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Maureen Cherry
Executive Scientist,
Cork County Council
Inniscarra,
Co. Cork.

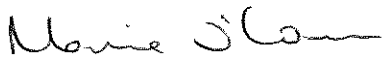
13/12/2011

Re: Local Government (Water Pollution) Acts, 1977 1990 Application Register No:
WP(W)08/11@

A Chara,

I enclose copy of Licence granted to Department of Defence
on the 13/12/2011 for your attention.

Mise le meas,



Finbar O'Keeffe
Environment Department
Room GF22
Cork County Council
INNISCARRA
Co Cork

CORK COUNTY COUNCIL

146

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

Licence to discharge Trade Effluent or Sewage Effluent to Waters

Reference TO / Department of Defence
No. In Property Management Branch
WP(W)08/11@ Station Road
Newbridge, Co Kildare

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 WP(W)08/11@

To **Department of Defence**
Property Management Branch
Station Road
Newbridge, Co Kildare

To Discharge trade effluent to groundwater

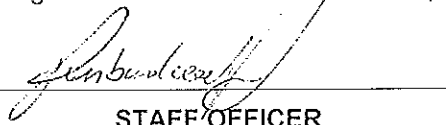
To (River) Tributary of Munster Blackwater

Located at Kilworth Army Training Camp, Kilworth, Co Cork

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 GF22,
CORK COUNTY COUNCIL,
INNISCARRA,
CO CORK.

Signed on behalf of the said Council,



STAFF OFFICER

Dated this 13th day of December 2011

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 Directorate,
Inniscarra,
Co. Cork

W.P. (W) 08/11(R)

Licence to Discharge a Sewage Effluent to Waters.
Issued under Section 4 of the Local Government (Water Pollution) Acts
1977 & 1990, as amended by the Water Services Act 2007

**Department of Defence,
Kilworth Army Camp,
Kilworth,
Co. Cork.**

Schedule

Wastewater discharges shall take place only as specified in the licence application WP (W) 08/11(R) 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 supersedes all previous licences and correspondence issued in respect of the facility under the terms of the Local Government Water Pollution Act 1977 to 2007.

In the event of the licence being transferred to another party or company, the applicant shall notify the Licensing Authority of this fact and shall also provide the details of the new licence holder prior to the transfer of the licence.

1 WASTEWATER MANAGEMENT

- 1.1 The Licensee shall employ the best available techniques in the avoidance, minimisation, treatment and disposal of wastewaters produced on site.
- 1.2 Comprehensive written operating instructions and procedures shall be prepared in respect of wastewater control and treatment systems to assist personnel with responsibilities for the operations of such systems and plant. These procedures shall be retained on site for inspection and submitted to the Licensing Authority on request.
- 1.3 Employees with responsibilities in wastewater control and treatment shall receive training adequate to enable them to execute their tasks in relation to pollution control. These records shall be retained on site for auditing by the Licensing Authority.
- 1.4 No substances listed in Table 12 of Schedule 6 of the European Communities Environmental Objectives (Surface Waters) Regulations 2009 (S.I. No. 272 of 2009) shall be discharged from this site. Biocides (pesticides, herbicides etc.) shall not be disposed of via the foul system.

Reason: For the management of wastewaters on the site

2 CONTAMINATED WASTE WATERS

- 2.1 All contaminated wastewater arising from the operation of Kilworth Army Camp, Kilworth, Co. Cork, shall be treated on-site. The treatment shall be of a standard necessary to achieve the emission limit values cited in 2.4 below prior to discharge to percolation on site as indicated on drawings and maps which accompanied this licence review application.
- 2.2 Contaminated wastewater shall comprise of those arising from the above named development only, shall include the following, having regard to the requirements of condition 2.1 of this licence:
- a. Domestic effluent
 - b. Kitchen and canteen wastewater
 - c. Laundry wastewater.
 - d. Contaminated runoff from bunded areas
 - e. Any activity approved by the Licensing Authority
- 2.3 The wastewater outflow pipe shall be fitted with a flow meter and composite sampler between the treatment plant and the receiving percolation area at locations agreed with the Licensing Authority. The flow meter shall be of a continuous recording and integrating type and the composite sampler shall be flow proportionate. The sampler shall be operated so as to take samples at a frequency to be agreed with the Licensing Authority making up a composite sample once every 24 hours. This sampling and monitoring system shall be fully operational and in use at all times during which wastewater is being discharged.

The composite samples shall be collected at 12.00 noon each day or as otherwise agreed with the Licensing Authority. A composite sample for testing purposes shall be defined as any sample extracted from the sampling apparatus between 8.00 am and 12.00 noon.

