

1. GENERAL CONSIDERATIONS

Nant y Gwyddon Landfill Site is located at National Grid Reference SS 980 940, approximately 1km south of the village of Gelli, on the west side of the Rhondda Fawr Valley, Mid Glamorgan. (See Drawing No 1) The site is divided into the operational Cell 1 and the future tipping area Cell 2. Cells 1 and 2 are separated by a bund known as the Jones's Bund.

The landfill became operational in September 1987, being developed and operated by Rhondda Borough Council upon containment principles. Since 1997 the latter became part of Rhondda Cynon Taff County Borough Council. Following the requirements of the Environmental Protection Act 1990, a local authority waste disposal company, Rhondda Waste Disposal Ltd was formed and a Waste Management Licence was granted by the Rhondda Borough Council on 15 March 1995, see Appendix 1.

This Waste Management Licence was formally transferred by the Environment Agency from Rhondda Waste Disposal Ltd. to Amgen Rhondda Ltd (A division of Cynon Valley Waste Disposal Company Ltd. (CVWDC), which is a company controlled by the County Borough Council of Rhondda Cynon Taff), on the 23rd September 1999. For the purposes of this document the operator will be referred to as Amgen Rhondda Ltd.

Amgen Rhondda Ltd intend to progressively landfill and restore the remaining void and existing landfill operation with household, commercial and industrial wastes, see Section 1.2.

1.1 Specified Waste Management Operations

The principal waste management operations to be undertaken at the site are given below:

Table 1: Specified Waste Management Operations

Specified Waste Management Operation	Permitted Waste Type	Limits on Specified Waste Management Operation
D5: Specially engineered landfill of waste.	All wastes given in Section 1.2 of the Working Plan.	Within all Phases of the landfill
D15: Storage	All wastes given in Section 1.2 of the Working Plan	Within all phases of the landfill

These operations including associated delivery and despatch operations shall take place within the area defined on Drawing 2.

The site area is divided into the following:

- Active landfill operations (Cell 1)
- Future landfill operations (Cell 2)
- Ancillary areas – ie. Roadways, surface water lagoons, site offices, flare compounds etc.

1.1.1 Waste Management Operations

The development and disposal operations at Nant y Gwyddon will involve:

- Waste acceptance at the site weighbridge
- Deposit of waste materials within the existing landfill
- Compaction of waste after placement and application of cover
- Placement of intermediate cover
- Placement of a final low permeability cap
- Restoration of the landform with restoration soils, small trees and shrubs
- Landfill gas collection and flaring resulting from the landfill operation
- Leachate collection, treatment and disposal resulting from landfill operation
- Environmental monitoring at the site throughout the period of site development and aftercare.

A detailed list of permitted waste types for each of the site operations is given in Section 1.2 overleaf:-

1.2 Permitted Wastes

1.2.1 Maximum Capacity of Site

The maximum quantities of waste to be accepted at the site are given in Table 2.

Table 2 - Permitted Waste Categories

Waste Type	Maximum Permitted Quantities (tonnes per annum)
Scrap metal	Not permitted except where arising incidentally in permitted loads.
Special Wastes	Not permitted
Degradable Household Wastes Degradable Commercial Wastes Degradable Industrial Wastes Inert Wastes	294,000 - expressed as a sum total of these types
Other Wastes: See notes 1 and 2	6,000
Total	300,000

Note:

1. Difficult wastes may only be accepted following prior agreement with the Environment Agency.
2. Shredded tyres are currently accepted at Nant-y-Gwyddon landfill site. However, this waste input will cease in July 2006, as the Landfill Directive prohibits the input of shredded tyres at this time.

The following waste types, as described in accordance with the UK Waste Classification Scheme Waste Composition Categories (16th Draft), may be accepted at the site.

