

**NEIPHIN TRADING LTD.
KERDIFFSTOWN, NAAS, CO. KILDARE.**

**INTEGRATED WASTE MANAGEMENT FACILITY
INCLUDING
A LANDFILL FOR NON-HAZARDOUS WASTE**

Waste Licence Register 47-1

**APPLICATION FOR A
WASTE LICENCE REVIEW
NON TECHNICAL SUMMARY**

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Neiphin Trading Ltd.

**Integrated Waste Management Facility
Including a Landfill for Non-Hazardous Waste**

Kerdiffstown, Naas, Co. Kildare

**Application for a Review of
Waste Licence No. 47-1**

Non-Technical Summary

PREAMBLE

Further to correspondences and meetings between the Environmental Protection Agency (EPA) and the Licencee, Neiphin Trading Ltd., in early 2004, an outline of the content proposed for this Waste Licence review were agreed, as indicated in a letter from the EPA dated 19 April 2004:

".....a full review application is not required in this instance. An application may be made under the revised review procedure (as allowed for under Article 6(e) of the Waste Management (Licensing) (Amendment) Regulations, 2002)".

The content of this review application intends to meet the requirements of the Agency, as set out in its correspondence to the Licencee dated 19 April 2004 and the requirements of the Waste Management (Licensing) Regulations 2004.

**1. GROUNDS FOR THE APPLICATION FOR THE REVIEW OF
WASTE LICENCE REGISTER NO. 47-1**

The following is a summary of the grounds on which this application for review is based on:

**1.1 Grounds No. 1 - A proposed Extension to the Facility
Boundary and Lined Landfill**

The licensee wishes to extend the facility boundary to allow recovery of previously deposited wastes that are outside the current limits of the licensed activities and to extend the lined landfill into that area. This will result in an increase of the lands currently licensed from 28.3 hectares. to 30.6 hectares.

**1.2 Grounds No. 2 - A Proposed Amendment of the Maximum
Final Contour Level of the Restored Landform**

The licensee wishes to make the planning permission and the Waste Licence consistent in regard to the final restoration levels at the site. The

planning permission allows a maximum level of 108mOD whereas condition 4.2 of Waste Licence 47-1 allows a maximum level of 100 mOD.

1.3 Grounds No. 3 – Proposals to include Further Waste Recovery and Disposal Activities for Biological Treatment of Wastes

The licensee wishes to treat and recover putrescible wastes that are included in the waste streams with other biodegradable wastes currently being recovered pursuant to Class 2 of the Fourth Schedule of the WMA, 1996 (See Waste Licence 47-1; Part I – Activities Licensed). These wastes may currently be accepted at the facility but the waste licence makes no provision for their recovery or disposal on site.

Finally it is possible that some of the materials arising from physical and biological treatment processes may not be suitable for recovery and thus must be disposed on site or off site. The licensee wishes to cater for this possibility.

On account of these positive proposed initiatives by the licensee in relation to expanding waste recovery infrastructure and increasing the rate of recovery in line with government policy and the EU Directive on the Landfill of Waste, some of the restrictions attached to the licensed activities need to be amended. Furthermore, some new activities need to be added to cater for the proposals by the licensee.

2. ARTICLES 5, 6, & 7 COMPLIANCE REQUIREMENTS

In accordance with Article 5, the appropriate site and newspaper notices have been posted.

3. ARTICLE 9 COMPLIANCE REQUIREMENTS

3.1 Notice to the Relevant Planning Authority

In accordance with Article 9, written notice of the licence review application was given to the Kildare County Council. Kildare County Council is also the Sanitary Authority.

4. ARTICLE 12 COMPLIANCE REQUIREMENTS

4.1 Information Specified in Article 12(1)(a)

Full details of the applicant have been provided in this Waste Licence Review application.

4.2 Site Plan and Address

A site plan (Drawing No. NTL/1001), which shows the extent of the entire facility, outlined in red is attached. The proposed area of extension is also

outlined on the drawing. The postal address is Kerdiffstown, Co. Kildare and the National Grid Reference is E291300, N222250.

4.3 Applicants' Interest in Land

The 'applicant' – Neiphin Trading Ltd. has a long-term lease agreement with the owners of the lands (Dean Waste Co. Ltd.) subject to this application (See Drawing No. NTL/1003).

4.4 Classes of Activity Concerned, in Accordance with the Third and Fourth Schedule of the Waste Management Act 1996 / Protection of the Environment Act 2003

Summary tables 4.1 and 4.2, showing the activities concerned with this Waste Licence Review, as specified in the THIRD SCHEDULE and FOURTH SCHEDULE of the Waste Management Acts 1996 - 2001 and the Protection of the Environment Act 2003, are presented in this Waste Licence Review Application. The landfill will be a Non-Hazardous Waste landfill in accordance with Article 4 of the Landfill Directive.

4.5 Proposed Capacity of Facility and Revised Rates of Waste Acceptance, Waste Disposal and/or Waste Recovery

It is not intended to vary the quantity or types of waste accepted at the facility, from those agreed in the Waste Licence 47-1 schedule.

The ultimate capacity of the facility will depend on a number of factors including the extent of excavations, as built levels of the floor and side slopes of the lined area and final restoration levels. On the basis of some preliminary computations the capacity is estimated to be in the order of 3.5 million m³. The nature of the facility is an integrated waste management facility incorporating a non-hazardous waste landfill and a recycling facility for construction and demolition waste and commercial and industrial waste.

