin
10. Isodrin	11. Hexachlorobenzene (HCB)
12. Hexachlorobutadiene (HCBd)	13. Chloroform
14. Polychlorinated biphenyls	15. Dichlorvos
16. 1,2-Dichloroethane	17. Trichlorobenzene
18. Atrazine	19. Simazine
20. Tributyltin compounds	21. Triphenyltin compounds
22. Trifluralin	23. Fenitrothion
24. Azinphos-methyl	25. Malathion
26. Endosulfan	27. Lead
28. Chromium	29. Zinc
30. Copper	31. Nickel
32. Arsenic	33. *Iron
34. *pH outside range 5.5 to 9.0	35. *Boron
36. Vanadium	37. PCSD'S
38. Cyfluthrin	39. Sulcofuron
40. Flucifuron	41. Permethrin
42. 4-Chloro-3-methyl-phenol	43. 2-Chlorophenol
44. 2,4-Dichlorophenol	45. 2,4-D (ester)
46. 2,4-D (non ester)	47. 1,1,1-Trichloroethane
48. 1,1,2-Trichloroethane	49. Bentazone
50. Benzene	51. Biphenyl
52. Chloronitrotoluenes	53. Demeton
54. Dimethoate	55. Linuron
56. MCPA	57. Mecoprop
58. Mevinphos	59. Napthalene
60. Omethoate	61. Toluene
62. Triazophos	63. Xylene
64. Cyanide	65. Azinphos-ethyl
66. Fenthion	67. Parathion
68. Parathion-methyl	69. Trichloroethylene
70. Tetrachloroethylene	71. Dioxins
72. PAHs	73. Nonyl phenol
74. Nonyl phenyl ethoxylate	75. Di-ethylhexyl phthalate
76. Bisphenol-A	77. Diazinon
78. Chlorfenvinphos	79. Chlorotoluron
80. Isoproturon	81. Diuron
82. Propetamphos	83. Flumethrin
84. Amitraz	85. High-Cis Cypermethrin
86. Cyromazine	87. Deltamethrin
88. Cypermethrin	

This list is applicable as at 1 December 1998 and will be updated as and when changes to the relevant legislative requirements occur.

*Notification to the Agency by the Consent holder is only required in respect of changes to trade effluents likely to cause significant changes to the pH value, and/or iron or boron concentrations, of the crude sewage.

A.751/H/97

Budds Farm WTW, Havant.

Annex 3

ANNEX 4 A.751/H/97**TABLE**

Column 1	Column 2
Series of Samples Taken in Any Year	Maximum Permitted Number of Samples Which Fail to Conform to Numerical Limits
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

A.751/H/97**Budds Farm WTW, Havant.****Annex 4**

Water Resources Act 1991
as amended by the Environment Act 1995
Consent to Discharge
Certificate of Holder



**ENVIRONMENT
AGENCY**

Part A

To:

Southern Water Services Ltd
Southern House
Yeoman Road
Worthing
BN13 3NX

The Environment Agency ("the Agency") hereby confirm that the above named person is a/the registered holder of consent **A.751/H/97**

Nature of Discharge(s): **Secondary treated, Preliminary treated sewage effluent and storm sewage**
at **Budds Farm WTW, Southmoor Lane, Havant, Hampshire**

Note: This certificate should be kept with the consent document for future reference. If you transfer responsibility for the discharge to somebody else you must pass the consent to them and tell the Agency within 21 days. **Responsibility for the consent cannot be disclaimed by the holder but the registration of holder may be transferred to a successor.** To do this please complete the form below, then tear it off and return it to the address shown. If you fail to transfer the consent, even though you are no longer on the site, you may still be liable for prosecution for pollution. If you transfer the consent but do not tell us, you will be committing an offence. In case of any queries please contact your local Environment Agency office.

Part B Please complete in block capitals or type.

To: Environment Agency,
Guildbourne House, Chatsworth Road, Worthing, West Sussex, BN11 1LD

Water Resources Act 1991: Notice of transfer of consent to discharge

Consent: **A.751/H/97** **Name:** **Southern Water Services Ltd**
Address: **Southern House**
Yeoman Road
Worthing
BN13 3NX

I/We* hereby serve notice on the Agency that I/we* am/are* no longer a/the* Holder of the above consent which will be/was* transferred to: * delete as appropriate

Name(s) of new holder(s):

Address:

Post Code:

Date of Transfer to new Holder(s):

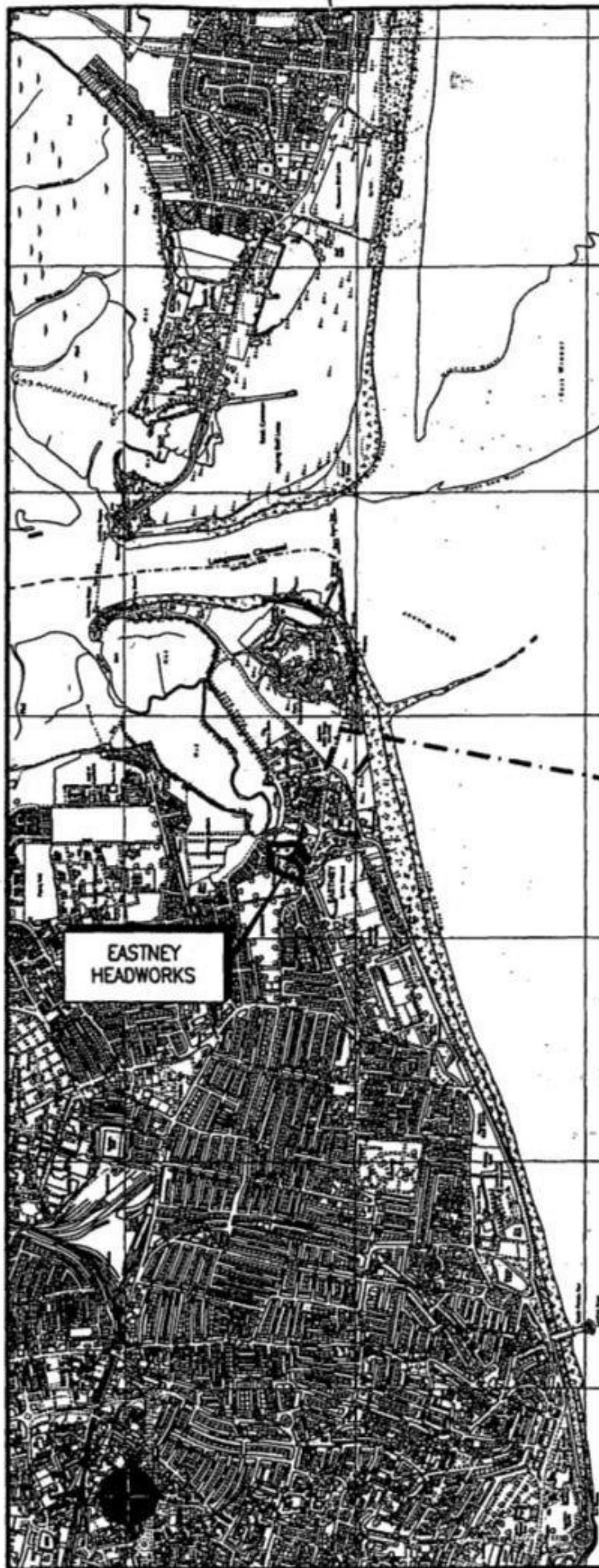
Signed:

