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OXFORDSHIRE COUNTY COUNCIL
LOCAL GOVERNMENT ACT 1972
CONTROL OF POLLUTION ACT 1974

MODIFICATION TO WASTE DISPOSAL LICENCE SUBJECT TO CONDITIONS

Holder of Licence (Name and Address)	Controlled Reclamation (Oxford) Ltd Enslow Bletchington Oxon OX5 3AY
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Date of Application	Authority Modification
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Location of Facility	Gravel Workings at Stanton Harcourt Parcel No.1620 and Part Parcel Nos. 0018 and 6562
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Ordnance Survey Grid Reference	SP 404 054
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Brief Particulars of Proposals	Deposit of Industrial and Commercial Waste Materials.
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Type of Facility	Landfill
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Waste Disposal Licence Number	OCC/64/M/05
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WHEREAS on the 30th May 1985 the OXFORDSHIRE COUNTY COUNCIL as Waste Disposal Authority granted you a Waste Disposal Licence OCC/64 relating to a site at Stanton Harcourt (O S Grid Reference SP 404 054) subject to the conditions set out therein.

NOW THEREFORE, TAKE NOTICE that the Council HEREBY MODIFIES the said conditions by the deletion of conditions 100-503 and any attached schedules and their replacement by the new attached conditions and schedules, AND FURTHER that such modification will take effect on



PERMIT

S. V. Rev

DATED: 23 March 1983

Waste Management Officer



OUTGOING-1

IMPORTANT NOTICE

1. APPEAL PROCEDURE

If the licence holder is aggrieved by the decision of the Waste Disposal Authority in granting the licence subject to conditions he/she may appeal to the Secretary of State in accordance with Section 10 of the Control of Pollution Act, 1974 and Regulation 10 of the Collection and Disposal of Waste Regulations 1988. Appeals must be notified, within six months of the date of issue of this licence, to the Secretary, Department of the Environment, Waste Management Division, 43 Marsham Street, London, SW1 3PY. The Secretary of State has the power to allow a longer period for the giving of notice of an appeal but he will not normally be prepared to exercise this power unless there are special circumstances which excuse the delay in giving notice of an appeal.

2. OBLIGATIONS UNDER OTHER LEGISLATION

The issue of this licence does not affect in any way the licence holder's statutory obligations under other UK and European Community legislation (in particular those set out in the Health and Safety at Work etc., Act, 1974; the Town and Country Planning Act 1971; the Environmental Protection Act 1990; the Radioactive Substances Act, 1960, and legislation covering Water Protection, Environmental Health, Fire and Transport).

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000 GENERAL CONDITIONS

- 001 The activities to which this licence relates shall not be so carried on as to cause pollution of water or danger to public health or to become seriously detrimental to the amenities of the locality affected by the activities.
- 002 The Authority shall be immediately informed if the licence holder has knowledge of any event associated with the site or its operation that might cause pollution of water, danger to public health or serious detriment to the amenities of the locality in which the site is situated.
- 003 All works shall be carried out to the approval of the Authority and in accordance with the best standards of landfill practice prevailing at the time as described in the Waste Management Papers published by the Department of the Environment. Waste shall not be deposited unless the licence conditions are met.

100 THE WASTE

101 Permitted Types and Quantities

The types and quantities of waste to be deposited daily at the site shall not exceed the following:-

- (1) Category A Solid Waste 1000 Tonnes
- (2) Category B Solid Waste 400 Tonnes

Details of Category A and Category B wastes for the purposes of this condition may be found in Appendix 1. Larger quantities of Category A Waste may occasionally be deposited by agreement with the Authority.

and the following quantities of Category D wastes:-

- (3) Scrap Tyres 8 Tonnes
- (4) Waste originating from the former landfill site at Ducklington, Oxon, mainly comprising previously incinerated household refuse. 2500 Tonnes
The average level of contaminants in this waste should not exceed the values shown in the table below:

HEAVY METALS

Arsenic	[3]	Antimony	[50]
Cadmium	[3]	Mercury	[3]
Chromium	[500]	Barium	[1500]
Copper	[750]	Cobalt	[100]
Nickel	[200]	Molybdenum	[20]
Lead	[2000]	Silver	[10]
Zinc	[1500]	Tin	[1000]

all measured as mg/kg of the dry material

102 Excluded Waste

None of the wastes listed in Appendix 2 shall be deposited.

103 Permitted Areas for Disposal

The areas where disposal is currently permitted shall be the areas shown outlined in red on Operational Plan number CR91/2 attached to this document and dated October 1991.

