



THAMES WATER UTILITIES LTD.

Water Industry Act 1991

CONSENT TO THE DISCHARGE OF TRADE EFFLUENT

WHEREAS

1. United Kingdom Research and Innovation (UKRI)
Polaris House
North Star Avenue
Swindon
Wiltshire
SN2 1FL

is/are the occupier(s)/owner(s) (hereinafter called THE APPLICANT) of the trade premises known as
United Kingdom Research and Innovation (UKRI) and situated at
R11
Science and Technology Facilities Council (STFC)
Rutherford Appleton Laboratory
Harwell Oxford
Didcot
Oxfordshire
OX11 0QX

(hereinafter called THE PREMISES) and by notice dated Eighth day of September, Two Thousand and Twenty Five has/have made application to Thames Water Utilities Ltd. (hereinafter called THE COMPANY) to Consent to the discharge of Trade Effluent by him/her/them from THE PREMISES into THE COMPANY's public foul water and/or combined sewers.

2. Now therefore in exercise of the powers conferred upon it in that behalf as a sewerage undertaker by the Water Industry Act 1991, THE COMPANY HEREBY CONSENTS to the discharge of Trade Effluent from THE PREMISES into THE COMPANY's public foul or combined sewer(s) (hereinafter called THE SEWER(S)) subject to the following conditions:

Nature and
composition

1. The nature and composition of the Trade Effluent (hereinafter called THE TRADE EFFLUENT) to be discharged under this Consent is: Waste liquids arising from R11 cooling tower blowdown

Sewer(s) affected	2. (a) THE SEWER(S) into which THE TRADE EFFLUENT may be discharged is/are THE SEWER(S) detailed below: foul sewer in Road 8, MH2301 And more particularly shown in line(s) on the annexed plan and thereon coloured red. The point(s) at or through which THE TRADE EFFLUENT is to be discharged is/are shown on the said plan and thereon marked green. (b) No connection shall be made to the said sewer without the prior approval of THE COMPANY and all such connections shall be constructed and maintained to the satisfaction of THE COMPANY at the expense of THE APPLICANT. (c) No change shall be made in such point(s) of discharge without prior Consent in writing of THE COMPANY.
Maximum quantity to be discharged	3. The maximum quantity of THE TRADE EFFLUENT which may be discharged on any one day of twenty-four hours determined from midnight to midnight shall not exceed 40.000m³.
Maximum rate of discharge	4. a) The maximum rate at which THE TRADE EFFLUENT may be discharged shall not exceed 2.880m³ per hour. b) The maximum rate at which THE TRADE EFFLUENT may be discharged shall not exceed 0.800 litres per second.

Matter to be eliminated prior to discharge to the sewer(s)

5. (a) There shall be eliminated from THE TRADE EFFLUENT before it is discharged into THE SEWER(S) any matter, which, either alone or in combination with any matter with which it is likely to come into contact while passing through any sewers, would injure or obstruct any such sewers or cause injury to and/or damage to the health of any person lawfully present in, or in the vicinity of, such sewers, pumping stations or sewage treatment works or would make especially difficult or expensive the treatment or disposal of their contents and in particular but without prejudice to the generality of the foregoing words the following matters:--

- (i) Petroleum spirit
- (ii) Calcium carbide
- (iii) Thiourea and thiourea derivatives
- (iv) Non biodegradable detergents

Such discharges would constitute a criminal offence under section 111 of the Water Industry Act 1991.

(b) Unless specified in APPENDIX 1, THE TRADE EFFLUENT shall not contain any substances determined by the Environment Agency as hazardous chemicals and elements (or "specific substances") at a concentration greater than background as defined in the Trade Effluents (Prescribed Processes and Substances) Regulations 1989.

(c) THE TRADE EFFLUENT shall not contain any of the substances listed in APPENDIX 1 at a concentration expressed in milligrams per litre greater than that stated.