Dated:

Name (block capitals):

Position:





NOTES

1. S.W.S. DRAWING REFERENCE NUMBER
A80179.0269.

Annex 1(a) A751/H/97

A.751/H/97

Budds Farm WTW, Havant.

Annex 1 (a)

Rev.	Date	Description	By

Copyright and other intellectual property rights in this document and all related documents, drawings, etc., including calculations is vested in Southern Water plc, and cannot be used or reproduced for any other purpose than that for which they have been reproduced without the express permission in writing by Southern Water plc.



Technology Group

Victory House
Minor Royal Crescent
West Sussex PO16 2PN
Telephone 01293 911444
Fax 01293 912888

PORTSMOUTH AND HAVANT
WTW AND SRC SCHEME

EASTNEY LONG SEA OUTFALL
LOCATION PLAN

Scale 1:25000	Drawn by [Signature]	Date 27/04/98	Sheet no A3
Designed by [Signature]	Checked by [Signature]	Approved by [Signature]	Date approved 27/4/98

FIGURE 16

The material contained in this document has been reproduced from an Ordnance Survey map with permission of the Controller of Her Majesty's Stationary Office. Crown Copyright reserved. Licence No. W.V. 298530.

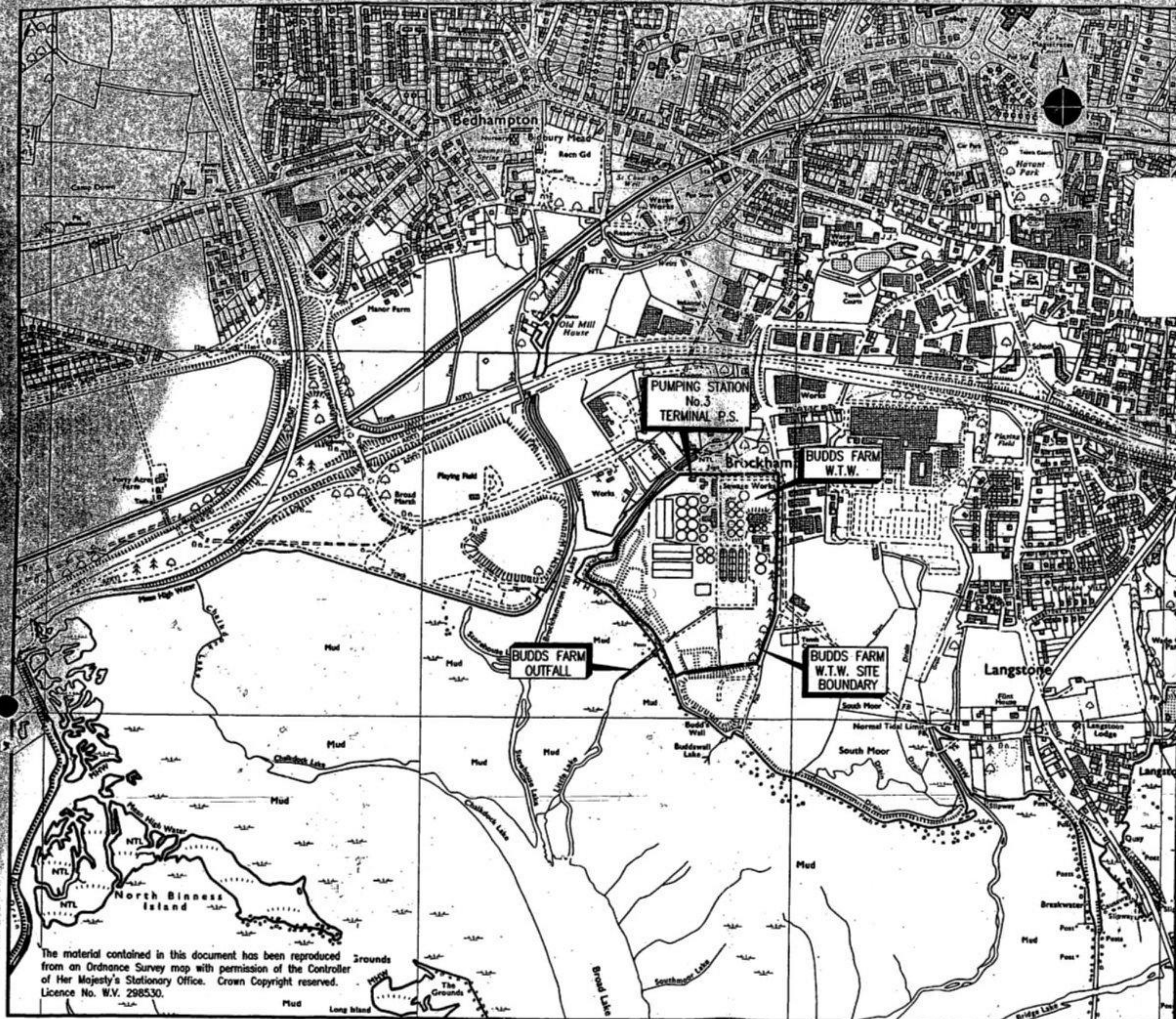
NOTES

1. S.W.S. DRAWING REFERENCE NUMBER
A80179.0123

A.751/H/97

Budds Farm WTW, Havant.

Annex 1 (b)



Rev.	Date	Description	By
------	------	-------------	----

Copyright and other intellectual property rights in this document and all related documents, drawings, etc., including calculations is vested in Southern Water plc. and cannot be used or reproduced for any other purpose than that for which they have been reproduced without the express permission in writing by Southern Water plc.