104 Commencement and Cessation of Tipping

The licence holder shall inform the Authority in writing of any of following circumstances;

- (a) Tipping is about to commence or recommence after an interval of six months or more
- (b) Tipping at the site is about to cease for a period of more than one month
- (c) Tipping in any area is completed and the area is ready for restoration.

105 INCINERATED HOUSEHOLD WASTE FROM DUCKLINGTON

- (1) Prior to the deposit of the waste referred to in 101(4) samples of the waste shall be taken at 1,3 and 5 metre depths in different areas of the site at approximately 1 location per 1000 square metres. The samples shall be analysed for each of the heavy metals shown in the table given in 101(4) above. The results of this analysis shall be forwarded to the Authority.
- (2) The waste will only be acceptable for deposit if the analysis performed under 102(1) above complies with condition 101(4).
- (3) The proposed location of the deposit shall be agreed with the Authority in writing.
- (4) No waste deposited under this condition shall be landfilled in the top 2 metres of waste.
- (5) Adequate stockpiles of clean cover material shall be maintained on site to enable the deposited waste under this condition to be covered at the end of each working day.

200 WORKING PLAN

201 Submission of Working Plan

- 201.1 Throughout the life of the site, a Working Plan, prepared and submitted by the licence holder and approved by the Authority, must be in force.
- 201.2 The details set out in the Working Plan should accord with the principles set out in the most recent versions of the following documents published by Her Majesty's Inspectorate of Pollution:-
- (a) Waste Management Paper No. 4:
The Licensing of Waste Facilities;
 - (b) Waste Management Paper No. 26:
The Landfilling of Waste.
- 201.3 The Working Plan shall include :
- (a) A method statement and a set of drawings. These drawings shall describe; the engineering development of the site, measures to control and monitor leachate and landfill gas, measures to control and monitor waste input and composition, restoration details and all other provisions necessary to ensure that the site operates throughout its life to the standards required by the licence conditions.
 - (b) Any drawings or written statements or information received by the Authority in conjunction with, substitution for or in augmentation of any such drawings or statements referred to above.
- 201.4 Notification shall be made in writing to the Authority of any proposed change in the actual conduct of operations from those detailed in the Working Plan, as altered by any previous notified and agreed changes, at least 1 month before the proposed change is to be implemented. Such changes shall not be implemented without the written consent of the Authority.
- 201.5 Subject to the terms and conditions of this licence the holder shall conduct operations in accordance with the Working Plan, as altered by any previously notified and approved changes.
- 201.6 A site drawing, showing the topography of the site at the time it is prepared, and including ground levels on the site (referenced to Newlyn ordnance datum) shall be prepared to a scale of 1:2500 or larger and shall be submitted to the Authority within 3 months of the date of this licence and thereafter at 12 monthly intervals until final restoration of the site is complete.
- 201.7 A formal review of the Working Plan shall be carried out between the licence holder and the Authority annually or sooner if necessary.

300 PREPARATORY WORKS

301 Visual Screening

The site must be screened from public view as far as it is reasonably practicable. Screening embankments shall be provided where necessary and shall conform to the requirements of the Planning Authority.

302 Fencing and Gates

A secure fence of minimum height 2.0 metres, or other approved measures, shall be provided around the full perimeter of the site so that the entry of unauthorised persons or children is prevented.

Security gates constructed so as not to allow unauthorised persons or children to pass through and of minimum height 2.0 metres shall be provided at the entrance to the site.

A detailed specification of the fencing and gates shall be provided in advance for the approval of the Authority. All such fencing and gates shall be provided before commencement of operations on site.

303 Signs

- (a) A site information board constructed of weatherproof and durable materials and finish and in a form and location to be approved by the Authority and the local Planning Authority shall be displayed at the site entrance. The board shall show the following information, which shall be easily readable from the public highway:-
- (1) The name of the facility.
 - (2) Waste disposal licence number.
 - (3) The days and hours when the facility is permitted to be open for the receipt of waste.
 - (4) The name and telephone number of the licence holder and local agent if any.
 - (5) The name, address and telephone number of the Waste Regulation Authority.
 - (6) A telephone number allowing the licence holder to be contacted in an emergency.
- (b) Further signs shall be provided to ensure the safety of persons within the site.

