



Waste Licence Application Form for Waste Soils* Recovery Facilities

(*limited to uncontaminated natural soils, sub-soils, stone & rock)

EPA Ref. N^o:
(Office use only)

This document does not purport to be and should not be considered a legal interpretation of the provisions and requirements of the Waste Management Acts 1996 to 2008.

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Environmental Protection Agency
Application for a Waste Licence

WASTE MANAGEMENT ACTS 1996 to 2008

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INTRODUCTION

A valid application must contain the information prescribed in the Waste Management (Licensing) Regulations 2004 (SI No. 395 of 2004). **The applicant is strongly advised to read the *Application Guidance Notes for Waste Soils Recovery Facilities*, available from the EPA. For the purposes of this application form the term ‘Soils Recovery Facility’ is intended to mean a facility for the recovery, via land reclamation/redevelopment, of uncontaminated natural earth-forming materials such as soil, sub-soils, stone & rock.**

The applicant must conform to the format set out in the guidance notes for applications. Each page of the completed application form must be numbered, e.g. *page 5 of 4* etc. Also duplicated pages from the application form should be uniquely numbered, e.g. page 5(i) of 45 etc. **The basic information should for the most part be supplied in the spaces given in application form** and any supporting documentation should be supplied as attachments, as specified. Consistent measurement units must be used throughout.

The applicant should note that the application form has been structured so that it requires information to be presented in an order of progressive detail.

When it is found necessary, additional information may be provided on supplementary attachments which should be clearly cross-referenced with the relevant sections in the main document.

While all sections in the application form may not be relevant to the activity concerned, the applicant should look carefully through all aspects of the form and provide the required information, in the greatest possible detail.

All maps/drawings/plans must be no larger than A3 size and scaled appropriately such that they are clearly legible. In exceptional circumstances, where A3 is considered inadequate, a larger size may be requested by the Agency.

Information supplied in this application, including supporting documentation will be put on public display and open to inspection by any person. Should the applicant consider information to be confidential, this information should be submitted in a separate enclosure bearing the legend “*In the event that this information is deemed not to be held as confidential, it must be returned to*”. In the event that information is considered to be of a confidential nature, then the nature of this information, and the reasons why it is considered confidential (with reference to the “Access to Information on the Environment” Regulations) should be stated in the Application Form, where relevant.

It should be noted that it will not be possible to process or determine the application until the required documents have been provided in sufficient detail and to a satisfactory standard.

CHECKLIST

Articles 12 and 13 of the Waste Management (Licensing) Regulations, 2004 (S.I. No. 395 of 2004) set out the information which must, in all cases, accompany a waste licence application. In order to ensure that the application fully complies with the legal requirements of Articles 12 and 13 of the 2004 Regulations, all applicants should **complete** the following checklist.

In each case, refer to the attachment number(s) of your application which contain(s) the information requested in the appropriate sub-article.

Article 12(1) In the case of an application for a waste licence, the application shall -

- (a) give the name, address and, where applicable, any telephone number and telefax of the applicant (and, if different, the operator of the facility concerned), the address to which correspondence relating to the application should be sent and, if the applicant or operator is a body corporate, the address of its registered office or principal office,

LOCATION	Attachment B.1	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (b) give the name of the planning authority in whose functional area the relevant activity is or will be carried on,

LOCATION	Attachment B.3	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (c) in the case of a discharge of any trade effluent or other matter (other than domestic sewage or storm water) to a sewer of a water services authority, give the name of the water services authority in which the sewer is vested or by which it is controlled,

LOCATION	Not Applicable	
CHECKED	Applicant <input type="checkbox"/>	Official <input type="checkbox"/>

- (d) give the location or postal address (including where appropriate, the name of the townland or townlands) and the National Grid reference of the facility or premises to which the application relates,

LOCATION	Attachment B.2	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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(e) describe the nature of the facility or premises concerned, including the proposed capacity of the facility or premises,

LOCATION	Attachment B.7	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(f) specify the class or classes of activity concerned, in accordance with the Fourth Schedules of the Act,

LOCATION	Attachment B.7	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(g) specify, by reference to the relevant European Waste Catalogue codes as presented by Commission Decision 2000/532/EC of 3 May 2000, the quantity and nature of the waste or wastes which will be treated, recovered or disposed of,

LOCATION	Attachment B.7	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(h) specify the raw and ancillary materials, substances, preparations, fuels and energy which will be utilised in or produced by the activity,

LOCATION	Attachment G.1	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(i) describe the plant, methods, processes, ancillary processes, abatement, recovery and treatment systems and operating procedures for the activity,

LOCATION	Attachment G.1	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(j) provide information for the purpose of enabling the Agency to make a determination in relation to the matters specified in paragraphs (a) to (g) of section 40(4) of the Act,

LOCATION	Attachment L.1,L.2	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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- (k) give particulars of the source, location, nature, composition, quantity, level and rate of emissions arising from the activity and, where relevant, the period or periods during which such emissions are made or are to be made,

LOCATION	Attachment E.1,E.3,E.4	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (l) give details, and an assessment of the effects, of any existing or proposed emissions on the environment, including any environmental medium other than those into which the emissions are, or are to be made, and of proposed measures to prevent or eliminate or, where that is not practicable, to limit or abate such emissions,

LOCATION	Attachment C.2	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (m) identify monitoring and sampling points and indicate proposed arrangements for the monitoring of emissions and the environmental consequences of any such emissions,

LOCATION	Attachment F.2,F.3,F.5,F.6,F.7	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (n) describe any proposed arrangements for the prevention, minimisation and recovery of waste arising from the activity concerned,

LOCATION	Attachment C.2	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (o) describe any proposed arrangements for the off-site treatment or disposal of solid or liquid wastes,

LOCATION	Not Applicable	
CHECKED	Applicant <input type="checkbox"/>	Official <input type="checkbox"/>

- (p) describe the existing or proposed measures, including emergency procedures, to prevent unauthorised or unexpected emissions and minimise the impact on the environment of any such emission,

LOCATION	Attachment J	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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- (q) describe the proposed measures for the closure, restoration, remediation or aftercare of the facility concerned, after the cessation of the activity in question,

LOCATION	Attachment K	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (r) give particulars of such financial provision as is proposed to be made by the applicant to fulfil any financial commitments or liabilities that may arise, having regard to section 53(1) of the Act,

LOCATION	Not Applicable	
CHECKED	Applicant <input type="checkbox"/>	Official <input type="checkbox"/>

- (s) in the case of an activity which gives rise or could give rise to an emission into an aquifer containing the List I and II substances specified in the Annex to Council Directive 80/68/EEC of 17 December 1979, describe the existing or proposed arrangements necessary to give effect to Articles 3,4,5,6,7,8,9 and 10 of the aforementioned Council Directive,

LOCATION	Not Applicable	
CHECKED	Applicant <input type="checkbox"/>	Official <input type="checkbox"/>

- (t) include a non-technical summary of information provided in relation to the matters specified in paragraphs (a) to (t) of this sub-article,

LOCATION	Attachment F.3,F.4	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

Article 12(4) Without prejudice to Article 13(1) and (2), an application for a licence shall be accompanied by -

- (a) a copy of the relevant page of the newspaper(s) in which the notice in accordance with article 6 has been published,

LOCATION	Attachment B.6	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (b) a copy of the text of the notice or notices erected or fixed in accordance with article 7,

LOCATION	Attachment B.6	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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(c) where appropriate, a copy of the notice given to a local planning under article 9,

LOCATION	Attachment B.6	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(d) a copy of such plans (appropriately scaled and no larger than A3 size), including a site plan or plans and location map or maps, and such other particulars, reports and supporting documentation as are necessary to identify and describe, as appropriate -
 (i) the position of the notice in accordance with article 7,

LOCATION	Attachment B.6	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(ii) the point or points from which emissions are made or are to be made, and

LOCATION	Attachment E	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(iii) the point or points at which monitoring and sampling are undertaken or are to be undertaken,

LOCATION	Attachment F	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(e) such fee as is appropriate having regard to the provisions of articles 40 and 41.

INCLUDED Y/N	Attachment B.7.3	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

Article 12(5)(a) & (b) An application shall comprise 1 signed original of the application and 1 hardcopy plus 2 copies of all files in electronic searchable PDF format on CD-Rom.

HARDCOPIES PROVIDED Y/N	Y	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

CD OF PDF FILES PROVIDED? Y/N	Y	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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Article 13 Where a development requires an Environmental Impact Assessment to be carried out, 1 signed original and 1 hardcopy of the environmental impact statement plus 15 copies in electronic searchable PDF format on CD-ROM should accompany this application.

EIA REQUIRED ? Y/N	N		
CHECKED	Applicant	<input checked="" type="checkbox"/>	Official <input type="checkbox"/>
2 HARD COPIES OF EIS INCLUDED ? Y/N	N		
CHECKED	Applicant	<input checked="" type="checkbox"/>	Official <input type="checkbox"/>
15 CD versions of EIS, as PDF files, PROVIDED? Y/N	N		
CHECKED	Applicant	<input checked="" type="checkbox"/>	Official <input type="checkbox"/>

For inspection purposes only. Consent of copyright owner is required for any other use.

PROCEDURES

It is recommended that pre-application consultation with the Agency is undertaken before a formal submission of the waste licence application.

The procedure for making and processing of applications for waste licences, and for the processing of reviews of such licences, appear in the Waste Management (Licensing) Regulations 2004 (S.I. No. 395 of 2004), as amended, and are summarised below. The application fees that shall accompany an application are listed in the Second Schedule to the Regulations.

Prior to submitting an application the applicant must publish in a local newspaper, and erect on site, a notice of intention to apply. An applicant, other than a local authority in whose functional area the development is located, must also notify the Local Planning Authority, in writing, of their intention to apply.

An application for a licence must be submitted on the appropriate form (available from the Agency) with the correct fee, and should contain relevant supporting documentation as attachments. The application should be based on responses to the form, supporting written text and the appropriate use of tables and drawings. Where point source emissions occur, a system of unique reference numbers should be used to denote each emission point. These should be simple, logical, and traceable throughout the application.

The application form is divided into a number of sections of related information. The purpose of these divisions being to facilitate both the applicant and the Agency in the provision of the information and its assessment. Attachments should be clearly numbered, titled and paginated and must contain the required information as set out in the application form. Additional attachments may be included to supply any further information supporting the application. Any references made should be supported by a bibliography.

All questions should be answered. No two waste management facilities are exactly the same and hence each application will require different information. It is therefore possible that some of the sections of this application form may not be relevant to the activity concerned. **Where information is requested in the application form, which is not relevant to the application, the words “not applicable” should be clearly written on the form. The abbreviation “N/A” should not be used.**

Additional information may need to be submitted beyond that which is explicitly requested on this form. Any references made should be supported by a bibliography. The Agency may request further information if it considers that its provision is material to the assessment of the application. Advice should be sought from the Agency where there is doubt about the type of information required or the level of detail.

Information supplied in this application, including supporting documentation will be put on public display and be open to inspection by any person. **Should the applicant**

consider information to be confidential, then the nature of this information, and the reasons why it is considered confidential should be clearly stated in an attachment to the Application Form. This information should be submitted in a separate enclosure bearing the legend “In the event that this information is deemed not to be held as confidential, it must be returned to (representative of the applicant)”.

Applicants should be aware that a contravention of the conditions of a waste licence is an offence under Section 39 of the Waste Management Acts 1996 to 2008.

The provision of information in an application for a waste licence which is false or misleading is an offence under Section 45 of the Waste Management Acts 1996 to 2008.

Note: Drawings. The following guidelines are included to assist applicants:

- All drawings submitted should be title, dated and signed.
- All Drawings must be numbered uniquely in numerical sequence (starting at 1) throughout the application (i.e. Drawing 1, Drawing 2 etc.).
- They should indicate a scale and the **direction of north**.
- All drawings should generally be to a scale of between 1:20 to 1:500, depending upon the degree of detail needed to be shown and the size of the facility. Drawings delineating the boundary can be to a smaller scale of between 1:1000 to 1:10560, but must clearly and accurately present the required level of detail. Drawings showing the site location can be to a scale of between 1:50 000 to 1:126 720. All drawings should, however, be A3 or less and of an appropriate scale such that they are clearly legible. Provide legends on all drawings and maps as appropriate.

The provision of information in an application for a waste licence, which is false or misleading, is an offence under s45 of the Acts.

SECTION A NON-TECHNICAL SUMMARY

A Non-Technical Summary is to be submitted. The summary should include information on those aspects outlined in the Guidance Note and must comply with the requirements of Article 12 (1) (u) of the Waste Management (Licensing) Regulations, S.I. 395 of 2004.

The Non-Technical Summary should form **Attachment A.1**.

SECTION B GENERAL

B.1 Applicant's Details

Name*: DOK Quarrystone Ltd.

Address: Garranmore,

Cashel,

Co.Tipperary

Tel: 087-2514090

Fax:

e-mail:

* This should be the name of the applicant which is current on the date this Waste Licence Application is lodged with the Agency. It should be the name of the legal entity (which can be a limited company or a sole trader). A trading/business name is not acceptable.

Name and Address for Correspondence

Only application documentation submitted by the applicant and by the nominated person will be deemed to have come from the applicant.

Name: Muiris O'Suilleabháin

Address: Muiris O'Suilleabháin & Associates

The Granary,

Church Street,

Cahir,

Co.Tipperary.

Tel: 052-7443454

Fax: 052-7445772

e-mail: moseng@eircom.net

Address of registered or principal office of Body Corporate (if applicable)

Address: Garranmore,

Cashel,

Co.Tipperary.

Tel: 087-2514090

Fax:

e-mail:

If the applicant is a body corporate, the following information must be attached as **Attachment B1:**

- a) a Certified Copy of the Certificate of Incorporation or Memorandum and Article of Association;
- b) the Company's Registration Number from the Companies Registry Office; and
- c) a list of the Company Directors.

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State the interest of the applicant in the land which is subject to the application.
The applicant is (please check):

Landowner	<input type="checkbox"/>
Lessee	<input checked="" type="checkbox"/>
Prospective Purchaser	<input type="checkbox"/>
Other (please specify)	

Name and address of all occupiers of the land on which the Activity is situated (if different from applicant named above).

Name: DOK Quarrystone Ltd.

Address: Garranmore,
Cashel,
Co.Tipperary.

Tel: 087-2514090

Fax:

e-mail:

Name and address of the current* owner(s) and lessees of the land, buildings and ancillary plant on which the activity is or will be situated (if different from applicant named above).

An appropriately scaled drawing(≤A3) showing the above details should be included in Attachment B1.

Name: Not Applicable

Address:

Tel:

Fax:

e-mail:

*Current at the time the application is submitted

B.2 Location of Activity

Name: DOK Quarrystone

Address*: Garranmore,
Cashel,
Co.Tipperary.

Tel: 087-2514090

Fax:

e-mail:

* Include any townland

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National Grid Reference (8 digit 4E,4N)	2101E, 1439N
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Location maps ($\leq A3$), appropriately scaled, with legible grid references should be enclosed in **Attachment B.2**. The site boundary must be outlined on the map in colour.

B.3 Planning Authority

Give the name of the planning authority in whose functional area the activity is or will be carried out.

Name: South Tipperary Co. Council

Address: Planning Section,
South Tipperary Co.Council,
Co.Hall,
Emmet Street.
Clonmel,
Co.Tipperary.

Tel: 052-6134455

Fax: 052-6124355

Has the Planning Authority received written notification from the applicant of the application to the Environmental Protection Agency for a Waste Licence under Article 9 of the Waste Management (Licensing) Regulations?

Planning Authority notified	Yes <input checked="" type="checkbox"/>
	No <input type="checkbox"/>

Planning Permission relating to this application:

has been obtained	<input checked="" type="checkbox"/>
is being processed	<input type="checkbox"/>
is not yet applied for	<input type="checkbox"/>
is not required	<input type="checkbox"/>

Local Authority Planning File Reference N^o:	06/1651
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B.3.1 Environmental Impact Statement (EIS)

Is an Environmental Impact Statement (EIS) required for this activity¹?

¹ Waste Disposal or Recovery activity >25,000 tonnes per annum requires an EIS (S.I. No. 349 of 1989: European Communities (Environmental Impact Assessment) Regulations, 1989.)

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EIS required	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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If yes, a copy of the EIS should accompany the waste licence application.

Attachment B.3 should contain *the most recent* planning permission, including a copy of *all* conditions, and the required copies of any EIS should also be enclosed. For existing activities, **Attachment B.3** should also contain copies of the most recent waste licence and any permits in force at the time of submission. Where planning permission is not required for the development, provide reasons, relevant correspondence, *etc.* If a certification/declaration of exemption applies, please state this and supply a copy of the certificate/declaration of exemption.

B.4 Water Services Authority

In the case of a discharge of any trade effluent or other matter (other than domestic sewage or storm water) to a sewer of a water services authority or other body, give the name of the water services authority in which the sewer is vested or by which it is controlled and the waste water treatment plant (if any) to which the sewer discharges.

Name: Not Applicable

Address:

Tel:

Fax:

The applicant must enclose, as **Attachment B.4**, a copy of any effluent discharge licence and/or agreement between the applicant and the body with responsibility for the sewer.

B.5 Other Authorities

The applicant should tick the appropriate box below to identify whether the activity is located within the Shannon Free Airport Development Company (SFADCo.) area.

Within SFADCo. Area	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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The applicant should indicate the **Health Services Executive Region** where the activity is or will be located.

Name: South Eastern Region

Address: Lacken,

Dublin Rd,

Kilkenny,

Co.Kilkenny.

Tel: 056-7784100

Fax:

B.6 Notices and Advertisements

Articles 6 and 7 of the Waste Management (Licensing) Regulations 2004 requires all applicants to advertise the application in a newspaper and by way of a site notice. See *Guidance Note*.

Attachment B.6 should contain a copy of the site notice and an appropriately scaled drawing ($\leq A3$) showing its location on site. **The original application must include the complete newspaper in which the advertisement was placed.** The relevant page of the newspaper containing the advertisement should be included with the original and three copies of the application.

B.7 Type of Waste Activity, Tonnages & Fees

B.7.1 Specify the class or classes of activity in Table B.7.1, in accordance with the Fourth Schedule to the Waste Management Acts 1996 to 2008, to which the application relates (check the relevant boxes and mark the principal activity with a 'P').

Attachment B.7 should identify the principle activity and include a brief technical description of each of the other activities specified. **There can only be one principal activity.**

TABLE B.7.1 FOURTH SCHEDULE OF THE WASTE MANAGEMENT ACTS 1996 TO 2008

FOURTH SCHEDULE Waste Recovery Activities	Y/N
2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).	
4. Recycling or reclamation of other inorganic materials.	
10. The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.	Y/P
11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.	
12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.	
13. Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.	

TABLE B.7.2 MAXIMUM ANNUAL TONNAGE

The maximum annual tonnage of wastes to be handled at the site should be indicated. Identify the total capacity and expected lifetime (years) of the facility or activity.

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Maximum Annual Tonnage (tpa)	24,000
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B.7.3 FEES

State which fee is being submitted as per Part I of the Second Schedule of the Waste Management (Licensing) Regulations 2004, S.I. No. 395 of 2004.

Waste Activity	Fee
Recovery of Waste (4)	€10,000 (New application)

B.8 ARTICLE 11 DECLARATION ON TYPE OF WASTE AUTHORISATION

State whether the Environmental Protection Agency has issued a declaration under Article 11 of the Waste Management (Facility Permit and Registration) Regulations 2007, as amended, in relation to the type of authorisation required for the proposed activity.

Article 11 Declaration	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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If yes, **Attachment B.8** should include a copy of the declaration.

SECTION C MANAGEMENT OF THE FACILITY

Advice on completing this section is provided in the *Guidance Note*.

C.1 Technical Competence and Site Management

This information should form **Attachment C 1**.

Details of the applicant’s experience and qualifications, along with that of other relevant employees, should be summarised as shown below. Statements of duties, responsibilities, experience and qualifications should be submitted for each position named below. Additional information, including the management structure and an organisational chart, should be included in **Attachment C 1**.

Name	Position	Duties and Responsibilities	Experience /Qualifications
Donal O’Keeffe	Facility Manager	Liaise with Regulatory Authorities; Ensure compliance with waste management consents; Management of site, clients, contractors, plant and human resources.	3 years experience managing existing waste facility

C.2 Environmental Management System

Attachment C 2 should contain an outline of the Environmental Management System (EMS) details proposed.

C.3 Hours of Operation

Attachment C 3 should contain details of the proposed hours of operation for the waste facility.

- (a) Proposed hours of operation.
- (b) Proposed hours of waste acceptance/handling.
- (c) Any other relevant hours of operation expected.

SECTION D INFRASTRUCTURE & OPERATION

D.1 Infrastructure

Complete the following table detailing the site infrastructure. **Attachment D 1** should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.1. Additional advice on completing this section is provided in the application *Guidance Note*.

