



ROYAL COUNTY OF BERKSHIRE  
NOTICE OF THE GRANT OF A WASTE DISPOSAL LICENCE  
CONTROL OF POLLUTION ACT 1974  
THE COLLECTION & DISPOSAL OF WASTE REGULATIONS 1988

CONTROL OF POLLUTION ACT 1974  
PART 1 (WASTE ON LAND)

DISPOSAL LICENCE No. 54/12/4/319  
HOLDER OF LICENCE: Biffa Waste Services Ltd  
Coronation Road Cressex  
High Wycombe  
Bucks  
HP12 3TZ  
LOCATION OF FACILITY: Stroud Farm, Bray  
NATURE OF FACILITY: Landfill

NOTICE IS HEREBY GIVEN that the Berkshire County Council, the Waste Regulation Authority, has GRANTED a waste disposal licence for the above facility described in the above application subject to the conditions stated on the attached 15 No. of sheets in Appendix A.

The granting of a licence does not absolve the applicant from any requirement under the Health and Safety at Work Act 1974, the Radioactive Substances Act 1960, Control of Pollution (Special Waste) Regulations 1980, planning, building, water protection environmental health legislation, labelling, and general statutory provisions in force in the Administrative Area of the County Council.

Dated the 21<sup>st</sup> Day of September 1993

*DK Allen*  
COUNTY SOLICITOR

A statement of the Applicant's Rights of Appeal under Section 10 of the Control of Pollution Act 1974 is set out overleaf.

NOTIFICATION TO BE SENT TO APPLICANT / LICENCE HOLDER\*  
CONCERNING RIGHTS OF APPEAL UNDER SECTION 10 OF THE  
CONTROL OF POLLUTION ACT 1974

(TO BE INCLUDED IN NOTICES OF DECISIONS)

If an applicant / licence holder is aggrieved by the decision of the Waste Regulation Authority

- \*(a) in refusing to grant a disposal licence
- \*(b) in refusing to modify a disposal licence
- \*(c) in granting a licence subject to conditions
- \*(d) in modifying conditions specified in a disposal licence
- \*(e) in revoking a disposal licence

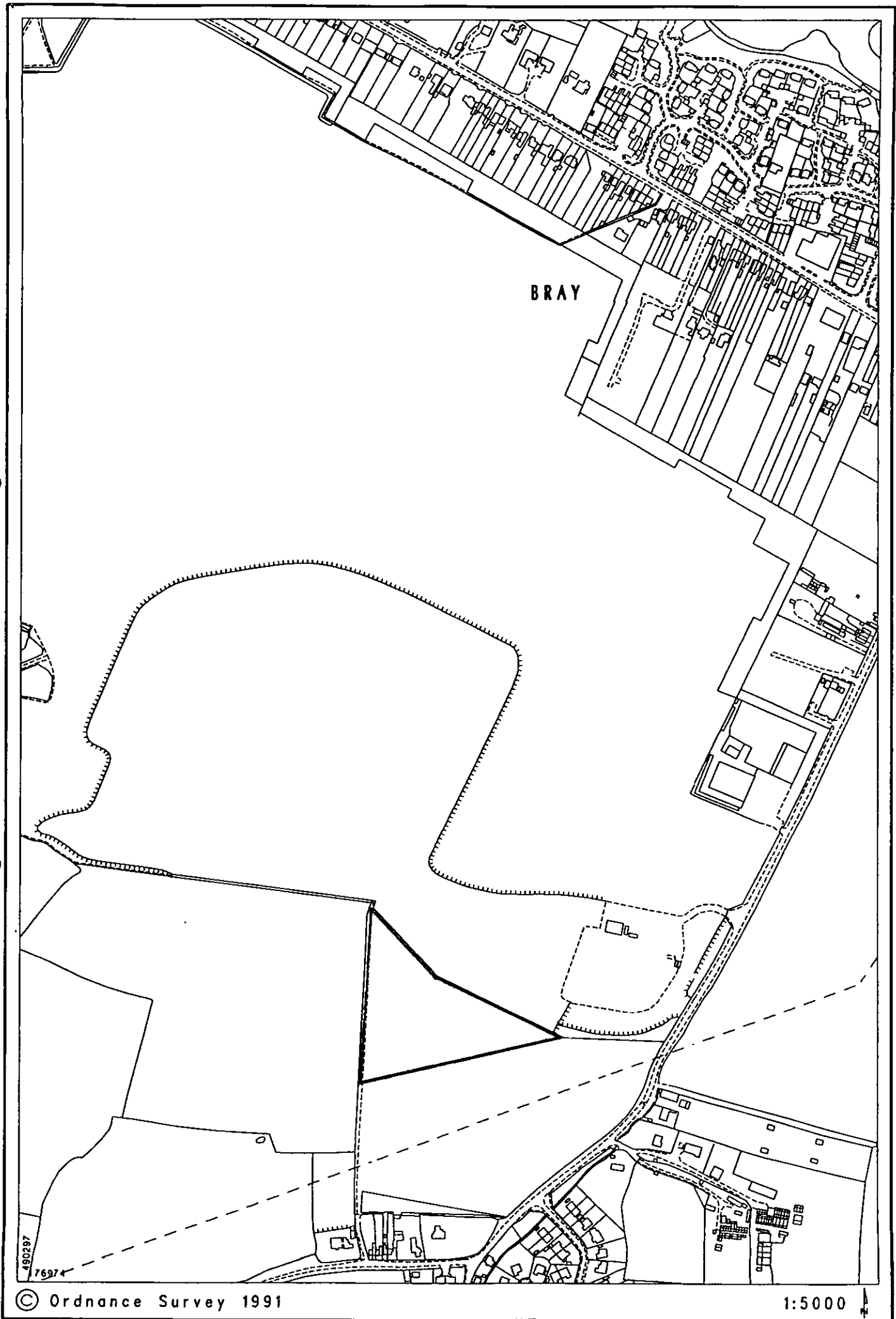
he may appeal to the Secretary of State in accordance with Section 10 of the Control of Pollution Act 1974. Appeals must be notified within 6 months of the date of the notice to the Secretary, Department of the Environment, Waste Management Division, Room A222, Romney House, 43 Marsham Street, London, SW1P 3PY (for sites in England) or to the Secretary, Welsh Office, Water and Environmental Protection Division, Cathays Park, Cardiff, CF1 3NQ (for sites in Wales). The Secretary of State has power to allow a longer period for the giving of notice unless there are special circumstances which excuse the delay in giving notice to an appeal.

