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CORK COUNTY COUNCIL

**LOCAL GOVERNMENT (WATER POLLUTION) ACTS 1977 AND
1990**

Licence to discharge Trade Effluent or Sewage Effluent to Waters

Reference	TO /	Tower Aqua Products Ltd
No. In		Lickbarrahan,
W.P. (W) 7/04		Cahermore,
		Beara, Co. Cork.

The Council of the County of Cork, in exercise of the powers conferred on it by the Local Government (Water Pollution) Acts, 1977 and 1990, as amended, hereby GRANTS a Licence, Reference Number W.P. (W) 7/04

To	<u>Tower Aqua Products Ltd</u> Lickbarrahan, Cahermore. Beara, Co. Cork.
To Discharge	<u>recirculated seawater after biofiltration, combined with attenuated surface water run off from agricultural development.</u>
To (River)	<u>Direct to Atlantic Ocean.</u>
Located at	<u>Lickbarrahan, Cahermore, Beara, Co. Cork.</u>

subject to the Conditions set out in the schedule attached hereto. It should be noted that a person shall not be entitled solely by reason of a licence to make, cause or permit a discharge to a sewer.

**ENVIRONMENT
DEPARTMENT,
ROOM 408,
COUNTY HALL,
CORK.**

Signed on behalf of the said Council,

Helen Conrick
P.P. STAFF OFFICER

Dated this 30th day of December 2004

NOTE:

An appeal against a decision made by a Sanitary Authority under Section 16 and Section 17 of the Act of 1977, may be made to An Bord Pleanala under Section 20 of the Act, as inserted by Section 15 of the Local Government (Water Pollution) (Amendment) Act, 1990 within one month of the date of the Licence.

Appeals should be addressed to THE SECRETARY, AN BORD PLEANALA, 64 Marlborough Street, Dublin 1, and will be invalid unless accompanied by an additional fee of €126.00.

A request for an oral hearing shall be accompanied by an additional fee of €63.00.

A party to an appeal shall give to An Bord Pleanala any document, information or evidence in his possession or procurement which An Bord Pleanala consider necessary for the purpose of determining the appeal.

CORK COUNTY COUNCIL
Environment Dept.

LOCAL GOVERNMENT (Water Pollution Act 1977/1990)
Licence under Section 4
W.P. (W) 7/04

Tower Aqua Products Ltd
Lickbarrahan
Cahermore , Beara
Co. Cork

Wastewater discharges shall take place only as specified in the licence application W.P (W) 7/04 as modified and/or controlled by this licence and subject to the requirements of law. Any changes in the nature or quantity of any emission shall require the licensee to notify the Licensing Authority and in the case of any material change for the licensee to request a review or obtain a new licence as may be determined by the Licensing Authority prior to any such change being made. The Licensing Authority shall interpret whether any change is material or not.

This licence supercedes all previous licences and correspondence issued in respect of the facility under the terms of the Water Pollution Act (1977 and 1990).

Schedule

1. WASTEWATER MANAGEMENT

1.1 The Licensee shall employ the best available technology not entailing excessive cost in the avoidance, minimisation, treatment and disposal of wastewater produced on site.

1.2 A wastewater management programme shall be undertaken. An annual report demonstrating the implementation of this programme and compliance shall be submitted to the Licensing Authority in conjunction with the annual report summarising monitoring returns outlined in Clause 6.3 hereunder.

The Licensee shall implement and work by a abalone health management plan which shall include the following,

1. Prevention and control of abalone diseases together with the maintenance of a high level of abalone health and welfare.
2. Minimise environmental impact on the receiving waters
3. To rear Abalone in accordance with industry guidelines and the current best practices of the industry.

1.3 Comprehensive written operating instructions and procedures shall be prepared in respect of wastewater control and treatment systems to assist personnel with responsibilities for the operation of such systems and plant. These procedures shall be made available to the Licensing Authority for inspection or on request.

1.4 Employees with responsibilities in the wastewater control and treatment area shall receive training adequate to enable them to execute their tasks in relation to pollution control.

2. CONTAMINATED WASTE WATER

2.1 All contaminated arising from aquacultural activity at Lickbarrahan , Cahermore , Beara, Co. Cork shall be treated on site as described in this application. A recirculation unit shall be installed with efficiency > 90 %.

2.2 All treated wastewater shall be discharged through one discharge point only 'the Slath' as indicated on the drawings, which accompanied the application.

2.3 The total volume of treated effluent shall not exceed 40 cubic metres/day or 5 cubic metres / hour. A combined rainwater / seawater discharge tank (5 m³) shall be installed on the discharge line as a location agreed with the Licensing Authority . The discharge pipeline shall be fitted with a suitable flow monitoring system approved by the Licensing Authority.