304 Site Services

304.1 Site Office

A site control office shall be provided at the entrance to the site. The office shall be equipped with telephone or other approved communication facilities, electricity or alternative approved lighting and heating arrangements, a supply of drinking water and shall have toilet facilities. The office and any messing facilities shall be maintained in a clean and tidy condition at all times. The area around the office shall be paved.

304.2 Wheel Cleaning Equipment

Prior to the commencement of filling, wheel cleaning equipment shall be provided at a suitable location so that it can be used by all vehicles leaving the site.

305 Site Roads

- (a) The main site exit road shall be constructed of concrete or bituminous paving and shall be properly drained. Other permanent site roads, including the site entrance, the road to the site services and hardstanding areas shall have a uniform surface which will shed surface water and shall be capable of taking loaded commercial vehicles without deformation. Detailed engineering drawings showing the location and form of construction of proposed new roads and hardstanding areas shall be provided to the Authority for approval prior to commencement of construction.
- (b) Other site roads will ensure the independent passage of vehicles without damage to the understructure. They will be reasonably level and free from deep depressions and items obviously liable to damage tyres. Roads leading to any area shall be provided in advance of filling in that area. Adequate stable manoeuvring areas shall be provided in all weather conditions.

306 Permanent marker posts

At 50 metre intervals around the perimeter of the licenced area and so as to be visible from within the operational areas of the site and for the purpose of surveying, fixed and permanent durable marker posts at least one metre high shall be erected. The positions of these shall be permanent throughout the life of the site.

307 Storage Tanks

Any above ground tank used for the storage of polluting liquid including fuel oil shall be sited on an impervious base and surrounded by a suitable liquid tight bund wall. No drainage outlets shall be provided. The bunded area shall be capable of containing 110% of the volume of all the tanks contained and all fill pipes, draw pipes and sight gauges shall be enclosed within its curtilage. The vent pipe shall be directed downwards into the bund. Storage tanks shall be of a type and construction suitable for the liquid they contain and shall be labelled to show their contents and any associated hazards. Rainwater shall not be allowed to accumulate in the bund so that it's capacity is reduced. This condition does not apply to tanks which are an integral part of plant or equipment.

308 Low permeability Linings

- (a) Prior to the deposit of waste in any part of the permitted area as shown on drawing No. June 1985, unless that area is designated for Category A waste only, the landfill base and sides in that part of the landfill shall be lined with low permeability material so as to prevent the escape of leachate and to enable the collection of leachate.
- (b) The permeability of the lining material required in (a) above shall not be greater than 1×10^{-9} metres/sec. when tested in situ. The lining material shall comprise naturally occurring clay placed to an engineering specification and to a thickness of not less than 1.25 metres or an alternative material specified in the approved Working Plan. Any alternative arrangement specified will be subject to approval by the Authority in consultation with the National Rivers Authority. Quarry side linings shall extend to the full height of the final waste layer and shall be designed and constructed to remain stable.
- (c) Before the construction of any lining, sufficient testing shall be carried out to establish the lining material properties. When clay lining material is used the testing will include determination of permeability, moisture content, Atterberg limits, particle size distribution and compaction tests. Testing will be carried out in accordance with British Standard methods and at a laboratory with NAMAS accreditation or BS5750 quality assurance. The licence holder shall submit to the Authority a summary of the results of all testing together with proposals for the engineering specification of the linings and a programme for testing during construction. Individual test results shall be retained during the life of the site.

- (d) Linings shall be placed compacted and tested in accordance with the specification approved by the Authority. The licence holder shall carry out any additional testing reasonably required by the Authority either in situ or at a laboratory. The results of all testing carried out during the construction shall be provided to the Authority
- (e) Details of the specification for the low permeability lining, the method of construction and the programme of testing before and during construction shall be fully described in the Working Plan.
- (f) The Authority shall be notified at least 48 hours before the placement of lining material in any cell. No waste shall be deposited over any lining material until the lining construction has been approved by the Authority.
- (g) Linings constructed with naturally occurring materials shall be protected from loss of moisture or other damage as soon as possible after placement so that significant deterioration does not take place due to weathering.

309 Monitoring Provisions

Prior to the deposit of any waste, landfill gas monitoring points and groundwater monitoring points shall be provided in accordance with Conditions 501 and 502.

310 Leachate Collection

A leachate collection system shall be constructed within the landfill to a design described in the Working Plan which shows drainage layouts, dimensions and levels. Leachate collection sumps shall be provided which enable leachate to be removed from all parts of the landfill. The level of leachate within collection sumps shall be maintained at a level not more than 1.0 metre above the basal lining. A scheme for the treatment and/or disposal of collected leachate shall be incorporated in the Working Plan.