FOR DECISIONS UNDER (d) OR (e) ONLY

Where a notice giving this Authority's decision to modify or revoke a disposal licence includes a statement for that purpose of preventing pollution of water or danger to public health Section 10(2) of the Control of Pollution Act should not apply to the decision, the notification of an appeal against the decision will not of itself render the decision ineffective pending determination of the appeal. This decision does/does not\* contain such a statement.

If you consider that such a statement has been unreasonably included in the notice of decision you may apply, under Section 10(3) of the Control of Pollution Act, to the Secretary of State to determine whether the Authority's action was unreasonable or not (the address to write to is given above). If the Secretary of State determines that the Authority acted unreasonably in including such a statement, the Authority's decision will become ineffective while an appeal is pending and you will be entitled to recover compensation from the Authority in respect of any loss you have suffered in consequence of the statement. Any dispute as your entitlement to compensation or its amount shall be determined by arbitration.

\* Delete words which do not apply.



BRAY

490297  
76974

CONDITIONS OF SITE LICENCE

FACILITY : LANDFILL

LOCATION : Stroud Farm, Bray

LICENCE No : 54/12/4/319

Condition 1 WASTE INTAKE

1.1 For the purpose of this licence only Household, Commercial and Industrial Wastes as defined in Section 30 of the Control of Pollution Act 1974, and Schedules 1, 3 and 4 of the Collection and Disposal of Waste Regulations 1988 and Difficult Waste listed as such in Appendix 7c to Waste Management Paper No 26 consisting of the waste materials listed under Types A, B, C and D below, subject to the restrictions of Conditions 1.2 to 1.11 inclusive, shall be deposited at the site.

Type A

Material which either does not decompose or decompose only very slowly. The environmental impact of decomposition is less than, or comparable with, that of topsoil.

- Subsoil
- Topsoil
- Clay, Silt
- Chalk, Gravel, Stone
- Sand (including clean foundry and moulding sand)
- Silica (powdered waste must be double-bagged in polythene)
- Glass, Ceramics
- Brick
- Concrete
- Excavated Road Metal (well weathered)

## Type B

Material which may decompose slowly, but in its deposited form is only slightly soluble in water.

Paper (including oiled and tarred paper)  
Cardboard and Fibreboard  
Wood (including sawdust and sanderdust)  
Wood products (hardboard, chipboard, etc)  
Plasterboard, plaster  
Grass clippings, weeds, trees, bushes  
Cork  
Leather (excluding leather processing wastes)  
Wool, cotton, linen and kapok  
Sisal, hessian, string, rope and any other natural or man-made fibre  
Cement  
Ash, clinker coal and coke (excluding pulverised fuel ash and vanadium contaminated ash)  
Silicate slag (Toxic slags excluded)  
Boiler scale  
Calcium carbonate, calcium sulphate (gypsum), calcium chloride, magnesium carbonate  
Carbon, kieselguhr, diatomaceous earth  
Mica and abrasives  
Pottery, china and enamels  
Rubber and ebonite  
Plastics as finished products or manufacturing scrap only (including thermoplastics and thermosetting plastics)  
Metal (iron, steel, aluminium, brass, copper, tin and zinc) in solid form only i.e. excluding swarf, dusts, particulate scrap, etc  
Shot blasting residues  
Oxides of iron, magnesium, zinc, aluminium and titanium  
Hydroxides of iron and calcium  
Road and footpath sweepings  
Gully emptyings

