CORNWALL COUNTY COUNCIL

Control of Pollution Act, 1974
Waste Disposal Licence

Licence No. 2/78

To: E. Hooper & Sons,
Penhale,
Fraddon

(name and address of applicant)

The Cornwall County Council, being a disposal authority for the purpose of the Control of Pollution Act 1974, HEREBY AUTHORISES

I (the deposit of controlled waste)

XI [redacted]

on the land specified in the schedule hereto in accordance with the application dated 18th April 1990 submitted by you, and bearing the County Council's reference number WM/2/2/78
SUBJECT to the attached conditions

OUTGOING-1

SCHEDULE

Land to which this licence applies

West Chyverton Mines
Zelah
(SW793508)

OTHER-2

Dated 17 July 1990 Signed R D B Read
County Surveyor
(the Officer appointed for this purpose)

NOTE (i) This Licence may not be transferred without prior notice to the County Council.

(ii) Please see over for rights of appeal.

(iii) The granting of a licence under the Control of Pollution Act, 1974 does not lessen the need for a licence holder to comply with other statutory obligations which may rest on him under other legislation in particular the Health and Safety at Work etc. Act 1974, the Radioactive Substances Act 1960 and planning, water protection and environmental health legislation.

(iv) See note attached "Licence Review"

LICENCE REVIEW. This Licence shall be reviewed from time to time in line with recommendations in Waste Management Paper No 4, "The Licensing of Waste Facilities".

The review will be carried out after consultation with the licence holder and amendments (if any) to the licence issued as necessary to reflect current operating practices and legislation.

An amendment shall be implemented within a given timescale and at no cost to the Waste Disposal Authority.

An appeal system is provided by the Control of Pollution Act 1974 and details will be provided with any amendment issued.

LICENCE No 2/78

WASTE MANAGEMENT LICENCE.

CHYVERTON MINE LANDFILL SITE

This Licence comprises of 20 No pages the contents of which are noted below, together with the Working Plan and site location plan (Fig 1).

SECTION 1.TYPES AND QUANTITIES OF WASTE

SECTION 2.SITE PREPARATION AND WORKS

SECTION 3.SITE OPERATION

SECTION 4.RECORDS

SCHEDULE 1.Categories of Waste

SCHEDULE 2.Waste Input Summary

Note. in this Licence the term "Waste Disposal Authority", or WDA, means the Cornwall County Council.

1. TYPES AND QUANTITIES OF WASTE

1.1 Types of Waste

1.1.1 The site shall be licensed to receive the following types of waste only.
Such wastes as are produced in the course of constructing,improving, repairing or demolishing any building or structure, but only such waste listed as:

Solid waste	Category A
Solid waste	Category B
Asbestos waste	Category E

and included in Schedule one

1.2 Quantities of waste

1.2.1 The total quantities of all waste of any category deposited at the site shall not exceed those given below without prior agreement with the W.D.A.
800 cu m/week after compaction

1.2.2 The quantities of waste in Categories B and E shall not exceed 10 % of the total.

1.3 Use of site

1.3.1 The use of the site shall be restricted to the applicant, his employees and other such persons under his direct control.

2. SITE PREPARATION AND WORKS

2.1. No deposit shall take place until the following preparation works have been completed to the satisfaction of the W.D.A.

2.2 Site roads

2.2.1 These shall be constructed and maintained in accordance with the following specification and details, and as shown on Fig 2.

2.2.2 The main access road shall be of engineered construction adequate to take the type and number of vehicles using the site . The surface shall be of macadam, concrete or other impervious substance well compacted and graded to encourage surface water run-off, and will be of sufficient width for two vehicles to pass or will have suitable passing places.

2.2.3 Internal roads shall be suitable for the types and numbers of vehicles using the site and constructed of stone, quarry waste or hard-core, graded to ensure surface run-off.

2.2.4 All roads shall be maintained so as to be kept free of pot holes and to ensure their effectiveness.

2.3 Identification board.

2.3.1 A site identification board of durable material and finish shall be displayed at the site entrance. The board shall show the following information:-

a) The name of the site,
b) A statement that the site is for the use of the licence holder only.
c) The name, address and telephone number of the operator of the site,
d) The name, address and telephone number of the W.R.A.

2.3.2 ie Licensing Authority, Cornwall County Council,
County Surveyors Department,
Western Group Centre,
Radnor Rd, Scorrier,
Redruth. TR16 5EH.
Telephone (0209) 820611.

2.4 Storage tanks.

2.4.1 If gas oil is stored on site then this must be contained in a tank of sound construction and surrounded by a suitable bund. The bunded area shall be capable of holding 110% of the capacity of the tank with no leakage from the area.

2.5 Surface water.

2.5.1 Engineering works shall be carried out as required to ensure the diversion or protection of any surface waters entering or adjacent to the site.