311 Control of Landfill Gas

- (a) A landfill gas management scheme shall be implemented at the site and shall be in accordance with the principles set out in the most recent version of Her Majesty's Inspectorate of Pollution Waste Management Paper No.27 entitled 'The Control of Landfill Gas'.
- (b) The scheme shall be incorporated in the current approved Working Plan.

312 Prevention of Water Ingress

A system of groundwater and surface water drainage shall be provided as necessary to prevent either groundwater or surface water entering the landfill from restored areas or adjacent land.

313 Surface Water Run-Off

Surface water drains or ditches shall be provided around the perimeter of the landfill to prevent water draining onto land outside the licence holders' control. Provision shall be made for the disposal of collected surface water.

314 Inspection of Works

No engineering works constructed for the purpose of preparing the site shall be covered over unless 48 hours notice has been given to the Authority that the works are completed and ready for inspection.

315 Maintenance of Works

All site works which are the subject of licence conditions or the Working Plan shall be maintained at all times to the satisfaction of the Authority.

400 OPERATIONAL SPECIFICATIONS

401 Operating Hours

Waste shall not be received or handled at the facility except during the following times or as agreed with the Authority and the Planning Authority:-

Weekdays	0700	:	1800	hours
Saturdays	0700	:	1300	hours
Sundays and Bank Holidays	: No operation			

For the avoidance of doubt a Bank Holiday is as defined by the Banking and Financial Dealings Act 1971.

402 Supervision of Site Operations

- (a) Sufficient supervision shall be provided to ensure the satisfactory operation of the site. Persons responsible for supervision shall be suitably qualified, trained and experienced in the methods, techniques and procedures required for the safe disposal of the permitted wastes and shall be fully aware of the terms of the Waste Disposal Licence.
- (b) The Authority shall be informed in writing of the name of the person in overall charge of the management and operation of the site together with details of their qualifications and experience.
- (c) A copy of the licence and all subsequent amendments to the licence and a copy of the current working plan shall be displayed at the site control office.

403 Site Staffing

- (a) Staff engaged in any waste disposal operations or associated control activity shall be sufficiently trained, qualified and experienced to perform the work for which they are responsible to the best standards of modern landfill practice.
- (b) Sufficient supervisory and operational staff shall be present during all operating times to ensure that the site operations conform to the terms and conditions of this licence. Arrangements shall be made to provide suitable replacement staff in the event of staff illness, holiday or other absence from the site. The site shall be staffed at all times when waste is being delivered.

404 Waste Reception

(a) The licence holder shall accept waste only if, before or at the time of delivery, it can be shown by documentary evidence that the waste is in accordance with the waste permitted under conditions 101 and 102. All vehicles shall report to the site control office on arrival at the site. The documents relating to each waste consignment shall be cross checked with the waste at the time of arrival. The waste shall be visually inspected on arrival, where possible, and again at the time of tipping.

(b) Clear instructions shall be given to vehicle drivers regarding the location of the current disposal areas and the procedures for disposal. All vehicle routes within the site shall be clearly signed and marked.

405 Waste Sampling

(a) Wastes arriving at the facility shall be sampled to ascertain that they conform to the wastes permitted. The licence holder shall implement a system that requires the random sampling and inspection of wastes on arrival and which includes analysis where necessary. This system shall be described in the approved Working Plan.

(b) Prior to the acceptance of any new waste stream in Category D the Authority shall be consulted and where necessary an analysis shall be carried out at a laboratory approved by the Authority.

(c) A record of the tests undertaken shall be recorded in a form to be approved of by the Authority and shall be available for inspection on request.

406 Construction of Cells

Prior to the deposit of waste in any area of the site a cell shall be constructed using suitable inert materials. The side and end walls of the cell shall not be less than 2.0 metres in height and the cell shall not be more than 30.0 metres in width.

407 Deposit and Compaction of Waste

(a) Waste shall be deposited only within cells and shall be graded and compacted into layers using a suitable compacting machine as soon as possible after the deposit. The depth of any one layer of waste shall not after such compaction exceed 2.0 metres

Working faces shall be maintained at a slope sufficient to allow full compaction of the wastes. The surface of compacted layers shall be graded to prevent ponding of surface water.

All waste shall be compacted and formed into layers by the end of the working day on which it was deposited.

(b) Tipping shall be confined to one area unless otherwise shown on the approved working plan.