## Type C

Material which decompose rapidly and may contain soluble matter which could cause pollution if allowed to enter ground or surface water systems. It consists of dry solid materials which do not contain a hazardous quantity or hazardous concentrations of any poisonous, noxious or polluting substance.

Waste food  
Vegetable matter  
Floor sweepings (free from toxic substances)  
Dry sewage sludge  
Domestic waste (or similar waste from trade, commercial or industrial premises)  
Civic Amenity waste  
Supermarket waste

## Type D

Difficult Waste in the form of solids, semi-solids and non-pumpable sludges

Alkalis	Alkali metal oxides and hydroxides, calcium oxide, proprietary alkaline cleaners.	C10
	Ammonia	C20
	Others	C90
Non-toxic Metal Compounds	Iron	E10
	Others	E90
Inorganic Compounds	Oxidising compounds	
	Hypochlorites & chlorites	H31
	Chlorates, perchlorates, bromates, iodates, periodates, persulphates and permanganates	H32
	Others	
	Borates	H92
	Nitrites	H93
	Nitrates	H94
Other Inorganic Materials	Asbestos (Fibrous & "Hard" products)	J10
	Slag including boiler and flue cleanings	J20
	Mineral processing waste	J30
	Silt and dredgings	J40
	Metal scrap	J60
	Others	J90
Polymeric Materials and Precursors	Precursors, monomers, & products of incomplete polymerisation	L10
	Finished products & manufacturing scrap	L20
	Scrap rubber (including tyres)	L30
	Latex, latex & rubber solutions & suspensions	L40
	Synthetic adhesive wastes	L50
	Ion exchange resin wastes	L60
Fuels, Oils and greases	Vegetable and other oils	M40
	Fats, waxes & greases	M60
Fine Chemicals	Pharmaceuticals & cosmetic products	N10
Filter materials, Treatment sludge and contaminated rubbish	Used filter materials	Q10
	e.g. Kieselguhr, carbon, filter cloths	
	Contaminated rubbish (including bags and sacks)	Q20
	Empty used containers	Q30
	Industrial Effluent treatment sludge (excluding all Special Wastes)	Q40
	Contaminated Soils containing substances in concentrations less than shown in List 2 (attached hereto)	Q50

Interceptor wastes, tars, paint, dyes and pigments	Tank cleaning sludge	R10
	Interceptor pit wastes	R20
	Printing Industry wastes (ink manufacture & use)	R30
	Dyestuffs waste	R40
	Distillation residues	R50
	Tar, pitch, bitumen & asphalts	R70
	Paint waste (manufacture & use)	R80
	Miscell. wastes	Tannery & fellmongery waste
	Cellulose wastes (natural & synthetic)	S20
	Waste treated timber	S30
	Soap & detergents	S50
	Other industrial wastes	S90
Animal and food wastes	Animal processing wastes	T10
	Food processing wastes (including starch)	T20
	Glue wastes	T30

Clinical waste subject to the prior approval in writing from the Waste Regulation Authority consisting of :

- a) Soiled surgical dressings, swabs and other contaminated wastes from treatment areas.
- b) Discarded syringes, needles, cartridges and other sharp instruments, packaged in special sharps containers.
- c) Human excretions associated with used but emptied disposal bed-pan liners, urine containers, stoma bags and incontinence pads.
- d) Animal carcasses and tissues.
- e) Animal excretions.
- f) All autoclaved wastes.

NB. All clinical laboratory and post mortem room wastes falling within the province of the Code of Practice for the Prevention of Infection in Clinical Laboratories and Post Mortem Rooms (House Code) (HMSO 1978), and all tissue wastes and related swabs and dressings, limbs, placenta, dialysis waste, infected animal carcasses from research laboratories and wastes from isolation nursing must not be accepted at the site.

Clinical waste accepted at the site must be bagged either using the Health & Safety Commission's colour coding or a colour coding previously approved by the Waste Regulation Authority.

Any waste contained in bags or containers marked "for incineration only" shall not be accepted for disposal.

Other wastes may only be deposited with the prior written agreement of the Waste Regulation Authority, acting in conjunction with the National Rivers Authority, Thames Region. The disposal methods for such wastes shall be specified in writing.