Southern Water

Technology Group
Victory House
Minor Royal Crescent
West Sussex BN10 2PN
Telephone 01253 914444
Fax 01253 910333

A ScottishPower Company

PORTSMOUTH AND HAVANT
WTW AND SRC SCHEME

BUDDS FARM
SITE LOCATION PLAN

Scale 1:10000	Drawn by THB	Date drawn 12/4/97	Sheet size A3
Designed by MR	Checked by AS	Approved by PAC	Drawn by THB

FIGURE 2B

The material contained in this document has been reproduced from an Ordnance Survey map with permission of the Controller of Her Majesty's Stationary Office. Crown Copyright reserved. Licence No. W.V. 298530.

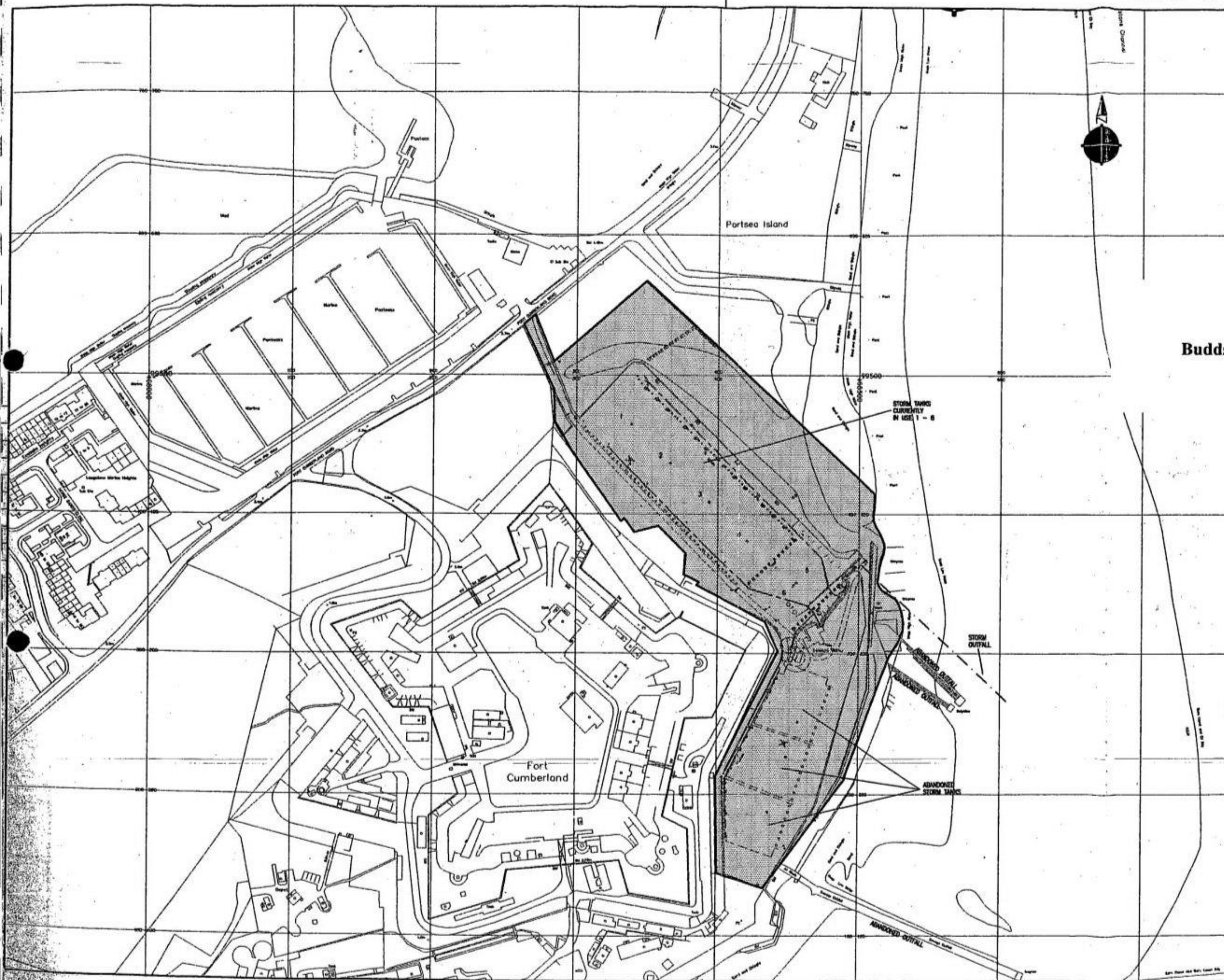


FIGURE 3C	
LEGEND	
	AREA OWNED BY SWS LTD
	OUTFALL
NOTES	
1. S.W.S. DRAWING REFERENCE NUMBER A60179.0126	

A.751/H/97

Budds Farm WTW, Havant.

Annex 1 (c)

Rev.	Date	Description	By
1		Copyright and other intellectual property rights in this document and all related documents, drawings etc., including sub-contractors, is reserved to Southern Water plc. No part of this document may be reproduced or transmitted in any form or by any means electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without the prior written permission of Southern Water plc.	
Southern Water A BritishPower Company			
Technology Group Victory House Manor Royal Crawley West Sussex BN11 9BN Telephone 01293 611444 Fax 01293 612033			
PORTSMOUTH AND HAVANT WTW AND SRC SCHEME			
FORT CUMBERLAND SITE PLAN EXISTING WORKS			
Scale 1:1250	Drawn by J.R.	Check by J.R.	Drawn date A1
Revised by J.R.	Revised by J.R.	Revised by J.R.	Revised date 22/10/97
FIGURE 3C			

SAMPLING POINT SCHEDULE

SAMPLING POINT	APPLICATION NUMBER	SCHEDULE NUMBER	O.S. GRID REFERENCE
E1	A.751/H/97	01	E467405 N099319
E2	A.754/H/97	01	E467378 N099295

LEGEND

 SAMPLING POINT
A.751/H/97
Budds Farm WTW, Havant.
Annex 2 (b)

Rev.	Date	Description	By
Copyright and other intellectual property rights in this document and all related documents, drawings, etc., including calculations, is invested in Southern Water plc. and cannot be used or reproduced for any other purpose than that for which they have been created without the express permission in writing by Southern Water plc.			