(c) No waste shall be deposited in water.

408 Covering of Waste

As soon as possible after the deposit of Category B solid waste it shall be covered on all surfaces exposed to the air with suitable inert material so that the waste is fully incorporated into the landfill. During the formation of any layer not more than 150 square metres shall be left uncovered at any time. No Category B solid waste shall be left uncovered at the end of any day. Where cover material has become for any reason disturbed in an area which is partially filled or awaiting capping, any item or patch of exposed waste of Category B which exceeds 0.5 square metres in area shall be covered over as soon as possible.

409 Reclamation of Waste

Any incoming loads of waste which contain material that is to be reclaimed shall be deposited in a designated area located at least 10 metres from the tipping face. Sorting of materials for reclamation must be by mechanical means except on sites operated by one person only.

410 Site Security

All measures necessary to prevent the entry of unauthorised persons to the site at any time shall be taken. The integrity of all security fencing and gates shall be frequently inspected. The gates shall be kept locked shut during hours when the site is closed or is unattended.

411 Plant

Not less than one tracked excavator or suitable approved alternative items of plant, shall be provided on site during all opening hours. Arrangements shall be made to maintain plant in good working order and to provide alternative plant in the event of plant breakdown.

412 Deposit of Bulky Items and Empty Containers

All bulky articles and empty containers shall be crushed, compacted or otherwise dealt with to prevent the formation of voids within the landfill. No bulky items should be deposited within the final layer of waste material.

413 Final Layer

The final layer of waste deposited, being the layer directly beneath the capping layer, shall, to a depth of not less than one metre, be kept free of materials such as bulky items or metal cables and rods which are likely to interfere with the final restoration or subsequent cultivation of the site. Level profiles shall be provided as necessary to ensure that correct final waste levels are obtained, taking into account the capping layer referred to in condition 414 below, the restoration layers and any settlement that might reasonably take place.

414 Capping of Final Layer

- (a) On completion of filling in each area, the final waste layer shall be capped with a layer which includes low permeability material that will prevent the ingress of water into the landfill.
- (b) The permeability of the capping material required in (a) above shall not be greater than 1×10^{-9} metres/sec. when tested in situ. The capping material shall comprise naturally occurring clay placed to an engineering specification and to a thickness of not less than 1.0 metres or an alternative arrangement specified in the approved Working Plan. Any alternative material specified will be subject to approval by the Authority in consultation with the National Rivers Authority.
- (c) Before the construction of any capping, a programme of testing shall be carried out to establish the capping material quality. When clay capping material is used the testing will include determination of permeability, moisture content, Atterberg limits, particle size distribution and compaction tests. Testing will be carried out in accordance with British Standard or ASTM methods and at a laboratory with NAMAS accreditation or BS5750 quality assurance. The licence holder shall submit to the Authority a summary of the results of all testing together with proposals for the engineering specification of the capping and a programme for testing during construction.
- (d) Capping material shall be placed, compacted and tested in accordance with the specification approved by the Authority. The licence holder shall carry out any additional testing reasonably required by the Authority either in situ or at a laboratory. The results of all testing carried out during construction shall be provided to the Authority.
- (e) Details of the specification for the low permeability capping, the method of construction and the programme of testing before and during construction shall be fully described in the Working Plan.
- (f) The Authority shall be notified at least 48 hours before the placement of capping material in any area. The cap shall not be covered over unless it is approved by the Authority.
- (g) Capping constructed of naturally occurring materials shall be covered over immediately after the construction is approved so that drying out does not take place. Vegetation shall be established as soon as possible. Restoration materials used shall be in accordance with the requirements of the Planning Authority.
- (h) This condition shall only apply to the operational phases shown hatched on the attached plan no. CR 91/2.

415 Litter Screens

Where this is found to be necessary, litter screens of minimum height 2.0 metres shall be provided at positions such that litter is contained within the working area. Litter screens shall be secured sufficiently to withstand adverse weather conditions and shall be adequately maintained. Additional litter screens shall be provided as necessary to ensure that litter is contained within the site boundaries.

416 Site Tidiness

All litter and loose waste which may be about the site shall be collected and disposed of so that the site is maintained in a tidy condition. Waste collected on litter fences shall be removed daily and any windblown waste which alights outside the boundary of the site shall be recovered within one working day or a longer period where agreed in extreme weather conditions. Until the final restoration of the site, completed areas of the landfill shall be graded and maintained in a tidy condition and where necessary action shall be taken to control or destroy weeds.