- 1.2 The deposit of any of the waste listed under Types A, B, C and D above is prohibited if such materials (or any of them) contains waste of the nature described in sub-paragraphs (a) to (c) (or any of them) of this paragraph:
- (a) Any liquid waste, other than wet gully waste.
  - (b) Any waste with a flash point below 40° C.
  - (c) Any waste which in itself or in conjunction with any other material already deposited is likely to give rise to danger by fire or explosion or by the release of dangerous fumes or gases.
- 1.3 Wet gully emptyings shall be deposited within areas of the site previously agreed with the Waste Regulation Authority.
- 1.4 The weekly quantity of wet gully emptyings deposited at the site shall not exceed 5% by volume of the weekly quantity of other waste deposited unless previously agreed in writing to the Waste Regulation Authority.
- 1.5 Pumpable sludges shall only be deposited with the prior written approval of the Waste Regulation Authority. The disposal methods for such wastes shall be specified in writing.
- 1.6 With the exception of asbestos, wastes shall not be accepted for disposal in sealed drums without the prior approval of the Waste Regulation Authority.
- 1.7 Not more than 600 cubic metres of fibrous asbestos waste shall be deposited in any one month.
- 1.8 The acceptance of contaminated soils containing substances in concentrations greater than those shown in List 2 shall be subject to the prior written agreement of the Waste Regulation Authority, when the quantities to be deposited, disposal areas and disposal methods shall be specified.
- 1.9 A site plan showing the location of deposits of Special Waste in accordance with Regulation 14 of the Control of Pollution (Special Waste) Regulations 1980 shall be kept in the site office at all times.
- 1.10 The daily quantity of difficult waste which is deposited within any area of the site shall not exceed 5% by volume or 15% by weight of the previous months average daily quantity of other waste deposited in that area of the site unless previously agreed in writing with the Waste Regulation Authority.
- 1.11 The daily quantity of any individual group or sub-group of Difficult waste listed in Condition 1.1 which is deposited within any area of the site shall not exceed 1% by volume or 3% by weight of the previous months average daily quantity of other waste deposited in that area of the site unless previously agreed in writing with the Waste Regulation Authority.

## CONDITION 2 WORKING PLAN

- 2.1 The site shall be prepared and operated in accordance with the details shown in the Working Plan, which shall be approved by the Waste Regulation Authority prior to the commencement of any site preparation and development work referred to in the licence conditions.
- 2.2 The Working Plan shall contain:
  - i) Drawings detailing the engineering development of the site, the infrastructure to be provided, the site layout and phasing of operations, the location of monitoring boreholes and the control systems for leachate and landfill gas; and
  - ii) A description of the site preparation works, the operation of the site and the management and control of landfill gas, leachate and groundwater.
- 2.3 Proposed changes to the Working Plan shall be approved in writing by the Waste Regulation Authority and the date for implementation of the changes shall be specified.
- 2.4 The Working Plan shall be updated to show each approved change. Two copies of each revision shall be forwarded to the Waste Regulation Authority.
- 2.5 A plan showing details of the progress of landfill operations on the first day of October during each year of the life of the site shall be forwarded to the Waste Regulation Authority within three weeks of the above date.

## Condition 3 SITE PREPARATION AND DEVELOPMENT WORKS

- 3.1 The existing lockable security gates and fencing shall be retained and maintained as detailed in the Working Plan. All reasonable precautions shall be taken to prevent unauthorised access to the site.
- 3.2 The existing approved road surface between the site entrance and site office and wheel cleaner shall be retained and maintained in a good condition to prevent the accumulation of mud or water.
- 3.3 No deposit of waste shall take place until a mechanical wheel cleaning facility has been provided in the position shown in the Working Plan. The wheel cleaner shall be maintained in working order.
- 3.4 No deposit of waste shall take place until a site control office equipped with a radio or telephone link has been provided in the position shown in the Working Plan.

