



PERMIT

BRECKNOCK BOROUGH COUNCIL

**COPY**

ENVIRONMENTAL PROTECTION ACT 1990



OUTGOING

LICENCE TO DISPOSE OF WASTE

SITE LICENCE NO. BRE/50/2.94

SHEET 1 of 22

The BRECKNOCK BOROUGH COUNCIL hereinafter called the "DISPOSAL AUTHORITY" in pursuance of the powers conferred on them by the Environmental Protection Act 1990, hereby licence :

MR. J.G. POWELL  
2 TAI NORTH  
PENNORTH  
BRECON  
POWYS  
LD3 7EJ

herein after called the "licence holder" to operate a Landfill Facility (herein after called the "facility") on land at


CWRT Y PLYFFIN, LLANWERN, BRECON - NATIONAL GRID. REFERENCE  
309500, 232000

which is edged in red on the drawings attached to this licence, being land occupied by the licence holder.

This licence is granted subject to the conditions set out in the schedules attached hereto.

Dated this 28th day of July, 1995.

Signed:

  
Acting Borough Environmental Health and  
Housing Officer

\* THE LICENCE HOLDERS ATTENTION IS DRAWN TO THE NOTES OVERLEAF\*

NOTES

These notes are for general guidance only and they do not constitute an authoritative statement of the law. In particular, the licence holder's attention is drawn to Paragraph 1, where primary relevant legislation only is described. The licence holder should therefore satisfy himself that he is conversant with all legislation which may affect his operation of the facility. If there are any doubts, expert legal opinion should be sought.

1. This licence relates only to the requirements of the Environmental Protection Act 1990 for the deposit, keeping, treating and disposal of waste subject to the conditions set out in the Schedules and does not constitute a consent required by other legislation. In particular it is the responsibility of the licence holder to comply with any requirements of the ENVIRONMENTAL PROTECTION ACT 1990, WATER RESOURCES ACT 1991, HEALTH AND SAFETY AT WORK ETC., ACT 1974, the RADIOACTIVE SUBSTANCES ACT 1993, the TOWN AND COUNTRY PLANNING ACTS, BUILDING REGULATIONS, and ALL OTHER RELEVANT WATER PROTECTION AND PUBLIC HEALTH legislation including the provisions of the ENVIRONMENTAL PROTECTION ACT 1990 currently in force.

All discharges to watercourses have to meet the requirements of the National Rivers Authority and the Water Company. Any diversion or other changes will also require National Rivers Authority approval.

All discharges to sewers have to meet the requirements of the water company. Any diversion or other changes will also require the water company's approval.

2. If the licence holder ceases to occupy the land specified above, then he may transfer the licence to the new occupier after giving notice to the Waste Regulation Authority who has the right to decline to accept the new licence holder.
3. If the licence holder wishes to cancel this licence, he must return it to the Waste Regulation Authority together with a notice stating that he no longer requires the licence. Cancellation of the licence will not affect any outstanding liability of the licence holder under the conditions of the licence.
4. The carriage of controlled waste to and from licensed facilities should only be undertaken by carriers authorised under the provisions of the Control of Pollution (Amendment) Act 1989 and in compliance with Section 34 of the Environmental Protection Act 1990.

5. Compliance with the Conditions of this licence are obligatory to ensure that operations do not cause pollution of the environment, or harm to human health, or would be seriously detrimental to the amenities of the locality affected.

6. Notices of Appeal

[Regulation 6 : The Waste Management Licensing Regulations 1994]

A person who wishes to appeal to the Secretary of State under Section 43 of the Environmental Protection Act 1990 shall do so by notice in writing to :

The Secretary of State for Wales  
The Welsh Office  
Cathays Park  
Cardiff

An appeal must be lodged with the Secretary of State within six months of the date of the issue of this licence, any modification, suspension or revocation, or at any time that the Secretary of State may allow.

The Notice of Appeal shall be accompanied by :-

- a. a statement of the grounds of appeal;
- b. where the appeal relates to an application for a Waste Management Licence or for the modification, surrender or transfer of a Waste Management Licence, a copy of the appellant's application and any supporting documents;
- c. where the appeal relates to an existing Waste Management Licence [including a Waste Management Licence which has been suspended or revoked], a copy of that Waste Management Licence;
- d. a copy of any correspondence relevant to the appeal;
- e. a copy of any other document relevant to the appeal including, in particular, any relevant consent, determination, notice, planning permission, established use certificate or certificate of lawful use or development; and
- f. a statement indicating whether the appellant wishes the appeal to be in the form of a hearing or to be determined on the basis of written representations.

