



SHANNON DEVELOPMENT

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Innovative Action – Regional Growth

July 11th 2000

Ms Philippa King
Shannon Environmental Services Ltd.,
Smithstown Industrial Estate,
Shannon,
Co. Clare.

13 JUL 2000

Dear Philippa

I refer to our meeting on May 31st 2000 regarding the issued Shannon Development Effluent Control Regulations for Shannon Environmental Services Ltd. We have reviewed your request for increased discharge limits and I am attaching a copy of the revised effluent control regulations for your company.

I would be obliged if you would indicate your acceptance of the conditions by counter signing the enclosed copy of the control regulations and returning it for my attention at your convenience.

Yours sincerely

Ken Power
Services & Maintenance Manager.



COMHLUCHT FORBARTHA AERFORT NEAMHCHUSTAM NA SIONNA TEORANTA
SHANNON FREE AIRPORT DEVELOPMENT COMPANY LIMITED

DIRECTORS: A. AYLWARD T. BUTLER P. COLLINS B. DINNEEN S. GORMAN W. LOUGHNANE B.F. MURPHY
L. McELLIGOTT (Chairman) P. O'BRIEN B. O'CONNELL M. STACK E.M. WALSH

REGISTERED IN IRELAND No. 17351 ESTABLISHED BY THE GOVERNMENT OF IRELAND



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RE: **Shannon Effluent Control Regulations for Shannon Environmental Services (SES) Ltd., Smithstown Ind. Estate, Shannon, Co. Clare**

I refer to your request to discharge liquid effluents into the Shannon Development Industrial Effluent Sewerage System and accordingly grant permission subject to the following conditions:-

1. The maximum volume discharged should not exceed 250m³/day at a maximum hourly rate of 20m³/hour.
2. The characteristics of all effluent samples should not exceed the limits set out in Table 1 below:-

TABLE 1

<u>Parameter</u>	<u>Prior to Sept. 1st, 2001 Concentration mg/l</u>	<u>From Sept. 1st 2001 and thereafter Concentration mg/l</u>
C.O.D.	3,000	2,000
B.O.D.	2,000	1,500
S.S.	400	400
Sulphides (as S)	10	10
Sulphates (as SO ₄)	1,500	1,500
Detergents	80	80
Phosphorous (as P)	50	50
Phenols	3	2
Ammonia (Total)	250	250
Nitrates	100	100
Silver	2	2
Aluminium	10	5
Cadmium	0.5	0.5
Cobalt	10	5
Chromium (III)	10	5
Chromium (VI)	0.05	0.05
Copper	10	5
Mercury	0.05	0.05
Iron	20	20
Nickel	20	5
Lead	0.5	0.5
Tin	2.0	2.0
Zinc	20	5

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<u>Parameter</u>	<u>Prior to Sept 1st, 2001 Concentration mg/l</u>	<u>From Sept 1st 2001 and thereafter Concentration mg/l</u>
Arsenic	1	1
Cyanide	0.5	0.5
Chlorides	3,000	2,000
Fluoride	10	10
Organohalogens	0.15	0.15
pH	6 - 10	6 - 10
Temp.	43°C	43°C
Colour	200 mg/l Pt/Co	200 mg/l Pt/Co
Fats, Oils and Grease	200	200

3. SES shall provide and maintain to the satisfaction of Shannon Development:-

- (i) Flow proportional automatic effluent sampling equipment.
- (ii) Continuous recording equipment to measure flow rate, temperature and pH of effluents being discharged.

These items of equipment shall be located in a hut adjacent to the inspection chamber on the discharge pipeline. This hut shall be locked and the keys held in the custody of Shannon Development and Clare County Council.

4. Samples obtained from the automatic sampling equipment will be treated as follows:-

- (a) The sample shall be thoroughly homogenised and subdivided into 3 equal parts.
- (b) SES to carry out the following analysis on 24 hr. composite sample.
 - Flow - Daily
 - pH - Daily
 - COD - Daily
 - Ammonia - three times weekly
 - Total phosphorous (as p) - once weekly
 - Suspended solids - three times weekly
- (c) One part shall be held by Clare County Council and analysed as required to check the standard of the effluent.
- (d) One part shall be held by Shannon Development and analysed as required to check the standard of the effluent.