2.6 Screens.

2.6.1 Screens shall be provided at intervals near operational areas having regard to wind directions so as to ensure that paper and other wind borne materials are contained on the site. Materials arrested by such screens shall be removed and disposed of as often as necessary to maintain the efficiency of the screens and the tidiness of the site and no less frequently than weekly.

2.7 Fencing and gates.

2.7.1 All reasonable precautions shall be taken to prevent unauthorised access to the site. Gates and fencing shall be provided to the following minimum specification:-

2.7.2 The existing boundary fences shall be maintained in a stockproof condition.

2.7.3 Steel or wooden agricultural quality gates of minimum opening 3.0 metres shall be constructed at main entrance and exit positions as shown on Fig 4. These shall be kept locked at all times when the site is unattended.

2.7.4 Additional gates for use by pedestrians and horses using the bridle path shall be provided. Notices, warning members of the public of the dangers of the landfill site shall be displayed at these points.

2.8 Other works.

2.8.1 An earth bund, at least 1.5 metres in height, shall be constructed around the perimeter of the site, other than where fencing is provided, so as to prevent unauthorised vehicular access and to deter trespass. Notices, warning members of the public of the dangers of the landfill site shall be displayed at points along the boundary.

2.8.2 Prior to the commencement of Phase 2, consent shall be obtained from the National Rivers Authority (NRA), to culvert the issue of water from the pond as shown in Fig 4. A copy of this consent shall be submitted to the W.D.A.

2.8.3 Prior to commencement of Phase 3, a culvert shall be constructed as detailed in the applicants letter of 15th May 1990, and included in the working plan.

3. SITE OPERATION.

3.1 Working Plan.

3.1.1 The site shall be operated in accordance with the working plan appended to this licence.

3.2 Manning.

3.2.1 The person responsible for the day to day operation of the site shall be named in the working plan.

3.2.2 Manning levels and supervision levels shall be adequate to ensure compliance with all of the conditions of this licence and to ensure that the site is kept in a clean and tidy condition.

3.3 Mechanical Plant.

3.3.1 The site shall be equipped with sufficient mechanical equipment as is required for the effective operation of the site.
The site input shall not exceed the recommended throughput for the types and number of items of plant available which shall be listed in the working plan.

3.3.2 Programmed maintenance and breakdown procedures must exist so as to ensure that in the event of a mechanical breakdown of any item of plant the conditions referred to in this licence are complied with. A defect reporting system must be maintained and records of all breakdowns must be made available to the W.D.A. on request.

3.4 Waste Reception.

3.4.1 All incoming loads must be inspected on arrival at the site to ensure that they conform to the limitations of the licence. The waste type and quantity shall be recorded before the waste is directed to the disposal area. Any waste received which is not acceptable for disposal under the terms of this licence shall be removed from the site.

3.4.2 Arrangements shall be made to obtain samples of any wastes deposited as requested by the WDA.

3.4.3 Any asbestos-containing material which is deposited must be deposited in accordance with the Code of Practice for Disposal of Asbestos as set out in Waste Management Paper No 18. Asbestos-containing material shall be deposited at the foot of the tip face or within a previously prepared trench. The asbestos must then be covered with other wastes immediately so that no asbestos is less than 0.5 metres from the working surface.

3.4.4 No drum or other container greater than 5 litres in size shall be accepted for disposal unless it is open topped and with no liquid contained therein when bought to the site.

3.5 Wastes to be Compacted

3.5.1 Solid waste shall be compacted and formed into a layer as soon as possible after deposit, all in accordance with the working plan. Waste other than wholly Category A shall be so dealt with no later than by the end of the working day on which the waste is received.

3.5.2 The layer of waste shall be formed in one or other of the ways described below using suitable compaction equipment with a blade or some other appropriate levelling device.

Waste shall either:-

be compacted on the surface of the site behind the working face and partially compacted by the compacting machine before being pushed down the working face, or

be deposited on the ground forming the base of the site or on a previous layer in front of the working face and shall be formed into a layer by being pushed upwards and driven over by the compacting machine.

With either method the compaction shall be completed by driving the machine up and down the face.

3.5.3 The depth of layer of waste shall not, after initial compaction, exceed 2.5 metres.

3.6 Bulky Articles

3.6.1 All large articles likely to cause voids shall be crushed, broken up or flattened.

3.7 Materials to be Covered

3.7.1 Material used for landfill, other than that which is wholly Category A, shall, subject to the traction needs of vehicles operating on the site, and the effective use of the compaction equipment, be covered progressively with Category A waste, so that by the end of the day all exposed surfaces, including the flanks and face, shall have been covered with such waste. Under normal circumstances a depth of 50 to 100mm of cover material is adequate.