The appellant shall serve a copy of this notice of appeal on the Waste Regulation Authority together with copies of the documents mentioned in Sections a) to f) above.

If the appellant wishes to withdraw an appeal, he shall do so by notifying the Secretary of State in writing and shall send a copy of that notification to the Waste Regulation Authority.

7. Time limit for making an appeal

[Section 7 : The Waste Management Licensing Regulations 1994]

1. Subject to paragraph (2) below, notice of appeal shall be given in the case of an appeal under Section 43 of the 1990 Act, before the expiry of the period of 6 months beginning with -
  - i. the date of the decision which is the subject of the appeal; or
  - ii. the date on which the Waste Regulation Authority is deemed by Section 36(9), 37(6), 39(10) or 40(6) of the 1990 Act to have rejected the application.
2. The Secretary of State may in relation to an appeal under Section 43 of the 1990 Act at any time allow notice of appeal to be given after the expiry of the period mentioned in paragraph (1) above.

CONTRAVENTION OF LICENCE CONDITIONS

Your attention is drawn to the provisions of Sections 33, 38, 39, 40, 42 and 59 of the Environmental Protection Act 1990. A brief resume is included below.

Section 33

Prohibits under penalty, the deposit of waste, or the use of plant and equipment, otherwise than in accordance with the terms of the licence. This Section applies to all the conditions contained herein, including any which may be the subject of appeal to the Secretary of State under Section 43 of the Act.

Any deposit which takes place without compliance with all the licence conditions may lead to prosecution under this Section.

Section 38

Should the licence holder cease to be a "fit and proper person" by reason of him being convicted of a relevant offence, or the management of activities has ceased to be in the hands of technically competent management, or the continuation of activities may cause pollution of the environment, harm to human health or serious detriment to the amenities of the locality, this may lead to revocation of the licence.



The WRA also has powers to suspend the licence if the management of the site has ceased to be in the hands of technically competent management, or serious pollution of the environment or serious harm to human health is likely or has already occurred as a result of activities at the site.

Section 39

A licence holder may only surrender a licence with the written agreement of the WRA. An application, enclosing the appropriate fee, to surrender must contain such information as the WRA may require in order to demonstrate that the site is unlikely to cause pollution of the environment or harm to human health.

Section 40

Should the licence holder wish to transfer to another person, i.e. the transferee, a joint application shall be made, enclosing the appropriate fee, to the WRA. A licence may only be transferred to a "fit and proper" person as defined by Section 74 of the Environmental Protection Act and, therefore, the WRA will be required to assess the status of the transferee by information contained within the application.

Section 42

Non-compliance with any licence condition may lead to revocation of this licence.

Section 59

The licensing authority is empowered to require the removal of any controlled waste deposited in circumstances where any of the conditions contained in this licence are not being complied with.

Penalties under Section 33

A person who contravenes section 33, subsection[1] shall, subject to subsection [4], be guilty of an offence, and liable, upon summary conviction, to imprisonment for a term not exceeding six months or a fine of an amount no exceeding £20,000, or both, or on conviction on indictment, to imprisonment for a term not exceeding two years or a fine or both.