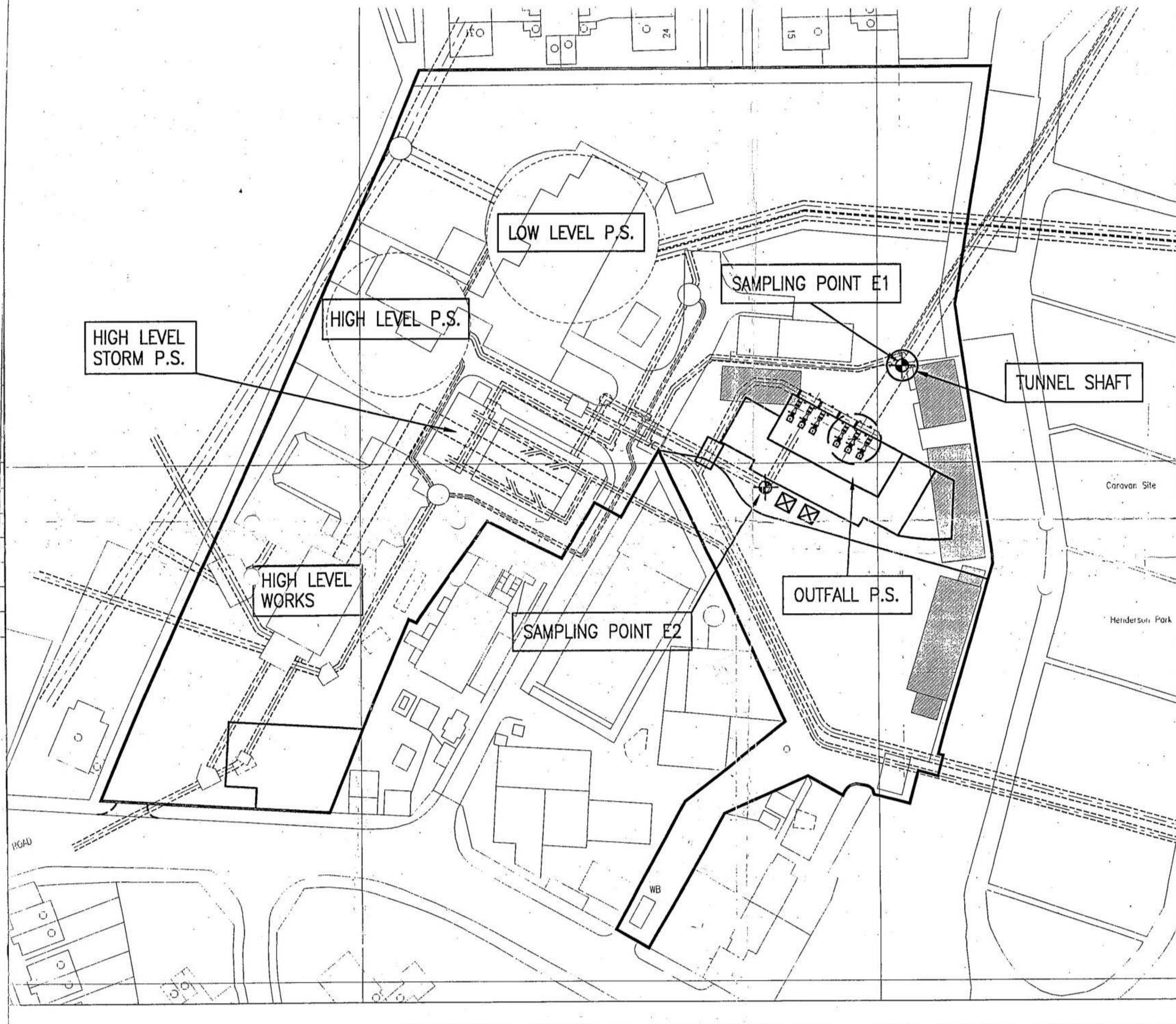
**Southern Water**
A ScottishPower Company

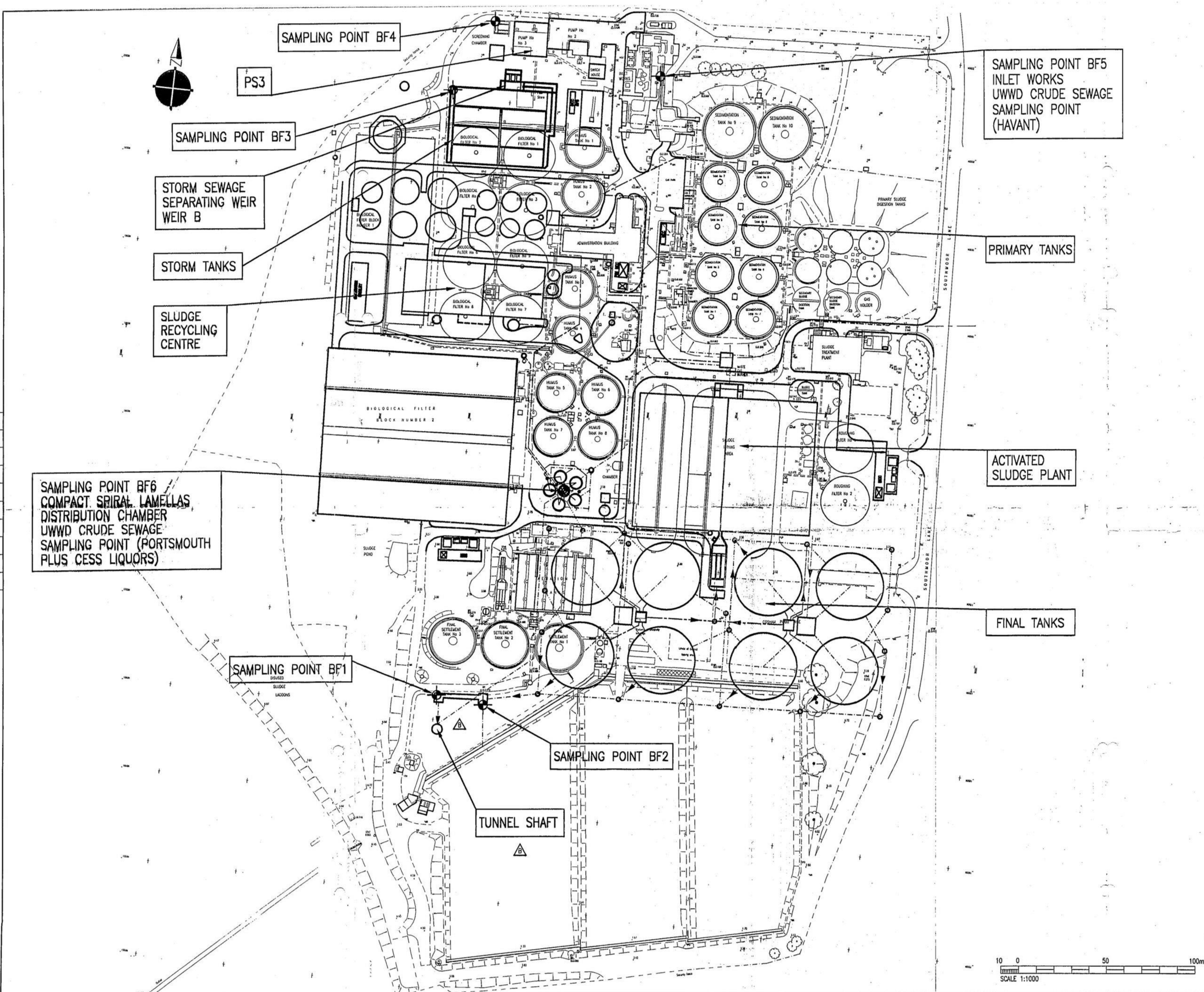
Technology Group
Victory House
Manor Royal Crawley
West Sussex RH10 2PN
telephone (01293) 511444
fax (01293) 510333