Category 21 Inert

- 21.01.00 Naturally occurring rocks and sub-soils (all categories)
- 21.02.00 Ceramic and/or cemented materials (all categories)
- 21.03.00 Processed prepared mineral materials which have not been used or contaminated (all categories, handling procedure to be agreed with agency).
- 21.04.00 Mixed category 21 wastes

Category 22 General and Biodegradable

- 22.01.00 Naturally occurring rocks and soils containing organic matter (all categories)
- 22.02.00 Construction and/or demolition waste (all categories see 22.02.02 and 22.02.03 below)
- 22.02.02 Asphalt, bitumen and coated roadstone – *to be restricted to weathered asphalt and coated roadstone only*
- 22.02.03 Mixtures of soils, subsoils and asphalt, roadstone and pipework/asphalt and coated roadstone component - *to be restricted to weathered materials only*
- 22.03.00 Plaster and/or plasterboard (all categories, excluding other waste calcium sulphates e.g. filter cakes)
- 22.04.00 Separate materials (all categories)
- 22.05.00 Co-mingled materials separated for recycling
- 22.06.00 Vegetable matter (all categories)
- 22.07.00 Animal matter (all categories, excepting 22.07.04 and restricting 22.07.05 to dog faeces only)
- 22.08.00 Animal or vegetable oil, fat, wax, grease (all categories, solid only, handling procedures to be agreed with agency Prior to disposal)
- 22.09.00 Household, and/or similar commercial and/or industrial waste (all categories)

22.10.00 Sewage (22.10.03 – dried sewage sludge and 22.10.04 – washed screenings and grits only)

Category 24 Contaminated General Wastes – Non-Special

Disposal of the following materials is only to be undertaken following consultation with the Environment Agency. An acceptance protocol will be administered in consultation with the Agency, based on The Greater Manchester Waste Regulation Authority Contamination Classes (Volume 2 Appendix 2), and the Agency's Guidance on the Disposal of Contaminated Soils (Volume 2 Appendix 3).

- 24.01.00 Contaminated soil and sub-soil etc (all categories)
- 24.02.00 Used moulds, muds, filter materials etc (all categories)
- 24.03.00 Residues from abrasive processes (all categories)
- 24.04.00 Contaminated construction and/or demolition wastes (all categories)
- 24.05.00 Contaminated containers, and other packaging (all categories)
- 24.06.00 Contaminated 22.04.00 to 22.09.00 wastes (inclusive)
- 24.07.00 Fragmentation residues
- 24.08.00 Contaminated vegetable and/or animal matter

Category 24 Healthcare risks wastes.

- 25.03.00 Healthcare excreta (25.02.03) only

Category 27 Mineral waste and residues from thermal processes not listed elsewhere – Non-Special

Disposal of the following materials only to be undertaken following consultation with agency and having regard to the appropriate guidance (i.e. Agency guidance on disposal of contaminated soils and the Greater

Manchester Waste Regulation Authority Contamination Classes table of threshold limits).

- 27.01.00 Slag from primary metal production (all categories)
- 27.02.00 Drosses from secondary metal production (all categories)
- 27.03.00 Vitrified wastes
- 27.04.00 Bottom ash and/or clinker (all categories)
- 27.05.00 Fly ash and/or stack and/or stack gas cleaning residues (all categories)
- 27.07.00 Cement

Category 29 Organic Chemical Wastes – Non-Special

Disposal of the following materials only to be undertaken following consultation with agency and having regard to the appropriate guidance (i.e. Agency guidance on disposal of contaminated soils, the Greater Manchester Waste Regulation Authority Contamination Classes table of threshold limits and Special Waste Classifications etc ([Volume 2 Appendix 4](#)).

- 29.01.00 Carbon
- 29.02.00 Paint, varnish and/or laquers (all categories)
- 29.03.00 Synthetic adhesives and/or sealants (all categories)
- 29.04.00 Inks (all categories, solid only)
- 29.05.00 Pigments (solid only)
- 29.06.00 Dyestuffs (solid only)
- 29.07.00 Cosmetics (solid only)
- 29.08.00 Surfactants and/or chelating agents (all categories, solid only)
- 29.09.00 Organic household products not specified elsewhere (solid only)

Clinical waste shall be permitted if it is disposed of in accordance with Department of the Environment Waste Management Paper No 25 '*Clinical*

Wastes’ (1983) and the Health and Safety Commission Health Services Advisory Committee publication *‘The safe disposal of clinical waste’* (1999).

