



CONSENT No. TE698 OF 2016

DWR CYMRU CYFYNGEDIG

WATER INDUSTRY ACT 1991

**CONDITIONAL CONSENT TO THE DISCHARGE
OF TRADE EFFLUENT TO THE PUBLIC SEWER**

TO: Kelda Organic Energy (Cardiff) Limited - the Owner and/or Occupier of the trade premises (herein called the "Occupiers") - whose registered office is situate at **Western House, Western Way, Halifax Road, Bradford BD6 2SZ.**

RECITALS

1. The **10th day of October 2016** you applied for consent under Section 119 of the Water Industry Act 1991 for consent to discharge trade effluent from the following trade premises known as **Kelda Organic Energy (Cardiff) Limited** and situate at **Tide Fields Road, Rover Way, Cardiff CF24 5SB** (hereinafter, the Application) and which trade premises are for the purpose of identification only shown on the location plan attached hereto and marked "A" (hereinafter, "the said trade premises").
2. Compliance with the conditions hereunder shall be ascertained by reference to the method of analysis as from time to time employed by the Undertaker, its servants, agents or contractors, save where the said condition(s) otherwise expressly provide(s).

DWR CYMRU CYFYNGEDIG ("the Undertaker") in the exercise of its powers under Section 121 of the Water Industry Act 1991, and thinking it fit to impose conditions as hereinafter appear, GIVES ITS CONSENT to the discharge of trade effluent from the said trade premises into the Undertaker's public sewers, SUBJECT TO THE FOLLOWING CONDITIONS AND NOT OTHERWISE.

- (1) The public sewer into which the trade effluent may be discharged is the **150 mm** more particularly identified by means of a line(s) coloured RED drawn on the plan attached hereto and marked "B".
- (2) The discharge of trade effluent shall be made at the point marked "X" on the said plan and the said trade effluent shall enter into the public sewer shown on the said plan at the point marked "Y" thereon and not otherwise. Further, no connection, linkage, conduit, pipe, channel or other communication whatsoever shall be made to the said sewer between the said points "X" and "Y" [without the prior approval in writing of the Undertaker].
- (3) The trade effluent to be discharged shall consist solely of that which was specified in the Trade Effluent Notice or application to discharge in respect of which the Consent [and/or previous Direction] was given as varied by any application made for the purpose of this Direction and derived [exclusively] from **processes associated with the anaerobic digestion of food waste.**
- (4) Without prejudice to condition 3 above, the nature and/or composition of the trade effluent which may be discharged is as specified in the FIRST SCHEDULE hereto.
- (5) The trade effluent shall not include any of the substances or properties listed in the SECOND SCHEDULE hereto in concentration greater than stated therein.
- (6) The maximum quantity of trade effluent discharged on any day (being any continuous 24 hour period) shall not exceed **25 cubic metres.**

- (7) The highest rate at which trade effluent may be discharged shall not exceed **12.2 cubic metres per hour or 3.38 litres per second.**
- (8) The trade effluent shall only be discharged into the public sewer(s) at any time.
- (9) No uncontaminated condensing water shall be discharged.
- (10) There shall be eliminated from the trade effluent before it is discharged the matters listed below:
- (a) Effluent with a temperature in excess of 43° Celsius (110° Fahrenheit);
 - (b) Calcium Carbide;
 - (c) Petroleum Spirit within the meaning of Section 111 of the Water Industry Act 1991 and/or the Petroleum Act 1928, save as otherwise permitted herein;
 - (d) Other material forming a constituent of the trade effluent, whether alone or in combination with other materials, specified hereby as that which is explosive;
 - (e) Any other substance forming a constituent of the trade effluent which is hereby specified as that which is likely to injure the sewers or to interfere with the free flow of their contents or to affect prejudicially the treatment and disposal of their contents;
 - (f) Any other substance forming a constituent of the trade effluent which is hereby specified as that which in its pure state or in combination with other materials in the contents of the sewer(s) ("the sewage") is capable of producing toxic or flammable vapours or causing a nuisance.
- (11) No trade effluent shall be discharged the pH value of which is less than **6.0 or greater than 11.0.**

