

## INSPECTORS REPORT

<b>WASTE LICENCE REGISTER NUMBER:</b>	177-1
<b>APPLICANT:</b>	IPODEC Ireland Ltd
<b>FACILITY:</b>	Carrignard Six Cross Roads Business Park Waterford City
<b>INSPECTOR</b>	Breege Rooney
<b>RECOMMENDATION:</b>	That a licence be granted subject to conditions.

### (1) Introduction:

IPODEC Ireland Ltd. has applied for a waste licence to continue to operate a non-hazardous Waste Transfer and Recycling Station in Carrignard industrial estate on the south western side of Waterford city. IPODEC Ireland Ltd. commenced their operations on the site in January 2001. The predominate land use in the area is industrial. The nearest residential property is located 100m to the north-east of the entrance of the business park on the Lacken road. The Ballybeg housing estate is located approximately 500m to the north of the site. Planning Permission for this development was granted on 24 February 2000.

Waterford Corporation issued a waste permit in respect of the facility, in December 2000, limiting the tonnage accepted per annum to 5000 tonnes. This permit is valid until 1 December 2003. The facility exceeded this quantity in July 2002 due to the changes in waste acceptance conditions at the local authority landfills. At the end of 2002 Waterford Corporation Kilbarry landfill ceased accepting commercial waste.

IPODEC Ireland Ltd. have applied for a waste licence in order to increase the household, commercial, Construction & Demolition, and industrial non-hazardous waste accepted at the facility to 25,000 tonnes per annum.

The classes of activity applied for and proposed to be allowed are as below:

#### **Waste Disposal Activities – Third Schedule**

**Class 11.** Relates to the mixing of non-recyclable waste prior to loading into ejection trailers for transfer to landfill.

**Class 12. Principal Activity** Relates to the loading of waste into containers prior to transfer to an appropriate facility.

**Class 13.** Relates to the storage of waste prior to transfer to an appropriate facility.

### Waste Recovery Activities – Fourth Schedule

**Class 2.** Relates to the recovery of plastics, timber, cardboard, glass and paper prior to transfer to an appropriate facility.

**Class 3.** Relates to the recovery of metal prior to transfer to recycling facilities.

**Class 4.** Relates to the recovery of construction and demolition waste.

**Class 13.** Relates to the temporary storage of baled cardboard, timber, plastics, glass, paper and metal prior to transfer to recycling facilities.

A site location map and a site layout plan showing the outline of the facility to which the application relates is provided in Appendix 1.

<b>Description of Principal Activity</b>	<b>Class 12. Third Schedule:</b> Relates to the loading of waste into containers prior to transfer to an appropriate facility
<b>Quantity of waste (tpa)</b>	25,000
<b>Environmental Impact Statement (EIS) Required</b>	Yes, I have assessed the EIS and I am satisfied that it complies with the Regulations (S.I. No. 93 of 1999).
<b>Number of Valid Submissions Received</b>	2
<b>Date of Application</b>	6 September 2002

### FACILITY VISITS:

<b>DATE</b>	<b>PURPOSE</b>	<b>PERSONNEL</b>	<b>OBSERVATIONS</b>
3/10/02	Site notice compliance and inspection	B. Rooney	Site notices erected at the entrance to the Industrial Estate and at the entrance to the facility. Site Notice complies with the Regulations (SI No. 185 of 2000).

The EIS sets out the assessment of the impacts associated with the development of the site to accept 55,000 tonnes per annum. However, IPODEC Ltd. have clarified ( letter dated 6/12/02) that they have decided not to develop the site further at this stage but wish to increase the waste acceptance to 25,000 tonnes per annum.

The Applicant proposed to operate the facility six days a week, between 7.00am and 9.00pm Monday to Friday and between 7.00am and 6.00pm on a Saturday.

### Activities recommended for licensing:

It is recommended that all the above activities, for which the applicant has applied for a waste licence, be licensed subject to the Conditions contained in the attached Proposed Decision.

