



Environmental Protection Agency  
An Ghníomhaireacht um Chaomhú Comhshaoil

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FAO: Ms Mary Breen, Administrative Officer, Planning & Environment

28 April 2006

Reg No: W0177-03

Dear Mr. O'Sullivan

I am to advise you that the Agency has received an application for a Waste Licence from ONYX Ireland Ltd, for a facility located at ONYX Ireland Ltd, Carrignard, Six Cross Roads, Business Park, Waterford City.

The applicant proposes, as part of this application, to provide for the discharge of process effluent to a sewer, which the applicant has stated is vested in, or controlled by, your Council. Process effluent includes trade effluent or other matter (other than domestic sewage or storm water). I enclose copy extracts from the application form, which detail proposed discharges.

The provisions of Section 52 of the Waste Management Acts, 1996 to 2005, provides that the Agency shall obtain the consent of the sanitary authority to the proposed discharge from an activity which involves the discharge of trade effluent or other matter (other than domestic sewage or storm water), to a sewer vested in or controlled by a sanitary authority.

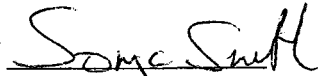
In order to expedite the Agency's consideration of this waste licence application, I am to request your authority's consent to the proposed discharge/s. It should be noted that, your authority's consent may be subject to such conditions as your authority considers appropriate as provided for in Section 52 of the Waste Management Acts, 1996 to 2005 and Section 99E(3) of the Environmental Protection Agency Acts, 1992 and 2003. Your attention is drawn to paragraphs (3) and (4) of the attached copy of the relevant section of the Act. For your convenience please find attached a reply form including a list of draft conditions compiled by the Agency.



In accordance with paragraph (2) of this section of the Act, you are requested to forward your response within 4 weeks of the date of this letter. Please note that any decision given after the expiry period shall be invalid and in those circumstances the Agency may proceed to determine the application concerned as if consent was obtained. Niamh O'Donoghue is dealing with this matter and can be contacted at the Licensing Unit, Office of Licensing & Guidance, Cork Regional Inspectorate, Inniscarra, Co Cork (Tel. No. 021 4875540), if you have any queries.

Your co-operation in this matter is appreciated.

Yours sincerely,



Sonja Smith

**Programme Officer  
Licensing Unit  
Office of Licensing & Guidance**

**Section 99E (3) & (4) of the Environmental Protection Agency Acts, 1992 and 2003**

- (3) Subject to subsection (4), a consent under subsection (1) may be granted subject to or without conditions and if it is granted subject to conditions the Agency shall include in the licence or revised licence concerned conditions corresponding to them or, as the Agency may think appropriate, conditions more strict than them.
- (4) The conditions that may be attached to a consent by a sanitary authority under this section are the following and no other conditions, namely conditions-
- (a) relating to-
    - (i) the nature, composition, temperature, volume, level, rate, and location of the discharge concerned and the period during which the discharge may, or may not, be made,
    - (ii) the provision, operation, maintenance and supervision of meters, gauges, manholes, inspection chambers and other apparatus and other means for monitoring the nature, extent and effect of emissions,
    - (iii) the taking and analysis of samples, the keeping of records and furnishing of information to the sanitary authority,
  - (b) providing for the payment by the licensee to the sanitary authority concerned of such amount or amounts as may be determined by the sanitary authority having regard to the expenditure incurred or to be incurred by it in monitoring, treating and disposing of discharges of trade effluent, sewage effluent and other matter to sewers in its functional area or a specified part of its functional area,
  - (c) specifying a date not later than which any conditions attached under this section shall be complied with,
  - (d) relating to, providing for or specifying such other matter as may be prescribed.

# SANITARY AUTHORITY RESPONSE

**re: SECTION 52 OF THE WASTE MANAGEMENT ACTS, 1996 to 2005**

**Name & Address of Sanitary Authority:** Waterford City Council, City Hall, The Mall, Waterford,  
FAO: Ms Mary Breen, Administrative Officer, Planning  
& Environment.