Table D.1. Infrastructure		y/n	Comments
D.1.a	Site security arrangements including gates and fencing	Y	See EMP
D.1.b	Designs for site roads	Y	See EMP
D.1.c	Design of hardstanding areas	Y	See EMP
D.1.d	Plant	N	
D.1.e	Weighbridge	Y	See EMP
D.1.f	Wheel-wash	N	
D.1.g	Laboratory facilities (if proposed)	Y	See EMP
D.1.h	Design and location of fuel storage areas	Y	See EMP
D.1.i	Waste quarantine areas	Y	See EMP
D.1.j	Waste inspection areas	N	
D.1.k	Traffic control	N	
D.1.l	Sewerage and surface water drainage infrastructure	N	
D.1.m	All other services	Y	See EMP
D.1.n	Plant sheds, garages and equipment compound	N	
D.1.o	Site accommodation	N	
D.1.p	Any other waste recovery infrastructure	N	
D.1.q	Any other infrastructure	N	

D.2 Facility Operation

In **Attachment D 2** describe the plant, methods, processes and operations of the waste facility, as required by the *Application Guidance Notes for Waste Soils Recovery Facilities*.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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SECTION E EMISSIONS

Give particulars of the source, location, nature, composition, quantity, level and rate of emissions arising from the activity and, where relevant, the period or periods during which such emissions are made or are to be made.

The applicant should address in particular any emission point where the substances listed in the Schedule of S.I. 394 of 2004, as amended, are emitted.

E.1 Emissions to Surface Waters

Attachment E.1 Tables E.1(i) and E.1(ii) should be completed where relevant.

E.2 Emissions to Sewer (Not for Sanitary Wastes)

Attachment E.2 Tables E.2(i) and E.2(ii) should be completed, where relevant.

E.3 Noise Emissions

Give particulars of the source, location, nature, level, and the period or periods during which the noise emissions are made or are to be made.

Table E.3(i) should be completed, as relevant, for each source.

Supporting information should form **Attachment E.3**

E.4 Environmental Nuisances

Attachment E.4 should contain the appropriate documentation. Information provided should follow the sequence, and use the headings as relevant established in Table E.4. Additional advice on completing this section is provided in the *Guidance Note*.

TABLE E.4 ENVIRONMENTAL NUISANCES

Dust Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Traffic Control	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Road Cleansing	Control method specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
	Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

SECTION F CONTROL & MONITORING

F.1 Treatment, Abatement and Control Systems

Describe the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the facility. Details of treatment/abatement systems (air and effluent emissions) should be included, together with appropriately scaled schematics ($\leq A3$) as appropriate.

For each Emission Point identified, complete Table F.1 of the Annex, and include detailed descriptions and appropriately scaled schematics ($\leq A3$) of all abatement systems.

Attachment F.1 should contain any supporting information.

F.2 Groundwater Protection

Describe the existing or proposed arrangements necessary to give effect to Articles 3,4,5,6, and 7 of Council Directive 80/68/EEC of 17 December 1979 on the protection of groundwater against the risk of pollution by certain dangerous substances, and Article 6 of Directive 2006/118/EC on the protection of groundwater against pollution and deterioration.

Supporting information should form Attachment F.2

F.3 - F.7 Monitoring and Sampling Points

Programmes for environmental monitoring should be submitted as part of the application. These programmes should be provided as Attachments F.3 to F.7 and meet the advice published by the Agency in the relevant BAT Note.

Include details of monitoring/sampling locations and methods.

F.3 Air (Dust)

Monitoring Arrangements specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

F.4 Surface Water

Monitoring of surface water shall be carried out at not less than two points, one upstream from the waste facility and one downstream.

Monitoring Arrangements specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

F.5 Sewer Discharge

Monitoring of sewer discharge shall be carried out at the point specified by the water services authority/Agency.

Monitoring Arrangements specified	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>
Attachment included	yes <input type="checkbox"/>	no <input type="checkbox"/>	not applicable <input checked="" type="checkbox"/>

F.6 Groundwater

Monitoring Arrangements specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

F.7 Noise

Monitoring Arrangements specified	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Monitoring points identified, (plus 12-figure grid references)	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>

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SECTION G RESOURCES USE & ENERGY EFFICIENCY

G.1 Raw Materials, Substances, Preparations and Energy

Attachment G.1 should contain a list of all raw, product and ancillary materials, substances, preparations, fuels and energy which will be utilised by the activity. Information on any insecticides, herbicides or rat poisons etc. should also be provided with their respective data and safety sheets. The Standard Forms, provided in Annex 1, should be used in the description of these materials, substances, etc., where relevant.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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SECTION H MATERIALS HANDLING

H.1 Waste Types and Quantities – Existing & Proposed

Provide an estimation of the quantity of waste likely to be handled in relation to each class of activity applied for. This information should be included in Table H.1(a).

TABLE H.1(A) QUANTITIES OF WASTE IN RELATION TO EACH CLASS OF ACTIVITY APPLIED FOR

Waste Management Act 4th Schedule (Recovery) Activities	
Class of Activity Applied for	Quantity (tpa)
Class 2	
Class 4	
Class 10	24,000
Class 11	
Class 12	
Class 13	

In Table H.1 (B) provide the annual amount of waste handled/to be handled at the facility. The tonnage per annum should be given of that expected for the life of the licence.

TABLE H.1 (B) WASTE TYPES AND QUANTITIES

WASTE TYPE	TONNES PER ANNUM (existing)	TONNES PER ANNUM (proposed)	TOTAL (over life of site) tonnes
Soils, subsoils, stone & rock	22,800	22,800	273,600
Construction and Demolition (used in engineering activities)	1,200	1,200	14,400
Other (e.g. Compost for restoration)			

Attachment H.1 should contain any relevant additional information, including relevant EWC codes for expected waste streams.

It should be noted that an applicant may be issued with a licence which restricts the type of wastes which may be deposited.

H.2 Waste Acceptance Procedures

Procedures for checking waste loads as they arrive on site must be included. These should follow the requirements of the Agency's Waste Acceptance Manual. A copy of these procedures and other associated documentation should be included as **Attachment H.2**.

H.3 Waste Handling

Waste handling and the operating procedures used at the facility including waste treatment processes should be described in **Attachment H.3**. Included in the attachment should be information on the plant used on site and on the methods and processes for handling waste on-site.

H.4 Waste Arisings

Details of all waste materials generated on the site including, name, description and nature as well as the source(s) should be identified.

SECTION I EXISTING ENVIRONMENT & IMPACT OF THE FACILITY

Detailed information is required to enable the Agency to assess the existing environment. This section requires the provision of information on the ambient environmental conditions at the site prior to the commencement of waste management activities or prior to the receipt of a review application.

Where development is proposed to be carried out, being development which is of a class for the time being specified under Article 24 (First Schedule) of the Environmental Impact Assessment Regulations, the information on the state of the existing environment should be addressed in the EIS. **In such cases, it will suffice for the purposes of this section to provide adequate cross-references to the relevant sections in the EIS.**

I.1. Assessment of Impact on Receiving Surface Water

Describe the existing environment in terms of water quality with particular reference to environmental quality standards or other legislative standards. Table I.2(i) should be completed

Provide a statement whether or not emissions of main polluting substances (as defined in the Schedule of S.I. 394 of 2004) to water are likely to impair the environment.

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Full details of the assessment and any other relevant information on the receiving environment should be submitted as **Attachment I.1.**

I.2. Assessment of Impact of Waste Water Discharge (Not for sanitary effluent).

Give summary details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Full details of the assessment and any other supporting information should form **Attachment I.2.**

I.3 Assessment of ground and/or groundwater condition

Summary details of known ground and/or groundwater contamination, historical or current, on or under the site must be given.

Full details including all relevant investigative studies, assessments, or reports, monitoring results, location and design of monitoring installations, appropriately scaled plans/drawings ($\leq A3$), documentation, including containment engineering, remedial works, and any other supporting information should be included in **Attachment I.3.**

I.4 Noise Impact.

Give details and an assessment of the impacts of any existing or proposed emissions on the environment, including environmental media other than those into which the emissions are to be made.

Ambient noise measurements

Complete Table I.6(i) in relation to the information required below:

- (i) State the maximum Sound Pressure Levels which will be experienced at typical points on the boundary of the operation. (State sampling interval and duration).
- (ii) State the maximum Sound Pressure Levels which will be experienced at typical noise sensitive locations, outside the boundary of the operation.
- (iii) Give details of the background noise levels experienced at the site in the absence of noise from this operation.

Prediction models, appropriately scaled maps ($\leq A3$), diagrams and supporting documents, including details of noise attenuation and noise proposed control measures to be employed, should form **Attachment I.4**.

I.5 Assessment of Ecological Impacts & Mitigation Measures

The ecology of the site and the surrounding area should be assessed in the vicinity of the waste facility. An assessment of the ecology should form **Attachment I.5**. Comprehensive guidelines are contained in the *Application Guidance Notes for Waste Soils Recovery Facilities*.

SECTION J ACCIDENT PREVENTION & EMERGENCY RESPONSE

Describe the existing or proposed measures, including emergency procedures, to minimise the impact on the environment of an accidental emission or spillage.

Also outline what provisions have been made for response to emergency situations outside of normal working hours, i.e. during night-time, weekends and holiday periods.

Describe the arrangements for abnormal operating conditions including start-up, leaks, malfunctions or momentary stoppages.

Supporting information should form **Attachment J**.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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**SECTION K REMEDIATION, DECOMMISSIONING, RESTORATION
AND AFTERCARE**

Describe the existing or proposed measures to minimise the impact on the environment after the activity or part of the activity ceases operation, including provision for post-closure care of any potentially polluting residuals.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
----------------------------	--	------------------------------------	--

SECTION L STATUTORY REQUIREMENTS

L.1 Section 40(4) WMA

Indicate how all the requirements of Section 40(4)[(a) to (i)] of the Waste Management Acts 1996 to 2008 will be met.

Applicants should also describe how the proposed facility will comply with the requirements of BAT. In particular reference should be made to the considerations referred to in Annex IV of Council Directive 96/61/EC concerning integrated pollution prevention and control and to EPA published Landfill Manuals as may be relevant.

Attachment L.1 should contain the documentation requested above, along any relevant additional information.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
----------------------------	---	-----------------------------	---

L.2 Fit and Proper Person

The WMA in Section 40(4)(d) specifies that the Agency shall not grant a licence unless it is satisfied that the applicant (if the applicant is not a local authority) is a fit and proper person. Section 40(7) of the WMA specifies the information required to enable a determination to be made by the Agency.

- Indicate whether the applicant or other relevant person has been convicted under the Waste Management Acts 1996 to 2008, the EPA Act 1992 to 2007, the Local Government (Water Pollution) Acts 1977 and 1990 or the Air Pollution Act 1987.
- Provide details of the applicant's technical knowledge and/or qualifications, along with that of other relevant employees (Link to Section C.1 of the application).
- Provide information to show that the person is likely to be in a position to meet any financial commitments or liabilities that may have been or will be entered into or incurred in carrying on the activity to which the application relates or in consequence of ceasing to carry out that activity (Link to Section K of the application).

Supporting information should be included as **Attachment L.2** with reference to where the information can be found in the application.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
----------------------------	---	-----------------------------	---

SECTION M DECLARATION

Declaration

I hereby make application for a licence / revised licence, pursuant to the provisions of the Waste Management Acts 1996 to 2008 and Regulations made thereunder.

I certify that the information given in this application is truthful, accurate and complete.

I give consent to the EPA to copy this application for its own use and to make it available for inspection and copying by the public, both in the form of paper files available for inspection at EPA and local authority offices, and via the EPA's website. This consent relates to this application itself and to any further information, submission, objection, or submission to an objection whether provided by me as Applicant, any person acting on the Applicant's behalf, or any other person.

Signed by : _____
(on behalf of the organisation)

Date : 12 – July 2010

Print signature name: Donal O'Keeffe

Position in organisation : Managing Director

Company stamp or seal:

ANNEX 1 STANDARD FORMS

Standard forms are provided in this section for the recording and presentation of environmental monitoring and site investigation results

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Waste Soils Recovery Facility Application Form

TABLE E.1(i): EMISSIONS TO SURFACE WATERS
(One page for each emission)

Emission Point:

Emission Point Ref. N ^o :	
Source of Emission:	
Location :	
Grid Ref. (10 digit, 5E,5N):	
Name of receiving waters:	
Flow rate in receiving waters:	_____ m ³ .sec ⁻¹ Dry Weather Flow _____ m ³ .sec ⁻¹ 95%ile flow
Available waste assimilative capacity:	kg/day

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Emission Details:

(i) Estimated volume to be emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³		

Waste Soils Recovery Facility Application Form

TABLE E.1(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission (1 table per emission point)

Emission point reference number : _____

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	

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Waste Soils Recovery Facility Application Form

TABLE E.2(i): EMISSIONS TO SEWER (Not for Sanitary Effluent)(One page for each emission)

Emission Point:

Emission Point Ref. N ^o :	
Location of connection to sewer :	
Grid Ref. (10 digit, 5E,5N):	
Name of sewage undertaker:	

Emission Details:

(i) Volume to be emitted			
Normal/day	m ³	Maximum/day	m ³
Maximum rate/hour	m ³		

(ii) Period or periods during which emissions are made, or are to be made, including daily or seasonal variations (*start-up /shutdown to be included*):

Periods of Emission (avg)	_____ min/hr _____ hr/day _____ day/yr
---------------------------	--

Waste Soils Recovery Facility Application Form

TABLE E.2 (ii): EMISSIONS TO SEWER (Not for Sanitary Effluent) - Characteristics of the emission (1 table per emission point)

Emission point reference number : _____

Parameter	Prior to treatment				As discharged				% Efficiency
	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	Max. hourly average (mg/l)	Max. daily average (mg/l)	kg/day	kg/year	

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Waste Soils Recovery Facility Application Form

Table E.3(i): NOISE EMISSIONS - Noise sources summary sheet

Source	Emission point Ref. No	Equipment Ref. No	Sound Pressure ¹ dBA at reference distance	Octave bands (Hz) Sound Pressure ¹ Levels dB(unweighted) per band								Impulsive or tonal qualities	Periods of Emission
				31.5	63	125	250	500	1K	2K	4K		

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1. For items of plant sound power levels may be used.

TABLE F.3 to F.7 : EMISSIONS MONITORING AND SAMPLING POINTS
Air (dust) emissions, Surface Water, Emissions to Sewer, Groundwater, Noise) - (1 table per media)

Emission Point Reference No(s). : _____

Parameter	Monitoring frequency	Accessibility of Sampling Points

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Table G.1 Details of Process related Raw Materials used on the site

Ref. N° or Code	Material/ Substance ⁽¹⁾	CAS Number		Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use		

Notes: 1. In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.

Include MSDS documentation for raw materials tabled.

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Table I.1(i) Ambient SURFACE WATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____

Parameter	Results (mg/l)				Sampling method ² (grab, drift etc.)	Normal Analytical Range ²	Analysis method / technique
	Date	Date					
pH							
Electrical conductivity EC							
Ammoniacal nitrogen NH ₄ -N							
Chemical oxygen demand							
Biochemical oxygen demand							
Dissolved oxygen DO							
Calcium Ca							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							

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Waste Soils Recovery Facility Application Form

Surface Water Quality (Sheet 2 of 2)

Parameter	Results (mg/l)				Sampling method (grab, drift etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date					
Nickel Ni							
Potassium K							
Sodium Na							
Sulphate SO ₄							
Zinc Zn							
Total alkalinity (as CaCO ₃)							
Total organic carbon TOC							
Nitrite NO ₂							
Nitrate NO ₃							
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Phosphate PO ₄							

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Table I.3(i) Ambient GROUNDWATER QUALITY

(Sheet 1 of 2) Monitoring Point/ Grid Reference: _____

Parameter	Results (mg/l)				Sampling method (composite etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date				
pH							
Electrical conductivity EC							
Ammoniacal nitrogen NH ₄ -N							
Dissolved oxygen DO							
Calcium Ca							
Cadmium Cd							
Chromium Cr							
Chloride Cl							
Copper Cu							
Cyanide Cn, total							
Iron Fe							
Lead Pb							
Magnesium Mg							
Manganese Mn							
Mercury Hg							
Nickel Ni							
Potassium K							
Sodium Na							

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GROUNDWATER QUALITY (SHEET 2 OF 2)

Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date				
Phosphate PO ₄							
Sulphate SO ₄							
Zinc Zn							
Total alkalinity (as CaCO ₃)							
Total organic carbon TOC							
Arsenic As							
Barium Ba							
Boron B							
Fluoride F							
Phenol							
Phosphorus P							
Selenium Se							
Silver Ag							
Nitrite NO ₂							
Nitrate NO ₃							
Faecal coliforms (/100mls)							
Total coliforms (/100mls)							
Water level (m OD)							

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Table I.4(i) Ambient Noise Assessment

Third Octave analysis for noise emissions should be used to determine tonal noises

	National Grid Reference	Sound Pressure Levels		
	(5N, 5E)	L(A) _{eq}	L(A) ₁₀	L(A) ₉₀
1. SITE BOUNDARY				
Location 1:				
Location 2:				
Location 3:				
Location 4:				
2. NOISE SENSITIVE LOCATIONS				
Location 1:				
Location 2:				
Location 3:				
Location 4:				

NOTE: All locations should be identified on accompanying drawings.

Section AAttachment A1Non-Technical Summary**Description of proposed activity**

The proposed activity is to take place at an existing quarry. The applicant wishes to fill the exhausted sections of the quarry with inert soil and stone in order to return the quarry to its pre excavated state. The proposed future use of the site after these sections have been filled is pastoral grazing.

Environmental impacts

For the proposed activity at the above named premises the following environmental impacts have been identified:

- Water
- Air
- Noise

Description of proposed and existing mitigation measures*Existing*

To date several mitigation measures are in place. These include water monitoring points which are monitored monthly. This is carried out by an externally licensed body. The water monitoring points have been established as follows. One upstream, one downstream of the waster facility and three intermediate points. Please see attachment F1 for location of water monitoring points.

Dust monitoring points have been established on-site and will remain in place for the duration of this activity. In order to militate against the spreading of dust, all travel roads will receive damping during certain weather conditions. Please see attachment F1 for the location of dust monitoring points and travel roads.

Proposed

The intermediate points will change during the period of this activity as fill areas are completed. In order to continue the monitoring process a minimum of three water monitoring points will be kept for the duration of the activity.

Noise levels are not to exceed the maximum permissible Db level of the BAT guidance note on noise.

Normal operating hours of activity

Proposed normal operating hours for this activity at:

DOK Quarrystone LTD.
Garranmore,
Cashel,
Co.Tipperary.

are as follows:

08:00 – 18:00	Monday – Friday
08:00 – 16:00	Saturday
No activity	Sunday

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Number 374056

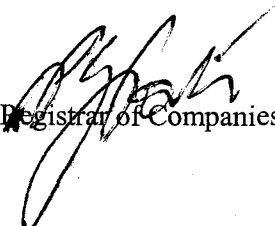
Certificate of Incorporation

I hereby certify that

DOK QUARRYSTONE LIMITED

is this day incorporated under
the Companies Acts 1963 to 2001,
and that the company is limited.

Given under my hand at Dublin, this
Tuesday, the 29th day of July, 2003


for Registrar of Companies

We hereby certify that the within has
been compared with and is a true
copy of the original

McCarthy Looby & Company
McCarthy Looby & Co.
Solicitors

4th June 2010.

Attachment B-1

Company Registration Number

The company registration number for DOK Quarrystone Ltd. at the companies' registration office is:

374056

List of Directors of DOK Quarrystone Ltd

Director & Secretary - Donal O'Keeffe – Garranmore, Cashel, Co. Tipperary

Director - Seamus Kennedy – Garranmore, Cashel, Co. Tipperary

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Attachment B-1**Interests in Land**

The lands within the application site at Garranmore, Cashel, Co.Tipperary are owned by Mr. Donal O’Keeffe. The application site in question is shown in attachment B1 and outlined in Red. The Land holding of Mr. Donal O’Keeffe is shown in blue on the location map also in attachment B1.

The application site is leased to DOK Quarrystone LTD of which Mr. Donal O’Keeffe is the principle stakeholder.