Project title
**PORTSMOUTH & HAVANT
WASTEWATER TREATMENT &
SLUDGE RECYCLING SCHEME**

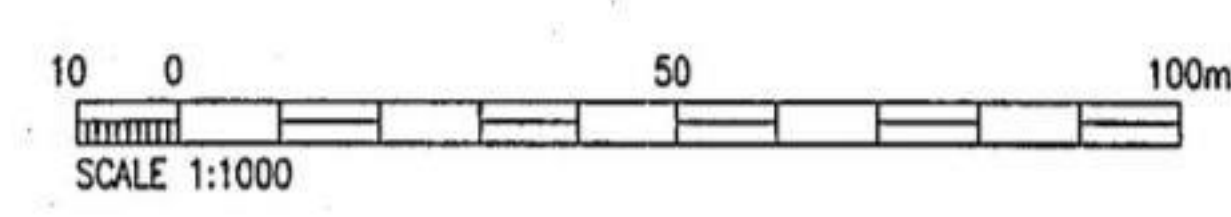
Drawing title
**EASTNEY HEADWORKS
DETAILS OF SAMPLING POINTS**

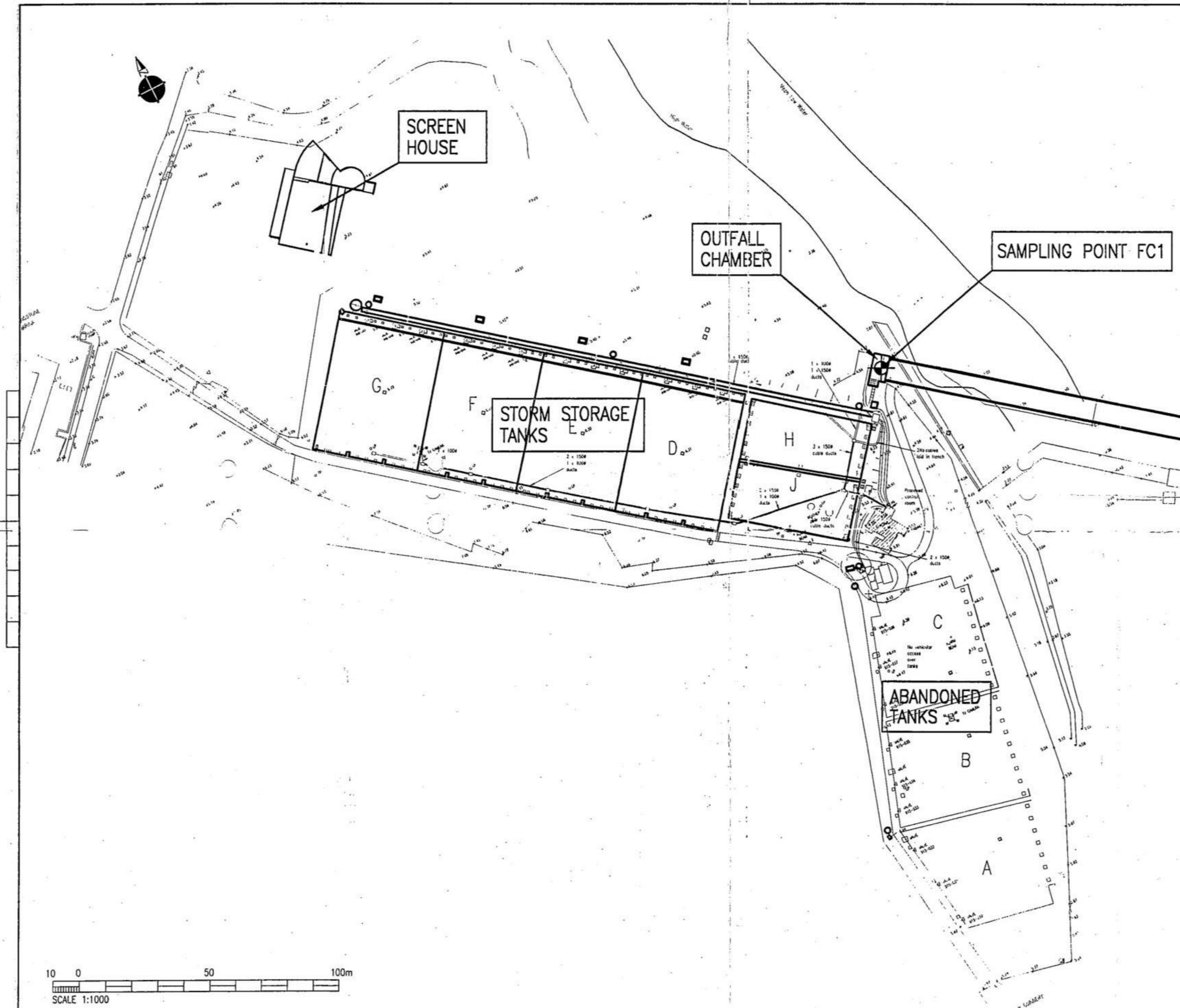
Scales 1:500	Drawn by MPT	Date drawn 28.07.98	Sheet size A2
Designed by <i>MS</i>	Checked by <i>ES</i>	Approved by <i>ATC</i>	Date approved 5/8/98
Drawing No. A80179.2090			Revision