- 3.5 No deposit of waste shall take place until a site identification board of dimensions approved by the Waste Regulation Authority is displayed at the site entrance. It shall be constructed of durable material and finish and state :-
- a) The name of the site.
  - b) The name, telephone number and address of the site operator.
  - c) The name, telephone number and address of the licence holder.
  - d) The name, telephone number and address of the Waste Regulation Authority.
  - e) The times of opening and closing of the facility.
  - f) Emergency telephone number(s).
- 3.6 No deposit of waste shall take place until tanks used for the storage of fuel oil have been situated on an impermeable base and surrounded by a bund wall. The capacity of the bund shall not be less than 110% of the volume of the tanks. All draw and fill pipes shall be within the curtilage of the bund. All tanks shall be clearly labelled to show their contents.
- 3.7 No deposit of waste shall take place until suitable facilities have been provided for storing and maintaining equipment to be used on the site.
- 3.8 No deposit of waste shall take place until subsidiary site roads of hardcore or other suitable material have been constructed from the access road to the current disposal area as detailed in the Working Plan.
- 3.9 No deposit of waste shall take place until a storage area for skips has been formed, banded and screened as shown in the Working Plan.
- 3.10 No deposit of waste shall take place until a bund of subsoil and soil materials excavated from within the site has been constructed around the perimeter of the site as shown in the Working Plan.
- 3.11 No deposit of waste shall take place other than during daylight hours unless suitable lighting is provided as specified in the Working Plan.
- 3.12 No deposit of waste shall take place until permanently lined boreholes have been established in the positions agreed with the Waste Regulation Authority and shown in the Working Plan to monitor groundwater and landfill gas. Groundwater monitoring boreholes shall be constructed to monitor gravel, Reading Beds and chalk groundwater around the site and have a minimum finished internal diameter of 100 mm. Gas monitoring boreholes shall be drilled to a level equivalent to the lowest part of the landfill and have a minimum internal diameter 19 mm lining installed, sealed from the atmosphere, and fitted with valves.
- 3.13 No deposit of waste shall take place in any area of the site until that area has been engineered in accordance with the scheme detailed in the Working Plan, to minimise the generation and egress of leachate from the site. The scheme of working for all site engineering works shall include details of the preparation and installation of the base and sides of the sealed areas and capping together with a Schedule of all tests to be carried out and details of the quality control programme to be operated. A competent engineer shall be employed by the licensee to provide constant supervision during all engineering works and testing.

3.14 No deposit of waste shall take place in any area of the site until the base and sides of that phase has been prepared as follows :

- a) The perimeter bunds shall have a minimum crest width of 2 metres and shall be designed and constructed to provide a batter which will remain stable both during and after the operational life of the landfill.
- b) The perimeter bunds shall be keyed into firm or stiff in-situ clay on the base of the site, for a depth of at least 0.5 metres.
- c) The material forming the perimeter bunds shall be placed in layers and compacted using suitable machinery to achieve a permeability less than  $1 \times 10^{-9}$  m/sec.
- d) The final compacted layer shall be rolled to provide a "tight" face.
- e) During emplacement of the perimeter bunds, dry density, moisture content and plasticity index tests shall be carried out as shown in the Working Plan.
- f) On completion of construction, the perimeter bunds shall be tested for thickness and undisturbed samples taken for determination of permeability as agreed with the Waste Regulation Authority.
- g) Any section of the perimeter bund failing to meet the criteria shown in the Working Plan to satisfy the maximum permeability of  $1 \times 10^{-9}$  m/sec shall be replaced or otherwise remedied to the satisfaction of the Waste Regulation Authority.
- h) The extent and depth of any clay extraction from the base of the site for sealing works shall be agreed with the Waste Regulation Authority prior to any extraction.
- i) Any extraction of clay shall be carried out in a manner designed to prevent disturbance to the confinement of water bearing strata in the Reading Beds. Any such disturbance which may occur in the sealed areas shall be rectified.
- j) The thickness of the clay retained on the base of the sealed areas shall be at least half of the head of water acting on the base of the clay, and shall not be less than 2 metres, having a permeability of less than  $1 \times 10^{-9}$  m/sec.
- k) Existing channels in the base shall be backfilled with low permeability materials and the base levelled and compacted to create a minimum fall of 1% to the leachate drainage well.

3.15 No deposit of waste shall take place in any sealed area until a leachate monitoring and collection well consisting has been installed in each area, to the design and location shown in the Working Plan.

3.16 Leachate monitoring facilities shall be constructed within the sealed area to allow any build up of leachate to be monitored and to facilitate subsequent leachate removal. A minimum of three leachate collection / monitoring points shall be provided to the design and construction specified in the Working Plan.

- 3.17 No deposit of waste shall take place in any sealed area until that area has been prepared in accordance with Conditions 3.14 to 3.16 inclusive. Each major sealed area as shown in the Working Plan shall be sub-divided into operational cells of size calculated, by water balance methods, to ensure that leachate is not generated during infilling.
- 3.18 No deposit of waste shall take place in any sealed cell until approval for infilling in that cell has been obtained from the Waste Regulation Authority following an agreed period of inspection. Any areas of water ingress shall be sealed to the approval of the Waste Regulation Authority.
- 3.19 Each cell shall be dewatered prior to the commencement of infilling and no further dewatering from any cell receiving waste to any watercourse or groundwater shall be permitted without the consent of the National Rivers Authority.
- 3.20 No deposit of waste shall take place in any sealed area of the site until litter screens at least 2 metres high have been erected around the boundaries of the operational area, so that paper and other materials are contained within the operational area.