**Waste Reg. No.** W0177-03

**Waste Facility:** ONYX Ireland Ltd, Carrignard, Six Cross Roads,  
Business Park, Waterford City

**Waste Licence Applicant:** ONYX Ireland Ltd

**Consent:** Indicate Yes to one of the following statements:

|   |  |
|---|--|
| <b>Consent granted subject to the consent conditions outlined below</b> |  |
| <b>Consent granted without conditions</b>                               |  |
| <b>Consent refused</b> <small>Note 1</small>                            |  |

**Note 1** Where it is proposed to refuse permission the reasons for the refusal should be clearly outlined in the response.

| GENERAL CONSENT CONDITIONS  | Condition to be included<br>(Yes/No) |
|---|--------------------------------------|
| 1. No specified emission from the installation shall exceed the emission limit value set out in <i>Schedule B: Emissions Limits to Sewer</i> . There shall be no other emission to sewer of environmental significance.   |                                      |
| 2. The licensee shall carry out such sampling, analyses, measurements, examinations, maintenance and calibrations as out in <i>Schedule C</i> .   |                                      |
| 3. Monitoring and analytical equipment shall be operated and maintained as necessary so that monitoring accurately reflects the discharge or emission.  |                                      |
| 4. The licensee shall permit authorised persons of the Agency and the Sanitary Authority to inspect, examine and test, at all reasonable times, any works and apparatus installed, in connection with the process effluent, and to take samples of the process effluent.  |                                      |
| 5. All automatic monitors and samplers shall be functioning at all times (except during maintenance and calibration) when the activity is being carried on unless alternative sampling or monitoring has been agreed in writing by the Agency for a limited period. In the event of the malfunction of any continuous monitor, the licensee shall contact the Agency as soon as practicable, and alternative sampling and monitoring facilities shall be put in place. Prior written agreement for the use of alternative equipment, other than in emergency situations, shall be obtained from the Agency. |                                      |
| 6. The licensee shall record all sampling, analyses, measurements, examinations, calibrations and maintenance carried out in accordance with the requirements of this licence.  |                                      |
| 7. The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the Agency.   |                                      |
| 8. The licensee 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.  |                                      |
| 9. In the event of any incident which relates to discharges to sewer, having taken place, the licensee shall notify the Agency, Local Authority and Sanitary Authority as soon as practicable after the incident.   |                                      |





## Frequency of Monitoring Process Effluent to Sewer

### Schedule C

Waste Licence application Register No. W0177-03

Emission Point Reference No: \_\_\_\_\_

| Parameter<br><i>(delete parameters which are not applicable)</i> | Monitoring Frequency<br><i>(e.g. monthly, quarterly, annually)</i> | Sampling Type<br><i>(grab, composite)</i> |
|--|--|---|
| Flow to sewer  |  |   |
| Temperature  |  |   |
| pH   |  |   |
| BOD  |  |   |
| COD  |  |   |
| Suspended Solids   |  |   |
| <b>ADDITIONAL PARAMETERS</b>                                     |  |   |
| <i>(if required)</i>   |  |   |
|  |  |   |
|  |  |   |
|  |  |   |
|  |  |   |
|  |  |   |
|  |  |   |

| SANITARY AUTHORITY CHARGES  |  |
|---|--|
| Charge per cubic metre of process effluent (per s52 of the Waste Management Acts, 1996 to 2005) |  |
| Payment Frequency   |  |
| Annual Monitoring Costs   |  |

**Signed on behalf of Waterford City Council**

\_\_\_\_\_ Date \_\_\_\_\_

### **I3-Assessment of Impact on receiving sewer**

Please refer to Section 5 of the EIS for information on Assessment of impact on receiving sewer.



### 3.0 RESULTS AND DISCUSSION

The results of the analysis are detailed in Table 3.1 below.

| <b>Parameters</b>           | <b>SW1<br/>Concentration</b> | <b>SW2<br/>Concentration</b> | <b>ELV's as per<br/>Waste Licence<br/>177-1</b> |
|-----------------------------|------------------------------|------------------------------|---|
| PH (pH units)               | 8.50                         | 6.73                         | -   |
| Temperature ( C)            | 16.8                         | 16.2                         | -   |
| BOD (mg/L)                  | 12                           | 2                            | 25 mg/L   |
| Mineral Oils (ug/L)         | <10                          | <10                          | 5 mg/L  |
| OFG (mg/L)                  | <10                          | <10                          | -   |
| Suspended Solids (mg/L)     | 29                           | <5                           | 35 mg/L   |
| Conductivity (uS/cm @ 20 C) | 278                          | 82                           | -   |
| Visual Inspection           | Clear                        | Clear                        | -   |

### 4.0 DISCUSSION

The results of the analysis for SW1 and SW2 are detailed in Table 3.1 above.

The results indicate that the parameters measured for SW1 and SW2 are within the ELV's for the Waste Licence 177-1 for the 2nd quarter of 2004.