SEE APPENDIX 1

Temperature

6. No Trade Effluent shall be discharged which has a temperature higher than 43 degrees Celsius

Acidity or alkalinity

7. No Trade Effluent shall be discharged the pH value of which is less than 6.0 or greater than 11.0.

Changes in occupier or process

8. (a) THE APPLICANT shall give to THE COMPANY notice in writing of any changes or proposed changes in the company name, address, occupier, processes, volume or discharge rate of THE TRADE EFFLUENT or changes which may result in the permanent cessation of the discharge.

(b) THE APPLICANT shall give to THE COMPANY 21 (twenty-one) days prior written notice of any change in the process, process materials or any other circumstances likely to alter the nature and composition as set out in section 1. THE COMPANY shall have the right to refuse to agree to the change.

(c) Any substance not declared on the Notice may not be discharged and shall not prejudice the right of THE COMPANY to serve a Notice of Direction within 2 (two) years from the date of issue of this Consent.

Payment

9. The APPLICANT shall be liable for payment of Trade Effluent Charges including:
 - (a) A sum calculated in accordance with the provisions contained in THE COMPANY's Wholesale Tariff Document.
 - (b) Any additional expenses which THE COMPANY may from time to time incur with respect to the monitoring, analysis, reception, treatment and disposal of THE TRADE EFFLUENT.
 - (c) Where samples taken by THE COMPANY establish that THE APPLICANT is in breach of a Consent, THE APPLICANT shall be liable to pay the sampling and analysis charge for each sample that was necessary to take in order to establish such a breach, which shall be the charge set out in THE COMPANY's Wholesale Tariff Document.

Entry and samples

10. Any person designated by THE COMPANY may on any occasion inspect, examine and test any works and apparatus installed in connection with THE TRADE EFFLUENT and obtain and take any sample of TRADE EFFLUENT from THE PREMISES.

Inspection

11. A safe and suitable inspection chamber or manhole shall be provided by THE APPLICANT to the satisfaction of THE COMPANY and located in a suitable position in relation to each pipe through which THE TRADE EFFLUENT is being discharged. The inspection chamber or manhole shall be so constructed and maintained by THE APPLICANT as to enable duly authorised representatives of THE COMPANY to take samples at any time of the matter passing into THE SEWER(S) from THE PREMISES

Measurement and
determination of
discharge

12. (a) Private meters may be necessary for the calculation of charges and compliance with the conditions of this Consent. These meters (hereinafter called PRIVATE METERS), if required by THE COMPANY, must be adequate for continuous measurement and automatically recording the volume, nature, composition and rate of discharge of THE TRADE EFFLUENT being discharged into THE SEWER(S) and shall be provided and maintained by THE APPLICANT to the satisfaction of THE COMPANY.
- (b) The installation, accuracy testing, repair, replacement, calibration and exchange of PRIVATE METERS is the responsibility of THE APPLICANT and shall be carried out by THE APPLICANT in accordance with the conditions set out below:

THE APPLICANT shall notify THE COMPANY of its intention to install a new PRIVATE METER; Within five (5) business days of the meter installation, THE APPLICANT shall provide to THE COMPANY details of the meter installation including meter serial number, meter location, a calibration certificate (where required), initial read and supporting photographic evidence. The photographic evidence must include the initial read and the meter serial number and must be of sufficient quality to enable THE COMPANY to confirm the meter details;

PRIVATE METERS shall be calibrated at least annually or more frequently if specified by THE COMPANY and certificated by a suitably qualified person and/or company approved by THE COMPANY;

THE APPLICANT shall arrange for any PRIVATE METERS to be repaired, replaced, exchanged or tested as appropriate within timescales agreed with THE COMPANY;

In the event of replacement or exchange of the PRIVATE METER, THE APPLICANT shall, within five (5) business days of the meter replacement, provide to THE COMPANY details of the meter removal and installation including meter serial numbers, meter location, a calibration certificate (where required), final read, initial read (and the dates of the final read and initial read) and supporting photographic evidence. The photographic evidence must include the final read, initial read and the meter serial numbers and must be of sufficient quality to enable THE COMPANY to confirm the meter details;

In the event of repair of the PRIVATE METER, THE APPLICANT shall, within five (5) business days of the meter repair, provide to THE COMPANY details of the meter read and supporting photographic evidence. The photographic evidence must include the meter read and the meter serial number and must be of sufficient quality to enable THE COMPANY to confirm the meter details;

In the event of testing of the PRIVATE METER, THE APPLICANT shall notify THE COMPANY of the test results within twenty (20) business days of the testing.