- 2.4 The total volume of treated effluent shall not exceed: 100 m³/day or 20 m³/hour.
- 2.5 Samples obtained in accordance with condition 2.3 above shall be tested by the Licensee for the parameters indicated in the following tables and no such sample taken at the point of sampling in the discharge line shall exceed the following condition limits:

pH	6.5 – 9.0 pH units
Biochemical Oxygen Demand	10 mg/l
Chemical Oxygen Demand	40 mg/l
Total Suspended Solids	10 mg/l
Fats, oils and greases	5 mg/l
Total Nitrogen as N	10 mg/l
Ammonia as N	5 mg/l
Total Phosphorous as P	2 mg/l
Total Heavy Metals	1 mg/l

The frequency of testing for the above parameters shall be as follows:
Monthly for all parameters for the first twelve months from the date of issue of this licence. Six times a year thereafter, if the previous twelve months data demonstrate 100% compliance with condition 2.5. The Licensing Authority may review the frequency of sampling at any time.

The Licensing Authority reserves the right to alter the frequency of testing.

- 2.6 A representative sample of effluent from the primary discharge point shall be screened for the presence of organic compounds and metals within twelve months of the date of grant of this licence. The list of parameters for analysis shall include, as a minimum, those organic compounds and metals identified as relevant having regard to the European Communities

Environmental Objectives (Surface Water) Regulations 2009 (S.I. 272 of 2009) and any other relevant legislation. Such screening shall be repeated at intervals as requested by the Licensing Authority thereafter.

Having identified the most relevant pollutants from screening, subsequent monitoring for these pollutants shall be carried out at a frequency agreed with the Licensing Authority.

- 2.7 In the event of malfunction or breakdown of the pollution abatement equipment (including fracture or blockage of any effluent pipe) or any other 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 restoring the treatment process to its full operational capacity.
- 2.8 The Licensee shall carry out and document a visual inspection of the treatment facilities and discharge point weekly, and any abnormalities shall be noted. If it appears that abnormalities may be occurring then the Licensee shall immediately notify the Licensing Authority and initiate an investigation into the possible cause of the abnormalities.
- 2.9 The Licensee shall provide a sampling point on the effluent discharge line for the use of any Body having statutory responsibility for water pollution control. The Licensee shall also ensure that direct access to the sampling point is available at all times.
- 2.10 All test methods used by the Licensee for the monitoring of the nature of the discharge shall be agreed with the Licensing Authority. All laboratory equipment used for wastewaters monitoring shall be calibrated in accordance with the manufacturers' recommendations and records of such calibrations shall be held by the Licensee for inspection by the Licensing Authority on request.

Reason: To control the emissions prior to discharge

3 SURFACE WATER/GROUNDWATER

- 3.1 All uncontaminated storm water shall be directed to soakaways as indicated on maps and drawings which accompanied this licence review application.
- 3.2 The Licensee shall implement a programme of groundwater monitoring agreed in advance with the Licensing Authority. This monitoring shall include the monitoring of a minimum of three wells, one of which shall be located above and one below the site's hydraulic gradient. The location of the wells is to be agreed with the Licensing Authority.

The programme shall include the monitoring of each well for the following parameters: Conductivity, pH, Total Organic Carbon, Heavy Metals, Hydrocarbons and Mineral Oils and such other parameters as may be indicated by the Licensing Authority. The frequency of testing shall be quarterly for the first year and annually after that if the previous 12 months data demonstrate 100% compliance with the European Communities Environmental Objectives (Groundwater) Regulations 2010 (S.I. No. 9 of 2010) The Licensing Authority reserves the right to alter the frequency of testing.
- 3.3 Within six months from the date of issue of this licence, a hydrological survey of the site shall be carried out by a suitably qualified professional and the resulting report together with conclusions and recommendations shall be submitted to the Licensing Authority.

Reason: To protect surface and groundwaters from polluting matter

monitoring carried out in the previous year. This report shall evaluate the operation of the facilities available on site to treat the wastewaters produced in the light of the results achieved in the previous year. The report shall also outline the intentions of the Licensee with regard to the upgrading of treatment facilities or operations should these results not fully comply with the terms of this licence. All monthly and annual reports shall be certified accurate and representative by the Licensee's plant manager or other senior officer designated by him.

Reason: To provide for adequate monitoring

7 TREATMENT PLANT

- 7.1 The Licensee shall initiate an approved maintenance programme for all such plant in use in the treatment process or in pollution control. A copy of the contract documents to operate and maintain the treatment plant shall be forwarded to the Local Authority each year with the annual report. The Licensee shall immediately notify the Licensing Authority of any change in either the contract agreements or any change of contracting company.
- 7.2 A register shall be maintained on site of all maintenance work and inspections carried out and this information shall be made available to the Licensing Authority either on request or inspection on site.
- 7.3 All pump sumps or other treatment plant chambers from which spillages might occur shall be fitted with high liquid level alarms. The alarm condition shall be signified by a signal on site and also, by modem, to the responsible person for the site. Duty and standby pumps and other duplicate plant equipment shall be interchanged weekly in order to allow each unit equal running time in duty mode. Control panels shall incorporate hours run meters for each individual unit. Containment areas around pump sumps shall be put in place and any spillages diverted to the effluent treatment plant.

