

WATER INDUSTRY ACT 1991**CONSENT TO THE DISCHARGE OF TRADE EFFLUENT**

(1) Whereas

Green Hydrogen 3 Limited (Companies House No. 14314761)

whose Head Office or Registered Office is at

**Beaufort Court
Egg Farm Lane
Kings Langley
Hertfordshire
WD4 8LR ('The Trader')**

is the occupier(s)/owner(s) of trade premises situated at

**Kimberly Clark Northfleet Mill
Crete Hall Road
Northfleet
Gravesend
DA11 9AD ('The Trade Premises')**

and by a Trade Effluent Application dated the 28/12/2023 have requested that **Southern Water Services Ltd**, ('The Company') consent to the discharge of trade effluent from the trade premises into the sewers of the Company.

(2) The nature and composition of the trade effluent ('The Trade Effluent') to be discharged under this consent is specified in the said Application.

In exercise of the powers under Section 121 conferred upon it by the Water Industry Act 1991, the Company hereby consent to the discharge of The Trade Effluent from The Trade Premises into their sewers subject to the following conditions:

1. Trade Effluent

The Trade Effluent shall consist only of wastewater from the following:
Electrolysis package reject water.

No change shall be made in the nature and composition of The Trade Effluent without the written permission of the Company. This Consent supersedes any previous Consents or Directions which become void from the date of this document save as otherwise specified herein.

2. Sewer Affected

The Trade Effluent shall discharge into the FOUL sewer ('The Sewer') situated in proximity to Granby Road (TQ62746502). No change shall be made in the location of the discharge point without the written permission of the Company.

3. Maximum Quantity to be discharged in Any One Day

The maximum quantity of The Trade Effluent discharged at any period of twenty-four hours shall not exceed 53 m³.

4. Maximum Rate of Discharge

The maximum rate at which The Trade Effluent may be discharged shall not exceed 1.11 litres/sec.

5. Time of Discharge

At all times.

6. Condensing Water

No uncontaminated condensing or cooling water shall be discharged into the sewer.

7. Changes in Process or Materials leading to Alteration of the Nature and Composition of the Trade Effluent or the Cessation of Discharge

The Trader shall immediately notify The Company of any changes in the process of manufacture, raw materials used, pre-treatment of The Trade Effluent or other circumstances likely to alter the nature and composition of The Trade Effluent. In such circumstance, no substance of which The Company has not had previous notice, may be discharged unless and until The Company has agreed to accept the substance at a limit imposed by The Company. The Trader shall immediately notify the Company of any circumstances resulting or likely to result in a cessation of discharge.

8.1 Matters to be Eliminated Prior to Discharge to the Sewer

The following substances are strictly prohibited from entry to the Company's sewer(s) and shall not be contained in The Trade Effluent that is to say:

- (i) Any petroleum spirit or other inflammable solvents.
- (ii) Any Organic Solvents (unless specifically mentioned below in Clause 12).
- (iii) Any other substances, either alone or in combination with any other matter lawfully present in the Company's sewers, likely to injure the said sewers or to interfere with the free flow of their contents or to affect prejudicially the treatment and disposal of their contents or to be dangerous to the health of the persons working in the sewers or at the Wastewater Treatment Works or to make specially difficult or expensive any process of purification or to pollute in any way the watercourse, estuary or coastal water into which the effluent will eventually discharge.
- (iv) Any substance or substances, which either alone or in combination with any

matter in any sewers or receiving Wastewater Treatment Works vested in and/or under the control of Southern Water, would give rise to obnoxious poisonous or inflammable gases, or otherwise a statutory nuisance as defined by the Environmental Protection Act 1990, in such sewers or works, or would be deleterious to such sewers or to the processes in use at such works, or to the disposal of sludges produced by such works.

8.2 The Trade Effluent shall not contain any substances listed in Schedule 1 of the Trade Effluent (Prescribed Processes and Substances) Regulations 1989, as amended, at a concentration greater than background concentration (as defined in the said Regulations).