Condition 4                      SITE OPERATION

- 4.1 Emergency circumstances excepted, of which due report shall be made to the Waste Regulation Authority within 72 hours, the depositing of waste and all other operations on site shall only be carried out between the following hours :

07.00 and 18.00 hours Mondays to Fridays  
07.00 and 13.00 hours Saturdays

and no such operations shall be carried out on Sundays or Public Holidays.

Any working outside these hours shall be previously agreed with the County Planning Authority and notified to the Waste Regulation Authority.

- 4.2 The site shall be manned by at least three operatives at all times when open for the acceptance of waste.
- 4.3 The operatives shall include a site supervisor who shall be responsible for the control of all site operations including the movement of vehicles, depositing and levelling of waste on site.
- 4.4 Machinery and equipment used for waste handling and environmental control as specified in the Working Plan, shall be maintained in good working order.
- 4.5 In the event of breakdown in plant or equipment, repair or replacement shall be made available to ensure that at all times the site is operated to the standards required by the licence conditions. The date and time of any breakdowns shall be recorded in a book kept at the site office. Should repair or replacement of the levelling and compacting machine not be available before the end of the working day on which the breakdown occurs, the site shall cease to accept waste until such compacting machinery is operational.
- 4.6 Waste shall be compacted, levelled, and formed into a layer as soon as possible after deposit and not later than the end of the working day on which the waste is received on site. The depth of the layer shall not after initial compaction exceed two metres.

- 4.7 Waste other than waste containing gully emptyings and any approved difficult waste for which specific deposit procedures apply (see Conditions 4.9 to 4.25 inclusive) shall either :-
- a) be deposited on the surface of the site behind the face and partially compacted by tracked dozer or other compacting machine before being pushed over the face, or
  - b) be deposited on the ground forming the base of the site or in a previous layer in front of the face and shall be formed into a compacted layer by being pushed upwards and driven over by tracked dozer or other compacting machine.

The working face shall have a slope not greater than 1 in 3.

- 4.8 Waste deposited at the site shall be progressively covered with naturally occurring excavated materials within the waste intake so that by the end of the working day all exposed surfaces are so covered. All necessary action shall be taken to ensure that an adequate supply of suitable covering material is maintained.
- 4.9 Asbestos waste delivered in the form of fine dust, loose fibre, swarf, floor sweepings, waste from fixing or stripping insulation materials, broken pieces or offcuts of friable material, empty contaminated bags or sacks shall be double-sealed in plastic sacks (preferably red and labelled "asbestos waste") with an outer bag of 500 gauge. Other bag thickness or materials may be used with the prior written permission of the Waste Regulation Authority.
- 4.10 Asbestos waste may be deposited either:
- a) at the base of the current working face,
  - b) in a hole dug immediately in front of the current working face, or
  - c) in an area set aside for the deposit of asbestos waste. Such areas to be agreed in writing with the Waste Regulation Authority.
- 4.11 Immediately after deposit all asbestos waste with the exception of hard asbestos products shall be covered with a minimum thickness of 300 mm of soil on all exposed surfaces of the deposit to form an effective seal against subsequent dispersal of dust. This cover must not be subsequently removed.
- 4.12 By the end of the working day on which it was deposited, the top and flanks of all asbestos deposits must be covered by at least one metre of asbestos free material.
- 4.13 Machinery or vehicles shall not be driven over the asbestos waste before the cover has been applied.
- 4.14 Asbestos waste shall remain covered with at least one metre of asbestos free material at all times.
- 4.15 Areas containing asbestos waste shall not be re-excavated or in any way disturbed without the prior approval of the Waste Regulation Authority.
- 4.16 Under no circumstances shall asbestos waste be broken up or used for the construction or repair of site roads or other areas.