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Surveyed 1995-1998
Revised 2001-2003
Levelled 1985

Real PLACE Map



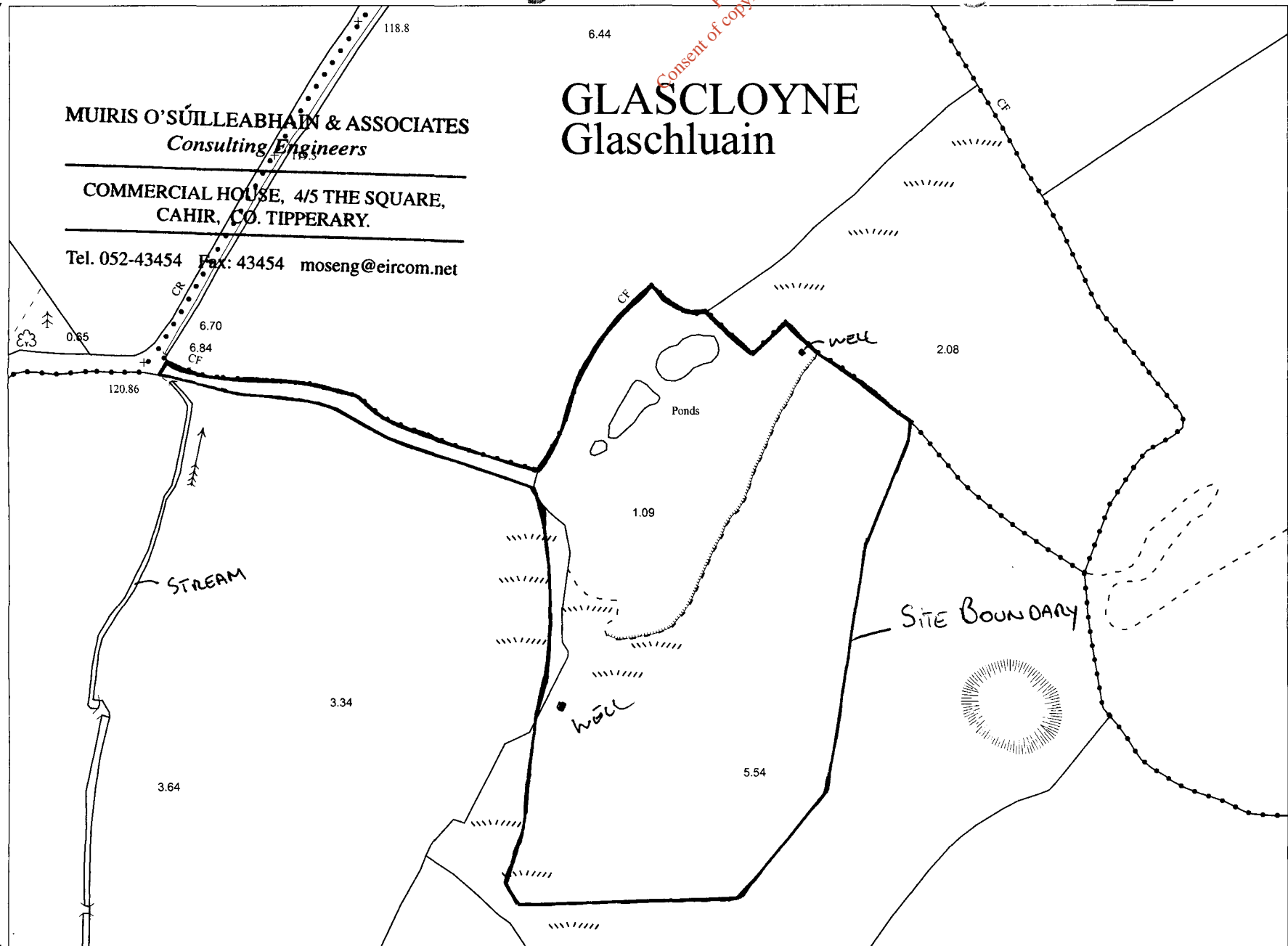
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MUIRIS O'SÚILLEABHAIN & ASSOCIATES
Consulting Engineers

COMMERCIAL HOUSE, 4/5 THE SQUARE,
CAHIR, CO. TIPPERARY.

Tel. 052-43454 Fax: 43454 moseng@eircom.net

GLASCLOYNE Glascluain

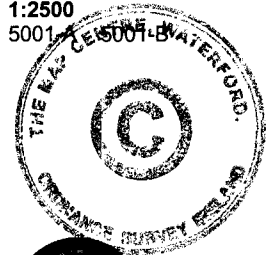


ITM CENTRE PT COORDS
610144,643988

DESCRIPTION

MAP SHEETS

1:2500
5001



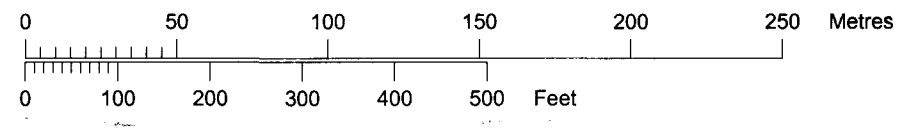
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On behalf of Ordnance Survey Ireland,
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Scale:- 1:2,500
Scála:- 1:2,500



Plot Ref. No. 1019629_2_6
Plot Date 22 APR-2005



Record PLACE Map



Revised 1954
Levelled 1954

145240

145240

ITM CENTRE PT. COORDS

610147,643987

DESCRIPTION

MAP SHEETS

6 inch
TY053 TY061

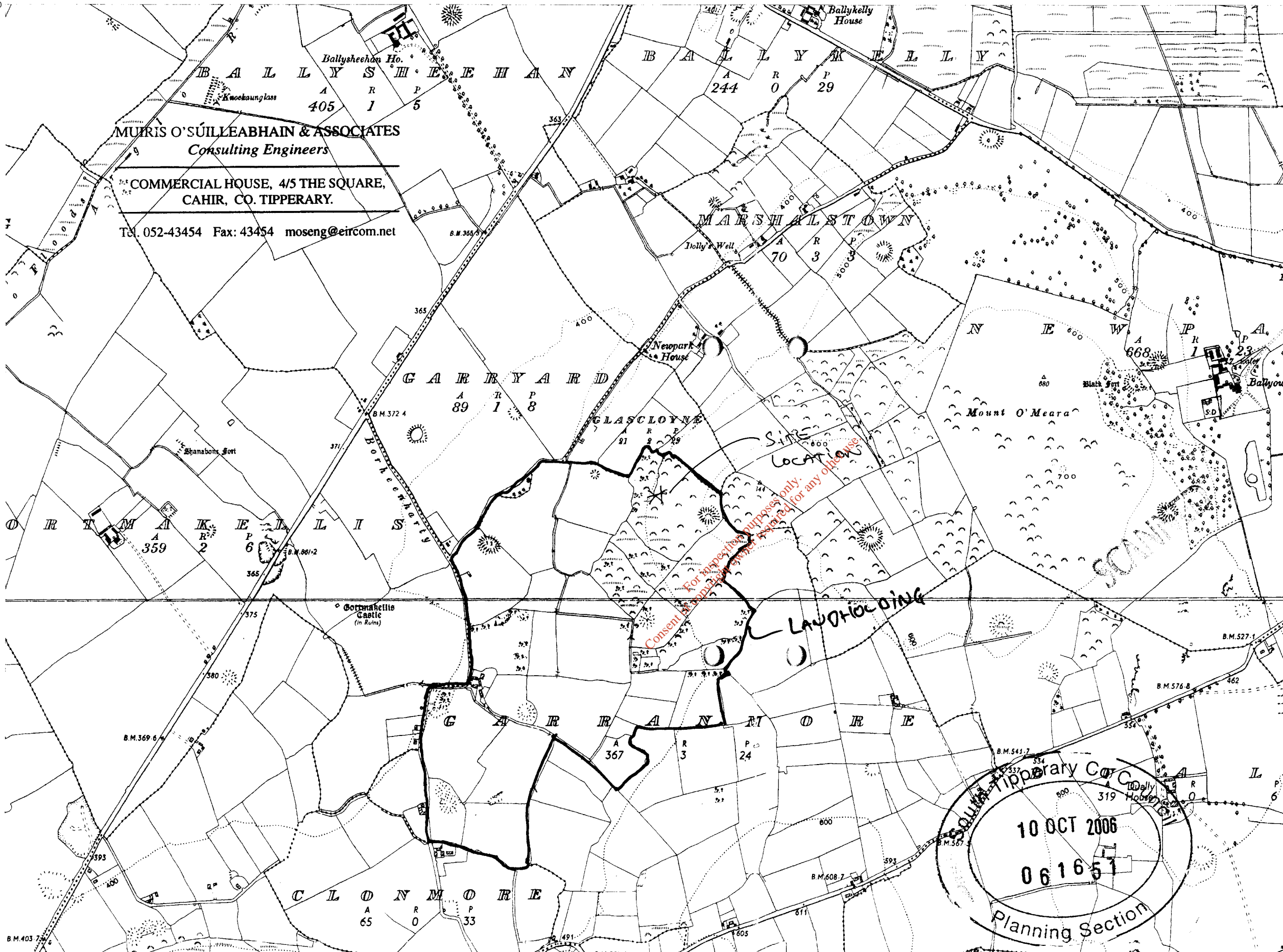


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John Roberts Square, Waterford City
On behalf of Ordnance Survey Ireland,
Phoenix Park, Dublin 8.

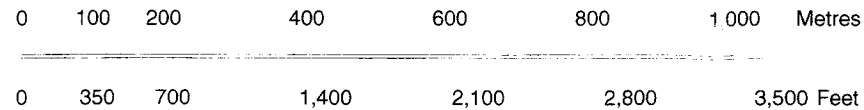
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Scale:- 1:10,560
Scála:- 1:10,560



Plot Ref. No. 1143979_1
Plot Date 07-SEP-2006

33

SOUTH TIPPERARY COUNTY COUNCIL

PLANNING & DEVELOPMENT ACT 2000 TO 2006

PLANNING & DEVELOPMENT REGULATIONS 2001 TO 2006

NOTIFICATION OF A GRANT

TO:

DOK Quarrystone Ltd
c/o Muiris O'Suilleabhain B E
Mullaney Suite
Commercial House
4/5 The Square
Cahir, Co Tipperary

PLANNING REGISTER NUMBER:06/1651
APPLICATION RECEIPT DATE: 10/10/2006

In pursuance of the powers conferred upon it by the above mentioned Acts, South Tipperary County Council have by Order decided to grant PERMISSION FOR RETENTION to the above named, for the development of land, namely:-

retain existing quarry and associated works. A part of this quarry was previously granted permission under Planning Ref P 3 15867

At Garranmore Cashel Co Tipperary

in accordance with the plans and documentation lodged with this application hereby **GRANT** the PERMISSION FOR RETENTION subject to 20 conditions. It should be noted that this PERMISSION FOR RETENTION will expire on:

___ day of _____.

Signed on behalf of
South Tipperary County Council. *Rote Oddy*
County Secretary

Date: 23/5/2007

NOTE:

The permission herein granted shall, on the expiration of the period indicated above, cease to have effect as regards:-

- (1) In case the development to which the permission relates is not commenced during the period, the entire development and
- (2) In case such development is so commenced, so much thereof as is not completed within that period.

It should be noted that the grant of outline permission does **NOT AUTHORISE** commencement of works. Permission consequent on the grant of an Outline Permission **must** be obtained **before** any works commence.

You must submit a COMMENCEMENT NOTICE in accordance with the Building Control Regulations 1991 prior to starting any work as a result of this Grant of Permission, except in the case of a permission for retention.

BC

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SCHEDULE

1 Save where modified by the following conditions, the proposed development shall be developed and operated in accordance with the drawings and documentation submitted with the planning application on 15th September 2006, revised documentation received on 16th March 2007 in response to notice requiring further information, dated, 30th November 2006.

Reason:- In the interest of proper planning and sustainable development.

2 Within one month of the date of this grant of permission, the developer shall pay to the Planning Authority a development contribution in the total of **€34,485 (subject to an increase on the 1st of March each year)** in respect of the provision of improved road infrastructure.

(i) the amount of the development contribution shall be in accordance with the following class as detailed in the current South Tipperary Development Contribution Scheme:

Class 3		€ x sq.m	Area sq. m	Total	Amount Payable €
Use of land for the extraction of stone	Roads	€2.09	16,500	€34,485	€34,485
					€34,485

- (ii) The contribution payable will be based on the amount of contribution applicable at the date of payment and not on the rate of contribution in existence at the date of issue of the grant of permission.
- (iii) Where the contribution is not paid in accordance with the terms of this condition, any outstanding amounts due to South Tipperary County Council shall be paid together with interest that may have accrued for the period while withheld by the person required to pay the contribution. Interest shall be calculated in accordance with the overdraft rate of interest for the time being.

Reason: As a contribution towards the cost of the provision of *improved road infrastructure*, in accordance with Development Contribution Scheme for the period 1 March 2004 to 28 February 2009 which was adopted, pursuant to Section 48 of the Planning and Development Act, 2000 by resolution of South Tipperary County Council, dated 1 December 2003. Such improvements will facilitate this development.

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SCHEDULE

- 3 The final floor level of the quarry shall not exceed 140m AOD in depth as detailed in the documentation submitted to the Planning Authority on 16th March 2007 save where otherwise permitted by a grant of permission issued by the Planning Authority or An Bord Pleanala.

Reason:- In the interests of orderly development, clarity and public health.

- 4 A landscaping plan shall be submitted to the planning authority for written approval, this should include time frames and proposals for screening of machinery and works on site if/ when it is relocated to a visible location; detail buffering proposed between quarry site and national monument TS 053-069; full landscaping proposal following the closure of the quarry.

Reason:- In the interests of orderly development, clarity and public health.

- 5 Free field noise levels attributable to the quarry (when assessed at the nearest noise sensitive location) shall not exceed 55 dB(A) (60 minute, $L_{A,T}$) between 08:00 hours and 19:00 hours Monday to Friday and between the hours of 08:00 hours and 16:00 hours on Saturdays. The free-field noise levels attributable to the quarry shall not exceed 45 dB(A) (15 minute $L_{A,T}$) at any other time. The noise sensitive location shall be taken as the nearest dwelling unless otherwise agreed with the Planning Authority.

Reason: To protect the amenities of the properties in the vicinity of the area.

- 6 In the event of noise nuisance or noise complaints the operator shall take all measures deemed necessary by the Local Authority to ensure that noise levels do not exceed the limits specified.

Reason: To protect the amenities of the properties in the vicinity of the area.

- 7 The vibration levels from future blasting shall not exceed a peak velocity of 12 mm/second measured in any three mutually orthogonal directions at any sensitive location.

Blasting shall not give rise to air overpressure values at sensitive locations which are in excess of 125 dB (Lin) _{max peak}.

A suitable monitoring programme shall be developed to assess the impact of quarry blasts. Details of this programme shall be agreed in advance with the Planning Authority. A survey and an assessment shall be undertaken during every blast and as a minimum this shall involve the following elements:

- The measurement and assessment of peak particle velocity and air overpressure at six locations by way of a dedicated survey. The monitoring locations shall include the most vulnerable receptor positions by reason of their proximity and/or ground/ site conditions and all monitoring positions shall be agreed in advance of the survey by the PA.

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SCHEDULE

- A log of meteorological conditions, including cloud cover, precipitation, temperature, humidity and wind speed and direction for the duration of the noise measurements.
- Consideration shall be given to current vibration assessment guidance published by the Environmental Protection Agency or other competent authority.
- Details of the proposed blast assessment techniques, the proposed instrumentation; calibration records and the competent persons responsible for monitoring shall be agreed in advance of the monitoring programme commencing.
- A detailed report on the blast assessment shall be prepared by a competent person and submitted to the planning Authority within 2 weeks of the survey work.
- At least two days advance notice of the date and time of any blasting operations to be carried out on the site shall be given to the planning authority and to the occupants of all properties located within 500 metres of the location of such blasting operations.
- Advance warning signals indicating that blasting operations are about to commence and “all clear” signals indicating that the blasting operations have been completed shall be given (by means of sirens or other audible devices operated by the developer) to members of the public within 500 metres of the location of such blasting operations. The signalling arrangements shall be as agreed between the developer and the planning authority.

An annual review of all blast monitoring data shall be undertaken by a competent and qualified person, the results of which shall be submitted to the Planning Authority within two weeks of completion.

Reason: To protect the amenities of the properties in the vicinity of the area.

- 8 Activities on site shall not give rise to ambient air and dust deposition values, which exceed the limits specified in Table 1. A monthly survey of dust emissions shall be undertaken to provide for compliance with the limits specified in this condition. A minimum of six monitoring stations shall be agreed with the Planning Authority, selected by reason of their proximity, (and direct visibility) to dust generating sources, their elevation, absence of interference (e.g. road dust) or other reason particular to the activity and the surrounding environment.

Table 1.

Parameter	Limit Value	Monitoring frequency
Total dust deposition	350mg/m ² .day	Monthly mean, continuous monitoring as per VDI 2119, part 2.

Reason: To protect the amenities of the properties in the vicinity of the area.

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SCHEDULE

- 9 In the event of dust nuisance or complaints the operator shall take all measures deemed necessary by the Local Authority to ensure that dust deposition does not exceed the limit specified.
Reason: To protect the amenities of the properties in the vicinity of the area.
- 10 The settlement pond(s) shall be cleaned out on a regular basis, to be agreed with the Planning Authority. Details of settlement silt storage shall be submitted to the Planning Authority for agreement and approval within three months of registration.
Reason: In the interest of public health and to ensure a proper standard of development.
- 11 Effluent discharging from the settlement lagoon should not exceed the following Emission Limit Values:
- | | |
|----------------------------|----------|
| pH | <9.0 |
| Biological Oxygen Demand | 25 mg/l |
| Total suspended solids | 35 mg/l |
| Nitrate (NO ₃) | 50 mg/l |
| Chemical Oxygen Demand | 100 mg/l |
| Total Hydrocarbons | 1 mg/l |
- The wastewater discharge should be monitored monthly and the results submitted to the Environment Section.
Reason: In the interest of public health and to ensure a proper standard of development.
- 12 The developer shall protect groundwater sources from spillages or leakage from bitumen tanks, fuel storage tanks and any other process on site which would endanger groundwater sources. Appropriate collection tanks or chambers with concrete or other suitable surface shall be provided to collect the spillage or leakage and drain same to the holding tanks or chambers. Details in this regard shall be submitted to and agreed with the Planning Authority within one month of the date of this grant of permission.
Reason: In the interest of public health.
- 13 All refuelling of vehicles shall only take place on appropriate designated paved areas, which shall be of such a construction so as to retain any spillages which may occur.
Reason:- In the interests of public health.
- 14 Within one month of the date of this grant of permission, a wheel-wash facility shall be installed at the entrance to the proposed development site from the public road. All vehicles leaving the site shall exit via this wheel-wash facility which shall be maintained to the satisfaction of the Planning Authority.
Reason: To protect the amenities of the area.

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SCHEDULE

15 No surface water, contaminated water, dust or other matter shall be discharged / deposited on any public road.

Reason: In the interest of public health.

16 Warning signs shall be provided as appropriate on the approaches to entrances to the proposed development on the applicants property, to the satisfaction of the planning authority and maintained at all times in satisfactory condition throughout the life of the development. Details of same shall be submitted to the planning authority within three months of the date of this notification and the signs shall be erected within three months of the applicant receiving the written approval of the planning authority for same.

Reason: In the interest of traffic safety and which works are considered necessary for the purposes of the development.

17 Entrance gates to the site shall be locked at all times when the facility is closed/ unsupervised, so as to prevent the entry of un-authorized persons and vehicles entering the site.

Reason: In the interests of public safety and which works are considered necessary for the purpose of the development.

18 Activities on site shall be controlled to ensure that no specific activity gives rise to a point emission of particulate matter exceeding 50 mg/m³ measured at the nearest suitable monitoring point to the activity to accurately assess the level of emission from the activity. In the event that monitoring of particular activities generating particulate matter is required, full details of this monitoring shall be pre-agreed with the Planning Authority (including the persons undertaking the monitoring, the monitoring sites, frequency of the monitoring, scope of operation of the particular activity/activities during the monitoring.

Reason: To ensure effective monitoring of the development.

19 Within six months of the date of this order, the developer shall lodge with the Planning Authority a cash deposit, a bond of an insurance company, or other security to secure the satisfactory completion and restoration of the site, coupled with an agreement empowering the planning authority to apply such security or part thereof to the satisfactory completion and restoration of the site. The security to be lodged shall be as follows:

- (a) an approved insurance company bond in the sum of €100,000 or
- (b) a cash sum of €100,000 to be applied by the planning authority at its absolute discretion if such restoration and completion works are not provided to its satisfaction.

Reason: To ensure satisfactory completion and restoration of the site.

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SCHEDULE

20 A suitably qualified archaeologist is required to carry out an archaeological assessment of the development site. No sub-surface work should be undertaken in the absence of the archaeologist without his/her express consent.

The archaeologist is required to carry out any relevant documentary research and inspect the site.

The archaeologist is required to examine the impact of the existing quarry on the visual amenity of the adjacent Recorded Monuments or known archaeological sites on the quarry site. In carrying out this they shall consider all views of the monument from and to adjacent approach roads and views of the monument from and to the quarry.

In particular, the exposed quarry faces shall be examined in order to assess whether any archaeological material hitherto unidentified is exposed.

Having completed the work, the archaeologist is required to submit a written report to the Planning Authority and to the Heritage and Planning Division of the Department of Environment, Heritage and Local Government. Where archaeological material/features are shown to be present, preservation in situ, preservation by record (excavation) or monitoring may be required.”

Reason: To ensure the continued preservation (either in situ or by record) of places, caves, sites, features or other objects of archaeological interest.

sr

**South Tipperary County Council
County Hall
Emmet St.
Clonmel
Co. Tipperary**



WASTE PERMIT

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Waste Permit Reference Number: WP/ 038 - 01

Permit Holder: Donal O' Keffe

**Location of Facility: Garranmore,
Cashel
Co. Tipperary.**

Permit Expires: 36 months from date of issue

INTRODUCTION

This introduction is not part of the waste permit and does not purport to be a legal interpretation of the waste permit.

This permit is for the filling of 3.5 Hectares at Garranmore, Cashel, Co. Tipperary

The permit sets out in detail the conditions under which Donal O' Keeffe is required to operate and manage this facility.

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WASTE MANAGEMENT (PERMIT) REGULATIONS 1998

WASTE PERMIT No. WP/038 - 01

In pursuance of the powers conferred on it by the Waste Management Act 1996 and the Waste Management (Permit) Regulations 1998, (S.I. No. 165 of 1998), South Tipperary County Council hereby grants a Waste Permit under article 5(1) of the said regulations to **Donal O' Keefe, Garranmore, Cashel, Co. Tipperary** to carry on the recovery of waste (other than hazardous waste) at a facility (other than a facility for the composting of waste where the amount of compost and waste held at the facility exceeds 1000 cubic meters at any time) at **Garranmore, Cashel, Co. Tipperary** in accordance with the plans and particulars furnished with the application and subject to conditions, with the reasons therefore and the associated schedules attached thereto set out in the permit. The period of validity of this permit is for **three** years from the date of issue.

