

## Annex 1: Mineral Extraction and Processing

### Application to Carry Out Mineral Working and Associated Development

TOWN AND COUNTRY PLANNING ACT 1990

**NOTE: APPLICANTS 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) Area of excavation ..... hectares
- (iv) Maximum depth of surface working ..... metres
- (v) Proposed duration of mineral extraction  
Duration of operations ..... years  
Start date ..... End date .....
- (vi) End use (eg construction, industrial processes etc) 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 <sup>3</sup> )
	(Average)	(Ranges)	
Topsoil existing on site			
Subsoil existing on site			
Overburden to be removed			

- (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
- (iv) Please specify whether the proposal involves the felling, lopping or works to any trees

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**A1.3** Summarise wastes which will result from extraction operations (types and quantities).

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

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

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## Mineral Processing

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

Type	Maximum tonnes per annum
.....	.....
.....	.....
.....	.....

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**A1.7** Mineral products from processing:

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

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

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**A1.9**

(i) Maximum height of plant as measured from existing ground level. .... metres

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

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**A1.10** Plant capacity

	Tonnes per Hour	Tonnes per Year
Estimated normal capacity of processing plant		
Estimated maximum capacity of processing plant		

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**A1.11** Source of water (if any) to be used in processing:

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**A1.12** Details of waste arising from processing:

(i) Nature of waste

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(ii) Estimated annual quantity produced ..... metres<sup>3</sup>

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(iii) Please specify maximum height(s) of any waste/tip(s) as measured from existing ground level ..... metres

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(iv) Is it proposed for waste tips to be located within excavations? YES/NO

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(v) Is it proposed to dispose of any wastes at a separate site? YES/NO

If yes, please state the location .....

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(vi) Specify methods to be used to transport waste (e.g. pipeline, conveyor belt)

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(vii) Will the mineral processing involve tailing lagoons? YES/NO

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**Other Buildings, Plant or Structures**

**A1.13** Describe briefly:

(i) Purpose of buildings

(ii) Size and appearance of buildings etc

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**A1.14** Would any ancillary operations last beyond the period of mineral extraction?  
If yes, describes these operations YES/NO

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## Traffic and Transport

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

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**A1.16** Is it proposed to use an existing means of access to the application site?  
YES/NO

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**A1.17** Are new access arrangements to be constructed or alterations to existing access proposed?  
If yes, please summarise the proposals YES/NO

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**A1.18**

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

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

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(iv) Proposed methods to be used to control transport impacts

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## 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?  
If yes, specify these YES/NO

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**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 (specify)		

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**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)

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

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

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**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

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**A1.23** Blasting (where relevant)

(i) Will mineral extraction require blasting? YES/NO  
If yes, state predicted maximum blasting vibration levels at nearby properties.

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(ii) State anticipated frequency and hours of blasting (weekdays; other)

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(iii) Indicate proposed public warnings for blasting

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(iv) Specify proposed methods for monitoring vibration from blasting

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**A1.24** Will any hazardous materials be used or stored on site? YES/NO  
If yes, specify type and storage method

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**A1.25** Water  
(i) Outline any proposed measures to control water pollution and drainage/flood control measures

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(ii) If working is to take place below the natural water table, is the working to be WET or DRY?  
(delete as appropriate)

If dry, describe proposed methods of dewatering, proposed method of water disposal and any proposed mitigation measures.

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

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**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

Article

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**A1.27** Does your proposal affect a public right of way? YES/NO  
If yes, ensure proposed diversions and/or closures are indicated on a plan.

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

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

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**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 ..... metres<sup>3</sup>

(ii) Proposed total area to be filled ..... hectares

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**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 <sup>3</sup> ) per Annum	Nature	Proportion Inert	Source(s)
Household				
Industrial				
Commercial				
Other wastes (please specify)				

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

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**A1.33** Summarise proposed measures for monitoring and controlling:

(i) landfill gas;

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(ii) leachates

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**Restoration, Aftercare and Afteruse**

**A1.34** (i) Summarise the intended afteruse or uses:

Agricultural	YES/NO	Total area .....hectares
Forestry	YES/NO	Total area .....hectares
Amenity (specify)	YES/NO	Total area .....hectares
Other (specify)	YES/NO	Total area .....hectares

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(ii) Is restoration and aftercare to be phased? YES/NO  
If yes, please summarise number and duration of phases

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

	Total Amounts (m <sup>3</sup> )	Average Thickness to be Spread (mm)
Topsoil from site		
Subsoil from site		
Overburden/other soil making material		

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

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**A1.37**



(i) Is any restoration work likely to take place within 12 months of the commencement of working? YES/NO  
If yes, describe the proposed aftercare.

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(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.

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(iii) Who would carry out the aftercare operations?

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(iv) Are there any specific proposals or agreements for the management of the land following completion of 'aftercare'? YES/NO  
If yes, please summarise

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## Benefits of the Development

**A1.38** Indicate the benefits of the proposals