## **(2) Facility Development**

The infrastructure on site consists of a materials handling & recycling building (MHRB), bailer unit, weighbridge, truckwash bay, banded fuel storage, waste quarantine and waste inspection areas, security fencing, close circuit T.V, garage, hardstanding and offices. Condition 3 requires that these facilities are maintained.

## **(3) Waste Types and Quantities**

The recommended PD allows the facility to accept a total of 25,000 tonnes of waste per annum of commercial waste (12,000 tonnes), industrial non hazardous waste (8,000 tonnes), household(4,200 tonnes) and construction & demolition waste (800 tonnes) as detailed in Schedule A. Condition 1 prohibits the acceptance of hazardous or liquid wastes. Once a waste load is checked and weighted it is deposited on the floor of the MHRB. The recyclable wastes are picked out and the cardboard, plastics, wood, glass and metal are stocked piled for transfer to appropriate recyclable facilities. Cardboard is baled and plastics will be baled in future. Non-recyclable waste is bulk loaded and transferred to off site licensed disposal facilities. Hazardous or non-acceptable waste is transferred to the waste quarantine area to await collection by a hazardous waste contractor to an appropriate facility. No waste is placed outside the MHRB other than baled cardboard, plastic, paper, glass and timber and metal in containers pending removal off-site. Condition 4 requires the applicant to maintain waste acceptance and characterisation procedures and details the operational controls required and controls which contractors must satisfy. IPODEC Ireland Ltd. have detailed that it is not possible to clean the floor of the transfer station of putrescible waste at the end of each day due to the opening hours of the facility and opening hours of landfills. It is detailed that non-recyclable waste remains on-site for more than 64 hours to account for bank holidays. However, the PD, Condition 6 requires that all waste be removed within 24 hours and 48 hours at bank holiday weekends.

The facility currently operates six days a week between 7.00am and 9.00pm Monday to Friday and 7.00am to 6.00pm on Saturday. The facility is located in an industrial estate and in an area zoned for industrial and commercial use and is surrounded by industrial and commercial developments. Hence, it is recommended that these hours of operation be licensed. However, the hours of waste acceptance are reduced by 30 minutes at the end of each working day to allow for clean up operations.

## **(4) Emissions to Air**

Potential emissions to air from the facility include, odours, dust and noise.

### **Odours**

Odour could arise from the fraction of putrescible waste, approximately 10-15%, accepted at the facility. However, there are a number of Conditions controlling potential odour nuisance from the facility. Condition 4 requires all waste processing to

be carried on inside the waste transfer station and the floor of the transfer station to be washed down every 24 hours. Condition 6 requires removal of waste within 24 hours and 48 hours at bank holiday weekends, maintenance of the existing odour neutralising system and storage of waste in enclosed containers that are held overnight.

### **Dust**

Fugitive dust emissions may arise from the MHRB and the hardstanding areas. Dust monitoring carried out in 2001 and 2002 indicated that some of the results were above permit limits (D2 at 276mg/m<sup>2</sup>/day in 2001 and D1 at 311mg/m<sup>2</sup>/day as opposed to a limit of 250 mg/m<sup>2</sup>/day) but these levels were attributed to off-site construction. Provisions for dust control are required under Condition 6. In addition, Schedule C sets an emission limit value of 350 mg/m<sup>2</sup>/day at dust monitoring locations and Schedule D requires regular monitoring.

### **Noise**

Day and nighttime noise surveys were carried out in 2001 and 2002 at boundary locations. The results of the 2001 survey indicated that the nighttime noise levels did not exceed the normally recommended limits of 45dB(A). However, the daytime limit of 55dB(A) was exceeded, (56dB(A) and 60db(A)), at two locations, caused by truck movements on-site. At one position a tonal component of 1.25kHz was recorded caused by the reversing warning siren of a waste delivery truck. The results of the 2002 survey indicated that daytime noise levels at both of the site boundary monitoring locations (N1 at 66db(A) and N2 at 64.2db(A)) were above the limit of 55dB(A) while the nighttime limit was exceeded at one location (N1 at 46.5db(A))

The facility is located in an industrial park and the nearest noise sensitive location, a private residence, is located approximately 300m north east of the site. It should be noted that there are several other industrial facilities to the north and north-east between IPODEC and the private residence. The residence is also adjacent to a road. Hence, it is concluded that the road traffic noise is more likely to impact on the residence rather than the IPODEC facility given the noise levels recorded at the boundary of the facility and the distance to the residence.