A80179.0516			B
SAMPLING POINT SCHEDULE			
SAMPLING POINT	APPLICATION NUMBER	SCHEDULE NUMBER	O.S. GRID REFERENCE
BF1	A.751/H/97	01	E470682 N105281
BF2	A.751/H/97	02	E470706 N105278
BF3	A.751/H/97	04	E470676 N105626
BF4	A.752/H/97	01 02	E470704 N105667
BF5	A.751/H/97	01	E470795 N105648
BF6	A.751/H/97	01	E470752 N105403
LEGEND			
 SAMPLING POINT			
NOTES			
1. WORKS UNDER CONSTRUCTION. SITE LAYOUT SUBJECT TO MINOR DESIGN DEVELOPMENT.			
A.751/H/97			
Budds Farm WTW, Havant.			
Annex 2 (a)			
B	22.12.99	MINOR AMENDMENTS	MPT
A	07.12.99	STORM TANK ARRANGEMENT & SAMPLING POINTS REVISED. SAMPLING POINTS BF5 & BF6 ADDED.	MPT
Rev.	Date	Description	By
Copyright and other intellectual property rights in this document and all related documents, drawings, etc., including calculations, is reserved in Southern Water Services Ltd and cannot be used or reproduced for any other purpose than that for which they have been created without the express permission in writing by Southern Water Services Ltd.			
 Project Delivery Victory House Manor Royal Crawley West Sussex RH10 2PN telephone 01293 511444 fax 01293 510333			
PORTSMOUTH AND HAVANT WASTEWATER TREATMENT AND SLUDGE RECYCLING SCHEME			
BUDDS FARM WTW DETAILS OF SAMPLING POINTS			
Scale	1:1000	Drawn by	MPT
Designed by		Checked by	
Southern Water Drawing No.		Approved by	
A80179.0516		Date approved	25/12/99
		Revision	B





Drawing No. A80179.2127		Revision	
SAMPLING POINT SCHEDULE			
SAMPLING POINT	APPLICATION NUMBER	SCHEDULE NUMBER	O.S. GRID REFERENCE
FC1	A.751/H/97 A.753/H/97	06 01	E468502 N099361
LEGEND			
SAMPLING POINT A.751/H/97 Budds Farm WTW, Havant. Annex 2 (c)			
Rev.	Date	Description	By
Copyright and other intellectual property rights in this document and all related documents, drawings, etc., including calculations, is invested in Southern Water plc, and cannot be used or reproduced for any other purpose than that for which they have been created without the express permission in writing by Southern Water plc.			
Southern Water A ScottishPower Company		Technology Group Victory House Manor Royal Crawley West Sussex RH10 2PN telephone (01293) 511444 fax (01293) 510333	
Project title PORTSMOUTH & HAVANT WASTEWATER TREATMENT & SLUDGE RECYCLING SCHEME			
Drawing title FORT CUMBERLAND DETAILS OF SAMPLING POINT			
Scales	Drawn by	Date drawn	Sheet size
1:1000	MT	28.07.98	A2
Designed by	Checked by	Approved by	Date approved
MS	JS	MC	5/8/98

MODIFICATION of CONSENT NO.	A.751/H/97
--	-------------------

THE ENVIRONMENT AGENCY

WATER RESOURCES ACT 1991
(As amended by the Environment Act 1995)

SECTION 88 - SCHEDULE 10**NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE**

TO: Southern Water Services Ltd ("The Consent Holder")
 Southern House
 Yeoman Road
 Worthing
 West Sussex
 BN13 3NX

WHEREAS the Environment Agency (the 'Agency') in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995)

GRANTED CONSENT to the making of several discharges of **SEWAGE EFFLUENT** on the 10th day of June 2002 subsequently modified on the 3rd September 2002 and the 14th December 2004 and varied on the 15th December 2005

FROM: Budds Farm Wastewater Treatment Works

AT: Southmoor Lane, Havant, Hampshire.

TO: Controlled waters as specified in the appropriate schedules

the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby **GIVES NOTICE** that Consent No. A.751/H/97 is hereby modified as follows:

Secondary treated sewage effluent **A.751/H/97 01(M)**

**Intermittent discharge of
Secondary treated sewage effluent** **A.751/H/97 02(M)**

Settled screened storm sewage **A.751/H/97 04(M)**

The Conditions of Schedule A.751/H/97 01 and Schedule A.751/H/97 02 and Schedule A.751/H/97 04 are modified as detailed in this Notice.

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991, as amended by the Environment Act 1995, no notice shall be served by the Agency which alters the effect of the modification 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.

Environment Agency

Colvedene Court, Wessex Way, Colden Common, Winchester, Hampshire SO21 1WP
 Telephone: 08708 506 506 Fax: (01962) 841573

This Notice of Modification is issued on the 6th March 2008 and takes effect on the 31st March 2008

Signed



Team Leader Environment Management

NOTE: Consent A.751/H/97 is updated accordingly.
All other conditions of the Consent A.751/H/97 remain in force.
This Notice of Modification should be attached to the Consent A.751/H/97.

Consent History – for information purposes only

Consent Detail	Date		Comment
Application	Received	30/07/97	Determined
Consent A.751/H/97	Issued	10/06/02	Effective
Modification	Dated	03/09/02	Effective
Variation	Dated	15/12/05	Effective
Modification	Dated	20/12/05	Effective
Modification	Dated	06/03/08	Effective – nitrogen removal to meet Habitats Directive requirements and 2015 Design horizon

CONSENT NO:	A.751/H/97
SCHEDULE NO:	A.751/H/97 01(M)
DATE MODIFIED:	06/03/2008

CONDITIONS TO BE MODIFIED:

Design Dry Weather Flow

5. The Design Dry Weather Flow of the discharge shall not exceed 108,853 cubic metres per day.
 - i) For the purpose of this condition the "Design Dry Weather Flow" consent limit is the total daily volume that when the sewerage and treatment system is operating at full design capacity will be exceeded for 80% of the time.

Measured Dry Weather Flow

- ii) In determining compliance with this consent, the Measured Dry Weather Flow is that total daily volume that is exceeded by 90% of the measured total daily volume values in any period of 12 months.
- iii) The numeric value of the measured Dry Weather Flow shall not exceed the numeric value of the design Dry Weather Flow
- iv) Any condition specifying a maximum daily flow that may be discharged in dry weather shall be taken as specifying the maximum Design Dry Weather Flow as defined in i) above

CONSENT NO:	A.751/H/97
SCHEDULE NO:	A.751/H/97 01(M)
DATE MODIFIED:	06/03/2008

CONDITIONS TO BE ADDED:

28. i) **For the period up to and including the 31 March 2012** the annual (calendar year) mean concentration¹ of total nitrogen² (TN) of the treated sewage effluent shall not exceed 10 milligrammes per litre.

ii) **For the period commencing the 1 April 2012**

a) the annual (calendar year) mean concentration¹ of total nitrogen² (TN) of the treated sewage effluent shall not exceed 9.7 milligrammes per litre,

OR

b) the mean annual (Calendar year) daily total nitrogen (TN) load³ of the treated sewage effluent shall not exceed 1322 kilogrammes per day.