The depth of cover shall be sufficient:-

to prevent the site becoming attractive to vermin,insects, birds or other animals.

to avoid windblown litter.

to ensure that the site appears generally tidy and well-kept.

3.8 Gradients

3.8.1 Before covering, working faces shall be compacted to form gradients not steeper than 1 in 3.

3.8.2 Any banks with gradients greater than 1 in 3,including the bank surrounding the pond area in Phases 2 and 3, shall be protected with earth bunds no less than 1 metre high so as to prevent plant or vehicles being driven over them.

3.8.3 All areas of landfill completed either temporarily or permanently shall be finished to a gradient sufficient to ensure adequate run-off of surface water away from the tipping area.

3.9 No Deposit In Water

3.9.1 Waste shall not be deposited in water. Any standing water shall be pumped from the working area prior to commencement of tipping. Water quality shall be monitored in accordance with section 3.21 before being discharged from the site.

3.10 Loose Waste

3.10.1 At least once a week any loose waste which may be lying on the site shall be gathered and disposed of in such a way as to keep the site tidy.

3.11 Fires

3.11.1 All reasonable precautions shall be taken to prevent the outbreak of fire. No waste material shall be burnt within the boundaries of the site. A fire at the site shall be regarded as an emergency and immediate action shall be taken to extinguish it. Any load arriving at the site, which is believed to be burning or may lead to spontaneous combustion should be discharged only at a pre-arranged emergency location. Refuse so deposited must not be removed to the working face until all danger of fire is eliminated.

3.11.2 All outbreaks of fire shall be notified forthwith to the W.D.A.

3.12 Vermin

3.12.1 All reasonable precautions shall be taken to prevent the infestation of the site by vermin or insects. All necessary action shall be taken to eradicate any vermin or insects on the site. Routine inspections shall be carried out by persons competent in pest control and records of such inspections and remedial treatment shall be made available to the W.D.A. on demand.

3.13 Dust

3.13.1 In dry weather the site roads and operational areas shall be sprayed with water as necessary to suppress dust.

3.14 Odour Emission

3.14.1 All due precautions shall be taken to ensure that the presence of any waste does not give rise to an odour emission. Should an odour emission take place which is detectable beyond the perimeter of the site then the licence holder shall take such action as is necessary to eliminate the odour.

3.15 Noise

3.15.1 The licence holder shall take all reasonable measures to minimise the noise levels caused by the operation of the landfill site and the handling and transport of the waste and containers. All vehicles, plant and machinery on the site shall be fitted with effective silencing equipment as recommended by the manufacturers.

3.16 Wheel Cleaning

3.16.1 Wheel cleaning equipment shall be provided and used by all vehicles leaving the site when necessary to prevent the deposit of mud or other debris on the highway. Any deposit of mud or other material on the highway or other land caused by tipping operations shall be removed immediately.

3.17 Securing of Loads

3.17.1 The licence holder shall ensure as far as is reasonably practicable, that all vehicles entering and leaving the site shall have their loads properly secured, so as to prevent spillage of waste material.

3.18 Unauthorised Deposit

3.18.1 All reasonable steps shall be taken to ensure that no material is deposited except in accordance with the conditions of this licence. If any material is deposited on or near to the site, either by the licence holder or by any other person, in contravention of the conditions of this licence, that material shall be dealt with as directed by the W.D.A., at the expense of the licence holder.

3.19 Terms To Be Made Known

3.19.1 The terms of the site licence shall be made known to any person who is given responsibility for the management or control of the site.

3.20 Materials Not To Be Disturbed

3.20.1 Wastes once deposited and covered shall not be re-excavated, disturbed or picked over except with the written consent of the W.D.A.

3.21 Water Monitoring

3.21.1 The licence holder shall arrange for monitoring (taking and testing of samples) of ground and surface water at places and at times as reasonably requested by the W.D.A.

3.21.2 The monitoring shall be carried out either by the National Rivers Authority or by a competent party who shall be approved by the W.D.A.The results of the monitoring shall be submitted to the W.D.A. within 5 working days of the completion of the tests. The W.D.A. must be notified immediately of any indication that pollution of ground or surface water has occurred or appears likely to occur.

3.21.3 The licence holder shall be responsible for carrying out all work necessary to alleviate the pollution or to prevent its occurrence.

3.22 **Landfill Gasses**

3.22.1 Experience has shown that even landfill sites receiving inert wastes have produced landfill gas. The licence holder shall within 26 weeks of the issue of this licence carry out, in consultation with the W.D.A, a survey of the site to detect any presence of landfill gas in the site. Any remedial works necessary and any further monitoring shall be carried out, in accordance with Waste Management Paper No.27

3.22.2 The results of monitoring shall be forwarded to the W.D.A. within 5 working days. Any significant change in circumstances shall be reported immediately.