The permitted Waste Activity in accordance with the Fourth Schedule of the Waste Management Act 1996 is:

Class 10. The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.

The permitted Waste Activity in accordance with the First Schedule of the Waste Management (Permit) Regulations 1998 is:

Activity 5: The recovery of waste (other than Hazardous Waste) at a facility (other than a facility for the composting of waste where the amount of compost and waste held at the facility exceeds 1000 cubic metres at any time).

It is the responsibility of permit holder to ensure that the permitted waste activities are carried on in accordance with the General Conditions specified in the Regulations and quoted below, and the Schedule of Conditions attached herein.

The General Conditions specified in the Regulations are as follows:

- (a) The activity concerned shall not cause, or be likely to cause, environmental pollution.
- (b) Any emissions from the activity concerned will not result in the contravention of any relevant standard, including any standard for an environmental medium, or any relevant emission limit value, prescribed under any enactment.
- (c) The best available technology will be used to prevent or eliminate or, where that is not practicable, to limit, abate or reduce an emission from the activity concerned.

Signed: _____

A.O. Environment

Date of Issue

NOTE: the granting of this permit, and any condition imposed by it, does not exempt the holder of the permit from the need to comply with the statutory obligations of any other legislation, including Water Pollution, Air Pollution, Litter, Planning and Development.

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Decision & Reasons for the Decision

South Tipperary County Council is satisfied that, on the basis of the information available, that the waste activity, or activities, listed hereunder will comply with the requirements of Section 5 (2) of the Waste Management (Permit) Regulations, 1998.

In reaching this decision, South Tipperary County Council has considered the application and supporting documentation received from the applicant, all submissions received from other parties and the report of its officer.

Part I Schedule of Activities Permitted

In pursuance of the powers conferred on it by the Waste Management Act 1996 and the Waste Management (Permit) Regulations 1998, (S.I. No. 165 of 1998), South Tipperary County Council hereby grants a Waste Permit under article 5(1) of the said regulations to Donal O' Keeffe, Garranmore, Cashel, Co. Tipperary to carry on the recovery of waste (other than hazardous waste) at a facility (other than a facility for the composting of waste where the amount of compost and waste held at the facility exceeds 1000 cubic meters at any time) at Garranmore, Cashel, Co. Tipperary in accordance with the plans and particulars furnished with the application and subject to conditions, with the reasons therefore and the associated schedules attached thereto set out in the permit

Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996

Class 10	The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system
	This activity is limited to topsoil, subsoil and rubble.

PART II CONDITIONS

CONDITION 1: SCOPE OF THE PERMIT

- 1.1 This permit is for the purposes of waste permitting under the Waste Management (Permit) Regulations, 1998 only and nothing in this permit shall be construed as negating the permit holder's statutory obligations or requirements under any other enactments or regulations, including the Water Pollution Acts, the Air Pollution Acts, the Waste Management Act, the Litter Pollution Act, or the Planning And Development Acts.
- 1.2 This Waste Permit is issued under the Waste Management (Permit) Regulations 1998 to Donal O' Keeffe for lands at; Garranmore, Cashel, Co. Tipperary.
- 1.3 This permit is granted for a period not **exceeding 36 months from the date of issue**.
- 1.4 For the purpose of these conditions the site is defined as the area highlighted in red on drawing "DOK, Site Layout" submitted with the permit application and shall take place only as specified in the application as modified and/or controlled by the terms of this permit.
- 1.5 Only rubble, topsoil, subsoil waste shall be used to reclaim the site. This acceptance is limited to 60,000 tonnes per annum. All material shall be deposited inside the site boundary. The permit holder shall ensure adequate steps are taken to prevent acceptance of any other waste types.
- 1.6 Any materials not complying with condition 1.5 shall be removed from the site and disposed of at an alternative approved facility.
- 1.7 The site shall be adequately secured so as to avoid "flytipping". Any such "flytipped". The owner of the site shall remove loads of waste immediately to an appropriate facility.
- 1.8 The permit holder shall not allow any over-spill of waste outside the site perimeter or into surface water drains or watercourses
- 1.9 The permit holder shall be responsible for ensuring that the waste activities shall be controlled, operated and maintained in strict accordance with the terms of the application as modified and/or controlled by the conditions attached to the permit. The permit holder shall establish procedures to ensure that corrective action is taken should any condition of this permit not be complied with South Tipperary County Council shall be notified of any such breach by telephone/fax, and full details shall be forwarded in writing on the next working day.
- 1.10 The permit holder shall notify South Tipperary County Council within seven days of
- the imposition of any requirement on the permit holder by order under section 57 or 58 of the Waste Management Act, 1996 or
 - any conviction of the permit holder for an offence prescribed under section 34(5) or 40(7) of the Waste Management Act, 1996.
- 1.11 This Permit shall be operated in compliance the Waste Management Act 1996, the Waste Management (Permit) Regulations 1998 (SI No. 165 1998) and all other relevant current and future legislation.

- 1.12 The site shall be finished in accordance with Drawing No. ST 05-02-02 submitted with the permit application or as amended by South Tipperary County Council.

Reason: To clarify the scope of this permit

CONDITION 2: MANAGEMENT OF THE FACILITY

- 2.1 The permit holder shall acquaint all staff, employees, lessees and agents, including replacement personnel, of the provisions and conditions of this permit.
- 2.2 A copy of the permit must be kept on site at all times.
- 2.3 The permit holder to ensure that there is no unauthorised access shall control access to the site. Recovery activities shall only be undertaken by persons authorised to do so by the permit holder. Employees shall receive training adequate to enable them to properly execute their tasks in relation to pollution control.
- 2.4 Waste Acceptance Hours and Hours of Operation.
The facility shall only be operated during the hours of 8.00 and 18.00 Monday to Friday inclusive and 8.00 and 14.00 on Saturdays. Waste shall not be accepted at the facility on Sundays or Bank Holidays.
- 2.5 Facility Notice Board
The permit holder shall maintain a Facility Notice Board on the facility so that it is legible to persons outside the main entrance to the facility. The minimum dimensions of the board shall be 1200mm by 750mm. The board shall clearly show:
- the name and telephone number of the facility ;
 - the normal hours of opening;
 - the name of the permit holder;
 - the emergency out of hours contact telephone number;
 - the permit reference number; and that South Tipperary County council was the issuing body.
- 2.6 South Tipperary County Council shall have unrestricted access to the premises at all reasonable times on production of identification, if required, for the purpose of its functions under the Waste Management Act, 1996.

Reason: To make provision for the proper management of the activity on a planned basis having regard to the desirability of ongoing assessment, recording and reporting of matters affecting the environment.

CONDITION 3: NUISANCES, EMISSIONS AND ENVIRONMENTAL IMPACTS

- 3.1 The permit holder shall take adequate precautions to prevent undue noise, fumes, dust, grit, untidiness, and other nuisances during the course of the works, which would result in a significant impairment of or a significant interference with amenities or the environment beyond the site boundary

- 3.2 The road network in the vicinity of the site shall be kept free of any debris caused by vehicles entering or leaving the facility. Any such debris shall be removed without delay. The permit holder shall take adequate steps to ensure that no material of any sort can fall or be blown from vehicles delivering waste to the site.
- 3.3 Vehicles shall not be allowed to queue or park on the public road. Provision shall be made within the confines of the site for turning of vehicles. Adequate turning area is to be provided within the site, which is capable of accommodating the tipper trucks using the site.
- 3.4 The permit holder shall ensure that waste activities on the site shall be carried out in such a manner so as not to have an adverse effect on the drainage of adjacent lands, on watercourses, on field drains or any other drainage system including the public roadway.
- 3.5 Any loose litter accumulated within the site and its environs shall be removed and appropriately disposed of at an appropriate facility on a daily basis.

Reason: To provide for the control of nuisances and emissions and to minimise the impact of the activity on the environment.

CONDITION 4: ENVIRONMENTAL MONITORING

- 4.1 Authorised staff of South Tipperary County Council shall have access to the site at all reasonable times, for the purpose of their functions under the Waste Management Act 1996, including such inspections, monitoring and investigations as are deemed necessary by the council.
- 4.2 If so requested by South Tipperary County Council, the permit holder shall at his own expense make available a suitable excavator for the purposes of excavating trial holes in the waste material deposited on site, and shall arrange for the excavator to carry out whatever works are required by the Council on the site.
- 4.3 If so requested by South Tipperary County Council, the permit holder shall, at his own expense, carry out such further investigations and monitoring of the facility as required by the Council. The scope, detail, and programme, including report structure and reporting schedule, for any such investigations and monitoring shall be in accordance with any written instructions issued by the Council. In the event of pollution of waters in the vicinity of the site, or of leachate discharge onto adjoining lands, input of waste onto the site shall cease, and remedial measures shall be carried out immediately as directed by the Council.
- 4.4 The licensee shall carry out such monitoring and at such locations and frequencies as set out in *Schedule C: Monitoring* of this Waste Permit. Monitoring locations to be agreed with the Council. Unless otherwise specified by this Waste Permit, all environmental monitoring shall commence no later than six months after the date of grant of this Waste Permit. Drawings of all monitoring locations must be submitted to South Tipperary County Council within three months from date of issue of this permit.
- 4.5 The licensee shall amend the frequency, locations, methods and scope of monitoring as required by this Waste Permit only upon the written instruction of the County Council and shall provide such information concerning such amendments as may be requested in writing by the County Council. Such alterations shall be carried out within any timescale nominated by the County Council.

- 4.6 The licensee shall provide safe and permanent access to all on-site sampling and monitoring points and to off-site points as required by the County Council.

Reason: To provide for the protection of the environment.

CONDITION 5: EMISSIONS

- 5.1. No specified emission from the facility shall exceed the emission limit values set out in *Schedule B: Emission Limits* of this Waste Permit. There shall be no other emissions of environmental significance.
- 5.2. The licensee shall ensure that the activities shall be carried out in a manner such that emissions do not result in significant impairment of, or significant interference with the environment beyond the facility boundary.

Reason: To control emissions from the facility and provide for the protection of the environment

CONDITION 6: RESTORATION AND AFTERCARE

- 6.1 As soon as is practicable following completion of the waste activities, the site shall be seeded and used for agricultural purposes.
- 6.2 Prior to seeding, topsoil shall be spread evenly over the site to a minimum depth, after firming, of 150 – 200 mm. The topsoil shall be good quality, and shall comply with BS 3882: 1991. The topsoil shall not be spread in wet conditions. The topsoil shall be adequately prepared for seeding by raking or harrowing and by rolling. Seed shall be spread at a minimum rate of 30 grams per square metre.

Reason: To provide for the restoration and aftercare of the facility

CONDITION 7: CONTINGENCY ARRANGEMENTS

- 7.1 In the event that any monitoring, sampling or observations indicate that contamination has, or may have, taken place, the operator shall immediately:
- identify the date time and place of contamination
 - carry out an immediate investigation to identify the nature, source and cause of the incident and any emission
 - isolate the source of the emission
 - evaluate the environmental pollution if any
 - identify and execute measures to minimise the emissions and effects thereof

- f) identify and put in place measures to avoid reoccurrence
- g) identify and put in place any other appropriate remedial action, and
- h) maintain a written record of the above.

Reason: To ensure compliance with the conditions of this permit by provision of a satisfactory system of monitoring of emissions.

CONDITION 8: NOTIFICATION AND RECORD KEEPING

- 8.1 All communication with South Tipperary County Council shall be addressed to County Secretary, South Tipperary County Council, County Hall Emmet St., Clonmel, Co. Tipperary.
Telephone (052) 34455, Fax: (052) 24355
- 8.2 The operator shall maintain a written record for each load of waste arriving at the site. The operator shall record and make available at the facility the following details.
- a) Origin of the load
 - b) Date and time of arrival of each load,
 - c) Description of the material in each load;
 - d) The quantity of the materials, estimated in tonnes and recorded in loads;
 - e) Where loads are removed or rejected, details of the date and time of occurrence, the type of material, and the place to which they were removed.
 - f) The names of the carriers and the vehicle registration numbers
- 8.3 The operator shall maintain a written record of all complaints of an environmental nature related to the site. Each such record shall give details of the following.
- a) Date and time of complaint;
 - b) Name of complainant;
 - c) Details of the nature of the complaint;
 - d) Action taken on foot of the complaint;
 - e) Response to each complainant.
- 8.4 The permit holder shall submit a report to South Tipperary County Council, which shall include the information compiled in 3.2 and 3.3 above. In addition, the permit holder shall include in the report a written summary of compliance with all of the conditions attached to the permit. This report shall be submitted for the preceding calendar year by no later than 28 February of each year and/or within one month of waste activities ceasing on the site. The report shall be called an **Annual Environmental Report (AER)**.
- 8.5 The permit holder shall immediately notify South Tipperary County Council by telephone of any incident, which occurs as a result of the activity on the site, and which:
- Has the potential for environmental contamination of surface water or ground water, or
 - Poses an environmental threat to air or land, or
 - Requires an emergency response by the Council

Full details shall be forwarded in writing on the next working day.

8.6 The permit holder shall make all records available to South Tipperary County Council staff at all reasonable times, and shall provide any relevant information when so requested by an authorised person of South Tipperary County Council.

Reason: To provide for the keeping of proper records of the operation of the facility.

CONDITION 9: CHARGES AND FINANCIAL PROVISIONS

9.1 The permit holder shall pay an annual contribution of €500 to South Tipperary County Council towards the cost of inspecting, monitoring or otherwise performing any functions in relation to the permit activity. The Permit Holder shall pay to South Tipperary County Council this amount within 30 days of commencement of activity and thereafter on an annual basis or until work is completed. In the event that the frequency or extent of monitoring or other functions carried out by South Tipperary County Council needs to be increased for whatever reason the permit holder shall contribute such sums as are determined by the LA to defray costs.

Reason: To provide for adequate charges for monitoring and for financial provisions for environmental protection measures.

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SCHEDULE A: Recording and Reporting to South Tipperary County Council

Table A: Recording and Reporting to South Tipperary County Council

Action	Frequency	Due Date
Annual Environmental Report	Annually	28 th February
Record of incidents	As they occur	Within five days of the incident
Water/Dust/Noise Monitoring	As requested by South Tipperary County Council	Within 10 days of being requested.
Inspection of Records	When requested by South Tipperary County Council	Immediately

SCHEDULE B: Emission Limits

B.1 Noise Emissions: (Measured at the monitoring points indicated in Table C.1.1).

Day dB(A) LAeq(30 minutes)	Night dB(A) LAeq(30 minutes)
55	45

B.2 Dust Deposition Limits: (Measured at the monitoring points indicated in Table C.1.1).

Level (mg/m ² /day) ^{Note 1}
350

Note 1: 30 day composite sample with the results expressed as mg/m²/day

SCHEDULE C: Monitoring

Monitoring to be carried out as specified below.

C.1 Monitoring Locations

Monitoring locations shall be those as set out in Table C.1.1

Table C.1.1 Monitoring Locations (all locations to be agreed with the Council)

Noise Stations	Dust Stations
N1	DM1
N2	DM2
N3	DM3

C.2 Noise

Table C.2.1 Noise Monitoring Frequency and Technique

Parameter	Monitoring Frequency	Analysis Method/Technique
L(A) _{EQ} [30 minutes]	Annual	Standard ^{Note 1}
L(A) ₁₀ [30 minutes]	Annual	Standard ^{Note 1}
L(A) ₉₀ [30 minutes]	Annual	Standard ^{Note 1}
Frequency Analysis (1/3 Octave band analysis)	Annual	Standard ^{Note 1}

Note 1: "International Standards Organisation. ISO 1996. Acoustics - description and Measurement of Environmental noise. Parts 1, 2 and 3."

C.3 Dust

Table C.3.1 Dust Monitoring Frequency and Technique

Parameter (mg/m ² /day)	Monitoring Frequency	Analysis Method/Technique
Dust	Twice a year ^{Note 2}	Standard Method ^{Note 1}

Note 1: Standard method VD12119 (Measurement of Dustfall, Determination of Dustfall using Bergerhoff Instrument (Standard Method) German Engineering Institute). A modification (not included in the standard) which 2 methoxy ethanol may be employed to eliminate interference due to algae growth in the gauge.

Note 2: Twice during the period May to September.

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MUIRIS O'SÚILLEABHÁIN & ASSOCIATES
Consulting Engineers

THE GRANARY, CHURCH STREET,
CAHIR, CO. TIPPERARY

Tel: 052-7443454 • Fax: 052-7445772 • moseng@eircom.net

South Tipperary County Council
County Hall,
Clonmel,
Co. Tipperary

05/07/10

A chara,

I am writing on behalf of my client DOK Quarrystone Ltd of Garranmore, Cashel, Co. Tipperary to inform you of my clients intent to apply to the Environmental Protection Agency for a Waste Licence for a Waste Soil Recovery Facility on lands at Garranmore, Cashel, Co. Tipperary.

Regards,

Muiris O'Suilleabháin B. Eng., M.I.E.I.

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APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A
WASTE LICENCE

DOK Quarrystone Ltd of Garranmore, Cashel, Co. Tipperary intends to apply to the Environmental Protection Agency for a waste licence at Garranmore, Cashel, Co. Tipperary (Grid reference ITM – S 610144, 643988).

The development consists of the recovery of inert waste in an existing quarry, the class of activity concerned is Class 10 ‘The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system’ as per the Fourth Schedules of the Waste Management Acts 1996 to 2008.

A copy of the application for the waste licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the application, will, as soon as is practicable after receipt by the Agency, be available for inspection or purchase, at the headquarters of the Agency.

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South Tipperary County Council

Comhairle Contae
Thiobraid Árann Theas

Tender for Energy Efficiency Upgrade Works, Window, Door, Fascia and Soffit Replacement to Local Authority Dwellings

Tenders are invited from competent contractors for the Energy Efficiency Upgrading Works and General Works to 15 No. Local Authority dwellings located throughout the County.

Tender documents can be obtained from the Housing Section, County Hall, Emmet Street, Clonmel on payment of a deposit of €100 for each set of documents. The fee will be returned on receipt of a Bonâ Fide Tender, which is not subsequently withdrawn and the return of the documents.

Tenders, on the prescribed forms in a sealed envelope clearly marked "Tender for Energy Efficiency Upgrade Works, Window, Door, Fascia and Soffit Replacement to Local Authority Dwellings" must be lodged at the Tender Reception Office, not later than **4.00pm on Friday 13th August, 2010.**

The Contractor must comply with all statutory requirements as per the specification.

South Tipperary County Council is subject to the provisions of the Freedom of Information (FOI) Act 1997. If you consider that any of the information specified by you is either commercially sensitive or confidential in nature, this should be highlighted and the reasons for its sensitivity specified. In such cases, the relevant material will in response to the FOI requests be examined in the light of the exemptions provided for in the Act.

The lowest tender or any tender need not necessarily be accepted.

Signed: Clare Curley,
Director of Services,
Housing & Emergency Services,



www.southtippercoco.ie

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE LICENCE

DOK Quarrystone Ltd of Garranmore, Cashel, Co. Tipperary intends to apply to the Environmental Protection Agency for a waste licence at Garranmore, Cashel, Co. Tipperary (Grid reference ITM - S 610144, 643988).

The development consists of the recovery of inert waste in an existing quarry, the class of activity concerned is Class 10 'treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system' as per the Fourth Schedules of the Waste Management Acts 1996 to 2008.

A copy of the application for the waste licence and such further information relating to the application as may be furnished to the Agency in the course of the Agency's consideration of the application, will, as soon as is practicable after receipt by the Agency, be available for inspection or purchase, at the headquarters of the Agency.

Games

The All Ireland Highland Games Novice Championship held in Lisburn on June 25 was won by Ray O'Dwyer, Castle Heights, Carrick-on-Suir.

Ray also entered the Senior All Ireland Championship in Lisburn and finished 2nd overall, losing by one point to Johnny Kelly.

The Senior championship is a three-part series and the next round will be in Dungannon in August and the final round in Maheragh in September.

Congratulations from his home town have been sent to Ray, who will also be defending his title in the Braemar Royal Highland Gathering in Scotland early in September.

Parenting programme in September

The Community Childcare Initiative based at Kickham Street is taking names for a Parenting Programme for September.

The Programme will run for 14 weeks on Thursday mornings for two hours and it offers parents the opportunity to explore parenting issues and help children develop self-discipline. It will also help to promote good communication between parent and child and build their esteem.

The course is free and booking is essential as places are limited. For further information or to register, call (051) 642716 or drop in to the Community Childcare Initiative at 16 Kickham Street.

Day Care Centre says thanks

Carrick-on-Suir Day Care Centre sincerely thanks all who contributed to the recent Church Gate collection in the Clonca/Ramona mack parish.