The PD contains a number of Conditions to ensure that noise emissions do not give rise to nuisance at noise sensitive locations as a result of activities at the facility. These include Condition 5.1 and Schedule C setting noise emission limits and Condition 5 which prohibits audible tonal and impulsive components. In addition, Condition 7 and Schedule D requires noise monitoring at boundary and noise sensitive locations and Schedule E requires reporting of the monitoring. While Condition 4 requires all waste processing to be carried out inside the waste transfer building.

## **(5) Emissions to Groundwater**

The bedrock below the site has been classified as a regionally important aquifer with a high vulnerability rating. However, all waste activities are required to be carried out in the waste transfer building (Condition 4), the whole site where waste is handled is

concreted (Condition 3) and the remainder of the site is covered with asphalt and all fuel and oil tanks are bunded (Condition 3). There are no emissions to groundwater and Condition 5 prohibits direct emission. As there are sufficient controls to prevent emissions to groundwater monitoring of groundwater is not required.

#### **(6) Emissions to Sewer**

Wastewater arises from the truck wash area, the concrete apron (in the event of rain) located at the front of the MHRB and garage, and from the toilets and canteen facilities on-site. The truck wash runs into a grit trap and then to a second grit trap and a Class II oil/water interceptor before discharge to the foul sewer. The run-off from the concrete apron also passes through the same grit trap and interceptor before discharge. The sampling point FW1 for the wastewater is prior to the toilet and canteen wastewater discharge. Following the sampling point there is a shut-off valve which can be closed to prevent unexpected emissions occurring. Conditions 5, Schedule C and D controls emissions to sewer. The consent conditions outlined in Waterford City Council's Section 52 response have been included in the PD.

#### **(7) Emissions to Surface Waters**

There are two surface water discharges from the site. The surface water from all asphalt areas, including weighbridge, car park, truck wash, bin storage and truck movement areas pass through a grit trap and Class I interceptor prior to discharge to a dyke. A shut off valve is located in this discharge line to minimise the possibility of unexpected emissions. Surface water from the roof areas discharge directly to the same dyke without any treatment. The dyke discharges into the St. Johns River which is polluted, as a result of other activities, and subsequently into the River Suir. There are two surface water monitoring location SW1 (yard runoff) and SW2 (roof runoff).

Surface water (SW) is protected by; Condition 3 which requires silt traps and a Class I Full Interceptor. SW manholes are required to be colour coded; Condition 5 sets trigger levels for certain parameters of water quality and prohibits wastewater discharging to SW; Condition 7 and Schedule D requires monitoring on a quarterly basis; Schedule C sets a mineral oil limit of 5mg/l and Schedule E requires frequent reporting of monitoring results.

#### **(8) Waste Management, Air Quality and Water Quality Management Plans**

South-East Regional Waste Management Plan Waste Management Plan

The recycling and recovery activities proposed by IPODEC Ireland Limited are in keeping with the strategy for the county.

#### **(9) Submissions**

Two valid submissions were made in relation to this application as set out below.

**1. (01/11/02) & 2. (25/04/03) Duchas.**

The submissions stated that Duchas had no recommendations or objections to the application from a nature conservation perspective.

**(10) Recommendation**

It is recommended that a licence be granted for Classes 11, 12 and 13 of the Third Schedule and Classes 2, 3, 4, and 13 of the Fourth Schedule as applied for in the application.

**Signed:** \_\_\_\_\_

Breege Rooney, Inspector  
Environmental Management & Planning

**Dated:** \_\_\_\_\_

## **APPENDIX 1**

### **PLANS**

1. Site Location
2. Site Layout