

Annex 1: Mineral extraction and processing

Application to carry out mineral working and associated development

Town and Country Planning Act 1990



Environmental Services Department

Part 5

Note: You should complete all relevant questions concerning mineral extraction and processing.

Mineral extraction

A1.1 Please state:

i Mineral(s) to be extracted

ii Total quantity of saleable minerals to be extracted

tonnes

iii Areas of excavation ha

iv Maximum depth of surface working m

v Proposed duration of mineral extraction

Duration of operations years

Start date End date

vi End use, for example, construction, industrial processes and so on and immediate proposed destination of mineral(s) products

vii The location of any off-site processing plant

A1.2 For surface mineral workings or deposit on land of mineral wastes, please provide the following information in connection with soils and overburden and the grade of any agricultural land:

i

	Depth (mm)		Volume (m ³)
	(Average)	(Ranges)	
Topsoil existing on site			
Subsoil existing on site			
Overburden to be removed			

For office use only

Application number

Date

ii Please specify the area of agricultural land (ha) and grades affected under the Agricultural Land Classification by extraction

iii Summarise the provision to be made for the temporary or permanent storage of soils or overburden

A1.3 Summarise wastes which will result from extraction operations - types and quantities.

A1.4 Summarise the evaluation procedures undertaken to assess the quality of the minerals and the results of these

A1.5 Summarise the proposed method of extraction and scheme of working including phasing

Mineral processing

A1.6 Type and quantity of material to be processed on site

Type	Maximum tonnes per annum

A1.7 Mineral products from processing:

type a	Estimated annual production	tonnes
type b	Estimated annual production	tonnes
type c	Estimated annual production	tonnes

A1.8 Summarise plant and machinery to be used in processing of minerals.

A1.9 i Maximum height of plant as measured from existing ground level.

m

ii Maximum height of stockpiles or storage facilities for processed material as measured from existing ground level

m

A1.10 Plant capacity

	Tonnes per hour	Tonnes per year
Estimated normal capacity of processing plant		
Estimated maximum capacity of processing plant		

A1.11 Source of water, if any, to be used in processing:**A1.12 Details of waste arising from processing:**

i Nature of waste

ii Estimated annual quantity produced m³

iii Please specify maximum height(s) of any waste or tip(s) as measured from existing ground level m

iv Is it proposed for waste tips to be located within excavations?

Yes No

v Is it proposed to dispose of any wastes at a separate site?

Yes No

If yes, please state the location _____

vi Specify methods to be used to transport waste, for example, pipeline, conveyor belt

vii Will the mineral processing involve tailing lagoons?

Yes No

Other buildings, plant or structures**A1.13 Describe briefly:**

i Purpose of buildings

ii Size and appearance of buildings and such

A1.14 Would any ancillary operations last beyond the period of mineral extraction?

Yes No

If yes, describe these operations

Traffic and transport

A1.15 Summarise method(s) of transportation of processed materials

A1.16 Is it proposed to use an existing means of access to the application site?

Yes No

A1.17 Are new access arrangements to be constructed or alterations to existing access proposed?

Yes No

If yes, please summarise the proposals

A1.18

	Average	Maximum
Estimated number of loaded vehicles likely to enter or leave the site daily		
Estimated capacity of loaded vehicles		

iii Summarise the routes to be used to the primary road network on leaving the application site

iv Proposed methods to be used to control transport impacts

Environmental effects of development

A1.19 To the best of your knowledge is any part of the application site covered by statutory designations including habitats of protected species?

Yes No

If yes, specify these

A1.20 Proposed hours of operation of the site

	Time periods (hours)	Days of weeks
i Soil stripping and overburden removal		
ii Mineral working		
iii Mineral processing		
iv Vehicular movements		
v Other, please specify		

A1.21 Noise levels and proposed controls

- i State existing background noise levels at site boundaries and/or nearest properties, where measured (delete as appropriate)

- ii State predicted noise levels at site boundaries and/or nearest properties where assessed (delete as appropriate)

- iii Describe measures for controlling noise and methods for noise monitoring (as relevant)

A1.22 Describe proposed measures for controlling and suppressing dust including treatment of storage heaps and minimising the spread of any minerals and waste onto the public highway

A1.23 Blasting, where relevant

- i Will mineral extraction require blasting? Yes No

If yes, state predicted maximum blasting vibration levels at nearby properties.

- ii Give details of when the blasting will take place, including days and times

- iii Indicate proposed public warnings for blasting

iv Specify proposed methods for monitoring vibration from blasting

A1.24 Will any hazardous materials be used or stored on site?

Yes No

If yes, specify type and storage method

A1.25 Water

i Outline any proposed measures to control water pollution and drainage or flood control measures

ii If working is to take place below the natural water table, is the working to be:

Wet Dry

If dry, describe proposed methods of de-watering, proposed method of water disposal and any proposed mitigation measures

ii State the measures to be taken to prevent the spillage or seepage of fuel oils during delivery, storage and handling on site

A1.26 State whether any processes are to be registered under Part A and B of the Environmental Protection Act 1990 and describe the nature of these operations

A1.27 Does your proposal affect a public right of way?

Yes No

If yes, ensure proposal diversions and/or closures are indicated on a plan

A1.28 Outline any visual impact and landscaping proposals during working

A1.29 Outline any measures to ensure stability of working faces, tips and associated structures

Landfilling of mineral extraction sites - to be completed where relevant

A1.30 Does your proposal include landfilling with any imported wastes?

Yes No

If yes, please specify:

i Estimated maximum void space for filling m³

ii Proposed total area to be filled ha

A1.31 Nature of materials to be deposited and the estimated annual rate of disposal, excluding material for soil formation, cover and restoration, if known

	Quantity (m ³) per Annum	Nature	Proportion Inert	Source(s)
Household				
Industrial				
Commercial				
Other wastes (please specify)				

A1.32 State the nature of any built development within 250 metres of areas proposed to be landfilled with household, industrial or commercial wastes.

A1.33 Summarise proposed measures for monitoring and controlling:

i landfill gas

i leachates

Restoration, aftercare and afteruse

A1.34 i Summarise the intended afteruse or uses:

Agricultural	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Total area <input type="text"/>	ha
Forestry	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Total area <input type="text"/>	ha
Amenity (specify)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Total area <input type="text"/>	ha
Other (specify)	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Total area <input type="text"/>	ha

ii Is restoration and aftercare to be phased? Yes No

If yes, please summarise number and duration of phases

A1.35 Give details of the proposed use of soil materials in restoration

	Total amounts (m ³)	Average thickness to be spread (mm)
Topsoil from site		
Subsoil from site		
Overburden or other soil making material		
Other soil sources (please state)		-

A1.36 Summarise the methods and machinery to be used in stripping, restoring soils and formation of storage mounds.

A1.37 i Is any restoration work likely to take place within 12 months of the start of working?

Yes No

If yes, describe the proposed aftercare.

- ii If no, summarise the items proposed for inclusion in an aftercare scheme, to be agreed at a later date, including land management during the aftercare period and intended arrangements in the longer term.

- iii Who would carry out the aftercare operations?

- iv Are there any specific proposals or agreements for the management of the land following completion of 'aftercare'?

Yes No

If yes, please summarise

Benefits of the development

A1.38 Indicate the benefits of the proposals