SITE NOTICE

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE LICENCE

DOK Quarrystone LTD., Garranmore, Cashel, Co.Tipperary INTENDS TO APPLY TO THE ENVIRONMENTAL PROTECTION AGENCY FOR A WASTE LICENCE FOR THE CONTINUED OPERATION OF ITS EXISTING WASTE FACILITY ON LANDS AT GARRANMORE, CASHEL, CO.TIPPERARY (GRID REFERENCE ITM S 610144, 643988). THE WASTE LICENCE PROVIDES FOR

- I. USE OF IMPORTED INERT NATURAL MATERIALS, PRINCIPALLY EXCESS STONES AND/OR BROKEN ROCK TO BACKFILL AND RESTORE A LARGE EXISTING VOID CREATED BY ROCK EXTRACTION;
- II. SEPARATION OF ANY NON-INERT CONSTRUCTION AND DEMOLITION WASTE UNINTENTIONALLY IMPORTED TO SITE PRIOR TO REMOVAL OFF-SITE TO APPROPRIATELY LICENSED WASTE DISPOSAL OR RECOVERY FACILITIES
- III. USE OF SECONDARY AGGREGATE TO CONSTRUCT INTERNAL HAUL ROADS WITHIN THE APPLICATION SITE AND TO BACKFILL EXISTING GROUNDWATER PONDS
- IV. PHASED RESTORATION OF THE BACKFILLED VOID (INCLUDING PLACEMENT OF COVER SOILS AND SEEDING) AND RETURN TO FORMER USE AS AGRICULTURAL GRASSLAND
- V. TEMPORARY STOCKPILING OF TOPSOIL AND SUBSOIL PENDING RE-USE AS COVER MATERIAL FOR PHASED RESTORATION OF THE SITE
- VI. ENVIRONMENTAL MONITORING OF NOISE, DUST, SURFACE WATER AND GROUNDWATER FOR THE DURATION OF THE SITE RESTORATION WORKS.

THE PRINCIPAL ACTIVITY IS CLASS 10 OF THE FOURTH SCHEDULE (THE TREATMENT OF A WASTE ON LAND WITH A CONSEQUENTIAL BENEFIT FOR AN AGRICULTURAL ACTIVITY OR AN ECOLOGICAL SYSTEM).

A COPY OF THE WASTE LICENCE APPLICATION, THE ENVIRONMENTAL IMPACT STATEMENT AND FURTHER INFORMATION RELATING TO THE APPLICATION THAT MAY BE FURNISHED TO THE AGENCY IN THE COURSE OF ITS CONSIDERATION OF THE APPLICATION WILL, AS SOON AS PRACTICABLE AFTER RECEIPT BY THE AGENCY, BE AVAILABLE FOR INSPECTION OR PURCHASE AT THE HEADQUARTERS OF THE AGENCY.

Attachment B7

THIS WASTE LICENCE APPLICATION PROVIDES FOR THE RESTORATION OF A FORMER QUARRY IN THE TOWNLAND OF GARRANMORE, CASHEL, CO.TIPPERARY USING INERT SOILS AND RECYCLED INERT CONSTRUCTION AND DEMOLITION WASTE.

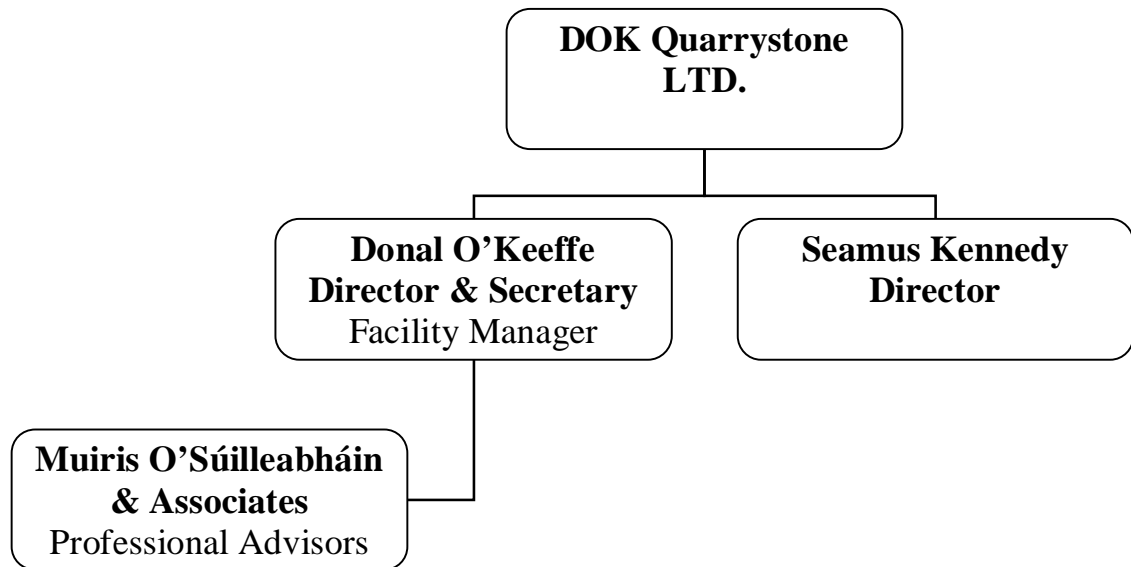
THE PROPOSED RESTORATION SCHEME PROVIDES FOR:

- I. USE OF IMPORTED INERT NATURAL MATERIALS, PRINCIPALLY EXCESS SOIL, STONES AND/OR BROKEN ROCK TO BACKFILL AND RESTORE A LARGE EXISTING VOID CREATED BY ROCK EXTRACTION;
- II. SEPARATION OF ANY NON-INERT CONSTRUCTION AND DEMOLITION WASTE UNINTENTIONALLY IMPORTED TO SITE PRIOR TO REMOVAL OFF-SITE TO APPROPRIATELY LICENSED WASTE DISPOSAL OR RECOVERY FACILITIES
- III. USE OF SECONDARY AGGREGATE TO CONSTRUCT INTERNAL HAUL ROADS WITHIN THE APPLICATION SITE AND TO BACKFILL EXISTING GROUNDWATER PONDS
- IV. PHASED RESTORATION OF THE BACKFILLED VOID (INCLUDING PLACEMENT OF COVER SOILS AND SEEDING) AND RETURN TO FORMER USE AS AGRICULTURAL GRASSLAND
- V. TEMPORARY STOCKPILING OF TOPSOIL AND SUBSOIL PENDING RE-USE AS COVER MATERIAL FOR PHASED RESTORATION OF THE SITE
- VI. ENVIRONMENTAL MONITORING OF NOISE DUST, SURFACE WATER AND GROUNDWATER FOR THE DURATION OF THE SITE RESTORATION WORKS

PRINCIPLE ACTIVITY:

THE PRINCIPAL ACTIVITY IS CLASS 10 OF THE FOURTH SCHEDULE (THE TREATMENT OF ANY WASTE ON LAND WITH A CONSEQUENTIAL BENEFIT FOR AN AGRICULTURAL ACTIVITY OR ECOLOGICAL SYSTEM).

Attachment C1



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- 1.2 PURPOSE AND SCOPE

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- 2.2 LICENCE HOLDER
- 2.3 OPERATOR
- 2.4 SITE DESCRIPTION
- 2.5 OPERATIONAL HOURS
- 2.6 PERMITTED WASTE
- 2.7 DESIGN PHILOSOPHY
- 2.8 LIFE EXPECTANCY
- 2.9 STAFFING AND RESPONSIBILITIES
- 2.10 RECORD KEEPING
- 2.11 ANNUAL REPORT

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- 3.3 HARD STANDING AREAS
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- 4.1 GENERAL

- 4.2 FORMATION LEVELS AND GRADIENTS
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- 4.5 BASAL AND SIDE SLOPE LINER DESIGN
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- 4.8 CAPPING AND RESTORATION

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- 5.1 BACKFILLING/ LAND FILLING ACTIVITIES

6. Restoration and Aftercare

7. Environmental Controls

- 7.1 GENERAL
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- 7.8 ROAD MUD CONTROL

8. Environmental Controls

- 8.1 GENERAL
- 8.2 DUST MONITORING
- 8.3 ECOLOGICAL MONITORING
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- 8.7 METEOROLOGICAL MONITORING
- 8.8 NOISE MONITORING
- 8.9 ODOUR MONITORING
- 8.10 SURFACE WATER MONITORING
- 8.11 STABILITY AND SETTLEMENT MONITORING

9. Health and Safety

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1. Introduction

1.1 Background

THIS ENVIRONMENTAL MANAGEMENT PLAN HAS BEEN PREPARED BY MUIRIS O'SÚILLEABHÁIN & ASSOCIATES IN SUPPORT OF A WASTE LICENCE APPLICATION FOR RESTORATION OF A FORMER GRAVEL PIT AT GARRANMORE, CASHEL, CO.TIPPERARY. THE ENVIRONMENTAL MANAGEMENT PLAN HAS BEEN COMPILED BY LAYING REFERENCE TO THE ENVIRONMENTAL PROTECTION AGENCY LANDFILL MANUAL, "LANDFILL OPERATIONAL PR

1.2 Purpose and Scope

THIS ENVIRONMENTAL MANAGEMENT PLAN (EMP) IS COMPILED FOR CERTAIN MATTERS IN RESPECT OF THE ON-GOING RESTORATION SCHEME AT THE PROPOSED SITE. THIS DOCUMENT IS TO BE DETERMINED OR AMENDED AS THE ACTIVITY PROGRESSES THROUGH DEVELOPMENT AND IMPLEMENTATIONS PROCESSES.

IT IS PROPOSED THAT ANY SUCH AMENDMENTS MADE TO THIS DOCUMENT WILL BE DONE BY THE LICENSEE OR AT THE REQUEST OF THE LICENSING AUTHORITY WHICH SHALL BE SUBJECT TO APPROVAL. NO ADDITIONAL SITE INFRASTRUCTURE WILL BE CONSTRUCTED UNTIL FOR THE APPROVAL OF THIS EMP BY THE RELEVANT AUTHORITIES HAS BEEN ACHIEVED.

A COMPLETE COPY OF THE EMP WILL BE KEPT AT ON SITE AT GARRANMORE, CASHEL, CO.TIPPERARY AND AN ADDITIONAL COPY WILL BE KEPT BY SOUTH TIPPERARY COUNTY COUNCIL (LOCAL AUTHORITY). THE LICENSING AUTHORITY WILL BE PROVIDED WITH A COPY OF THE EMP DOCUMENT AS WILL ANY AMENDMENTS MADE TO THE EMP.

2. Site Management

2.1 Site Location and Name

THE FACILITY CAN BE SEEN ON FIGURE EMP (A), AT NATIONAL GRID REFERENCE 2101E 1439N. THE FACILITY IS TO BE KNOWN AS DOK QUARRYSTONE FACILITY.

2.2 Licence Holder

THE WASTE LICENCE IS TO BE HELD BY:

DONAL O'KEEFFE
GARRANMORE
CASHEL
CO.TIPPERARY

FIGURE EMP (B) SHOWS THE AREA TO WHICH THIS LICENCE APPLIES.

2.3 Operator

DOK QUARRYSTONE LTD. BARES ALL MANAGEMENT AND OPERATIONAL RESPONSIBILITIES FOR THE FACILITY. DOK QUARRYSTONE CORRESPONDENCE DETAILS ARE AS FOLLOWS:

DOK QUARRYSTONE LTD.
GARRANMORE,
CASHEL,
CO.TIPPERARY

087-2514090

2.4 Site Description

THE AREA TO WHICH THE LICENCE APPLIES IS 3.5 HECTARES (8.65 ACRES). THE SITE IS A SPENT GRAVEL QUARRY WHICH IS NO LONGER IN USE FOR GRAVEL EXTRACTION. THE EASTERN SECTION OF THE SITE HAS BEEN BACK FILLED USING INERT NATURAL MATERIALS IN ACCORDANCE WITH SOUTH TIPPERARY COUNTY COUNCIL WASTE PERMIT REF. MWP/038-01. THIS AREA HAS BEEN COMPLETELY FILLED TO ITS ORIGINAL GROUND LEVEL SINCE THE END OF QUARRYING PERIOD.

2.5 Operational Hours

THE PROPOSED RESTORATION WORKS CONSISTS OF THE FOLLOWING ITEMS:

- RECOVERY OF INERT CONSTRUCTION AND DEMOLITION WASTE
- IMPORTATION, PLACEMENT AND COMPACTION OF INERT SOILS AND STONES AND RECYCLED CONSTRUCTION WASTE
- RETURNING SITE TO ORIGINAL LEVELS PRE QUARRY PERIOD FINISHED WITH A PA GRASS FINISH

OPERATIONAL HOURS ARE AS FOLLOWS:

(A) PROPOSED HOURS OF OPERATION

08:00 – 18:00	MONDAY – FRIDAY
08:00 – 16:00	SATURDAY
NO ACTIVITY	SUNDAY

(B) PROPOSED HOURS OF WASTE ACCEPTANCE/HANDLING

09:00 – 17:30	MONDAY – FRIDAY
09:00 – 15:30	SATURDAY
NO ACTIVITY	SUNDAY

NO RESTORATION/ MATERIALS HANDLING OR ACCEPTANCE IS TO TAKE PLACE ON BANK HOLIDAYS.

2.6 Permitted Waste

THE FOLLOWING ITEMS HAVE BEEN IDENTIFIED IN ACCORDANCE WITH THE EUROPEAN CATALOGUE:

EWC Code	Description
17 01 01	CONCRETE
17 01 02	BRICKS
17 01 03	TILES AND CERAMICS
17 01 07	MIXTURE OF CONCRETE BRICKS, TILES AND CERAMICS OTHER THAN THOSE MENTIONED IN 17 01 06
17 05 04	SOIL AND STONES OTHER THAN THOSE MENTIONED IN 17 05 03

2.7 Design Philosophy

THE FACILITY TO BE LOCATED AT GARRANMORE, CASHEL, CO.TIPPERARY IS TO APPLICABLE SO AS TO ENSURE THE ENVIRONMENTAL ISSUES ARE DEALT WITH IN A PROFESSIONAL MANNER.

AND CORRECT MANNER. FOR THE DURATION OF THE LAND FILLING PROCESS IT WILL THAT ONLY INERT LICENSED MATERIALS IS IMPORTED TO THE FACILITY AND USED FOR AND RECOVERY.

ANY NON-HAZARDOUS OR HAZARDOUS WASTE INADVERTENTLY MIXED WITH THE INERT IS TO BE SEGREGATED AND BROUGHT TO A WASTE QUARANTINE AREA FOR ADDITIONAL EXAMINATION. ANY MATERIALS IDENTIFIED AS NON-HAZARDOUS OR HAZARDOUS IS TO BE REMOVED OFF-SITE BY A LICENSED BODY AND DISPOSED OF AT A LICENSED FACILITY.

2.8 Life Expectancy

BASED ON THE CONTOUR AND SITE FACILITY MAPS THE LIFE EXPECTANCY OF THE SITE IS CALCULATED AT 246M³ PER DAY. THIS AMOUNTS TO APPROXIMATELY 68,000M³ PER ANNUM. THE TOTAL CAPACITY OF THE SITE IS 816,000M³. THEREFORE THE LIFE EXPECTANCY OF THE QUARRY IS TO BE 12 YEARS. RECOVERY OF CONSTRUCTION AND DEMOLITION WILL ONLY TAKE PLACE AS LONG AS THE BACKFILLING PROCESS IS BEING UNDERTAKEN.

2.9 Staffing and Responsibilities

STAFF AND RELEVANT RESPONSIBILITIES ARE AS FOLLOWS:

Name	Position	Responsibilities
DONAL O'KEEFE	FACILITY MANAGER	HEALTH, SAFETY AND WELFARE CLIENT LIAISON, ENSURING COMPLIANCE WITH WASTE LICENCE MAINTENANCE OF PLANT AND EQUIPMENT MANAGEMENT OF SITE STAFF (INCLUDING CONSULTANTS)

2.10 Record Keeping

IN ACCORDANCE WITH SECTION 2.3 OF THE EPA PUBLICATION 'LANDFILL MANUALS: LANDFILL OPERATIONAL PRACTICES', THE ITEMS LISTED SHALL BE MAINTAINED. THESE RECORDS INCLUDE THE FOLLOWING:

- ALL SITE PROCEDURES, OPERATIONAL PLANS, ENVIRONMENTAL AND LEGAL CONTRACT DOCUMENTS (INCLUDING CONSTRUCTION DRAWINGS OF RELEVANT STAFF RECORDS, EXTERNAL CORRESPONDENCE ARE MAINTAINED BY AND ARE THE RESPONSIBILITY OF THE FACILITY MANAGER SEE SECTION 2.9 OF EMP

THE FACILITY MANAGER IS RESPONSIBLE FOR THE COLLATION AND MAINTENANCE OF THE FOLLOWING RECORDS:

- RECORDS IN RESPECT OF WASTE INSPECTIONS AND COMPLIANCE / CLASSIFICATION TESTING

- RECORDS IN RESPECT OF WASTE PROCESSING/ ACCEPTANCE OF INERT WASTE SITE
- RECORDS IN RESPECT OF ENVIRONMENTAL MONITORING ARE THE JOINTS RESPONSIBILITY OF THE EXTERNAL ENVIRONMENTAL CONSULTANT AND THE FACILITY MANAGER
- DAILY SITE INSPECTION RECORDS

ALL RECORDS ARE AVAILABLE AT SITE OFFICE.

2.11 Annual Report

DOK QUARRYSTONE LTD. SHALL PROVIDE THE FOLLOWING INFORMATION TO THE ENVIRONMENTAL PROTECTION AGENCY IN JANUARY OF EACH YEAR:

- REPORTING PERIOD (YEAR)
- SITE NAME, LOCATION AND LICENCE NUMBER
- FACILITY MANAGER(S)
- TONNAGE AND COMPOSITION OF WASTE PROCESSED
- REJECTED WASTE CONSIGNMENTS FOR PERIOD
- PLANS SHOWING ACTIVE AND RESTORED AREAS
- ENVIRONMENTAL MONITORING RECORDS FOR PERIOD
- COPY OF COMPLAINTS REGISTER FOR REPORTING PERIOD
- COPY OF REGISTER OF POLLUTION INCIDENTS FOR PERIOD
- COPY OF ACCIDENT/ INCIDENT REPORTS FOR PERIOD

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3. Site Infrastructure and design

3.1 Site Security

ACCESS TO THE FACILITY CAN BE OBTAINED VIA ROAD WHICH IS ADJACENT TO EXISTING ROAD. ALL VEHICULAR TRAFFIC ENTERING THE SITE WILL DO SO VIA A GATEWAY WHICH WILL REMAIN OPEN DURING NORMAL OPERATING HOURS. ALL VEHICULAR TRAFFIC WILL BE CONTROLLED BY THE DESIGNATED FACILITY MANAGER.

THE SITE BOUNDARY SHOWN IN FIGURE EMP (B) IS TO BE CLOSED OFF WITH A FENCE AND THEREFORE NO AGRICULTURAL FIELDS. THE SITE IS ENCLOSED BY A FENCE AND THEREFORE NO AGRICULTURAL FIELDS IS AVAILABLE.

THE SPECIFIED MATERIALS IN SECTION 2.6 OF THE EMP ARE ONLY TO BE ACCEPTED AT THE FOLLOWING HOURS:

(A) PROPOSED HOURS OF OPERATION

08:00 – 18:00	MONDAY – FRIDAY
08:00 – 16:00	SATURDAY
NO ACTIVITY	SUNDAY

(B) PROPOSED HOURS OF WASTE ACCEPTANCE/HANDLING

09:00 – 17:30	MONDAY – FRIDAY
09:00 – 15:30	SATURDAY
NO ACTIVITY	SUNDAY

NO MATERIALS WILL BE ACCEPTED AT ANY OTHER TIME OTHER THAN SPECIFIED ABOVE.

3.2 Site Roads and Parking Areas

ALL TRUCKS DELIVERING MATERIAL TO THE FACILITY AND CONFINED TO TRAVEL WITHIN THE LICENSED SITE BOUNDARY. THE TRUCKS WILL TRAVEL OVER A TRUNKED ROAD SURFACE CROSSING A WHEELWASH FACILITY AND THEN ENTERING THE ACTIVE BACKFILLING AREA. PROVISION FOR EMPLOYEE AND VISITOR PARKING IS PROVIDED.

3.3 Hard standing Areas

THE HARDSTANDING AREA IS NOT SEALED AND ANY RAIN FALLING OVER THIS AREA PERCOLATES DOWNWARDS INTO THE UNDERLYING SOILS OR RUNS-OFF OVER THE GROUND SURFACE TOWARDS THE MAIN HAUL ROAD THROUGH THE SITE AND INTO A GROUNDWATER POND IN THE CLOSED DEPRESSION AT THE WESTERN SITE BOUNDARY.

3.4 Wheelwash

IN ORDER TO PREVENT SOIL FROM BEING TRANSPORTED ON THE PUBLIC ROAD A WHEELWASH HAS BEEN INSTALLED CLOSE TO THE SITE ENTRANCE. ALL VEHICULAR ENTRANCE

SITE TRAFFIC IS REQUIRED TO PASS THROUGH THE DESIGNATED WHEELWASH AREA ENTERING AND EXITING THE FACILITY.

3.5 Laboratory Testing

LABORATORY TESTING OF SURFACE WATER, GROUNDWATER, SOILS AND LEACHATE IS TO BE UNDERTAKEN BY AN EXTERNAL BODY. ALL TEST SAMPLES ARE RETURNED TO THE LABORATORY THE SAME DAY THEY ARE EXTRACTED FROM THE SITE. TEST RESULTS ARE THEN RETURNED TO QUARRYSTONE LTD. WITHIN TEN WORKING DAYS.

ADDITIONAL MONITORING APPARATUS ARE BROUGHT ON-SITE BY THE EXTERNAL MONITORING BODY. THEY MEASURE PH VALUES OF THE WATERS ON-SITE, FLOW MEASUREMENTS AND TEMPERATURE MEASUREMENTS.