¹ The annual (calendar year) mean concentration shall be calculated as the arithmetical mean of the total nitrogen concentrations of a series of samples taken of the treated sewage effluent, by the consent holder for the purposes of demonstrating compliance with the Urban Waste Water Treatment Regulations' requirements regarding the removal of BOD and Total Nitrogen [as required by condition U2 (b) of Modification Schedule A.751/H/97 03 (M), issued on the 14th December 2004), during a calendar year.

² Total nitrogen (TN) = the sum of the total Kjeldahl-nitrogen (organic nitrogen + ammoniacal nitrogen) + nitrate nitrogen + nitrite nitrogen.

³ For the purposes of this condition the mean annual (calendar year) daily total nitrogen (TN) load shall be calculated from the 80%-exceeded flow (Q₈₀) recorded for each calendar year, as required by the Agency's Flow Measurement policy, from the flow data provided by the Consent Holder to the Agency under the requirements of condition 8(e) of Schedule A.751/H/97 01(M); and the treated sewage effluent's annual mean total nitrogen concentration, as calculated as per¹ above, for the same calendar year, i.e.

$$\frac{80\% \text{ -exceeded flow (m}^3\text{/day) x Effluent's mean TN concentration (mg/l)}}{1,000} = \text{kg/day}$$

CONDITIONS TO BE DELETED:

Conditions 4, 6 and 7.

CONSENT NO:	A.751/H/97
SCHEDULE NO:	A.751/H/97 02(M)
DATE MODIFIED:	06/03/2008

CONDITIONS TO BE MODIFIED:

Volume

4. The Discharge of secondary treated sewage effluent into Langstone Harbour shall only take place when the sum of the treated sewage effluent from Budds Farm WTW and screened storm sewage from the Portsmouth catchment exceeds 3600 litres per second (maximum capacity for Eastney LSO). At times when an admixture of screened storm sewage and secondary treated sewage effluent is discharged via Eastney LSO, a minimum of 1379 litres per second of secondary treated sewage effluent shall be included.
6. When storm sewage flows from the Portsmouth catchment entering the Eastney Headworks fall below 2221 litres per second, treated sewage effluent discharged to Langstone Harbour catchment shall be incrementally transferred for discharge via the Long Sea Outfall at Eastney. The Discharge of treated sewage effluent discharging via the Budds Farm outfall to Langstone Harbour will be progressively reduced until normal flow conditions are resumed and the Discharge shall cease.

CONDITION TO BE ADDED:

Provision of Annual Summaries of Operation

25. (a) The Consent Holder Shall supply both the appropriate Environmental Health Officer(s) and the Agency, with an annual written report of the operation of the secondary treated sewage effluent, to include date, start time and duration of each discharge in accordance with the format provided by the Agency.
- (b) The provision of this report will coincide with the annual classification under the Shellfish Hygiene Directive. The report shall cover the 12 month period 1st April – 31st March inclusive and shall be provided by the end of the following May.

CONDITIONS TO BE DELETED:

Conditions 7, 8, 9 and 10.

CONSENT NO:	A.751/H/97
SCHEDULE NO:	A.751/H/97 04(M)
DATE MODIFIED:	06/03/2008

CONDITIONS TO BE MODIFIED:

Volume

4. The Discharge shall occur when and only for as long as, the storm tanks are full. The Discharge of storm sewage to the storm tanks shall only occur when the rate of flow from the Havant catchment at the storm sewage separating weir is in excess of 983 litres per second due to rainfall and/or snow melt. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.
5. The capacity of the storm tanks shall be at least 7250 cubic metres.

CONDITION TO BE ADDED:

Provision of Annual Summaries of Operation

13. (a) The Consent Holder Shall supply both the appropriate Environmental Health Officer(s) and the Agency, with an annual written report of the operation of the settled storm sewage overflow, to include date, start time and duration of each spill in accordance with the format provided by the Agency.
- (b) The provision of this report will coincide with the annual classification under the Shellfish Hygiene Directive. The report shall cover the 12 month period 1st April – 31st March inclusive and shall be provided by the end of the following May.

Storm Tank Flow Measurement

14. (i) 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 sewage flow to the storm tanks. An on-site visual display from which instantaneous or 15 - minute integrated readings can be readily obtained by the Agency, shall be provided and operated to record the daily volume and instantaneous flow of the discharge of sewage to the storm tanks from the Havant Catchment.
- (ii) The records of the flow readings as described in condition 14 (i) above, shall be provided to the Agency when requested , in a format specified by the Agency.

MODIFICATION of CONSENT NO.
--

A.751/H/97

THE ENVIRONMENT AGENCY

**WATER RESOURCES ACT 1991
(As amended by the Environment Act 1995)**

SECTION 88 - SCHEDULE 10

NOTICE OF MODIFICATION OF CONSENT TO DISCHARGE

TO: Southern Water Services Ltd ("The Consent Holder")
Southern House
Yeoman Road
Worthing
West Sussex
BN13 3NX

WHEREAS the Environment Agency (the 'Agency') in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) **GRANTED CONSENT** to the making of several discharges of **SEWAGE EFFLUENT** on the 10th day of June 2002 subsequently modified on the 3rd September 2002 and the 14th December 2004 and varied on the 15th December 2005

FROM: Budds Farm Wastewater Treatment Works

AT: Southmoor Lane, Havant, Hampshire.

TO: Controlled waters as specified in the appropriate schedules

the Agency in pursuance of its powers under the Water Resources Act 1991 (as amended by the Environment Act 1995) hereby **GIVES NOTICE** that Consent No. A.751/H/97 is hereby modified as follows:

Secondary treated sewage effluent **A.751/H/97 01(M)**

**Intermittent discharge of
Secondary treated sewage effluent** **A.751/H/97 02(M)**

Settled screened storm sewage **A.751/H/97 04(M)**

The Conditions of Schedule A.751/H/97 01 and Schedule A.751/H/97 02 and Schedule A.751/H/97 04 are modified as detailed in this Notice.

Subject to the provisions of Paragraphs 7 and 8 of Schedule 10 of the Water Resources Act 1991, as amended by the Environment Act 1995, no notice shall be served by the Agency which alters the effect of the modification 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.

Environment Agency

Colvedene Court, Wessex Way, Colden Common, Winchester, Hampshire SO21 1WP
Telephone: 08708 506 506 Fax: (01962) 841573

This Notice of Modification is issued on the 6th March 2008 and takes effect on the 31st March 2008

Signed


Team Leader Environment Management

NOTE: Consent A.751/H/97 is updated accordingly.
 All other conditions of the Consent A.751/H/97 remain in force.
 This Notice of Modification should be attached to the Consent A.751/H/97.