- 4.17 No deposit of asbestos waste shall be made in the final two metres of fill or within two metres of the flanks of the fill area, before application of the capping layer as specified in Condition 4.42.
- 4.18 Conditions 4.10 and 4.12 to 4.17 inclusive shall also apply to "hard waste" containing bonded asbestos (such as asbestos-cement, jointings, or other asbestos waste having, for example, bitumastic, cement, plastic, resinous or rubber binders).
- 4.19 Any difficult waste approved for disposal under Condition 1.1, particularly deposits of waste consisting wholly or mainly of fish, animal wastes and condemned food, shall be deposited at the base of the working face and immediately covered with other waste material to a depth of at least 1 metre from the surface and 2 metres from the flanks of the operational area immediately following discharge of the load.
- 4.20 Difficult wastes shall remain covered with at least one metre of other waste at all times.
- 4.21 Areas containing difficult wastes shall not be re-excavated or in any way disturbed without the prior approval of the Waste Regulation Authority.
- 4.22 No deposit of difficult waste shall be made in the final two metres of fill before capping.
- 4.23 Drummed wastes approved for disposal shall be sampled, handled and disposed of as specified in the Working Plan.
- 4.24 Any clinical waste approved for disposal under Condition 1.1 shall be deposited in accordance with a written operating procedure approved by the Waste Regulation authority detailing how the waste will be dealt with.
- 4.25 Gully emptyings shall be deposited within specifically prepared drying and stockpiling areas approved by the Waste Regulation Authority and shown in the Working Plan, prior to regular removal for final disposal within the site. Wet gully waste shall not be deposited in positions close to surface water ditches.
- 4.26 Without prejudice to Health and Safety precautions which may be required under the Health and Safety at Work Act 1974, all large articles or hollow containers shall be deposited in front of the face. They shall be crushed, broken up or flattened and covered each day by other waste in such a position that they are not within one metre of the surface, or two metres from the face and flanks.
- Note: Health and Safety precludes crushing, breakage etc. of one-time pressurised containers of inflammable liquids or gases.
- 4.27 Infilling shall be carried out to the phased restoration programme shown in the Working Plan. The concurrent infilling of more than one cell in the sealed area will require the prior written approval of the Waste Regulation Authority.
- 4.28 No waste materials shall be burnt within the curtilage of the site and fires on site shall be regarded as emergencies and immediate action shall be taken to extinguish them.

- 4.29 The security gates and fencing (Condition 3.1) shall be regularly inspected and maintained and any damaged section repaired or replaced without delay or within fourteen days if so required by an authorised officer of the Waste Regulation Authority, to maintain the security of the site at all times when the site is closed.
- 4.30 The site access road (Condition 3.2) shall be inspected daily and maintained free from mud and other debris, and any damage repaired without undue delay or within fourteen days if so requested by an authorised officer of the Waste Regulation Authority.
- 4.31 The wheel cleaning equipment (Condition 3.3) shall be used by all vehicles depositing waste at the site at all times of soft ground conditions. If mud or other debris is nevertheless carried out onto the public highway, it shall be removed with the minimum of delay. The highway immediately outside the site shall be inspected and cleaned as necessary during and at the end of each working day.
- Mud collected in the sump beneath the wheel cleaner and on the aprons to the equipment shall be regularly removed to maintain the efficiency of wheel cleaning at all times.
- 4.32 Subsidiary site roads (Condition 3.8) shall be regularly inspected and maintained to provide a well drained surface and to permit the free passage of vehicles to and from the working area in all weathers, without risk of damage to any part of the vehicles.
- 4.33 All vehicles importing waste to the site shall report to the site control office before discharging their load.
- 4.34 All areas of the site, including completed areas of working shall be maintained in a tidy condition. All scattered and loose waste which may be lying on or about the site or against the litter fencing (Condition 3.19) shall be removed not less frequently than once each week and disposed of in the working area.
- 4.35 Skips shall only be stored within the approved storage area (Condition 3.9).
- 4.36 Emergency or exceptional circumstances excepted, waste accepted for disposal at the site shall not be temporarily stored in skips or other such containers.
- 4.37 All reasonable steps shall be taken to suppress dust emanating from any aspect of operations on the site. In dry weather the site roads shall be sprayed with water to suppress dust except that if the water is obtained from the public supply water mains and the National Rivers Authority rule that a drought exists this requirement shall be suspended for the duration of the drought.
- 4.38 In very windy weather conditions additional measures shall be employed to combat windblown litter and shall include the use of additional machinery, increased cover material and litter picking.
- 4.39 All plant and machinery employed on the site shall be fitted with efficient silencers, maintained to the manufacturers' specifications and to the satisfaction of the Waste Regulation Authority.