- (12) No trade effluent shall be discharged the nature or composition of which includes a matter, substance, property or matters, substances or properties which would constitute the trade effluent as Special Category Effluent within the meaning of Section 138 of the Water Industry Act 1991.
- (13) The Occupier shall give to the Undertaker prior written notice of any change in the process of manufacture, materials, or other circumstances howsoever arising capable of altering the nature and/or composition of the trade effluent. No new substances or properties shall be discharged until the Undertaker has agreed thereto, either with or without imposing a limit and thereafter the said substance(s) and/or property(ies) shall be deemed incorporated into the SECOND SCHEDULE.
- (14) An inspection chamber or manhole shall be provided and maintained by the Occupier in a suitable position and/or at the point(s) marked "X" on the plan annexed hereto in connection with each pipe through which the trade effluent is discharged and such inspection chamber or manhole shall be constructed and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the occupier so as to enable a person readily at any time to take samples of the trade effluent being discharged.
- (15) A notch gauge, continuous recorder or some other apparatus suitable and adequate to the Undertaker for measuring and automatically recording the volume and rate of trade effluent so discharged shall be provided, such apparatus to be tested and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the Occupier.
- (16) Apparatus capable of accurately determining, measuring and recording the nature and/or composition of the trade effluent discharged shall be provided, such apparatus to be tested and maintained in accordance with the Undertaker's reasonable requirements as from time to time notified in writing to the Occupier.

- (17) The Occupier shall keep records of the volume, rate, nature and/or composition of the trade effluent discharged into the sewer(s) at all times available for inspection by any authorised officer of the Undertaker and copies of such records shall be sent to the Undertaker on demand.
- (18) (a) The Occupier shall pay to the Undertaker charges for the reception, conveyance, treatment and disposal of the trade effluent and the costs of sampling, measuring and/or analysis of the same under the Undertaker's trade effluent's functions, which charges shall be determined as set out below, and all sums payable under this condition shall be payable upon demand;
- (b) The charges under (a) above shall be calculated in accordance with Undertaker's Scheme of Charges as from time to time amended;
- (c) For the avoidance of doubt, the charge shall be payable by any person who is or was the Occupier of the said trade premises during the period of discharge of the trade effluent or at the time payment is due.
- (19) If the notch gauge, meter, recorder or other apparatus ceases to record or is suspected of not recording and/or measuring accurately, the quantity of trade effluent discharged into the sewer(s) during the period from the date and/or time at which the records were last accepted by the Undertaker as being correct up to the date when the notch gauge, meter, recorder or other apparatus again registers accurately shall for the purpose of any payment to be made under these conditions be based on the average daily volume of trade effluent discharged during the preceding period over which the records were last accepted by the Undertaker as being accurate or during the month immediately after the notch, gauge, meter, recorder or other apparatus or means of measurement and recording has been accurate whichever is the higher.

YOUR RIGHT OF APPEAL

Any person aggrieved by:-

The refusal of a Sewage Undertaker to give consent for which application has been made to the Undertaker under Section 119 of the Water Industry Act 1991;

OR

Any condition attached by a Sewage Undertaker to such consent;

may appeal to the Director General of Water Services at City Centre Tower, 7 Hill Street, Birmingham B5 4UA.

On an appeal in respect of a refusal to give consent, the Director may give the necessary consent either unconditionally or subject to such conditions as he thinks fit to impose.

On an appeal in respect of a condition, the Director may take into review all the conditions whether appealed against or not and may substitute for them any other set of conditions (whether more or less favourable to the Appellant) or annul any of the conditions and may include provision as to the charges to be made in pursuance of any condition attached to a Consent for any period before the determination of the appeal.

On any appeal the Director may give direction that the trade effluent shall not be discharged until a specified date.

FAILURE TO COMPLY WITH CONDITIONS

If in the case of any trade premises a condition of the Consent or this Direction is contravened, the occupier of the premises will be guilty of an offence and liable on conviction by a Magistrates' Court to a fine not exceeding the statutory maximum or on conviction by the Crown Court to an unlimited fine.