3.6 Fuel and Oil Storage

NO BUNDED FUEL STORAGE TANKS ARE LOCATED ON-SITE. ALL FUEL FOR PLANT AND EQUIPMENT USED FOR THE PROPOSED ACTIVITY IS BROUGHT ON-SITE IN DOUBLE SKIN BUNDING AND LOCATED ON A CONCRETE APRON. ALL BOWSERS AND MACHINERY ARE FUELED FROM THE CONCRETE APRON.

A WASTE OIL SEPARATOR IS INCORPORATED IN THE CONCRETE SLAB AND IS EMPTIED AT REGULAR INTERVALS BY A LICENSED WASTE CONTRACTOR AND DISPOSED OF AT A SUITABLE LICENSED WASTE FACILITY.

NO RE-FUELING OF HGV TRUCKS TAKES PLACE ON-SITE. OIL AND LUBRICANT CHANGES FOR TRACKED PLANT ARE UNDERTAKEN ON-SITE AT THE CONCRETE APRON. PLANT MAINTENANCE ON-SITE CONSISTS OF A 360 DEGREE TRACKED EXCAVATOR WHICH IS MAINTAINED ON-SITE NECESSARY ON-SITE AT THE CONCRETE APRON AREA.

3.7 Waste Inspection and Quarantine Areas

A WASTE INSPECTION AND QUARANTINE AREA IS TO BE CONSTRUCTED AT THE FACILITY TO CONSIST OF A 100MM THICK CONCRETE SLAB RESTING ON 150MM OF GRANULAR BASE AND BUNDED TO A DESIGN STORM VOLUME. MATERIAL WHICH IS DEEMED OR SUSPECTED OF BEING NON-COMPLIANT WITH THAT WHICH IS PERMITTED ON-SITE WILL BE PLACED IN THE QUARANTINE AREA AND COVERED WITH PLASTIC SHEETING. THIS WILL ENSURE NO CONTAMINATION CAN OCCUR AT THIS PLACE.

ON-SITE STAFF UNDERTAKES IN-SITU MONITORING OF THE MATERIAL AND SHOULD ANY BE DEEMED OR SUSPECTED AS UNSUITABLE IT IS TO BE REMOVED TO THE WASTE QUARANTINE AREA FOR FURTHER INSPECTION.

ALL ITEMS DEEMED TO BE NON-COMPLIANT WITH THE LICENSING AT THE DOK QUARRIES FACILITY SHALL BE REMOVED FROM THE FACILITY BY A LICENSED WASTE DISPOSAL AUTHORITY. THIS IS THEN TO BE DISPOSED OF AT A SUITABLY LICENSED FACILITY.

3.8 Traffic Controls

ACCESS TO THE FACILITY CAN BE OBTAINED VIA ROAD WHICH IS ADJACENT TO EXISTING ROAD. ALL VEHICULAR TRAFFIC ENTERING THE SITE WILL DO SO VIA A GATEWAY WHICH WILL REMAIN OPEN DURING NORMAL OPERATING HOURS. ALL VEHICULAR TRAFFIC WILL BE CONTROLLED BY THE DESIGNATED FACILITY MANAGER.

WITHIN THE SITE BOUNDARY NOTICES, SPEED RESTRICTIONS AND DIRECTIONAL ARROWS WILL BE LOCATED ON ALL CONSTRUCTION ROADS LEADING TO AND FROM THE BACKFILLING AREA.

ALL HGV TRAFFIC EXITING THE FACILITY WILL BE REQUIRED TO PASS THROUGH THE WHEELWASH FACILITY IN PLACE ON-SITE.

3.9 Surface Water Drainage Infrastructure

NO DRAINAGE INFRASTRUCTURE HAS BEEN INSTALLED ON-SITE TO COLLECT AND SURFACE WATER RUN-OFF OTHER THAN THAT OF THE CONCRETE APRON. SURFACE WATER IS PERMITTED TO RUN OVER THE EXISTING GROUND SURFACE AND COLLECT AT THE DRAINAGE SETTLEMENT PONDS AND DISCHARGE TO GROUNDWATER. RAINFALL MAY ALSO PERMIT INFILTRATION DOWNWARDS THROUGH THE BACKFILLED SOIL TO THE UNDERLYING GROUNDWATER TABLE. AT ALL TIMES DURING THE PROPOSED ACTIVITY SURFACE WATER RUN-OFF BE PERMITTED TO DRAIN INTO WATERCOURSES OF PONDS BEYOND THE SITE BOUNDARY.

THE INSPECTION AND QUARANTINE CONCRETE APRON IS SEALED BY 100MM THICK REINFORCED CONCRETE AND RESTING ON 150MM OF GRANULAR SUB-BASE AND BUND TO HOLD DESIGN STORM VOLUME. ALL SURFACE WATER RUN OFF FROM THE CONCRETE APRON DRAIN INTO THE UNDERGROUND OIL SEPARATOR. SURFACE WATER IS TO BE COLLECTED WHEN QUARANTINE ITEMS ARE SITUATED ON THE CONCRETE SLAB.

ANY WASTEWATER COLLECTED IN THE OIL SEPARATOR IS DISPOSED OF BY A LICENSED AUTHORITY AND TRANSPORTED TO A LICENSED WASTE FACILITY.

3.10 Site Services

DUE TO THE NATURE OF THE FACILITY (INERT MATERIALS) THE LIKELY HOOD OF A FIRE OUT IS HIGHLY UNLIKELY DURING THE BACKFILLING AND RECOVERY ACTIVITY. FIRE EXTINGUISHERS ARE KEPT ON SITE AT ALL TIMES SHOULD A FIRE OCCUR.

NO BURIED SERVICES ARE UNDERSTOOD TO OCCUR ACROSS THE SITE AREA.

OVERHEAD POWER LINES (220KV) ARE LOCATED RUNNING FROM WEST TO EAST ACROSS THE SITE. NO OTHER ELECTRICAL SERVICES ARE LOCATED WITHIN THE SITE BOUNDARY. THE RISK AND SAFETY IMPLICATIONS WITH WORKING NEAR THESE SERVICES WILL BE IMPLEMENTED DURING THE PHASED BACKFILLING OF THE FACILITY.

3.11 Plant Sheds and Equipment Compounds

PLANT AND EQUIPMENT FOR CARRYING OUT THE BACKFILLING AND RECOVERY PROCESSES ARE LOCATED ON THE HARD STANDING AREA OF THE SITE. NO WORKSHOPS ARE LOCATED AT THE FACILITY. ANY ITEMS OF PLANT OR EQUIPMENT WHICH MAY REQUIRE OVER HAUL OR SPARE PARTS REPAIR WILL BE REMOVED OFF-SITE ACCORDINGLY FOR THESE TASKS TO BE CARRIED OUT. SMALL ITEMS OF PLANT AND EQUIPMENT ARE TO BE STORED IN A METAL CONTAINER LOCATED IN THE CENTRE OF THE SITE. THIS CONTAINER IS LOCKED AND LOCATED ON A HARD STANDING AREA.

4 Engineered Landfill Design

4.1 General

INERT MATERIAL (CONSTRUCTION AND DEMOLITION WASTE) HAS BEEN DESIGNATED KEY AND ONLY MATERIAL ALLOWED FOR THE BACKFILLING OF THIS FACILITY. THE DESIGNED SO AS IT CAN DEAL WITH THE ISSUES IF ANY THAT INERT MATERIAL MAY NON INERT MATERIAL IS NOT DESIGNATED AT THIS FACILITY.

4.2 Formation Levels and Gradients

THE SITE HAS BEEN DIVIDED INTO THREE PHASES FOR THE DURATION OF THIS PROCES THESE PHASES CAN BE SEEN ON FIGURE EMP (B). THE FORMATION LEVELS FOR BACKF THE SITE CAN BE SEEN AS THE EXISTING GROUND LEVELS. AS EACH PHASE IS COMPLETE AREA IS GRADED TO ENSURE SURFACE WATER RUN-OFF CAN TAKE PLACE. THE WATER DIRECTED INTO SETTLEMENT PONDS SO AS TO ENCOURAGE THE SETTLEMENT OF SOLI WATER RUN-OFF.

4.3 Bund Design

NO PROVISION HAS BEEN MADE IN THE PROPOSED PROCESS FOR PERIMETER CONTAINMENT BUNDS. THIS IS DUE TO THE INERT NATURE OF THE MATERIAL BEING DI OF AT THE SITE.

4.4 Landfill Capacity and Lifespan

BASED ON THE CONTOUR AND SITE FACILITY MAPS THE LIFE EXPECTANCY OF THE SITE CALCULATED AT 246M³ PER DAY. THIS AMOUNTS TO APPROXIMATELY 68,000M³ PER ANNUM. THE TOTAL CAPACITY OF THE SITE IS 816,000M³. THEREFORE THE LIFE EXPECT OF THE QUARRY IS TO BE 12 YEARS. RECOVERY OF CONSTRUCTION AND DEMOLITION WILL ONLY TAKE PLACE AS LONG AS THE BACKFILLING PROCESS IS BEING UNDERTAKEN

4.5 Basal and Side Slope Liner Design

GIVEN THE INERT NATURE OF THE MATERIAL BEING ACCEPTED AT THIS SITE, NO PROVI BEEN MADE FOR BASAL OR SIDE SLOPE LINERS.

SETTLEMENT POUNDS LOCATED AT THE FACILITY HAVE BEEN BACKFILLED UP GROUNDWATER LEVEL USING INERT MATERIAL ACCEPTED AT THE FACILITY. THIS WI MINIMAL DAMAGE TO THE ENVIRONMENT AND UNDERLYING GROUNDWATER TABLE. TH MATERIALS THEMSELVES USED FOR THIS PURPOSE HAVE A HIGH PERMEABILITY AND FA TRANSMISSION OF GROUNDWATER THROUGH AND BENEATH THE SITE.

4.6 Leachate Management System

GIVEN THE INERT NATURE OF THE MATERIAL BEING ACCEPTED AT THIS SITE, NO PROVI BEEN MADE FOR A LEACHATE MANAGEMENT SYSTEM.

4.7 Landfill Gas Management System

GIVEN THE INERT NATURE OF THE MATERIAL BEING ACCEPTED AT THIS SITE, NO PROVI BEEN MADE FOR A LANDFILL GAS MANAGEMENT SYSTEM.

4.8 Capping and Restoration

THE SITE IS TO BE RESTORED TO ITS PRE EXTRACTION PERIOD AND THIS WILL RES ORIGINAL LEVELS BEING OBTAINED. THE COMPLETED LANDFORM OF THE SITE SHOU THE FOLLOWING CHARACTERISTICS:

- DOMED SHAPED TO FACILITATE WATER RUN-OFF
- 150MM TOPSOIL
- 850MM SUBSOIL
- TOPSOIL PLANTED WITH GRASS

THE RESULTING FINISH OF THE SITE IS TO RETURN IT TO AGRICULTURAL GRASSLAND. ALL TOPSOIL AND SUBSOIL IS TO BE IMPORTED TO THE SITE ON A CONTINUAL BASIS AN TO BE USED IN GENERAL BACKFILLING OF THE FACILITY. TOPSOIL OR SUBSOIL M STOCKPILED PENDING LATER USE DURING THE PHASED RESTORATION PROCESS. TH SHALL BE STORED SEPARATE FROM THE INERT MATERIALS BEING ACCEPTED ON-S STORED IN A MANNER WHICH DOES NOT INVOKE A VISUAL IMPACT UPON THE PUBLIC. AS PART OF THE FINAL PHASE OF THE BACKFILLING AND RESTORATION PROCESS EQUIPMENT AND STORAGE FACILITIES WILL BE REMOVED OFF-SITE. THIS PROCESS PROGRESSIVE AS THE FINAL PHASE IS COMPLETED. WHERE NECESSARY, ANY HARDSTANDING AREAS MAY BE BROKEN UP USING A HYDRA BREAKER AND SUBJECT TO INSPECTION TO CONFIRM IF THEY CAN BE USED FOR THE B PROCESS. ANY REMAINING ITEMS DEEMED NOT-ACCEPTABLE FOR THIS FACILITY W TRANSPORTED OFF SITE BY A LICENSED AUTHORITY AND DISPOSED OF AT A SUITABLY FACILITY.

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5. Waste Handling and Placement

ONLY INERT MATERIAL SPECIFIED IN SECTION 17 OF THE EUROPEAN WASTE CATALOGUE PERMITTED TO BE ACCEPTED AT THIS FACILITY. THE PROPOSED HOURS OF ACCEPTANCE ARE AS FOLLOWS:

(A) PROPOSED HOURS OF OPERATION

08:00 – 18:00	MONDAY – FRIDAY
08:00 – 16:00	SATURDAY
NO ACTIVITY	SUNDAY

(B) PROPOSED HOURS OF WASTE ACCEPTANCE/HANDLING

09:00 – 17:30	MONDAY – FRIDAY
09:00 – 15:30	SATURDAY
NO ACTIVITY	SUNDAY

NO MATERIAL IS TO BE ACCEPTED AT ANY OTHER TIME THAN PROPOSED.

5.1 Backfilling/ Land filling Activities

THE SOURCE OF EACH CONSIGNMENT OF MATERIAL FOR THE PURPOSE OF BACKFILLING IDENTIFIED IN ADVANCE OF ARRIVING AT THE FACILITY. THIS WILL ALSO BE SUBJECT TO CHARACTERISTIC TESTING TO CONFIRM THE LOAD COMPLIES WITH THAT WHICH IS PERMITTED AT THE FACILITY. THE LIMIT VALUES FOR INERT SOILS WILL BE IN ACCORDANCE WITH THOSE SET BY THE COUNCIL DECISION 2003/33 OF DECEMBER 2002. IDEALLY, THE CHARACTERISATION TESTING SHOULD TAKE PLACE AT THE SOURCE BY THE CLIENT AND OR CONTRACTOR BEFORE FORWARDING TO THE FACILITY. SOILS IMPORTED TO THE SITE SHALL BE UNLOADED FROM TRUCKS AT THE MOST RECENT BACKFILLING FACE. IT WILL BE VISUALLY INSPECTED BY SITE PERSONNEL SO AS TO ENSURE A MIX OF HAZARDOUS OR NON-HAZARDOUS HAS TAKEN PLACE. SHOULD ANY ITEMS BE IDENTIFIED OR SUSPECT OF BEING UNFIT FOR THE FACILITY THEY ARE TO BE QUARANTINED. ALL INSPECTIONS ARE TO BE DOCUMENTED FOR FURTHER REVIEW IF NECESSARY. SHOULD ANY MATERIAL BE POSITIVELY IDENTIFIED EITHER ON-SITE OR THROUGH LABORATORY TESTING THEN THESE ARE TO BE REMOVED FROM THE FACILITY BY A SUITABLY LICENSED WASTE AUTHORITY AND DISPOSED OF AT A SUITABLY LICENSED FACILITY. ALSO, A REPRESENTATIVE SAMPLE OF ONE IN 200 LOADS IS TO BE TAKEN AND IS SUBJECT TO COMPLIANCE TESTING. A RECORD OF THIS SAMPLING IS TO BE COMPARED WITH ACCEPTANCE CRITERIA OF THE FACILITY AND TO BE CARRIED OUT BY THE LICENSEE.

5.2 Recovery Activities

THE RECOVERY ACTIVITY IS TO ONLY CONSIST OF THE ITEMS MENTIONED IN ACCORDANCE WITH THE EUROPEAN WASTE CATALOGUE. THESE ITEMS ARE AS FOLLOWS:

EWC Code	Description
17 01 01	CONCRETE
17 01 02	BRICKS

17 01 03	TILES AND CERAMICS	
17 01 07	MIXTURE OF CONCRETE BRICKS, TILES AND CERAMICS OTHER THAN THOSE MENTIONED IN 17 01 06	
17 05 04	SOIL AND STONES OTHER THAN THOSE MENTIONED IN 17 05 03	

SHOULD ANY ITEMS BE IDENTIFIED OR SUSPECT OF BEING UNFIT FOR THE FACILITY THEY SHOULD BE QUARANTINED TO THE QUARANTINE AREA. SHOULD ANY MATERIAL BE POSITIVELY IDENTIFIED EITHER ON-SITE OR DURING LABORATORY TESTING THEN THESE ARE TO BE REMOVED FROM THE FACILITY BY A LICENSED WASTE AUTHORITY AND DISPOSED OF AT A SUITABLE LANDFILL FACILITY.

ALL INERT MATERIAL ACCEPTED AT THE FACILITY IS TO BE PRE-SORTED AT SOURCE. TO AVOID THE POSSIBILITY OF ANY HAZARDOUS OR NON-HAZARDOUS WASTE BEING USED IN THE BACKFILLING PROCESS. ANY CONSIGNMENT CONFIRMED TO BE NON-COMPLIANT WITH THE LIMITS OF THE FACILITY WILL BE REJECTED AND REMOVED OFF SITE.

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6. Restoration and Aftercare

See section

THE PRINCIPLE ACTIVITY IS CLASS 10 OF THE FOURTH SCHEDULE (THE TREATMENT OF WASTE ON LAND WITH A CONSEQUENTIAL BENEFIT FOR AN AGRICULTURAL ACTIVITY OR SYSTEM). THIS IS TO TAKE PLACE AT A FORMER GRAVEL QUARRY AT GARRANMORE, CASHEL, CO.TIPPERARY. THE SITE IS TO BE RESTORED TO ITS ORIGINAL PRE EXCAVATION STAGE ORIGINAL LEVELS. SEE FIGURE EMP(C) FOR PROPOSED FINAL CONTOUR LINES OF THE SITE. UPON COMPLETION THE SITE WILL HAVE THE FOLLOWING CHARACTERISTICS:

- DOMED SHAPED TO FACILITATE WATER RUN-OFF
- 150MM TOPSOIL
- 850MM SUBSOIL
- TOPSOIL PLANTED WITH GRASS

AS PART OF THE FINAL PHASE OF THE BACKFILLING AND RESTORATION PROCESS EQUIPMENT AND STORAGE FACILITIES WILL BE REMOVED OFF-SITE. THIS PROCESS IS PROGRESSIVE AS THE FINAL PHASE IS COMPLETED.

WHERE NECESSARY, ANY HARDSTANDING AREAS MAY BE BROKEN UP USING A HYDRAULIC BREAKER AND SUBJECT TO INSPECTION TO CONFIRM IF THEY CAN BE USED FOR THE BACKFILLING PROCESS. ANY REMAINING ITEMS DEEMED NOT-ACCEPTABLE FOR THIS FACILITY WILL BE TRANSPORTED OFF SITE BY A LICENSED AUTHORITY AND DISPOSED OF AT A SUITABLE FACILITY.

FOLLOWING COMPLETION OF THE RECOVERY AND BACKFILLING WORKS, PROVISION WILL BE MADE FOR FURTHER SHORT-TERM (1 YEAR) ENVIRONMENTAL MONITORING OF AIR, WATER AND GROUNDWATER.

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7. Environmental Controls

7.1 General

AS PART OF CARRYING OUT THIS PROCESS IT WILL BE NECESSARY TO HAVE S ENVIRONMENTAL CONTROLS IN PLACE. THESE ARE TO ELIMINATE OR MINIMISE THE NU WHICH MAY BE CAUSED TO THE PUBLIC ARISING FROM THE BACKFILLING AND REC ACTIVITY.

7.2 Bird Control

ALL MATERIALS ACCEPTED TO THE SITE WILL BE FREE OF ANY PUTRESCIBLE WASTE; TH IS UNLIKELY THAT ANY MATERIAL IS LIKELY TO ATTRACT SCAVENGING BIRDS SUCH AS G CROWS DURING THE PERIOD OF BACKFILLING AND RECOVERY. SHOULD ANY ITEMS BE IDENTIFIED OR SUSPECT OF BEING UNFIT FOR THE FACILITY TH BE QUARANTINED TO THE QUARANTINE AREA. SHOULD ANY MATERIAL BE POSIT IDENTIFIED EITHER ON-SITE OR DURING LABORATORY TESTING THEN THESE ARE TO B FORM THE FACILITY BY A LICENSED WASTE AUTHORITY AND DISPOSED OF A SUITABLY L FACILITY.

7.3 Dust Control

IN DRY WEATHER CONDITIONS THE ISSUE OF DUST IS TO BE TACKLED USING THE FO MEASURES:

- WATER FROM A TRACTOR DRAWN BOWSER IS SPRAYED ON DRY EXPOSED SURFACES AS AND WHEN REQUIRED
- AS EACH PHASE IS COMPLETED, THE NEW LAND FORMATIONS WILL BE GRASSED AS TO REMOVE THE PROBLEM OF DUST ARISING FROM THE GROUND
- TEMPORARY VEGETATION IS TO BE INSTALLED WHERE NECESSARY TO STOP ARISING AT AREAS WHERE RECOVERY AND BACKFILLING IS NOT YET COMPLETE.
- ALL HGV TRAFFIC WILL BE REQUIRED TO TRAVEL THROUGH A WHEELWASH FACILITY TO PREVENT THE TRANSPORTATION OF FINES ONTO THE PUBLIC ROADS.
- THE STOCKPILING OF SOILS WILL BE WHERE POSSIBLE KEPT TO A MINIMUM ON-SITE. IDEALLY, IMPORTED SOILS ARE TO BE PLACED IN-SITU AND COMPACT AS SOON AS THEY ARRIVE ON-SITE.

7.4 Litter Control

DUE TO THE NATURE OF THE MATERIALS BEING USED AT THE FACILITY NO SPECIFIC PREVENTION HAVE BEEN PUT IN PLACE IN EVENT OF LITTER APPEARING ON-SITE. IN THE EVENT OF LITTER APPEARING ON-SITE IT SHALL BE IMMEDIATELY REMOVED TO THE WASTE QUARANTINE AREA PENDING REMOVAL OFF-SITE BY A LICENSED AUTHORITY TO A SUITABLE LICENSED FACILITY.