417 Dust and Noise

The facility shall be operated in such a manner that the amenities of the locality are not detrimentally affected by the emission from the site of dust or noise. Measures shall be taken to suppress dust and whenever necessary in dry weather site roads shall be sprayed with water.

418 Odours

Measures shall be taken to suppress odours and, if necessary, odour masking substances shall be used. Any such substances shall be approved by the Authority.

419 Vehicle Cleaning

Wheel cleaning equipment or other measures shall be used to prevent dirt, mud or any other debris being carried on vehicle wheels or underbodies out of the site.

420 Fire Precautions

- (a) Site staff shall be properly instructed in the prevention and control of fires in accordance with the procedures set out in the working plan.
- (b) No waste shall be burnt within the curtilage of the site.
- (c) If a load is found to be on fire it shall be deposited in a designated area and where necessary the Fire Brigade shall be informed immediately.
- (d) Instructions for dealing with fires as supplied by the Fire Brigade shall be displayed where all persons employed at the facility can readily read them.
- (e) Adequate access for Fire Brigade vehicles shall be provided and maintained.
- (f) The Authority shall be notified within one working day of an outbreak of fire at the site.

421 Storage of Waste

No waste shall be stored on site except materials intended for use as cover material, road construction, restoration materials, reclaimed materials or any materials stored under condition 422.

422 Non-Permitted Wastes

- (a) Any deposited waste which is found not to comply with Condition 101 or 102 shall be removed for temporary storage to an area designated on the Working Plan.
- (b) The Authority shall be informed within 24 hours.
- (c) Such waste shall be removed as soon as practicable, or within a time agreed with the Authority, to a site licensed for the disposal of that waste.
- (d) A record shall be kept of such incidents.

423 Pest Control

- (a) A pest control programme shall be implemented in accordance with the working plan. Regular inspections of the site shall be made and any infestation or suspected infestation shall be reported immediately to the relevant Local Authority, and any necessary action taken to eliminate the infestation.
- (b) Records shall be kept of the dates of inspections and treatments used in respect of this condition and these records shall be made available to the Authority and any officer of the Authority authorised to enter the site.

424 Bird Control

Where the continuing prescence of birds on the site has been shown to cause a problem, bird control operatives shall be employed who shall take all necessary measures to ensure that birds likely to cause a hazard to aircraft, or to cause detriment to local amenities, are kept away from the site continuously during daylight hours. Such birds shall be prevented from alighting within the site boundary and shall be discouraged from congregating nearby. At least two manually controlled scaring systems and one automatic scaring system shall be maintained in working order and shall be available at all times. All systems must be acceptable to the Ministry of Defence, the Civil Aviation Authority and the Authority.

Provision shall be made for coverage of the site during all daylight hours and this shall include provision of staff in the event of sudden illness or other unforeseen absence of regular staff.

Staff employed shall be properly trained in all methods of bird scaring used in the performance of their duties. Any failure in the above systems shall immediately be reported to the Authority.

425 Waste Records

A record shall be kept of each consignment of waste delivered to the facility in a form prescribed by the Authority. The record shall include as a minimum the waste category, waste weight, carriers name, vehicle registration number and the source of the waste by District for Shire Counties or Borough for Metropolitan Councils. Site records shall be made available to the Authority and to any officer of the Authority authorised to enter the site. If waste is not weighed, the weight shall be calculated using conversion factors agreed with the Authority.

A monthly summary of waste delivered to the facility shall be returned to the Authority by the 15th day of the following month.

The return shall provide the following information;

- (a) The waste input recorded each day and a monthly total for each of the following;

Category A	Waste	(Tonnes)
Category B	Waste	"
Category D	Waste	"

- (b) The monthly total by source (District or Borough) for each of those waste categories.

501 Landfill Gas

Monitoring of landfill gas shall take place in accordance with the principles set out in the most recent version of Her Majesty's Inspectorate of Pollution Waste Management Paper No. 27 entitled 'The Control of Landfill Gas'. The monitoring scheme shall be described in the current approved Working Plan.

501.1 Gas Monitoring Points

Gas monitoring points shall be provided prior to the deposit of any waste at locations and to specifications approved by the Authority. Gas monitoring points shall be maintained in good working order at all times.