2.4 Grab samples obtained in accordance with condition 2.1 above shall be tested by the licensee for the parameters indicated in the following table and any such sample taken at the point of sampling in the wastewater discharge line shall not exceed the following condition limits from the date of issue of the licence.

pH	6 – 8
B.O.D	10 mg/l
Total Suspended Solids	20 mg/l
Total Nitrogen (as N)	15 mg/l
Total Phosphorus (as P)	3 mg/l

The frequency of testing of the above parameters shall be as follows;
pH, B.O.D, suspended solids, ammonia shall be tested monthly during periods of maximum production. The Licensee shall notify the Licensing Authority of when maximum emissions are occurring.

Total phosphorus and total nitrogen, shall be tested twice a year.

Dangerous substances. This licence does not permit the discharge of compounds listed (appendix 1) on Water Quality (Dangerous Substances Regulations) S.I. 12, 2001 from any operation arising on this site.

2.5 There shall be no discharge of disinfectants, biocides, antibiotics or any other chemicals in the discharge.

2.6 A foreshore licence shall be applied for and granted by the Department of Communications, Marine and Natural Resources prior to commencement of any discharge from this activity.

2.7 The Licensee shall inform the Licensing Authority of any future use of chemicals on site and a register of the types and quantities used shall be maintained and available for inspection on site. The Licensee shall undertake testing of additional parameters if deemed necessary by the Licensing Authority.

2.8 The Licensee shall provide a sampling point on the wastewater discharge line for the use of any statutory body having responsibility for water pollution control. The licensee shall also ensure that direct access to the sampling point is available at all times.

2.9 In the event of an incident on site which may give rise to water pollution the Licensee shall immediately report the incident to the Licensing Authority by telephone or telefax and shall confirm the communication in writing within twenty four hours. The Licensee shall take all possible steps to ensure that discharges not in accordance with the provisions of this licence do not occur and shall consult with the Licensing Authority on the best practicable means of rectification.

2.10 The licensee shall under take a physical and biological assessment of abstraction and receiving waters within two years after receipt of this licence. The biological survey shall be carried by a suitably qualified person on a range of species, site locations which shall be agreed in advance with the Licensing Authority. The details of the survey programme are to be agreed in advance with the Licensing Authority. The surveys shall be carried out at specific times to be agreed in advance with the Licensing Authority. Results of the survey should be submitted to the Licensing Authority within one month of the survey taking place.

The Licensing Authority may alter the frequency of this survey work based on the findings of the reports.

The Licensing Authority may alter the conditions of this licence based on the findings of the reports.

3. CONTROL OF DISEASES

3.1 The Licensing Authority shall be notified immediately of any disease outbreak and reports shall be submitted as soon as possible after the outbreak. Certification on the disease free status of abalone stock as issued by the Marine Institute or equivalent Authority as agreed with the Licensing Authority shall be available for inspection.

4 STORAGE FACILITIES

4.1 All storage tank areas and drum storage areas shall be rendered impervious to the materials stored therein. In addition, storage tank areas shall be bunded, either locally or remotely, to a volume of 110% of the largest tank within each individual bunded area. Drum storage areas shall be bunded to a volume equal to 110% of the sum of the volumes of the largest ten drums likely to be stored therein. The height of the bund for any drum storage area shall be not less than 300 millimetres.

4.2 The integrity and watertightness of all the bunded structures and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee to the satisfaction of the Licensing Authority. The results of these tests shall be certified by a Chartered Engineer.

4.3 Disposal of any wastewaters which arise in the bund shall be agreed with the Licensing authority

5 SOLID WASTES

5.1 All solid wastes which can be regarded as neither toxic nor dangerous and general refuse shall be disposed to landfill or by other means as may be agreed with the Licensing Authority. All sludges from abalone rearing tanks shall be stabilised prior to disposal off-site and disposed off in a manner agreed with the Licensing Authority. All packaging waste shall be recycled as much as possible.

5.2 While awaiting disposal, all wastes and by-products shall be collected and stored in designated areas protected against spillage and leachate run-off.

5.3 The licensee shall keep records of all wastes disposed of off-site including any significant quantities of dead or spoiled shell, feed bags, waste chemicals and shall retain such records for a minimum period of five years. These records shall be submitted to the Licensing Authority in conjunction with the annual report summarising monitoring returns outlined in Clause 6.3 hereunder.

5.4 Disposal of mortalities

Disposal of mortalities shall be carried out in an agreed programme with the Licensing Authority.

(b) In subsequent years the licensee shall pay to the Licensing Authority an annual amount of not less than € 500 updated in accordance with the Consumer Price Index from the date of the grant of this licence to the value pertaining at the time of payment of each annual contribution. (This amount shall be payable before 30th September each year)

(c) Notwithstanding the foregoing, the rate of contribution each year shall take account of the actual costs of monitoring as incurred by the Licensing Authority in the previous year and as estimated for the next year.