7.5 Odour Control

THE INERT MATERIAL TO BE ACCEPTED TO THE SITE IS NOT BIODEGRADABLE AND DOES NOT RELEASE ODOROUS GASSES INTO THE ATMOSPHERE DURING THE RECOVERY AND BACKFILLING PROCESS. NO SPECIFIC ODOUR CONTROL MEASURES ARE TO BE IMPLEMENTED ON-SITE. IN THE EVENT OF BIODEGRADABLE WASTE APPEARING ON-SITE IT SHALL BE IMMEDIATELY REMOVED TO THE WASTE QUARANTINE AREA PENDING REMOVAL OFF-SITE BY A LICENSED AUTHORITY TO A SUITABLE LICENSED FACILITY.

7.6 Vermin Control

DUE TO THE NATURE OF THE MATERIALS BEING USED AT THE FACILITY NO SPECIFIC PREVENTION MEASURES HAVE BEEN PUT IN PLACE IN EVENT OF LITTER APPEARING ON-SITE. IN THE EVENT OF LITTER APPEARING ON-SITE IT SHALL BE IMMEDIATELY REMOVED TO THE WASTE QUARANTINE AREA PENDING REMOVAL OFF-SITE BY A LICENSED AUTHORITY TO A SUITABLE LICENSED FACILITY. ACCORDINGLY, NO VERMIN CONTROLS ARE TO BE IMPLEMENTED ON-SITE.

7.7 Fire Control

THE INERT MATERIALS BEING ACCEPTED AT THIS FACILITY IS FREE FROM ANY FLAMMABLE MATERIALS OR BIODEGRADABLE WASTE AND THUS WILL NOT POSE A RISK OF COMBUSTION OR EXPLOSION DURING THE RECOVERY AND BACKFILLING PROCESS. ACCORDINGLY, NO SPECIAL FIRE CONTROL MEASURES ARE TO BE IMPLEMENTED ON-SITE.

THE FOLLOWING PROCEDURES ARE TO BE IMPLEMENTED ON-SITE SO AS TO PREVENT THE POSSIBILITY OF A FIRE OCCURRING:

- SMOKING IS TEMPORARILY FORBIDDEN ON-SITE FOR THE DURATION OF THE RECOVERY AND BACKFILLING
- ANY BIODEGRADABLE OR FLAMMABLE MATERIAL IDENTIFIED ON-SITE IS TO BE IMMEDIATELY REMOVED TO THE WASTE QUARANTINE AREA PENDING REMOVAL OFF-SITE BY A LICENSED AUTHORITY TO A LICENSED WASTE FACILITY
- ANY PLANT OR EQUIPMENT WHICH DISPLAYS ANY SIGNS OF OVERHEATING ETC. IS TO BE REMOVED OFF SITE

IN THE UNLIKELY EVENT OF A FIRE BREAKING OUT AT THE FACILITY THE LOCAL FIRE BRIGADE AND EMERGENCY SERVICES WILL BE CONTACTED AND EMERGENCY PROCEDURES IMPLEMENTED. FIRE EXTINGUISHERS WILL BE LOCATED ON-SITE AT ALL TIMES FOR SMALL OUTBREAKS

7.8 Road Mud control

IN ORDER TO PREVENT SOIL FROM BEING TRANSPORTED ON THE PUBLIC ROAD A WHEELWASH HAS BEEN INSTALLED CLOSE TO THE SITE ENTRANCE. ALL VEHICULAR ENTERING AND EXITING THE FACILITY IS REQUIRED TO PASS THROUGH THE DESIGNATED WHEELWASH AREA.

8. Environmental Controls

8.1 General

THE PROGRAMME OF ENVIRONMENTAL MONITORING AT THE SITE COMPLIES WITH REQUIREMENTS OF THE WASTE LICENCE ISSUED BY THE EPA. ALL ENVIRONMENTAL MONITORING, SAMPLING AND TESTING IS TO BE CARRIED OUT BY AN EXTERNAL BODY. RECORDS OF SUCH MONITORING, SAMPLING AND TESTING ARE MAINTAINED ON-SITE AND WILL BE FORWARDED TO THE EPA AS REQUIRED UNDER THE TERMS OF THE WASTE LICENCE.

LOCATIONS OF SUCH MONITORS CAN BE SEEN IN FIGURE EMP (D)

8.2 Dust Monitoring

DUST MONITORING IS TO TAKE PLACE AT THREE LOCATIONS SHOWN ON FIGURE EMP (D). THESE THREE LOCATIONS ARE LOCATED ALONG THE BOUNDARY OF THE SITE. THE DUST MONITORING WILL BE IN PLACE FOR THE ENTIRE DURATION OF THE RECOVERY AND BACKFILLING PROCESS AND WILL REMAIN IN PLACE FOR THE AFTERCARE PERIOD (<1 YEAR).

8.3 Ecological Monitoring

IN THE ABSENCE OF ANY RARE FLORA OR FAUNA IN THE SITE OR SURROUNDING AREA, IT HAS BEEN DEEMED UNNECESSARY TO UNDERTAKE ANY ECOLOGICAL MONITORING DURING THE RECOVERY PROCESS OF RECOVERY AND BACKFILLING.

8.4 Groundwater Monitoring

GROUNDWATER SAMPLING IS TO TAKE PLACE AT 3 LOCATIONS AT THE SITE- ONE UPSTREAM OF THE ACTIVITY, ONE DOWNSTREAM OF THE ACTIVITY AND ONE INTERMEDIARY POINT IN BETWEEN BOTH. THESE GROUNDWATER LEVELS ARE TO BE RECORDED ON A QUARTERLY BASIS. LOCATION OF SUCH SAMPLING POINTS CAN BE SEEN IN FIGURE EMP (D). THE WATER SAMPLES OBTAINED WILL BE TESTED FOR A WIDE RANGE OF PHYSICAL AND CHEMICAL PARAMETERS. THIS IS CARRIED OUT IN ORDER TO TEST THE WATER QUALITY AND DETECT IF ANY CONTAMINATIONS HAS TAKEN PLACE ON-SITE. THE GROUNDWATER MONITORING WILL BE IN PLACE FOR THE ENTIRE DURATION OF THE RECOVERY AND BACKFILLING PROCESS AND WILL REMAIN IN PLACE FOR THE AFTERCARE PERIOD (<1 YEAR).

8.5 Landfill gas Monitoring

IN THE ABSENCE OF ANY BIODEGRADABLE WASTE AT THE FACILITY DURING THE RECOVERY PROCESS, NO LANDFILL GAS WILL BE GENERATED AND THUS THE REQUIREMENT FOR LANDFILL GAS MONITORING WILL NOT BE NEEDED.

8.6 Leachate Monitoring

IN THE ABSENCE OF ANY BIODEGRADABLE WASTE AT THE FACILITY DURING THE RECOVERY PROCESS, NO LEACHATE WILL BE GENERATED AND THUS THE REQUIREMENT FOR LEACHATE MONITORING WILL NOT BE NEEDED.

8.7 Meteorological Monitoring

NO METEOROLOGICAL MONITORING IS TO BE UNDERTAKEN AT THE SITE. TEMPERATURE, RAINFALL, WIND SPEED AND DIRECTION ARE RECORDED AT THE LOCAL WEATHER STATION.

RELEVANT CLIMATIC DATA IS AVAILABLE FROM LOCAL WEATHER STATIONS WHEN NECESSARY.

8.8 Noise Monitoring

THREE NOISE MONITORING POINTS HAVE BEEN ESTABLISHED AT THE FACILITY. THESE ARE LOCATED IN FIGURE EMP (D). THE NOISE MONITORING WILL BE IN PLACE FOR THE ENTIRE DURATION OF THE RECOVERY AND BACKFILLING PROCESS AND WILL REMAIN IN PLACE FOR THE AFTERCARE PERIOD (<1 YEAR). ALL NOISE MONITORING IS TO BE UNDERTAKEN BY AN EXTERNAL LICENCED BODY.

8.9 Odour Monitoring

THE INERT MATERIAL TO BE ACCEPTED TO THE SITE IS NOT BIODEGRADABLE AND DOES NOT RELEASE ODOROUS GASSES INTO THE ATMOSPHERE DURING THE RECOVERY AND BACKFILLING PROCESS. NO SPECIFIC ODOUR CONTROL MEASURES ARE TO BE IMPLEMENTED ON-SITE. IN THE EVENT OF BIODEGRADABLE WASTE APPEARING ON-SITE IT SHALL BE IMMEDIATELY REMOVED TO THE WASTE QUARANTINE AREA PENDING REMOVAL OFF-SITE BY A LICENCED AUTHORITY TO A SUITABLE LICENSED FACILITY.

8.10 Surface Water Monitoring

SURFACE WATER SAMPLING IS TO TAKE PLACE AT 3 LOCATIONS AT THE SITE- ONE UPSTREAM OF THE ACTIVITY, ONE DOWNSTREAM OF THE ACTIVITY AND ONE INTERMEDIARY POINT BETWEEN BOTH. THESE GROUNDWATER LEVELS ARE TO BE RECORDED ON A QUARTERLY BASIS. THE LOCATION OF SUCH SAMPLING POINTS CAN BE SEEN IN FIGURE EMP (D). THE SURFACE WATER SAMPLES OBTAINED WILL BE TESTED FOR A WIDE RANGE OF PHYSICAL AND CHEMICAL PARAMETERS. THIS IS CARRIED OUT IN ORDER TO TEST THE WATER QUALITY AND DETECT IF ANY CONTAMINATIONS HAS TAKEN PLACE ON-SITE. THE GROUNDWATER MONITORING WILL BE IN PLACE FOR THE ENTIRE DURATION OF THE RECOVERY AND BACKFILLING PROCESS AND WILL REMAIN IN PLACE UNTIL THE SURFACE WATER BODY IS FULLY BACKFILLED WITH INERT MATERIAL.

8.11 Stability and Settlement Monitoring

UPON COMPLETION OF THE FINAL PHASE OF THE RECOVERY AND RESTORATION PHASE SEVERAL FIXED SAMPLING POINTS WILL BE SET INTO THE GROUND SURFACE OF THE RECOVERY AREA. THESE ARE TO BE SURVEYED ANNUALLY TO MEASURE FOR SETTLEMENT (IF ANY) AND THE CONDITION OF THE SITE. TEMPORARY FIXED SLOPES ARE TO BE INSTALLED AT THE PERIMETERS OF THE RECOVERY AREAS. THESE ARE TO BE INSPECTED MONTHLY BY SITE PERSONNEL. SHOULD ANY CONCERNS BE RAISED WITH REGARD TO THESE SLOPES, A GEOTECHNICAL ENGINEER WILL BE REQUIRED TO UNDERTAKE A SITE INVESTIGATION AND IMPOSE MEASURES WERE RELEVANT. A DETAILED VISUAL INSPECTION AND STABILITY ASSESSMENT IS UNDERTAKEN ON AN ANNUAL BASIS BY A GEOTECHNICAL ENGINEER FOR THE DURATION OF THE PROCESS. FOLLOWING THE COMPLETION OF THE PROPOSED TASK OF RECOVERY AND BACKFILLING AND CLOSURE OF THE FACILITY, STABILITY AND SETTLEMENT MONITORING WILL BE REQUIRED TO TAKE PLACE AS REQUIRED BY THE WASTE LICENCE GRANTED BY THE EPA.

9. Health and Safety

ALL DETAILS OF HEALTH AND SAFETY MATTERS CONCERNED WITH THE PROPOSED RECOVERY AND BACKFILLING ARE CONTAINED IN THE HEALTH AND SAFETY PLAN. THIS PLAN IS SUBJECT TO CHANGE, REVISION OR UPDATE DURING THE PERIOD OF RECOVERY AND BACKFILLING. ANY KEY ADDITIONS TO THE H&S PLAN WILL BE PROVIDED TO ALL RELEVANT STAFF AND SUB-CONTRACTORS. A COPY OF THE H&S PLAN IS AVAILABLE FROM THE FACILITY MANAGER.

THE FACILITY MANAGER IS UNDER OBLIGATION TO IMPLEMENT THE H&S PLAN AND MUST BRIEF ALL STAFF ON THE RISKS AND RESPONSIBILITIES ASSOCIATED WITH CARrying OUT THE ASSOCIATED WORKS AT THE FACILITY. ALL THE RELEVANT LANDFILL MANAGEMENT AND OPERATIONS ARE TO BE ATTENDED BY THOSE CONCERNED.

REGULAR SAFETY BRIEFINGS AND MEETINGS ARE TO TAKE PLACE WITH PARTICULAR EMPHASIS PAID TO THE FOLLOWING RISKS:

- SLOPE INSTABILITY
- MOVEMENT OF PLANT AND EQUIPMENT
- WORKING BENEATH OVERHEAD POWER LINES

ALL SITE PERSONNEL AND SUB-CONTRACTORS ARE TO BE ISSUED WITH INSTRUCTIONS AND DIRECTIONS ON HOW TO WEAR THEIR PERSONNEL PROTECTIVE EQUIPMENT (PPE) CORRECTLY. SHOULD THESE INSTRUCTIONS BE IGNORED IN ANYWAY, A WRITTEN WARNING WILL BE ISSUED TO THOSE CONCERNED. SHOULD A GRAVER OFFENCE OR REPEATED OFFENCE BE COMMITTED, THEN REMOVAL FROM THE SITE WILL OCCUR FOR THOSE EMPLOYEE(S) CONCERNED. ALL SITE STAFF, SUBCONTRACTORS AND HAULIERS WILL BE ISSUED WITH, OR REQUIRED TO WEAR, THE FOLLOWING PPE:

- HIGH VISIBILITY VESTS
- NECESSARY SAFETY BOOTS WITH STEEL CAPS AND SOLES – RUBBERS AND LEATHER
- NECESSARY SAFETY HATS (WITH ANTI-DUST VISORS IF NECESSARY)
- NECESSARY COATS/ OVERALLS
- MASKS
- GOGGLES
- WET GEAR

SHOULD AN EMERGENCY OCCUR ON-SITE, THE 999 EMERGENCY CALL NUMBER IS TO BE USED. IT IS THE FACILITY MANAGER'S OBLIGATION TO MAINTAIN A RECORD OF ALL ACCIDENTS WHICH OCCUR. IN THE EVENT OF AN ACCIDENT, A WRITTEN REPORT MUST BE COMPILED AND FORWARDED TO THE RELEVANT AUTHORITIES AS REQUIRED BY LAW.

A FIRST AID KIT WILL BE MAINTAINED ON-SITE AT ALL TIMES.

ALL PERSONNEL INVOLVED IN THE RECOVERY AND BACKFILL PROCESS WILL BE REQUIRED TO RECEIVE HEPATITIS AND TETANUS INJECTIONS.

FIGURES:

- EMP (A)
- EMP (B)
- EMP (C)
- EMP (D)

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Surveyed 1995-1998
Revised 2001-2003
Levelled 1985

Rural PLACE Map



210486

144157

144157

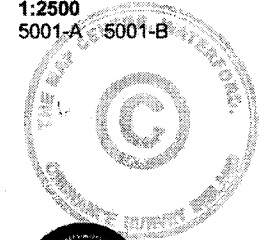
ITM CENTRE PT. COORDS

610144,643988

DESCRIPTION

MAP SHEETS

1:2500
5001-A 5001-B



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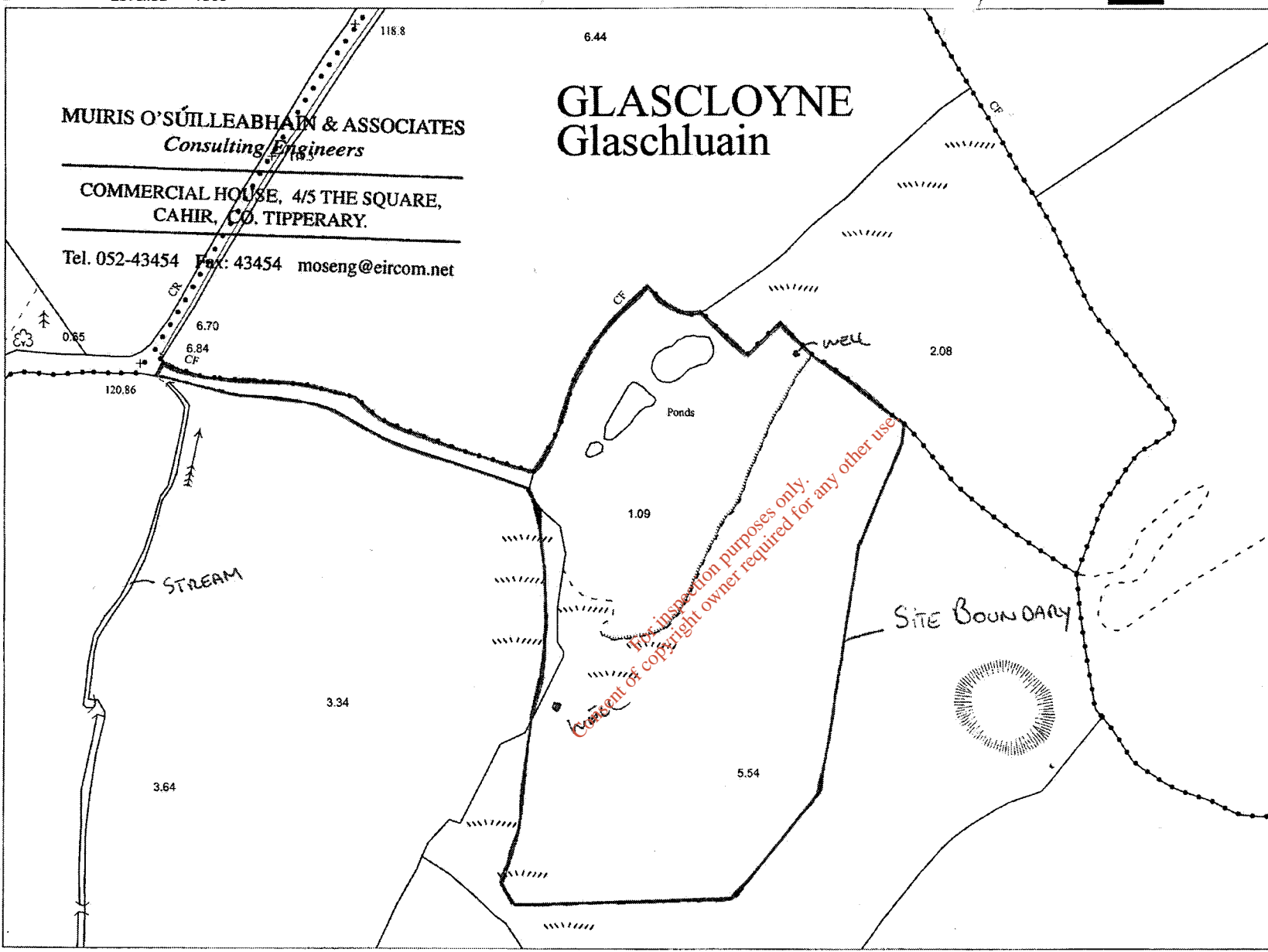
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MUIRIS O'SÚILLEABHAIN & ASSOCIATES
Consulting Engineers

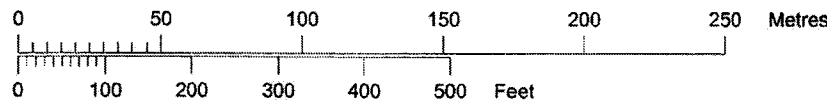
COMMERCIAL HOUSE, 4/5 THE SQUARE,
CAHIR, CO. TIPPERARY.