501.2 Monitoring Procedures

- (a) Monitoring of landfill gas shall be carried out to a programme and method of measurement approved by the Authority.
- (b) Background levels of Methane and Carbon Dioxide in the land surrounding the landfill shall be determined and the values notified to the Authority prior to the deposition of waste.
- (c) Monitoring for landfill gas shall be carried out by suitably qualified personnel trained in the use of gas monitoring equipment. Monitoring equipment shall be approved by the Authority and shall be properly maintained and calibrated.
- (d) Records of gas monitoring results shall be kept and the information sent to the Authority in an approved form at three monthly intervals.
- (e) The licence holder shall immediately notify the Authority in the event that concentrations of gas are discovered at or beyond the site boundary which exceed 1% (by volume) of methane or 1.5% (by volume) carbon dioxide.

501.3 Control Measures

If the concentrations of gas at or beyond the site boundary and attributable to the landfill operation exceed 1% (by volume) methane or 1.5% (by volume) carbon dioxide, a variation to the landfill gas management scheme, (condition 311), shall be submitted to the Authority for approval. The approved scheme shall be implemented to reduce the gas concentration to less than the levels stated above.

502 Protection of Water Systems

All measures necessary to prevent the pollution of surface or underground systems shall be taken. These measures will be implemented in accordance with the scheme described in the approved Working Plan.

502.1 Water Monitoring Points

- (a) No waste shall be deposited until boreholes for groundwater monitoring have been provided at locations and to specifications agreed by the Authority. The locations of surface water monitoring points shall be agreed with the Authority. All borehole headworks shall be levelled to Ordnance Datum following installation.
- (b) The Authority may decide that additional groundwater monitoring boreholes or surface monitoring points are required as filling progresses. Monitoring boreholes shall be maintained in good working order and be accessible at all times.
- (c) Leachate monitoring wells shall be provided, within the landfill at locations and to specifications agreed by the Authority. Leachate monitoring wells shall be maintained in good working order and shall be accessible during the life of the site. The level of the well base shall be surveyed to Ordnance Datum prior to the deposit of any waste around the well.

502.2 Monitoring Procedures

- (a) All monitoring points shall be sampled in accordance with a programme agreed by the Authority, and the samples analysed for a list of parameters specified by the Authority.
- (b) Background levels for the specified parameters will be established by sampling groundwater monitoring boreholes and surface water monitoring points prior to the deposition of any waste.
- (c) Liquid levels in groundwater boreholes and leachate wells shall be measured relative to Newlyn Ordnance Datum and to an approved monitoring programme.
- (d) Monitoring will be carried out by suitably qualified personnel. Liquid analysis will be carried out by a laboratory approved by the Authority.
- (e) Records of water monitoring results shall be kept and copies forwarded to the Authority in an approved form and to an agreed timetable.
- (f) All boreholes shall be purged at least once a year. A minimum of 3 volumes of borehole water shall be pumped out on each occasion.

502.3 Control Measures

- (a) No leachate or contaminated water shall be allowed to enter any controlled water as defined by Section 85 of the Water Resources Act 1991 without a current discharge consent issued by the National Rivers Authority, stating the quantity, quality and point of discharge.
- (b) If any discharge from the site results in contamination of groundwater, surface water or public water supplies, remedial measures shall be undertaken to prevent further contamination and to decontaminate those systems affected. Any decontamination of polluted systems should be remediated to standards agreed with the Authority in consultation with the National Rivers Authority.

503 Water Balance

A water balance calculation in accordance with Waste Management Paper 26 shall be submitted to the Authority prior to the commencement of filling and at least once each year. This will derive the maximum size of each operational area depending on the rate of waste input and the average precipitation allowing for evapotranspiration and the absorbtive capacity of the waste.

APPENDIX 1

SCHEDULE OF WASTE CATEGORIES:

WASTE CATEGORY A

Solid or granular material which either does not decompose or decomposes only very slowly and is virtually insoluble in water.

Subsoil
Topsoil
Hardcore
Brickwork
Stone
Concrete
Clay
Sand
Silica (not finely powdered)
Excavated Road Metal (well weathered)
Glass, Ceramics

Excluded from Category A

No wastes included in this category are permitted if they are mixed or contaminated with amounts of any substances listed in Appendix 3 which exceed the concentrations given therein.
All sludges or liquids.

WASTE CATEGORY B

Solid granular or broken materials which may decompose slowly, but are only slightly soluble in water.