**SCHEDULE "A"**  
**DEFINITIONS**

1. In this licence, an "emergency" is defined as a case where a person has reasonable cause to believe that circumstances exist which are likely to give rise to pollution of the environment, or harm to human health, or would be seriously detrimental to the amenities of the locality affected.
- 2\*. In this licence, liquids which are "flammable", "highly flammable" or "extremely flammable" shall have the same meaning as Schedule 1, Part 1 of the Chemicals [Hazard Information and Packaging] Regulations 1993.
- 3\*. The gas venting system shall be deemed to have failed if levels of methane and carbon dioxide exceed 1.0% and 1.5% by volume respectively at any point beyond the boundary of the fill material.
4. "Technically competent management" shall for the purposes of this licence, mean a person or persons who through training and/or qualification is/are able to identify the nature of wastes arriving at the facility and carry out operations at the facility in accordance with recommended practices. Such a person or persons shall be in possession of :-
  - a. a Certificate of Technical Competence [COTC]
  - b. a Provisional Certificate of Technical Competence, [pCOTC]or
  - c. a Certificate of Qualifying Experience [CQE] for managing operations in accordance with Regulation 4 of the Waste Management Licensing Regulations 1994 as issued by the Waste Management Industry Training and Advisory Board.or
  - d. on the 10th August 1994 is 55 years of age or over, and in the 10 years ending on that date he has had at least 5 years experience as the manager of a facility at the equivalent level mentioned above. This competence shall last only until 10 August 2004or
  - e. is deemed competent by virtue of section 77(2) of the Environmental Protection Act 1990 and has been notified in writing by the Waste Regulation Authority.
5. In this licence, "liquid" and "solid" have their ordinary everyday meanings.

6. In this licence, "sludge" means an intimate mixture of solid and liquid.
7. Notwithstanding the above, words and phrases in this licence shall have the meaning ascribed to them by the Environmental Protection Act 1990 and its associated regulations.
8. In this licence, an Authorised Officer is an officer authorised by the Waste Regulation Authority for the purposes of the Environmental Protection Act 1990.
9. In this licence, the "water company" means the sewerage undertaker for the area, as defined by the Water Industry Act 1991.
10. In this licence, "operation" is defined as the receipt, handling, removal or deposit of controlled waste.
11. Any reference in the Working Plan to the Waste Disposal Authority shall also be taken to refer to the Waste Regulation Authority.

NAME OF FACILITY

CWRT Y PLYFFIN LANDFILL SITE

ADDRESS

CWRT Y PLYFFIN  
LLANWERN  
BRECON

NATIONAL GRID REFERENCE - 309500 232000

SCHEDULE "B" - TYPES OF WASTE

Types of waste materials accepted at the facility and the maximum quantities accepted per day shall consist only of the solid wastes as detailed in Appendix 1 and Appendix 2 hereto.

THE MAXIMUM QUANTITY OF WASTE DISPOSED OF AT THE FACILITY SHALL NOT EXCEED 12,000 TONNES PER ANNUM.

## Appendix 1

## Tonnes per Day

Solid or granular dry materials free from any noxious, poisonous or polluting substance, which do not decompose or for which the environmental impact of decomposition is less than, or comparable with, that of topsoil and is virtually insoluble in water.

|                                          |               |
|------------------------------------------|---------------|
| Topsoil                                  | )             |
| Subsoil                                  | )             |
| Brickwork                                | )             |
| Stone                                    | )Total amount |
| Concrete                                 | )of waste     |
| Clay                                     | )permitted    |
| Sand                                     | )per day is   |
| Silica (Excluding finely powdered waste) | )36 Tonnes.   |
| Glass                                    | )             |

\* The permitted wastes detailed in Appendix 1 shall account for no less than 95% of the total amount of waste deposited at the site.

PERMITTED WASTESAppendix 2Tonnes per Day

Solid granular or broken dry materials,  
free from any noxious, poisonous or  
polluting substances, which may decompose  
slowly and are only slightly soluble in  
water.

|                                     |               |
|-------------------------------------|---------------|
| Wood and Wood products              | )             |
| Paper and Cardboard                 | )             |
| Plastics as finished products or    | )             |
| Manufacturing scrap only            | )             |
| Natural and manmade fabrics (cloth) | )             |
| Plasterboard (in small quantities)  | )             |
| Cork                                | )             |
| Ash (excluding PFA and Vanadium     | )             |
| Contaminated ash)                   | )             |
|                                     | )Total amount |
|                                     | )of waste     |
|                                     | )permitted    |
|                                     | )per day is   |
|                                     | )36 Tonnes.   |
|                                     | )             |

- \* The permitted wastes detailed in Appendix 2 shall account for no more than 5% of the total amount of waste deposited at the site.

EXCLUSIONS

Notwithstanding the generality of the types of waste specified in this Schedule the following wastes shall be specifically excluded from delivery to the facility without the prior written approval of the Waste Disposal Authority.