- (e) A composite sample shall be taken once per month and treated as in (a) above. This sample shall be analysed by SES for all parameters listed in Condition 2.
- (f) There shall be no other emission to sewer of environmental significance.
5. Satisfactory records shall be kept of analyses of effluent samples, flows, temperature and pH range and shall be made available to Shannon Development for inspection.
6. The results of all effluent analyses carried out under Condition 4 shall be forwarded to Shannon Development on a monthly basis. This report is to be issued by the 10th day of the following month.
7. Surface water drained or pumped from the bunded areas, treatment facility, storage or transfer areas and all other surface water likely to suffer contamination shall be discharged to the industrial foul sewer. SES shall only discharge uncontaminated surface water to the stormwater sewer.
8. Uncontaminated roof water from sheds etc. may be discharged directly to the Shannon Development stormwater sewer system.
9. Domestic effluent from the SES treatment facility shall be discharged to the Shannon Development industrial foul sewer system.
10. Shannon Development personnel shall have the authority to enter any area used by SES in the treatment / storage or transfer of wastes for the purpose of inspecting the plant and taking samples of effluent as may be desired.
11. Any sludge arising from the collection, storage or treatment of waste must not be discharged into the sewer system.
12. SES shall at no time discharge or permit to be discharged into the sewer any liquid matter or thing which is or may be liable to set or congeal at average sewer temperature or is capable of giving off any inflammable or explosive gas or any acid, alkali or other substance in sufficient concentration to cause corrosion to sewer pipes, penstock and sewer fittings or the general integrity of the sewer.

No substance shall be present in such concentrations as would constitute a danger to sewer maintenance personnel, or sewer fabric, or the liberation of by-products which may interfere with the operations of Tradaree Point Waste Water Treatment Plant.

SES shall ensure that the effluent discharge shall not contain petroleum spirits or organic solvents (including chlorinated organic solvents) which would give rise to flammable or explosive vapours in sewers.

13. The toxicity of a representative volume of the discharged effluent, as expressed in toxic units, shall be determined twice per annum, with regard to a representative aquatic organism, by standardised and internationally accepted procedures and carried out by a competent laboratory.

The toxic concentration in the discharged effluent shall not exceed 10 toxic units (tu).

Where tu is defined as

$$tu = \frac{100}{48 \text{ hour EC}_{50}}$$

Shannon Development may request a toxicity test incorporating 96hr assays if considered necessary. Copies of all reports shall be submitted on receipt of same to Shannon Development.

Originators of toxic wastes are liable to provide a toxicity rating to SES before the waste is accepted on site. Both Shannon Development and Clare Co. Co. are to be allowed access to this information.

14. Costs incurred by Shannon Development in monitoring effluent discharges shall be recoverable from SES in accordance with the rates for effluent discharge analysis as issued by Shannon Development from time to time and payable monthly in accordance with the terms of the invoice.
15. A representative sample of effluent shall be screened for the presence of organic compounds once per annum. All reports of this screening shall be submitted on receipt of same to Shannon Development.
16. Any costs incurred by Shannon Development, as a result of the discharge by SES of effluent contrary to the conditions herein shall be recoverable in full by Shannon Development, from SES.
17. Shannon Development reserve the right to levy a charge of SES for accepting and treating their effluents. The rate of charge shall be based on the volume/strength of effluents discharged as determined in conditions 3 and 4 of this permit. SES shall be advised of the rate of charge and the payment conditions.
18. SES shall present to Shannon Development, before any discharge takes place, evidence of insurance, in which policy the interests of Shannon Development shall be noted, adequate to indemnify Shannon Development against all damages consequential to non-compliance with these conditions.
19. Any infringement of the effluent discharge conditions stated herein will lead to consideration of withdrawal of the facility; recovery of all remedial costs and if the facility is to continue, increased monitoring the full cost of which is to be borne by SES.

I would be grateful if you would indicate your acceptance of these conditions by countersigning the enclosed copy of these conditions and returning it to me at your earliest convenience.

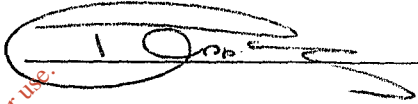
On behalf of Shannon Environmental Services Limited I agree to be bound by the above terms and conditions relating to the discharge of liquid effluents into the Shannon Development Industrial Effluent Sewerage System.

SIGNED ON BEHALF OF:

SHANNON ENVIRONMENTAL SERVICES LIMITED

Signed on behalf of
Shannon Development

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Ken Power
Services & Maintenance Manager