Wood (including sawdust and sanderdust, trees and bushes)

Paper (including oiled and tarred paper)

Cardboard and Fibreboard

Wood Products (hardboard, chipboard etc)

Plastics (as finished products or manufacturing scrap only)

Plasterboard

Metal (iron, steel, aluminium, brass, copper, tin, zinc)

Leather (excluding leather processing waste)

Natural or man-made fibres (Wool, cotton, linen, hemp, sisal etc)

Shot blasting residues

Slag and boiler scale

Carbon, ebonite

Abrasives, silica, Kieselguhr (diatomaceous earth)

Oxides of iron, magnesium, zinc, aluminium, copper and titanium

Hydroxides of iron

Calcium carbonate, calcium sulphate (gypsum), magnesium carbonate

Ash, clinker, coal and coke

Fully burnt incinerator residues

Cement

Excluded from Category B

No wastes included in this category are permitted if they are mixed or contaminated with amounts of any substances listed in Appendix 3 which exceed the concentrations given therein.

Metal swarf, dusts, particulate scrap

Toxic metal slags

Pulverised fuel ash and vanadium contaminated ash

All liquids and sludges

WASTE CATEGORY D: DIFFICULT WASTE

Materials which present or may present particular operational problems on site and therefore warrant special attention. Where no number appears under the column Tonnes/day for any type of material listed, approval must first be obtained from the Authority in writing before that waste is accepted for disposal.

Tonnes/day

Tyres

8

Cosmetic products (redundant products in bulk or retail containers)

Non-toxic metal compounds

Non-toxic organic compounds

Synthetic adhesive wastes and resinous materials in solidified form

Tar, pitch and bitumen wastes in solidified form

Ion exchange resin wastes

Non metallic grinding sludge and dust

Dyestuff wastes (non-toxic materials only)

Pulverised fuel ash

Finely powdered silica dust.

Metal turnings, swarf, granules
excluding those comprised of any Ferrous metal or alloy,
Copper, Brass, Bronze, Nickel or Chromium.

Metallic grinding sludge and dust.

Lighting lamps and tubes, including fluorescent tubes.

Electric cable and wire.

Car Fragmentiser waste

Non-Hazardous Liquid wastes.

Excluded from Category D

No wastes included in this category are permitted if they are mixed or contaminated with amounts of any substances listed in Appendix 3 which exceed the concentrations given therein.

All Sludges or liquids, other than those listed above.

WASTE CATEGORY E ; SPECIAL WASTE

As defined in the Control of Pollution (Special Waste) Regulations 1980 (S.I.1980 No. 1709) made pursuant to Section 17 of the Control of Pollution Act 1974 and listed below.

None

APPENDIX 2

EXCLUDED WASTES

None of the following wastes shall be deposited.

Where these wastes might occur as contaminants in other wastes the maximum admissible concentration is given in mg/kg or as shown.

(a) Clinical waste as defined by the Controlled Waste Regulations 1992 except small quantities of animal carcasses and disposable nappies contained as an integral part of the household waste collection services.

(b) Organohalogen compounds and substances which may form such compounds in the aquatic environment

(i)	tetrachloromethane	0.03
(ii)	tetrachloroethene	0.10
(iii)	trichloroethene	0.30
(iv)	other organohalogen compounds	0.01

(c)	Organophosphorus compounds	0.01
(d)	Organotin compounds	0.01
(e)	Mercury and its compounds	3.0
(f)	Cadmium and its compounds	3.0
(g)	Mineral oils (greater than 5% by volume)	
(h)	Petroleum derivatives (greater than 1% by volume)	
(k)	Cyanides	5.0
(l)	Phenolic wastes (App.3)	2.0
(m)	Any substances which possess carcinogenic, mutagenic or teratogenic properties as specified by the Authority.	
(n)	Organic silicon compounds	0.01
(o)	Inorganic phosphorus compounds and elemental phosphorus	50.0
(p)	Fluorides	15.0
(q)	Ammonia	25.0
(r)	Nitrites	1.0

APPENDIX 3

The maximum permissible level of contamination in Category A or B wastes measured in mg./kg. (except pH)

pH	5-9
Antimony	50
Arsenic	50
Chromium	200
Copper (available)	200
Lead	1000
Lead (available)	500
Nickel	50
Zinc	500
Boron	5
Selenium	3
Barium	1000
Beryllium	10
Manganese	1000
Vanadium	200
Magnesium	1000
Sulphate	5000
Sulphur (free)	500
Sulphide	20
Cyanide (free)	5
Cyanide (total)	25
Ferricyanide	500
Thiocyanate	50
Coal tar	1000
Toluene extract	5000
Cyclohexane extract	5000

Small variations from the above limits may occasionally be permitted with the prior written consent of the Authority.

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