3.23 Restoration.

3.23.1 Final restoration shall be carried out as soon as practicable following completion.

3.23.2 Nothing shall be deposited in the final one metre layer which is likely to interfere with final restoration or subsequent cultivation

3.23.3 Any completed areas of landfilling awaiting restoration shall be graded and maintained in a tidy condition. Action shall be taken to control or destroy weeds.

3.24 Temporary Cessation

3.24.1 Any temporary cessation of operations for a period of more than 1 month shall be notified to the W.D.A. All monitoring programmes required by this licence shall continue during any period of cessation.

SECTION 4

4.1 Site Records

4.1.1 Records shall be kept as required by the W.D.A. and those shall be made available to the W.D.A. on request.

4.1.2 A record of all types and quantities of waste received at the site shall be kept. A summary of this record shall be delivered to the W.D.A. quarterly and within 20 working days following the end of each quarter, in the form prescribed by the W.D.A. and shown in Schedule Two.

4.1.3 Results of all monitoring of leachate, surface and groundwater carried out shall be kept and notified to the W.D.A. as required under section 3.21.

4.1.4 Results of all monitoring for landfill gas emissions shall be retained and made available to the W.D.A. as required under section 3.22.

LICENCE No 2/78

SCHEDULE ONE

Standard categorisation of waste as applied to this Licence.

SOLID WASTE	**CATEGORY A**	**Included**
SOLID WASTE	**CATEGORY B**	**Limited**
SOLID PUTRESCIBLE	**CATEGORY C**	**Excluded**
DIFFICULT WASTE	**CATEGORY D**	**Excluded**
ASBESTOS WASTE	**CATEGORY E**	**Limited**
TOXIC WASTE	**CATEGORY F**	**Excluded**
PROHIBITED WASTE	**CATEGORY G**	**Excluded**

WASTE CATEGORY 'A' SOLID WASTE.

Material for which the environmental impact of decomposition is less than, or comparable with, that of topsoil. It does not contain significant quantities of substances other than those of the sort listed below;

Topsoil

Subsoil

Brickwork

Concrete

Stone

Clay

Sand - including clean foundry and moulding sand Silica, glass, ceramics.

Mixtures of the above materials such as:

Hard-core

Weathered tar-coated stone.

WASTE CATEGORY B SOLID WASTE.

Material which may decompose slowly, but in its deposited forms is only slightly soluble in water. It does not contain significant quantities of substances other than those of the sort listed below and in Category 'A'.

Metals		
Plastics		
Leather	-	excluding leather processing waste.
Natural and man-made fibres		
		Wool, Cotton, Kapok, Linen,...Nylon Polyester etc.
Wood and Wood Products		
		All hard and soft woods Sawdust and sanderdust Hardboard, chipboard etc.
Trees and bushes		
Paper		All paper including oiled and tarred paper Cardboard and fibreboard
Carbon		
Ebonite		
Pottery, china, enamels,		
Shot blasting residues		excluding that contaminated with toxic paints and other residues
Abrasives, mica, diatomereous earth (kieselguhr)		
Slag and boiler scale		excluding that contaminated with toxic metals
Oxides of iron, magnesium, zinc, aluminium, copper and titanium		
Hydroxides of iron		
Calcium carbonate, calcium chloride, magnesium carbonate.		

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WASTE CATEGORY E ASBESTOS WASTE.

1. High density asbestos products such as asbestos cement, moulded plastic or resinous materials

C O R N W A L L C O U N T Y C O U N C I
W A S T E R E G U L A T I O N A U T H O

SITE _____

Quarterly Waste Input Summary

Jan-March/April-Ju
(Delete those not

ALL FIGURES SHOWN SHOULD BE IN TONNES

	A INERT e.g. Soil Hardcore	B SEMI INERT e.g. Construction and Demolition	C PUTRESCIBLE		
			Industrial Commercial	Domestic	Civ Amen
PENWITH					
KERRIER					
CARRICK					
RESTORMEL					
CARADON					
NTH CORNWALL					
OUT OF COUNTY					
TOTALS					

LICENCE No 2/78

WORKING PLAN:CHYVERTON MINES.

All operations shall be carried out in accordance with this Working Plan approved by the W.D.A. The Licence Holder shall notify the W.D.A. of any proposed change in the actual conduct of operations from the proposals shown in the plan, as altered by any previously notified changes, at least one month before the proposed change is implemented.

CONTENTS.

Drawing No 1 Original survey

3 Proposed fill

4 Sections

Fig 2 Site boundaries

3 Phases of filling

4 Site routes and Construction Works

Letter dated 15th May 1990 details of culvert.

Letter dated 18th April 1990 Statement of intent.

Letter dated 12th April 1990 Planning Application.

Planning decision No 90/645 dated 29th June 1990.