Records

13. (a) Records in such a form as THE COMPANY may require shall be kept by THE APPLICANT of the volume, rate of discharge, nature and composition of THE TRADE EFFLUENT discharged into THE SEWER(S) and shall be made available for inspection at any time by duly authorised representatives of THE COMPANY and copies of such records shall be sent to THE COMPANY on demand.

(b) If any PRIVATE METER ceases to register or measure correctly then, unless otherwise agreed, the volume during the period from the date on which the records were last accepted by THE COMPANY as being correct up to the date when the PRIVATE METER again registers correctly shall, for the purpose of any charges, be based on the average daily volume during the period of one month preceding the date on which the said records were last accepted as aforesaid or during the month immediately after the PRIVATE METER has been corrected, whichever is the higher.

(c) The foregoing provisions of this condition shall be of no effect so long as there is available to the satisfaction of THE COMPANY some other method approved by THE COMPANY of sampling THE TRADE EFFLUENT or of determining, continuously measuring and recording volumes and rates of discharge and the nature and composition of THE TRADE EFFLUENT discharged.

Vacation of Site

14. THE APPLICANT(s) must notify THE COMPANY in writing at least 21 days in advance of the following events:
 (a) Vacation of THE PREMISES by THE APPLICANT for any reason, whether permanent or temporary;
 (b) Change of ownership or occupation of THE PREMISES;
 (c) THE APPLICANTS entry into liquidation whether voluntarily or compulsorily or bankruptcy, if an individual;
 (d) The presentation of a petition for the appointment of an administrator or a receiver or manager in respect of THE APPLICANTS undertakings;
 (e) Cessation of discharge of TRADE EFFLUENT from THE PREMISES

Commencement of Discharge

16. The commencement date of this Consent will be:

6th March 2026

THE APPLICANT must not discharge THE TRADE EFFLUENT before the commencement date.

NOTES:

- a) All communications should be sent to the following address:
Trade Effluent
Thames Water Utilities Ltd
Crossness Sewage Treatment Works
Bazalgette Way
Abbey Wood
London
SE2 9AQ

Or Email:
Trade.Effluent@thameswater.co.uk
- b) Your attention is drawn to the right of appeal to the Director General of Water Services conferred by Section 122 of the Water Industry Act 1991 if you are aggrieved by any condition attached to this Consent.
- c) Charges for sewerage services may be payable in addition to Trade Effluent Charges
- d) A copy of the Wholesale Tariff Document is available from Thames Water Utilities Ltd's website
- e) If you discharge Trade Effluent in contravention of a condition of this Consent you will be guilty of a criminal offence and may be subject to prosecution.

APPENDIX 1 - SUBSTANCES

The Trade Effluent shall not contain any of the substances listed below at a concentration expressed in milligrams per litre greater than that stated:

Determinand Name	Consented Limit
Suspended Solids	2000.0
Settleable Solids	1000.0
Chemical Oxygen Demand	500.0
Chloride	400.0
Rapidly Settleable Solids	100.0
Total Oil & Grease	50.0
Total Phosphorus	13.0
Bromide	2.510
Iron	2.500
Available Chlorine	1.880