- (a) Controlled waste being defined as "special waste" in the Control of Pollution (Special Waste) Regulations 1980 and any subsequent amendments, except those listed above.
- (b) Substances within the Control of Radioactive Substances Act 1960 and subsequent amendments.
- (c) Percussives and explosives and other substances with similar characteristics, excepting where such wastes are in such a form or state where the percussive or explosive properties are and will remain ineffective;
- (d) Any waste containing substances listed in the Highly Flammable Liquids and Liquified Petroleum Gases Regulations 1972.
- (e) Any substance listed by the United Kingdom Government under the provisions of the European Community Directive on Pollution Caused by Certain Dangerous Substances Discharged to the Aquatic Environment (76/464/EC) and listed in Annex A of the Ministerial Declaration on the Second International Conference on the Protection of the North Sea 1987.



SCHEDULE "C" - GENERAL CONDITIONS

- C1.    a.    The statement of intended methods of operation and drawings contained within the document entitled Working Plan and Working Plan amendments submitted as part of the application for this licence shall be herein after referred to as the working plan.
- b.    Prior to any operations taking place under the terms of this licence the working plan shall have been agreed in writing by the Disposal Authority. The licence holder shall obtain written agreement from the Disposal Authority for any proposed change in the actual conduct of the operations from the proposals agreed in the working plan, as altered by any previous change agreed by the Disposal Authority, before such change is implemented.
- c.    Any reference in this licence to the working plan shall include a reference to any modification to the statement or the drawing which have been agreed in writing by the Disposal Authority as appropriate.
- d.    Subject to the terms and conditions of this licence, the site shall be operated in accordance with the working plan.
- C2.    A copy of any notice or instruction including discharge consents received in respect of the facility from any authority, other than the Disposal Authority, which in any way relates to the use of the facility, shall be given to the Disposal Authority within three working days of the receipt of such notice or instructions.

SCHEDULE "D" - SITE PREPARATION WORKS

- D1. The site shall be prepared to allow landfilling in cells. The cell size shall be based upon a water balance calculation as detailed in the working plan. Any recalculation of the water balance calculation shall be regarded as a change to the working plan and treated accordingly.
- D2. Any cells developed on land where waste material has not previously been deposited shall be lined in accordance with the details contained in the working plan. The liner shall be installed in accordance with the specification and procedures contained in the working plan.
- D3. Prior to the installation of any liner in any cell, the base and side walls of the cell shall be engineered using suitable materials in order to provide a sub base layer, so that the integrity and performance of the liner is not compromised.
- D4. The base and sides of any lined cell shall be lined using naturally occurring uncontaminated clay. The liner shall have a minimum thickness of 1m of clay and shall have an enplaced permeability of  $10^{-8}$  cm/s, and shall be installed in accordance with the provisions of the working plan.
- D5. Subsequent to the installation of any liner and prior to the deposit of waste the liner shall be protected so as to protect its integrity and performance.
- D6. A system shall be provided and maintained in the lined cells in accordance with the specifications contained in the working plan for the collection and removal of leachate from the facility.
- D7. All leachate shall be disposed of by means of removal by tanker to a suitable disposal facility. The consent of the Waste Disposal Authority shall be obtained in writing prior to any leachate being applied to agricultural land.
- D8. Each lined cell shall be developed with a fall to a chamber installed to facilitate the monitoring and removal of leachate. The chamber shall extend from the base of the site to the surface and shall be emplaced so as not to affect the integrity and performance of the liner. The construction and method of emplacement of the chamber shall be in accordance with the working plan.

- D9. All preparatory engineering works prior to the commencement of landfilling in each phase including the selection, testing and emplacement of subgrade materials, angles of batter, external and internal liner drainage, specifications, procedures and testing for the emplacement of any liner shall be in accordance with a programme of Quality Assurance as detailed in the working plan.

All off site testing shall be undertaken by an independent NAMAS accredited laboratory or other suitable laboratory as agreed with the Disposal Authority. Results in writing of all testing should be sent directly as they become available to the Disposal Authority.