DATED: 13th October 2016

Signed: RICHARD M INGLES



Designation: PROCESS SCIENTIST

Address: DWR CYMRU-WELSH WATER

NELSON OFFICES

PENTWYN ROAD

NELSON

TREHARRIS

CF46 6LY

FIRST SCHEDULE

The nature and composition of the trade effluent is:

Wastewater resulting from processes arising from the operation of an anaerobic digestion plant treating food waste. This comprises food waste leachate, pasteuriser agitator seal water, odour control effluent, pasteuriser condensate (from exhaust duct), biogas condensate, all of which pass to drain via an overflow from the dilution tank, and which may contain traces of the following:

- **Suspended Solids**
- **Organic matter**
- **Vegetable Oil**
- **Phosphate**
- **Ammonia**
- **Sulphide**

SECOND SCHEDULE

1. Total Suspended Solids of the trade effluent shall not exceed **5000 milligrams per litre.**
2. Settled Chemical Oxygen Demand shall not exceed **8000 milligrams per litre.**
3. Ammonia (as N) shall not exceed **500 milligrams per litre.**
4. Free or emulsified Oils and Grease (as petroleum extractable matter) shall not exceed **100 milligrams per litre.**
5. Total Phosphate shall not exceed **5.0 milligrams per litre.**
6. Total Sulphide shall not exceed **5.0 milligrams per litre.**

THIRD SCHEDULE

Not applicable



DŴR CYMRU - WELSH WATER

18/10/2016

Scale: 1:2240



Clean Water

- Sluice Wall
- Air Val, SINGI T
- Tail
- Pressure Reducing Valve
- Meeter
- III K Marker
- FH
- Cep
- Fixing Main
- NON COMPANY
- Sewerage External
- Final
- Sun face Wallin
- Combined
- Rising Main
- Private
- Treatment Works
- Pumping Station
- Special Purpose
- Unknown End
- Change, Combined Overflow
- Outfall, FOUL
- Lamp Hole, Foul
- Private Sewer Transfer
- Lateral Drain
- Inspection Chamber

Inspection Chamber

EXACT LOCATION OF
ALL APPARATUS TO
BE DETERMINED ON
SITE

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While every reasonable effort has been taken to correctly record the pipe material of DCWW assets, there is a possibility that in some cases pipe material (other than Asbestos Cement or Plith fibre) may be found to be asbestos (Plith fibre). It is therefore prudent that the possible presence of AC or Plith fibre in pipes be anticipated and considered as part of any risk assessment prior to excavation.

DWR CMTL CityEngine (the Company) gives this information as to the position of its underground apparatus by way of general advice and on the strict understanding that it is based on the best knowledge available and no warranty as to its correctness and on the understanding that the Company is not responsible for any liability or damage to the Company's apparatus and any onus of proof in the event of excavations or other works made in the subsoil and no liability for the information which is supplied hereby by the Company before carrying out any excavations rests entirely on the user. The information is supplied in accordance with the provisions of the Water Industry Act 1991 but without prejudice to the provisions of the Water Industry Act 1991 based upon the provisions of the Water Industry Act 1991 but without prejudice to the provisions of the Water Industry Act 1991. The Company may not disclose the identity of the foregoing, it should be noted that the responsible and in particular, the particulars thereof including their position, sewer or disposal main laid before 1 September 1989, to the satisfaction of the Company is not to be disclosed. It may not be accurate. It must be understood that the 1991 and the Company's right to be compensated for any damage to its apparatus under the new Roads and Street Works Act

PROPOSED STORM DRAINAGE DESIGN
BASED ON A DISCHARGE RATE OF 18 l/s
SUBJECT TO DOWM SECTION 104 APPROVAL
PROPOSED FOLL DRAINAGE SUBJECT TO
DOWM / TRADE EFFLUENT CONSENT AND
SECTION 104 APPROVAL
NO TECHNICAL APPROVALS HAVE BEEN
GRANTED AND ANY CONSTRUCTION WORKS
UNDERGIVEN BY CLIENT / CONTRACTOR ARE
ENTIRELY AT THEIR OWN RISK