THERE ARE NO FURTHER LIMITS IN THIS APPENDIX

APPENDIX 2 - DISCHARGE POINTS

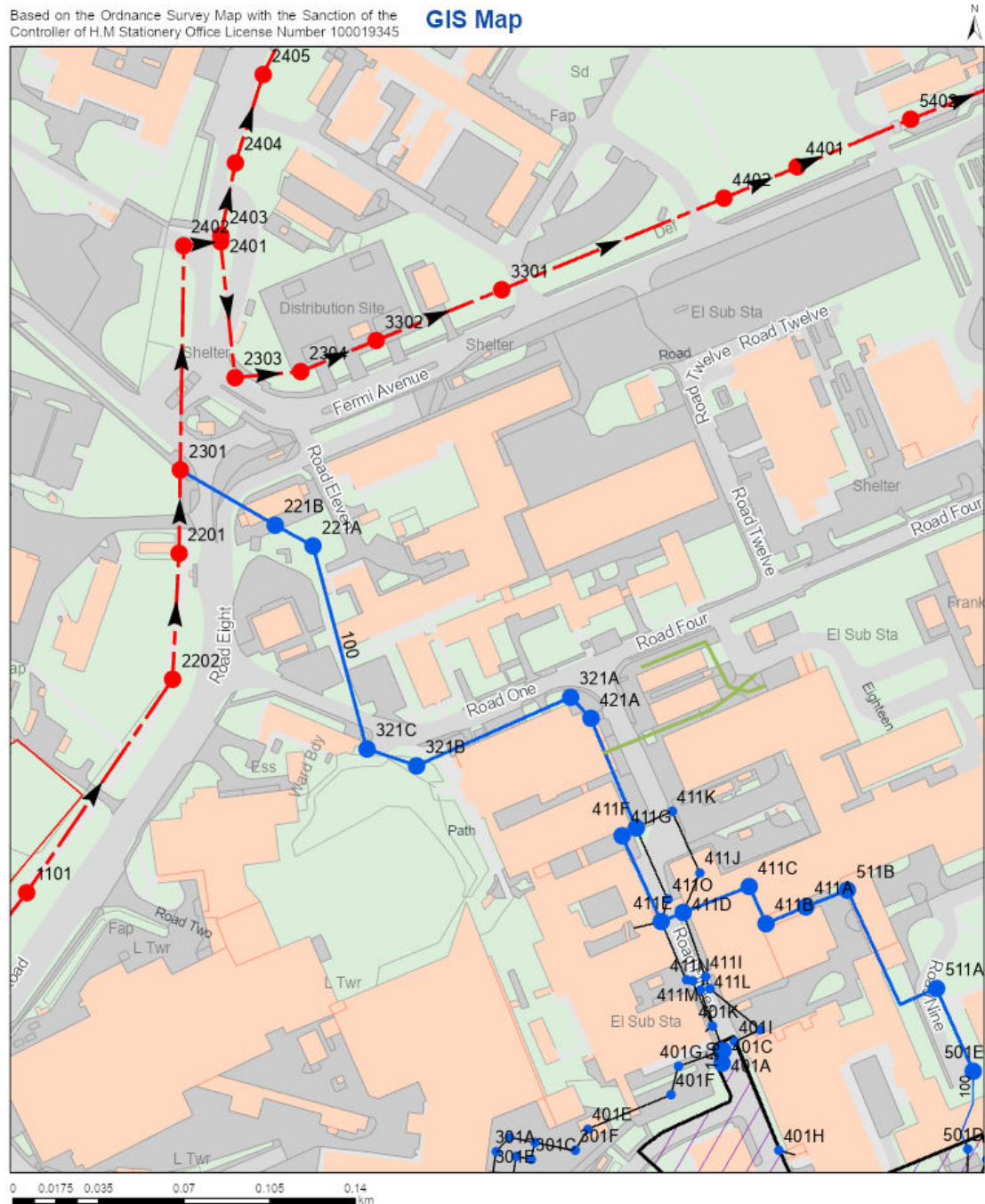
THERE ARE NO MORE DISCHARGE POINTS

APPENDIX 3 - SEWER PLAN

Sewer Plan

Based on the Ordnance Survey Map with the Sanction of the
Controller of H.M Stationery Office License Number 100019345

GIS Map



The position of any boundary or apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. No liability of any kind whatsoever is accepted by Thames Water for any error or omission.

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Map center coordinates: 447367,186265



APPENDIX 4 - ADDITIONAL CLAUSES

NO ADDITIONAL CLAUSES AVAILABLE