- D10. The compaction, strength and permeability of the liner shall be checked by an independent chartered specialist. The results of tests carried out together with a statement confirming that the specifications contained in the working plan have been achieved or details of any corrective works and retests carried out shall be forwarded to the Disposal Authority as soon as possible.
- D11. Should the Disposal Authority or its nominated agents wish to undertake testing of any liner system to check its specification and performance, such requests shall not after prior discussion with the licence holder be refused.
- D12. In accordance with the details contained in the working plan a drainage system shall be designed, constructed and maintained to prevent surface water from surrounding land including restored areas, from entering the operational area, so as to avoid the contamination of any surface water.
- D13. A drainage system shall be provided to the unlined cells in accordance with the working plan in order to remove water from the operational areas of the site.
- D14. Permanent and Temporary site roads shall be designed, constructed and maintained in accordance with the working plan so that they are adequate for the traffic usage of the site.
- D15. A permanent internal reception/amenity area shall be designed, constructed and maintained in accordance with the working plan. Empty skips shall be stored only in this area.

- D15. A permanent internal reception/amenity area shall be designed, constructed and maintained in accordance with the working plan. Empty skips shall be stored only in this area.
- D16. Gates, walls and fencing shall be provided at the facility and maintained at all times in accordance with the working plan. Site gates shall be locked outside operating hours and at any time the site is left unattended in order to prevent as far as practicable unauthorised access to the site. Appropriate warning signs shall be provided along the perimeter of the site.
- D17. An identification board of durable material and finish shall be displayed at the entrance to the facility in accordance with the working plan. This shall give the name of the facility, the name, address and telephone number of the Operator and of the Disposal Authority, the hours of operation and the telephone numbers of personnel to contact in the case of an emergency.
- D18. Provisions shall be made to deal with waste which does not conform to Schedule B delivered to or left at the facility in accordance with the working plan. Such waste shall be removed from the facility as soon as practicable and in any case within such times as agreed with the waste Disposal Authority, and taken to a suitable alternative site for disposal.
- D19. Suitable shaker bars shall be provided between the reception area and the entrance to the site in accordance with the working plan to ensure that no mud, debris or other material is deposited on any roadway by vehicles using the facility. Pressure water jets shall be available should wheel cleaning be required.
- D20. Springs and issues within the facility shall be intercepted and conveyed to the boundary of the facility as located in the working plan so as to avoid any contamination of the spring or issue with any leachate.
- D21. Any watercourse or land drains shall be prevented from entering the site and shall be diverted around the facility in accordance with the working plan.
- D22. The storage of liquids which may be polluting shall not be permitted on site.
- D23. In accordance with the details contained in the working plan a site office shall be provided and maintained at the facility.

SCHEDULE "E" - OPERATION OF SITE

- E1. The types and quantities of waste accepted shall consist of those specified in Schedule "B" of this licence.

Wastes shall be delivered to and removed from the facility during the following hours :-

|                       |                      |
|-----------------------|----------------------|
| Monday to Friday      | 08.00 to 18.00 hours |
| Saturday              | 08.00 to 13.00 hours |
| Sundays/Bank Holidays | Closed               |

Except in cases of emergency, no delivery or removal of wastes or related operations shall take place outside these hours without the prior written approval of the Disposal Authority.

- E2. Provisions shall be made in accordance with the working plan to deal with waste which does not conform to Schedule B delivered to or left at the facility. Such waste shall be removed from the facility as soon as practically possible and in any case within fourteen days, and taken to a suitable alternative site for disposal.
- E3. The first two metres of waste deposited onto any lined area of the site shall be deposited in a manner and consist only of materials which shall not penetrate the protective layer and affect the integrity and performance of the liner. Subsequent layers of waste shall be deposited in a manner and consist of materials that shall not affect the integrity and performance of the liner laid on side walls.
- E4. The phasing and direction of landfilling shall be carried out as detailed in the working plan and each phase shall be completed before landfilling is commenced in each subsequent phase.
- E5. No deposit of waste or other operation shall take place during the hours of darkness unless suitable lighting has been provided. Full details of any proposed lighting shall be agreed with the Disposal Authority prior to installation. The hours of darkness are those covered by statutory lighting up times published by the Science and Engineering Research Council.
- E6. During all operational and maintenance periods the facility shall be manned by a competent person who having regard to the information supplied with the waste materials is capable of ascertaining that only waste permitted by the licence is deposited on site.

As far as practicable the nature of the waste shall be ascertained by site personnel prior to deposit to ensure that it is acceptable for disposal.