DŴR CYMRU - WELSH WATER
CONSENT POINT

DŴR CYMRU - WELSH WATER
SAMPLING POINT

DŴR CYMRU - WELSH WATER CONSENT PLAN B

Down
Foll
Sewer
150mm

Station	Chainage	Ground Level	Proposed Level	Depth	Notes
1	0+00	10.50	10.50	0.00	Start of pipe
2	0+10	10.40	10.40	0.00	
3	0+20	10.30	10.30	0.00	
4	0+30	10.20	10.20	0.00	
5	0+40	10.10	10.10	0.00	
6	0+50	10.00	10.00	0.00	
7	0+60	9.90	9.90	0.00	
8	0+70	9.80	9.80	0.00	
9	0+80	9.70	9.70	0.00	
10	0+90	9.60	9.60	0.00	
11	1+00	9.50	9.50	0.00	
12	1+10	9.40	9.40	0.00	
13	1+20	9.30	9.30	0.00	
14	1+30	9.20	9.20	0.00	
15	1+40	9.10	9.10	0.00	
16	1+50	9.00	9.00	0.00	
17	1+60	8.90	8.90	0.00	
18	1+70	8.80	8.80	0.00	
19	1+80	8.70	8.70	0.00	
20	1+90	8.60	8.60	0.00	
21	2+00	8.50	8.50	0.00	
22	2+10	8.40	8.40	0.00	
23	2+20	8.30	8.30	0.00	
24	2+30	8.20	8.20	0.00	
25	2+40	8.10	8.10	0.00	
26	2+50	8.00	8.00	0.00	
27	2+60	7.90	7.90	0.00	
28	2+70	7.80	7.80	0.00	
29	2+80	7.70	7.70	0.00	
30	2+90	7.60	7.60	0.00	
31	3+00	7.50	7.50	0.00	
32	3+10	7.40	7.40	0.00	
33	3+20	7.30	7.30	0.00	
34	3+30	7.20	7.20	0.00	
35	3+40	7.10	7.10	0.00	
36	3+50	7.00	7.00	0.00	
37	3+60	6.90	6.90	0.00	
38	3+70	6.80	6.80	0.00	
39	3+80	6.70	6.70	0.00	
40	3+90	6.60	6.60	0.00	
41	4+00	6.50	6.50	0.00	
42	4+10	6.40	6.40	0.00	
43	4+20	6.30	6.30	0.00	
44	4+30	6.20	6.20	0.00	
45	4+40	6.10	6.10	0.00	
46	4+50	6.00	6.00	0.00	
47	4+60	5.90	5.90	0.00	
48	4+70	5.80	5.80	0.00	
49	4+80	5.70	5.70	0.00	
50	4+90	5.60	5.60	0.00	
51	5+00	5.50	5.50	0.00	
52	5+10	5.40	5.40	0.00	
53	5+20	5.30	5.30	0.00	
54	5+30	5.20	5.20	0.00	
55	5+40	5.10	5.10	0.00	
56	5+50	5.00	5.00	0.00	
57	5+60	4.90	4.90	0.00	
58	5+70	4.80	4.80	0.00	
59	5+80	4.70	4.70	0.00	
60	5+90	4.60	4.60	0.00	
61	6+00	4.50	4.50	0.00	
62	6+10	4.40	4.40	0.00	
63	6+20	4.30	4.30	0.00	
64	6+30	4.20	4.20	0.00	
65	6+40	4.10	4.10	0.00	
66	6+50	4.00	4.00	0.00	
67	6+60	3.90	3.90	0.00	
68	6+70	3.80	3.80	0.00	
69	6+80	3.70	3.70	0.00	
70	6+90	3.60	3.60	0.00	
71	7+00	3.50	3.50	0.00	
72	7+10	3.40	3.40	0.00	
73	7+20	3.30	3.30	0.00	
74	7+30	3.20	3.20	0.00	
75	7+40	3.10	3.10	0.00	
76	7+50	3.00	3.00	0.00	
77	7+60	2.90	2.90	0.00	
78	7+70	2.80	2.80	0.00	
79	7+80	2.70	2.70	0.00	
80	7+90	2.60	2.60	0.00	
81	8+00	2.50	2.50	0.00	
82	8+10	2.40	2.40	0.00	
83	8+20	2.30	2.30	0.00	
84	8+30	2.20	2.20	0.00	
85	8+40	2.10	2.10	0.00	
86	8+50	2.00	2.00	0.00	
87	8+60	1.90	1.90	0.00	
88	8+70	1.80	1.80	0.00	
89	8+80	1.70	1.70	0.00	
90	8+90	1.60	1.60	0.00	
91	9+00	1.50	1.50	0.00	
92	9+10	1.40	1.40	0.00	
93	9+20	1.30	1.30	0.00	
94	9+30	1.20	1.20	0.00	
95	9+40	1.10	1.10	0.00	
96	9+50	1.00	1.00	0.00	
97	9+60	0.90	0.90	0.00	
98	9+70	0.80	0.80	0.00	
99	9+80	0.70	0.70	0.00	
100	9+90	0.60	0.60	0.00	

ENCON
Construction

audenraff Limited
Consulting Engineers

PROPOSED ENGINEERING LAYOUT

CONSTRUCTION

13175 05 07