4.6 Waste Types in Accordance with Articles 53 & 54

The waste types to be accepted at the facility for disposal at the landfill will not change from those agreed in Waste Licence 47-1 and are/will be in accordance with Article 53 & 54 of the Waste Management (Licensing) (Amendment) Regulations 2002, as replaced by Sections 49 & 50 of Waste Management (Licensing) Regulations 2004.

4.7 Details of Proposed Extension

The review envisages the development of a ca. 2.3 ha site, consisting of an extension of an existing waste management facility. Drawing NTL/1002 outlines the proposed extension to the existing integrated waste management facility in relation to landfill areas specified under the existing licence.

4.8 Design Considerations / Plans for the Proposed Composting Facility

Detailed information under the following headings is provided in this waste licence review application and is summarised as follows:

- Proposed Location: in a below grade location next to the Waste Recycling Building as shown on Drawing NTL/1002.
- Waste Types Proposed to be Accepted: green wastes, putrescible wastes, wood, timber, paper and cardboard.
- Maximum Quantities: infrastructure will be phased up to 65,000tonnes/annum.
- Types of Process: In-Vessel Composting Technology with indoor preparation and outdoor curing.
- Odour/gas Abatement: biofilters will be used.
- Dust Abatement: outdoor sprinklers/misting will be used.

4.9 Proposed Changes to the Final Contour Levels of the Landfill

The licensee is proposing that a maximum level on the final restoration surface of 108 mOD, as already granted planning permission be allowed under the reviewed waste licence.

The licensee is proposing the higher maximum level so that the planning permission and the Waste Licence are consistent. The licensee also wishes to produce a landform that is consistent with the principals of BAT in regard to the promotion of surface water drainage from the surface of the restored landform and a landform that is consistent with the recommendations and guidance provided in the Agency Manual on Landfill Restoration and Aftercare. In particular, in order to ensure the minimum gradients on the side slopes of completed landfills of 1:25 the maximum final height would need to be 108 mOD in some areas since the maximum height of the ground surrounding the facility is 102 mOD.

An environmental assessment of the potential effects on the environment due to the proposed changes to the final contour levels are disused in this review application under the following headings:

- Proposed Impacts on the Environment
- Potential Impacts
- Mitigation
- Likely Impacts
- Additional Mitigation Measures

4.10 Environmental Impacts of Proposed Amendments

All of the proposed amendments will provide a positive impact on the environment through improved measures to manage wastes during the operating life of the facility and during the after care period. Some key points and positive impacts are as follows:

The extension of the lined landfill is not expected to have any negative impact on the environment.

As stated above, the raising of the final contours for the facility will simply bring the level to that agreed by the Planning Permission and to conform with good practice and the guidance of the Agency in regard to providing gradients for positive drainage of runoff from the restored surface of landfill sites.

The addition of some specific waste management activities and amendment of some of the limitations placed on some of the existing activities will facilitate development and use of important waste recovery infrastructure at this facility.

As requested by the Agency, further information under the following subject headings, is included in this waste licence review, namely:

- Odour control
- Gas control
- Leachate Control and Management
- Restoration and Aftercare at the Facility

4.11 Matters Relating to Section 40(4) of the Waste Management Act 1996

Matters relating to Section 40(4) of the Waste Management Act 1996 are addressed under the following subject headings as part of this waste licence review, namely:

- Emissions from the Recovery & Disposal Activity
- Environmental Pollution
- Landfill Directive on the
- BAT and Facility Emissions
- Waste Plan
- Fit and Proper Person
- Requirements Under Section 53 of Waste Management Act, 1996 – Financial Provisions Regarding Waste Recovery and Disposal
- Energy
- Noise
- Accidents
- Restoration and Aftercare

4.12 Environmental Monitoring

Proposed changes to monitoring and sampling points are included in this waste licence review. Drawing No. NTL/1008 shows the proposed changes to the monitoring and sampling points at the facility.

The arrangements for environmental monitoring will remain the same as those stated in the Waste Licence 47-1 for the facility.

4.13 Financial Provisions

Financial provisions will be provided for a number of scenarios, which include:

- Development and Operation of Site;
- Environmental Pollution Liabilities;
- Bankruptcy;
- Closure and Decommissioning Costs; and
- Post Closure Costs.

4.14 Information to Accompany the Application, as Specified in Article 12(4) of the Waste Management (Licensing) Regulations, 2004

Information to accompany this waste licence review application, as required under Article 12(4) of the Waste Management (Licensing) Regulations 2004, includes details on the following:

- Newspaper Notice
- Text of Site Notice
- Copy of Notice to Planning Authority
- Site Plans showing the position of the site notice, points of emission and monitoring locations
- Fee for Waste Licence Review

4.15 Compliance with Regional Waste Management Plan

A number of relevant plans and policies were considered for the purposes of this waste licence review. In summary, the proposed waste recovery and disposal infrastructure at the Kerdiffstown Integrated Waste Management Facility will assist with meeting the objectives of the Kildare and Dublin Waste Management Plans through enabling increased levels of recovery and recycling of C&D and C&I wastes and providing disposal capacity for residual wastes that is designed, constructed, operated, monitored and managed in accordance with the Directive on the Landfill of Waste.