9. Temperature of Trade Effluent

No Trade Effluent shall be discharged which has a temperature in excess of 43°C at the point of discharge to the sewer.

10. pH

No Trade Effluent shall be discharged which has a pH value of less than 6 or greater than 10.

11. Roof Water, Surface Water and Domestic Sewage

No roof water, surface water or domestic sewage shall be passed through any equipment installed in connection with the treatment sampling or measurement of The Trade Effluent discharge without the written permission of the Company.

12. Limits on Effluent Composition

The following Trade Effluent Constituents shall not exceed the stated concentration.

Constituent	Maximum Concentration
12.1. Chemical Oxygen Demand Shaken as O	800mg/l
12.2. Chloride	1000mg/l
12.3. Nitrogen Ammoniacal as N	10mg/l
12.4. Solids Suspended 105 Degrees C	400mg/l
12.5. Sulphate as S04	1000mg/l

13. Inspection Chamber

An inspection chamber or manhole shall be provided by and maintained by the licensee in a suitable position in connection with the pipe(s) through which The Trade Effluent is discharged and such inspection chamber or manhole shall be so constructed and maintained as to enable a person authorised by the Company to obtain samples of The Trade Effluent so discharged at any reasonable time. The inspection chamber or manhole shall be unobstructed and accessible at all times.

14. Trader Analysis

Should The Trader, with the agreement of The Company, undertake sample analysis for use by the Company, this must be carried out by a UKAS accredited laboratory.

15. Flow Measurement of Discharge

15.1 The Trader shall provide install and maintain flow measurement apparatus of a type approved by the Company to include all associated upstream and downstream connective pipework or channels to enable the daily volume and instantaneous rate of flow to be measured or determined as required.

15.2 The Trader shall record daily readings from the said apparatus either manually or electronically and make such readings available to a representative from the Company upon request.

15.3 The Trader shall calibrate the said apparatus on a periodic basis according to the manufacturer's recommendations (a minimum of once every 12 months) to ensure that it is operating to a standard agreed between the Company and the Licensee. The Licensee shall keep a record of the calibration results which shall be made available to a representative of the Company upon request.

15.4 If the flow measurement apparatus aforesaid ceases to measure or record correctly then the quantity of The Trade Effluent discharged into the sewers of the Company during the period from the date at which the records of the volume of The Trade Effluent discharged into the sewers were last accepted by the Company as being correct up to the date when the said apparatus again measured or recorded correctly shall for the purpose of any payment to be made to the Sewerage Retailer in respect of trade effluent charges for the period during which the flow measurement apparatus was measuring or recording incorrectly be based on the average daily volume of the trade effluent discharged during the preceding 30 consecutive days over which the said records were last accepted as aforesaid or during the 30 consecutive days immediately after the flow measurement apparatus has been corrected whichever is higher.

16. Entry

The Trader shall permit duly authorised representatives of The Company to inspect, examine and test at all times any works and apparatus installed in connection with The Trade Effluent and to take sample of The Trade Effluent.

17. Non-Compliance

The Trader will comply with all the Consent conditions at all times. Failure to do so is a criminal offence and will lead to enforcement action being taken by The Company. The Trader must notify The Company of any non-compliance or incident associated with the discharge of Trade Effluent from The Premises as soon as is reasonably practicable and no later than 14 days.

18. Payment

The Trader shall make payment to the Sewerage Retailer for the reception, treatment

and disposal of The Trade Effluent discharged to The Sewer and all such sums shall become due and payable on demand.

19. Interpretation

Words and expression to which meanings are assigned by the Water Industry Act 1991 (or any legislation amending the same) shall have the same meanings assigned to them when used in this Consent.

Dated this the 12th Day of February of Two Thousand and Twenty-Four.

Signed

A handwritten signature in black ink, appearing to read 'Suzannah Maddock', written in a cursive style.

Suzannah Maddock
Trade Effluent Manager

NOTE 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 on any person who is aggrieved by a condition attached to consent.