- E7. Wastes shall be compacted and formed into a layer as soon as possible after deposit and not later than at the end of the week in which it was deposited.
- E8. The layers of waste shall be formed by using suitable compaction equipment with a blade or some other appropriate levelling device. The waste shall either :-
- i. be deposited on the surface of the site behind the face and partially compacted by a tractor or other compacting machine before being pushed over the face or it shall :
  - ii. be deposited on the ground forming the base of the operational area or on a previous layer in front of the face and shall be formed into a compacted layer by being pushed upwards and driven over by a tractor or other compacting machine.
- E9. The depth of any layer of waste shall not after initial compaction exceed 2.0 metres.
- E10. Working flanks and faces shall be compacted to form gradients not steeper than 1:3. The surface flanks and faces containing material detailed in Appendix 2 of Schedule B shall when not in use for longer than 48 hours be covered with suitable non biodegradable, non combustible material to a depth of not less than 15 centimetres.
- E11. All large articles such as furniture crates and hollow containers which are likely to cause voids shall be crushed, broken up or flattened and covered each day by other wastes such that they are not within 1 metre of the surface or 2 metres of the flanks or face.
- E12. Unless previously agreed with the Disposal Authority all long objects, including trees, lamp posts, etc., shall be broken up into lengths not exceeding 2 metres before being backfilled.
- E13. The site shall be progressively filled in accordance with the detail of the working plan with waste deposited in cells to minimise leachate.



- E14. In accordance with the working plan effective measures shall be taken to ensure that windborne materials are contained within the site. Waste which does leave the site shall be retrieved and disposed of before the end of the following day.
- E15. Litter shall not be allowed to accumulate at the facility. Not less than once per seven days any litter which may be lying at the facility to its immediate environs shall be gathered and disposed of in such a way as to prevent pollution of water, danger to public health or to be seriously detrimental to the amenities of the locality.
- E16. All vehicles visiting the site and carrying light wastes shall be adequately covered to prevent any loss of contents by wind or movement of the vehicle.
- E17. No waste materials shall be burnt within the boundaries of the facility. Any fire occurring within the confines of the facilities shall be treated as an emergency and immediate action shall be taken to extinguish in accordance with the provisions of the working plan. All outbreaks of fire shall be reported immediately to the Disposal Authority.
- E18. A diary/log book shall be provided and retained on site. The diary/log book should be available for the licence holder, accredited agent or employees and for authorised Officers of the Disposal Authority to read or record comments pertaining to the activities of the facility.
- E19. A record shall be kept available in an agreed form for inspection for a period of not less than 2 years after the date of deposit detailing the carriers and the types and quantities of waste deposited on site. The records shall be made available to the Disposal Authority upon request.
- E20. Precautions shall be taken in accordance with the working plan to deal effectively with vermin, insects and odours. A written record of the treatment undertaken shall be kept on site for inspection.
- E21. All vehicles visiting the facility shall not exceed a speed of 10 mph.
- E22. Measures shall be taken in accordance with the working plan to prevent the deposit of mud, debris or any other material on the public highway by site traffic.
- E23. Both primary and subsidiary roads shall as necessary in dry weather be sprayed with sufficient clean water to prevent dust occurring, but without creating excessive surface run off, to prevent pollution to water, danger to public health or be seriously detrimental to the amenities of the locality.



- E24. Measures, including proper maintenance and use, shall be undertaken to control the noise of machinery and vehicles operating at the facility, which may be a danger to public health or be seriously detrimental to the amenities of the locality.
- E25. Should there be, in the opinion of the Disposal Authority a problem at the site due to the presence of birds, either on the grounds of public health or serious detriment to the local amenity then measures shall be taken in accordance with the working plan to prevent the attraction and congregation of birds at the site.
- E26. No deposit of waste shall take place within seven (7) metres of the top of the bank of any open water courses on the site unless such water courses have been diverted, culverted or otherwise protected in accordance with the working plan.
- E27. No previously deposited and compacted material shall be removed from the site, moved within the site or otherwise displaced without prior written agreement of the Disposal Authority.
- E28. The final 2 metres of waste shall be deposited in a manner and consist only of materials which shall not penetrate the protective layer and affect the integrity and performance of the site cap.
- E29. The terms of this licence shall be made known to any person who is given responsibility for the management or the control of the facility.
- E30. Should through the system of monitoring, pollution of ground water be detected and attributed to the landfilling of wastes covered by this licence, the licence holder shall within three (3) months or as otherwise agreed with the Disposal Authority, submit to the Disposal Authority a programme of works, or a revised scheme to minimise such pollution.
- E31. Any cessation of operations for a period in excess of 3 months shall be notified to the Disposal Authority. Not less than 14 days notice shall be given to the Disposal Authority of the date on which operations are to recommence in the event of such a cessation.