An alternative energy power supply shall be installed to augment the main power source in the event of a power failure on site. Alternative arrangements may be agreed with the Licensing Authority.
- 7.4 Standby storage facility for untreated effluent shall be installed to accommodate untreated wastewater in the event of a malfunction or breakdown of the effluent treatment plant.
- 7.5 Noise levels shall be controlled and in accordance with Environmental Protection Agency guidelines.
- 7.6 There shall be no nuisance odour outside the plant boundary. Odour abatement shall be managed through a structured monitoring and management of the operation of the treatment plant.

Reason: To protect surface and groundwaters from polluting matter and to provide for sampling.

8 SOLID WASTE

- 8.1 All treatment plant sludges shall be stabilized and mechanically thickened prior to disposal off-site. Any liquid extracted shall be pumped back to the wastewater treatment unit.
- 8.2 All wastes shall be recycled, recovered or reused in so far as is practical. All waste management options utilised shall be agreed in advance with the Licensing Authority. The volume of all wastes generated on site shall be recorded by the Licensee. This information shall be included in the annual summary report which must be returned to the Licensing Authority under the terms of this licence.

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- 7.2 A register shall be maintained on site of all maintenance work and inspections carried out and this information shall be made available to the Licensing Authority either on request or inspection on site.
- 7.3 All pump sumps or other treatment plant chambers from which spillages might occur shall be fitted with high liquid level alarms. The alarm condition shall be signified by a signal on site and also, by modem, to the responsible person for the site. Duty and standby pumps and other duplicate plant equipment shall be interchanged weekly in order to allow each unit equal running time in duty mode. Control panels shall incorporate hours run meters for each individual unit. Containment areas around pump sumps shall be put in place and any spillages diverted to the effluent treatment plant.

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- 8.2 All wastes shall be recycled, recovered or reused in so far as is practical. All waste management options utilised shall be agreed in advance with the Licensing Authority. The volume of all wastes generated on site shall be recorded by the Licensee. This information shall be included in the annual summary report which must be returned to the Licensing Authority under the terms of this licence.

- 8.3 While awaiting disposal, all wastes and by-products shall be collected and stored in designated areas protected against spillage and leachate run-off.
- 8.4 The Licensee shall keep records of all wastes disposed of off-site and shall retain such records for a minimum period of five years. These records shall be submitted to the Licensing Authority quarterly.
- 8.5 In the event that the final disposal destination of sludge is to land, then the Licensee shall submit a map showing the proposed lands which will be used together with results of soil analysis carried out on the lands prior to any disposal taking place. A competent independent technical body approved by Cork County Council shall undertake these tests. Nutrient levels and heavy metal concentrations shall be measured. The number of tests required shall be determined by the Licensing Authority (one per 5 hectares unless otherwise determined). A representative sample of the sludge shall be similarly tested and the results submitted to the Licensing Authority. These tests shall be repeated annually. The Testing Body shall recommend the maximum rate of spread of sludge. Upon receipt of these results, the Licensing Authority shall determine the maximum rate of spread of sludge allowable (as recommended by the Testing Body unless otherwise determined).

The rate thus determined shall be based on the nutrient requirements of the soil and the prevention of runoff to waters used for the disposal of sludge. If it appears to the Licensing Authority that the concentrations of certain substances is increasing to undesirable levels as a result of land spreading, then alternative arrangements for sludge disposal shall be agreed with the Licensing Authority. The Licensee shall indicate where the designated lands will be.

The lands designated for land spreading shall be indicated on a map to a scale of not less than 1/10,560 and submitted to the Licensing Authority prior to any disposal taking place. The Licensee shall maintain a record of the quantities of sludge deposited and the approximate locations of applications on a grid map.

Land spreading shall not be carried out following periods of heavy rain or when the ground is saturated or frozen. Land spreading shall not be carried out within 10 meters of any water course, stream or river or in any circumstances when water pollution might occur.

Reason: To provide for the safe disposal of solid waste which through leakage give rise to surface or groundwater pollution

9 CONTRIBUTIONS

- 9.1 The Licensee shall pay to the Licensing Authority such annual contributions towards the cost of monitoring the discharge as the Licensing Authority considers necessary for the performance of its duties under this Act as follows:-
- (a) Not later than September 30th 2012 the Licensee shall pay to the Licensing Authority a contribution of not less than €1350.
 - (b) In subsequent years the Licensee shall pay to the Licensing Authority an annual amount of not less than €1350 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.
 - (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.

Reason: To provide for the sampling and implementation of licence