**TABLE F.1: ABATEMENT / TREATMENT CONTROL**

*Emission point reference number* : FW1

| Control <sup>1</sup><br>parameter | Equipment <sup>2</sup> | Equipment<br>maintenance | Equipment<br>calibration | Equipment<br>back-up |
|-----------------------------------|------------------------|--------------------------|--------------------------|----------------------|
|                                   | Grit Traps             | Desludged                | None required            | None required        |
|                                   | Oil Interceptor        | Desludged                | None required            | None required        |

| Control <sup>1</sup><br>parameter | Monitoring to be carried<br>out <sup>3</sup> | Monitoring equipment | Monitoring equipment<br>calibration             |
|-----------------------------------|--|----------------------|---|
|                                   | pH   | Potable Probe        | Standard Methods                                |
|                                   | Conductivity                                 | Portable Probe       | Standard Methods                                |
|                                   | Flow   | None                 | Calculated daily (water<br>usage plus rainfall) |
|                                   | COD  |                      | Standard Methods                                |
|                                   | BOD Suspended Solids                         |                      | Standard Methods                                |
|                                   | OFG's  |                      | Standard Methods                                |
|                                   | MBAS   |                      | Standard Methods                                |
|                                   | Temperature                                  | Temp. Probe          | Standard Methods                                |

<sup>1</sup> List the operating parameters of the treatment / abatement system which control its function.

<sup>2</sup> List the equipment necessary for the proper function of the abatement / treatment system.

<sup>3</sup> List the monitoring of the control parameter to be carried out.

**TABLE E.3 (i): EMISSIONS TO SEWER**

(One page for each emission)

**Emission Point: FW1**

|                                      |                             |
|--------------------------------------|-----------------------------|
| Emission Point Ref. N <sup>o</sup> : | FW1                         |
| Location of connection to sewer :    | Adjacent to Truck Wash Shed |
| Grid Ref. (10 digit, 5E,5N):         | 258384E, 109456N            |
| Name of sewage undertaker:           | Waterford City Council      |

**Emission Details:**

|                          |                    |             |                   |
|--------------------------|--------------------|-------------|-------------------|
| (i) Volume to be emitted |                    |             |                   |
| Normal/day               | 2.45m <sup>3</sup> | Maximum/day | 775m <sup>3</sup> |
| Maximum rate/hour        | 31.2m <sup>3</sup> |             |                   |

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

|                           |  |
|---------------------------|--|
| Periods of Emission (avg) | _____ min/hr _____ hr/day _____ day/yr |
|---------------------------|--|

**TABLE E.3 (ii): EMISSIONS TO SEWER - Characteristics of the emission** (1 table per emission point)

*Emission point reference number:* FW1

| Parameter           | Prior to treatment         |                           |        |         | As discharged              |                           |        |         | % Efficiency   |
|---------------------|----------------------------|---------------------------|--------|---------|----------------------------|---------------------------|--------|---------|----------------|
|                     | Max. hourly average (mg/l) | Max. daily average (mg/l) | kg/day | kg/year | Max. hourly average (mg/l) | Max. daily average (mg/l) | kg/day | kg/year |                |
| pH (pH units)       |                            |                           |        |         | 6 – 9                      | 6 – 9                     | -      | -       | Not Determined |
| Temperature (C)     |                            |                           |        |         | 18.0                       | 18.0                      | -      | -       | Not Determined |
| BOD                 |                            |                           |        |         | 400                        | 400                       | 0.98   | 357     | Not Determined |
| COD                 |                            |                           |        |         | 1100                       | 1100                      | 2.69   | 979     | Not Determined |
| OFG                 |                            |                           |        |         | 10                         | 10                        | 0.02   | 8.9     | Not Determined |
| Suspended Solids    |                            |                           |        |         | 300                        | 300                       | 0.73   | 268     | Not Determined |
| Conductivity(µS/cm) |                            |                           |        |         | 1500                       | 1500                      | -      | -       | Not Determined |

**TABLE F.2 to F.8 : EMISSIONS MONITORING AND SAMPLING POINTS**  
**( 1 table per media)**

*Emission Point Reference No(s) :* FW1

| Parameter             | Monitoring frequency | Accessibility of Sampling Points |
|-----------------------|----------------------|----------------------------------|
| pH                    | Quarterly            | V.Good                           |
| Flow                  | Daily                | V.Good                           |
| Temperature           | Quarterly            | V.Good                           |
| COD                   | Quarterly            | V.Good                           |
| BOD                   | Quarterly            | V.Good                           |
| Total Suspended Solid | Quarterly            | V.Good                           |
| OFG                   | Quarterly            | V.Good                           |
| Conductivity          | Quarterly            | V.Good                           |
| MBAS                  | Quarterly            | V.Good                           |