SCHEDULE "F" - SITE MONITORING

- F1. Monitoring points, as in accordance with the working plan, shall be provided around the perimeter of the site to enable the quality and level of groundwater and surface water to be determined. Groundwater boreholes shall be sunk to at least ten (10) metres below the water table.
- F2. Where possible groundwater monitoring boreholes shall be purged at least 3 well volumes prior to sampling. Monitoring of groundwater shall be undertaken every 3 months by pumped water samples or as otherwise agreed with the Disposal Authority. The methodology for such sampling and analysis shall be in accordance with the working plan.
- F3. The gas venting system and the monitoring boreholes shall be sampled using portable equipment for oxygen and methane taking three repeat readings at each point monthly. Monitoring will be undertaken by personnel who are fully conversant with the equipment used. The monitoring frequency can only be altered with the prior approval of the Disposal Authority.
- F4. A monitoring well shall in accordance with the working plan be provided in each lined cell to enable the quality and level of leachate to be determined. Should sampling and analysis of leachate be necessary the methodology shall be agreed with the Disposal Authority.
- F5. The number and position of all monitoring points shall be in accordance with the working plan or as otherwise agreed with the Disposal Authority and shall be maintained by the licence holder. The location of all monitoring points shall be marked on plans included in the working plan.
- F6. During the operation of the facility surface waters shall be sampled every 3 months for pH, dissolved oxygen, electrical conductivity, ammonical nitrogen, and chlorides, at the sampling points detailed in the working plan. The results of these samples shall be made available to the Disposal Authority upon request.
- F7. Any part of the gas control system that fails to meet the design standards of the working plan shall be repaired or replaced, after consultation and the agreement of the Disposal Authority, without delay.
- F8. Any groundwater, leachate or gas monitoring boreholes that for whatever reason become unsuitable shall be restored or replaced following agreement with the Disposal Authority, within two months of becoming unserviceable. A record shall be kept available for inspection of all such servicing.

- F9. The analysis of samples of groundwater, surface water and leachate shall be carried out by a NAMAS accredited laboratory or other suitable laboratory as agreed with the Disposal Authority.
- F10. Results of all monitoring including groundwater/leachate levels and landfill gas readings and analysis shall as soon as they become available be kept on site and open to inspection. A report detailing the results shall be forwarded to the Disposal Authority within 14 days of the end of each 6 months period of all monitoring and analysis carried out in that period.

SCHEDULE "G" - SITE RESTORATION

- G1. When the final level has been reached in a phase each lined cell shall in accordance with the working plan be capped to prevent :-
- i. the uncontrolled migration of landfill gas into surface soils on the site,
  - ii. the penetration of surface water into waste bearing layers of the site,
  - iii. the egress of leachate from the surface of the site.
- G2. Prior to the installation of the cap a protective layer shall be laid in accordance with the working plan to ensure the integrity and performance of the cap.
- G3. The natural material used to cap the lined cells of the site shall be a minimum of 1m thick and have an enplaced permeability of not greater than  $10^{-7}$  cm/s.
- G4. In areas where planting of hedgerows and copses occurs the cap shall be thickened to such a degree as to prevent substantial intrusion of roots into the engineered parts of that cap.
- G5. The cap shall be emplaced and keyed into the liner no later than six months following the completion of infilling in each cell. Adequate cover shall be provided to minimise the ingress of surface water until such time as the cap has been emplaced.
- G6. Final restoration shall be carried out in accordance with the provisions of the working plan and shall be to the agreed contours. The final surface of the site shall be adequately contoured to allow for settlement and to encourage surface water run off.
- G7. Details of the results of the permeability tests and specifications for emplacing the natural cap to the lined area of the site and shall be provided to the Disposal Authority prior to the commencement of restoration. Details of the tests carried out and the results obtained, together with a statement that the cap meets the specification in Condition G3 shall be provided.

- SITE LOCATION PLAN