- 4.40 The site operator shall be responsible for the control of infestation by insects and vermin and for taking appropriate measures to prevent such infestations occurring. The entire site shall be inspected as often as is necessary and corrective action taken as, where and when required. A record shall be kept at the site of the measures taken.
- 4.41 Material once deposited in the landfill and covered shall not be disturbed except with the consent in writing of the Waste Regulation Authority.
- 4.42 When deposits of waste have been completed in each sealed cell, the waste shall be capped with low permeability materials compacted at moisture contents not less than 2% below or 5% above the plastic limit to a minimum thickness of one metre, using suitable equipment to achieve in-situ permeabilities not exceeding  $1 \times 10^{-9}$  m/sec.
- 4.43 The capping together with a protective layer of subsoil material shall be placed immediately following completion of tipping in each cell, or depending on weather conditions, as agreed with the Waste Regulation Authority.
- 4.44 Should the cap and protective layer fail to be installed in any sealed cell within one month of completion of waste disposal in that cell, or longer with the agreement of the Waste Regulation Authority, further disposal at the site shall cease until the cap and protective layer have been installed.
- 4.45 During emplacement of the cap, bulk density, moisture content and plasticity index tests shall be carried out as agreed with the Waste Regulation Authority.
- 4.46 On completion of construction, the capping in each cell shall be tested for thickness and undisturbed samples taken for determination of permeability as agreed with the Waste Regulation Authority.
- 4.47 Any section of the clay cap failing to meet the maximum permeability of  $1 \times 10^{-9}$  m/sec shall be replaced or otherwise remedied to the satisfaction of the Waste Regulation Authority.
- 4.48 Should the specified low permeability material not be available from the tested and approved source, other materials, including bentonite applications, may only be used following tests to determine representative engineering properties, to a design approved by the Waste Regulation Authority.
- 4.49 A record shall be kept of the types and quantities of waste deposited at the site to a record keeping system approved by the Waste Regulation Authority. Details from the records shall be shown in the form prescribed from time to time by the Waste Regulation Authority, a copy of which shall be transferred to the ownership of the Waste Regulation Authority, without payment at three monthly intervals and at the cessation of operations at the site. The quarterly returns, for each of the three month periods commencing January, April, July and October of each year, shall be submitted to the Waste Regulation Authority within 28 days of the last day of the respective period.

- 4.50 Before completion of operations the site area shall be :-
- a) Finished at levels which can reasonably be expected within 5 years to be generally in accordance with the levels shown on the approved Restoration Plan No 04/92.
  - b) Covered with depths of overburden, subsoil and top soil as specified by the County Planning Authority.
- 4.51 The final levels shall be set out at the commencement of infilling in each phase and shall remain in position at all times during infilling.
- 4.52 A leachate management scheme to include levels relative to Ordnance Datum above which leachate must not rise, together with proposals for the disposal of any leachate abstracted shall be submitted prior to the commencement of infilling.  
The scheme shall include provision for additional monitoring where the leachate level is within 0.2m of the specified maximum permitted level and shall be incorporated into the Working Plan.
- 4.53 A passive system of landfill gas control shall be installed in each sealed cell within the sealed areas to the design and timetable approved by the Waste Regulation Authority, as shown in the Working Plan.
- 4.54 Landfill gas monitoring shall be carried out to the programme specified in the Working Plan within completed areas of infilling and outside the landfill to determine the extent of any landfill gas generation and migration and its concentration.
- 4.55 Landfill gas monitoring boreholes (Condition 3.12) shall be kept maintained and operational and shall be sampled for methane and carbon dioxide at monthly intervals following the installation of the boreholes unless the level of methane gas in any borehole exceeds 0.5% by volume in air when monitoring shall be increased as shown in the Working Plan. Barometric pressure shall be recorded during each monitoring survey. The results of each monitoring survey shall be supplied in writing to the Waste Regulation Authority within fourteen days of each monitoring survey.
- 4.56 In the event that levels of methane exceed 1% by volume in air or carbon dioxide above a previously agreed trigger level, (or such other percentages as shall be recommended by Her Majesty's Inspectorate of Pollution or any Waste Management Paper), in any borehole or monitoring point at the boundary of the site, such remedial gas control measures specified in the Working Plan and as may be deemed necessary by the Waste Regulation Authority shall be carried out to reduce concentrations of methane or carbon dioxide below the above levels.
- 4.57 Emergency procedures for the control of landfill gas and monitoring within buildings and services outside the site shall be agreed with the Waste Regulation Authority within 3 months of the commencement of infilling in the sealed areas and the agreed procedure incorporated in the Working Plan.
- 4.58 Groundwater monitoring boreholes (Condition 3.12) shall be kept maintained and operational. At three monthly intervals after the installation of the boreholes, water samples shall be taken from selected boreholes previously agreed between the Waste Regulation Authority and the Licensee and analysed for biochemical oxygen demand, chemical oxygen demand, ammoniacal nitrogen and chloride. The results of each water quality monitoring shall be supplied in writing to the Waste Regulation Authority as soon as the results are available.

- 4.59 Water quality monitoring shall be subject to a review every two years by the Waste Regulation Authority when the frequency of sampling, tests to be carried out and the need for any additional monitoring boreholes shall be agreed with the Licensee.
- 4.60 Monitoring at the site shall continue until the Waste Regulation Authority is satisfied that there is no likelihood that the landfill presents a safety hazard or risk of environmental pollution.
- 4.61 If, for whatever reason, the site ceases to accept waste materials, any part of the site which remains in an uncompleted condition shall be contoured, capped and covered to the approval of the Waste Regulation Authority.
- 4.62 The licensee shall make known the terms of the site licence to any person who is given responsibility for the management or control of the site, and shall display a copy of the licence conditions at the site control office.