Only waste previously referred to:- i.e. 22.03.02, 22.07.04 , anything included as part of Household Waste (22.09.00).

1.2.2 Exclusion of Wastes with Other Specified Characteristics

Notwithstanding the specification of permitted waste types under Section 1.2 above, the following waste types in Table 3 shall not be permitted.

Table 3 Excluded Wastes of Specified Form and Type

Waste Form	Type
Solid	Dry Wastes (Special) Wet Wastes (Special)
Powders	Special
Sludges	Special
Liquid Wastes	Non-Special Special
Other	Any waste containing more than 10% Calcium Sulphate by volume, including all Calcium Sulphate filter cake wastes. Any drummed wastes

1.3 Hours of Operation

The permitted hours of operation and waste acceptance at the landfill are between:

07.30 - 18.00 hours Monday - Friday

07.30 - 16.00 hours Saturday. (07:30 – 18:00 hours Saturday where, in the previous week, there has been a Local Authority Holiday.)

08:00 – 13:00 hours Sunday, for the receipt of civic amenity site wastes only.

07.30 – 18.00 hours on a Sunday, where, in the previous week, there has been a two day Local Authority Holiday, for the receipt of household collections and civic amenity sites wastes only.

The Company will not operate any plant or machinery associated with the delivery or placement of waste materials outside the hours stated above, unless in the case of emergency.

In the winter months, lighting will be provided for early morning and late afternoon activities, if site personnel deem this necessary.

The operation of environmental control systems such as landfill gas extraction will proceed on a continuous basis. Should emergency maintenance be required this procedure might also necessitate working outside of the hours noted above.

1.4 Staffing and Understanding of requirements of licensing conditions and Working Plan

This section outlines the Management Structure within Amgen Rhondda Ltd. A summary of the structure is given in Table 4.

1.4.1 On Site Operational Staff

The following staff will be employed on site to operate the landfill facility:

- Landfill Manager (in his / her absence a nominated deputy)
- Site Supervisor
- Weighbridge Operator
- Site Operative - Labourer
- Banksman, (when required)
- Machine Operators (typically 3 No, including the Site Supervisor.)

A minimum of two operatives will be present at all times during operational hours. These individuals will be adequately trained to operate the weighbridge and receive waste at the working face.

- a) Waste acceptance and control procedures
- b) Operational controls and environmental monitoring
- c) Maintenance
- d) Record keeping
- e) Emergency action plans
- f) Notifications to the agency

A copy of the site licence and working plan will be kept available on site for all staff carrying out work under the requirements of the licence.

1.4.2 Site Management

At all times the site will be supervised by technically competent management in accordance with Waste Management Licensing Regulations 1994. A summary of staff certification is given in Table 4 and a copy of the relevant WAMITAB certificates in (Volume 2 Appendix 5).

Table 4: COTC Holders

Title	WAMITAB COTC
Managing Director	LS4/TMB4
Operations Manager	LB4

1.5 Changes in Technically Competent Persons

Any changes in the technically competent management of the site shall be forwarded to the Agency within 5 working days in writing.

1.6 Communication

Company Management is issued with mobile telephones and can be contacted in the event of an emergency.

In the case of emergencies during operating hours, the on site Site Manager should be contacted initially and failing that a cascade system is in operation. The first responsible person contacted will co-ordinate the Company's emergency response.

1.8 Emergency Action Plan

The Health and Safety Management System operated by Amgen Rhondda Ltd. requires that the company prepares an Emergency Action Plan for the site, attempting to cover any likely emergency situations which may occur. A copy of the Emergency Plan is given in Appendix 5.