Consent History – for information purposes only

Consent Detail	Date		Comment
Application	Received	30/07/97	Determined
Consent A.751/H/97	Issued	10/06/02	Effective
Modification	Dated	03/09/02	Effective
Variation	Dated	15/12/05	Effective
Modification	Dated	20/12/05	Effective
Modification	Dated	06/03/08	Effective – nitrogen removal to meet Habitats Directive requirements and 2015 Design horizon

CONSENT NO:	A.751/H/97
SCHEDULE NO:	A.751/H/97 01(M)
DATE MODIFIED:	06/03/2008

CONDITIONS TO BE MODIFIED:

Design Dry Weather Flow

5. The Design Dry Weather Flow of the discharge shall not exceed 108,853 cubic metres per day.
- i) For the purpose of this condition the "Design Dry Weather Flow" consent limit is the total daily volume that when the sewerage and treatment system is operating at full design capacity will be exceeded for 80% of the time.

Measured Dry Weather Flow

- ii) In determining compliance with this consent, the Measured Dry Weather Flow is that total daily volume that is exceeded by 90% of the measured total daily volume values in any period of 12 months.
- iii) The numeric value of the measured Dry Weather Flow shall not exceed the numeric value of the design Dry Weather Flow
- iv) Any condition specifying a maximum daily flow that may be discharged in dry weather shall be taken as specifying the maximum Design Dry Weather Flow as defined in i) above

CONSENT NO:	A.751/H/97
SCHEDULE NO:	A.751/H/97 01(M)
DATE MODIFIED:	06/03/2008

CONDITIONS TO BE ADDED:

28. i) **For the period up to and including the 31 March 2012** the annual (calendar year) mean concentration¹ of total nitrogen² (TN) of the treated sewage effluent shall not exceed 10 milligrammes per litre.

ii) **For the period commencing the 1 April 2012**

a) the annual (calendar year) mean concentration¹ of total nitrogen² (TN) of the treated sewage effluent shall not exceed 9.7 milligrammes per litre,

OR

b) the mean annual (Calendar year) daily total nitrogen (TN) load³ of the treated sewage effluent shall not exceed 1322 kilogrammes per day.

¹ The annual (calendar year) mean concentration shall be calculated as the arithmetical mean of the total nitrogen concentrations of a series of samples taken of the treated sewage effluent, by the consent holder for the purposes of demonstrating compliance with the Urban Waste Water Treatment Regulations' requirements regarding the removal of BOD and Total Nitrogen [as required by condition U2 (b) of Modification Schedule A.751/H/97 03 (M), issued on the 14th December 2004), during a calendar year.

² Total nitrogen (TN) = the sum of the total Kjeldahl-nitrogen (organic nitrogen + ammoniacal nitrogen) + nitrate nitrogen + nitrite nitrogen.

³ For the purposes of this condition the mean annual (calendar year) daily total nitrogen (TN) load shall be calculated from the 80%-exceeded flow (Q_{80}) recorded for each calendar year, as required by the Agency's Flow Measurement policy, from the flow data provided by the Consent Holder to the Agency under the requirements of condition 8(e) of Schedule A.751/H/97 01(M); and the treated sewage effluent's annual mean total nitrogen concentration, as calculated as per¹ above, for the same calendar year, i.e.

$$\frac{80\% \text{ -exceeded flow (m}^3\text{/day) x Effluent's mean TN concentration (mg/l)}}{1,000} = \text{kg/day}$$

CONDITIONS TO BE DELETED:

Conditions 4, 6 and 7.

CONSENT NO:	A.751/H/97
SCHEDULE NO:	A.751/H/97 02(M)
DATE MODIFIED:	06/03/2008

CONDITIONS TO BE MODIFIED:

Volume

4. The Discharge of secondary treated sewage effluent into Langstone Harbour shall only take place when the sum of the treated sewage effluent from Budds Farm WTW and screened storm sewage from the Portsmouth catchment exceeds 3600 litres per second (maximum capacity for Eastney LSO). At times when an admixture of screened storm sewage and secondary treated sewage effluent is discharged via Eastney LSO, a minimum of 1379 litres per second of secondary treated sewage effluent shall be included.
6. When storm sewage flows from the Portsmouth catchment entering the Eastney Headworks fall below 2221 litres per second, treated sewage effluent discharged to Langstone Harbour catchment shall be incrementally transferred for discharge via the Long Sea Outfall at Eastney. The Discharge of treated sewage effluent discharging via the Budds Farm outfall to Langstone Harbour will be progressively reduced until normal flow conditions are resumed and the Discharge shall cease.

CONDITION TO BE ADDED:

Provision of Annual Summaries of Operation

25. (a) The Consent Holder Shall supply both the appropriate Environmental Health Officer(s) and the Agency, with an annual written report of the operation of the secondary treated sewage effluent, to include date, start time and duration of each discharge in accordance with the format provided by the Agency.
- (b) The provision of this report will coincide with the annual classification under the Shellfish Hygiene Directive. The report shall cover the 12 month period 1st April – 31st March inclusive and shall be provided by the end of the following May.

CONDITIONS TO BE DELETED:

Conditions 7, 8, 9 and 10.

CONSENT NO:	A.751/H/97
SCHEDULE NO:	A.751/H/97 04(M)
DATE MODIFIED:	06/03/2008

CONDITIONS TO BE MODIFIED:

Volume

4. The Discharge shall occur when and only for as long as, the storm tanks are full. The Discharge of storm sewage to the storm tanks shall only occur when the rate of flow from the Havant catchment at the storm sewage separating weir is in excess of 983 litres per second due to rainfall and/or snow melt. The storm tanks shall be emptied automatically and their contents returned for full treatment as soon as practicable after cessation of the overflow to the storm tanks.
5. The capacity of the storm tanks shall be at least 7250 cubic metres.

CONDITION TO BE ADDED:

Provision of Annual Summaries of Operation

13. (a) The Consent Holder Shall supply both the appropriate Environmental Health Officer(s) and the Agency, with an annual written report of the operation of the settled storm sewage overflow, to include date, start time and duration of each spill in accordance with the format provided by the Agency.
- (b) The provision of this report will coincide with the annual classification under the Shellfish Hygiene Directive. The report shall cover the 12 month period 1st April – 31st March inclusive and shall be provided by the end of the following May.

Storm Tank Flow Measurement

14. (i) 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 sewage flow to the storm tanks. An on-site visual display from which instantaneous or 15 - minute integrated readings can be readily obtained by the Agency, shall be provided and operated to record the daily volume and instantaneous flow of the discharge of sewage to the storm tanks from the Havant Catchment.
- (ii) The records of the flow readings as described in condition 14 (i) above, shall be provided to the Agency when requested , in a format specified by the Agency.