Tel. 052-43454 Fax: 43454 moseng@eircom.net

GLASCLOYNE Glascluain



Scale:- 1:2,500
Scála:- 1:2,500



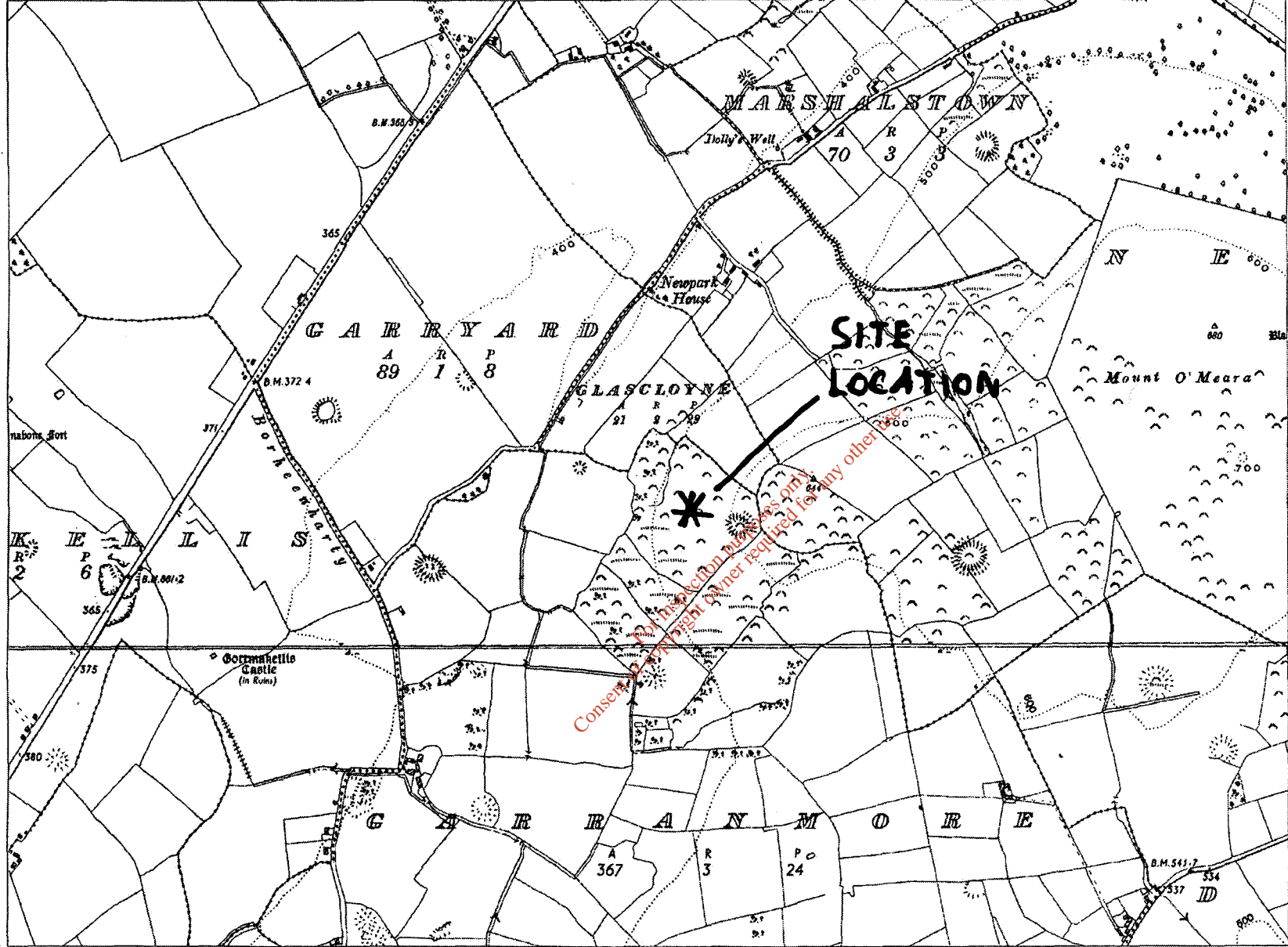
Plot Ref. No. 1019629_2_6
Plot Date 22 APR-2005

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209904

Surveyed 1840
 Revised 1954
 Levelled 1954

Record PLACE Map



ITM CENTRE PT COORDS

610142,643990

DESCRIPTION

MAP SHEETS

6 inch
 TY053 TY061



Produced by The Map Centre,
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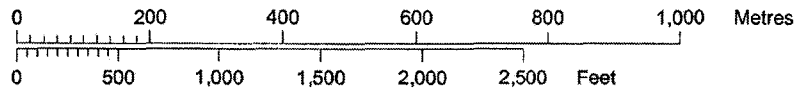
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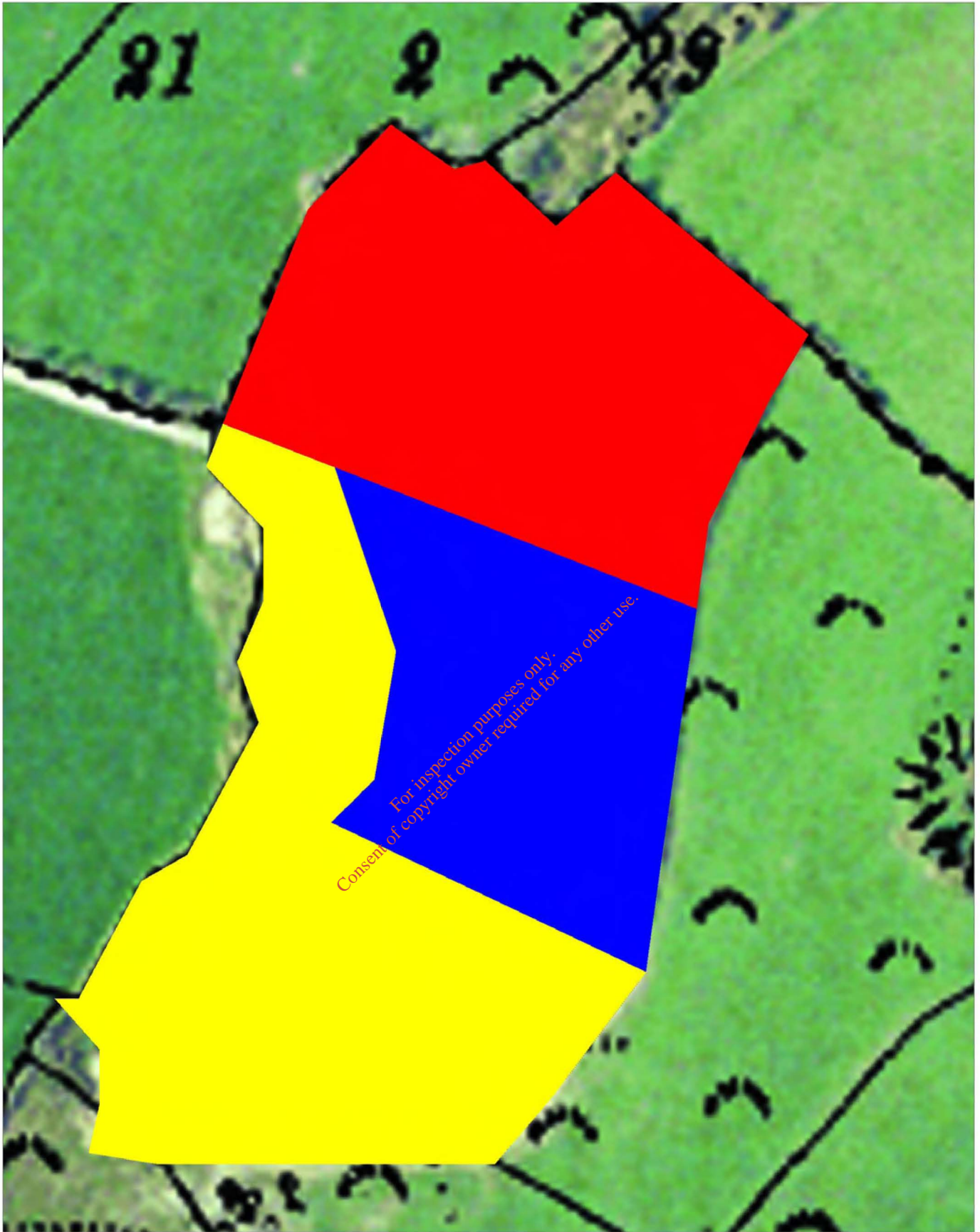
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Scale:- 1:10,560
 Scála:- 1:10,560

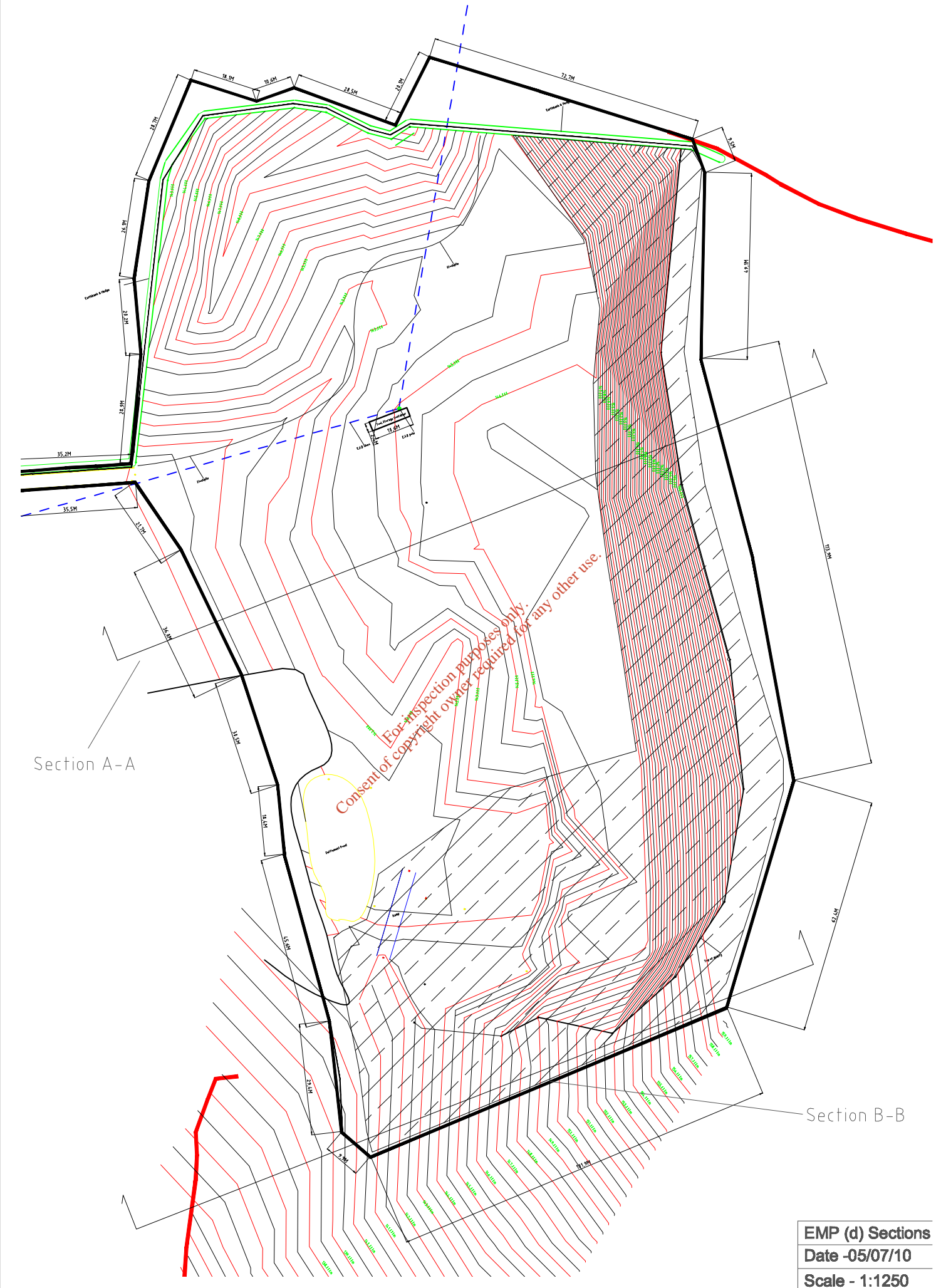


Plot Ref. No. 1019629_2
 Plot Date 22-APR-2005



- Zone 1 - 1.0 Hectares
- Zone 2 - 0.95 Hectares
- Zone 3 - 1.5 Hectares

EMP (c) / Zoning
Date - 05/07/10
Scale - 1:1500



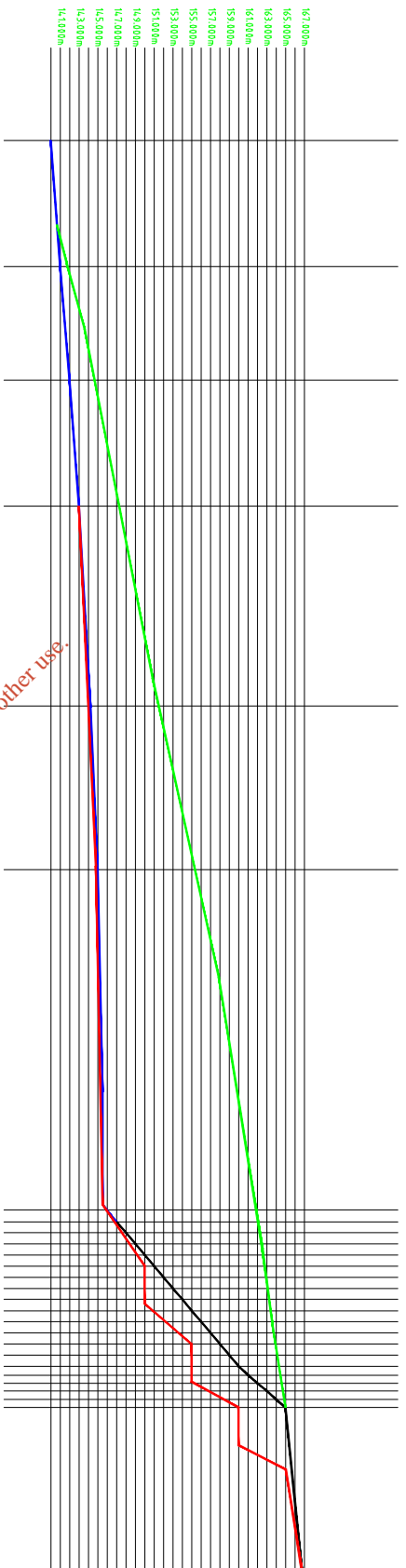
Section A-A

Section B-B

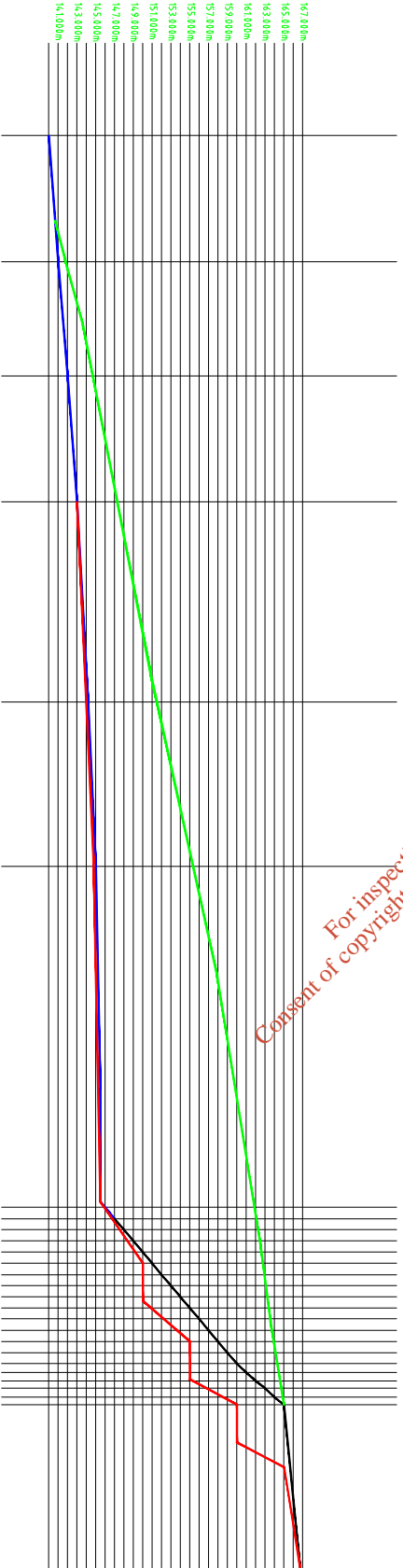
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EMP (d) Sections
 Date -05/07/10
 Scale - 1:1250

Section A-A



Section B-B



Aftercare Proposed
Current Levels
Proposed Levels

EMP (d)Contours
Date -05/07/10
Scale - 1:750



- Water Sampling Points ●
- Dust and Noise Monitoring ●
- Surface Water Monitoring ●



EMP(E)MonitoringPoints
 Date - 05/07/10
 Scale - 1:2500

Attachment C3

(A) PROPOSED HOURS OF OPERATION

08:00 – 18:00	MONDAY – FRIDAY
08:00 – 16:00	SATURDAY
NO ACTIVITY	SUNDAY

(B) PROPOSED HOURS OF WASTE ACCEPTANCE/HANDLING

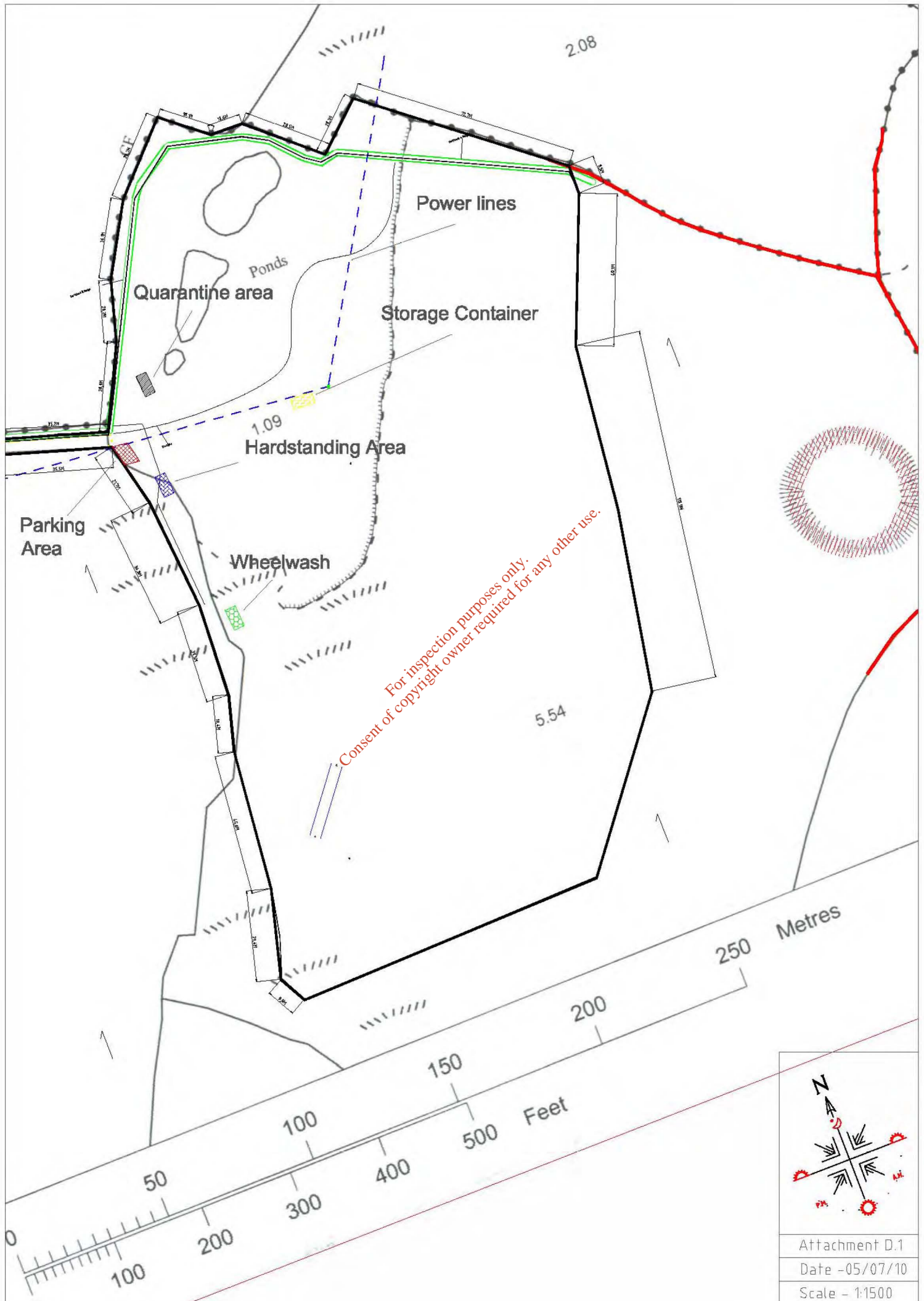
09:00 – 17:30	MONDAY – FRIDAY
09:00 – 15:30	SATURDAY
NO ACTIVITY	SUNDAY

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Attachment C4

See attachment B.3 for planning conditions.

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ATTACHMENT D1

D1.a Site security arrangements including gates and fencing

ACCESS TO THE FACILITY CAN BE OBTAINED VIA ROAD WHICH IS ADJACENT TO EXISTING PUBLIC ROAD. ALL VEHICULAR TRAFFIC ENTERING THE SITE WILL DO SO VIA A GATEWAY WHICH WILL REMAIN OPEN DURING NORMAL OPERATING HOURS. ALL VEHICULAR TRAFFIC WILL BE CONTROLLED BY THE DESIGNATED FACILITY MANAGER.

THE SITE BOUNDARY IS TO BE CLOSED OFF WITH A FENCE AND 6 NO. AGRICULTURAL FIELDS. THE SITE IS ENCLOSED BY A FENCE AND THEREFORE NO ACCESS TO THE ADJACENT AGRICULTURAL FIELDS IS AVAILABLE.

D1.b Designs for site roads

ALL TRUCKS DELIVERING MATERIAL TO THE FACILITY AND CONFINED TO TRAVEL WITHIN THE LICENSED SITE BOUNDARY. THE TRUCKS WILL TRAVEL OVER A TRUNKED ROAD SURFACE CROSSING A WHEELWASH FACILITY AND THEN ENTERING THE ACTIVE BACKFILLING AREA. PROVISION FOR EMPLOYEE AND VISITOR PARKING IS PROVIDED.

D1.c Design of Hardstanding areas

THE HARDSTANDING AREA IS NOT SEALED AND ANY RAIN FALLING OVER THIS AREA PERCOLATES DOWNWARDS INTO THE UNDERLYING SOILS OR RUNS-OFF OVER THE GROUND SURFACE TOWARDS THE MAIN HAUL ROAD THROUGH THE SITE AND INTO A GROUNDWATER POND IN THE CLOSED DEPRESSION AT THE WESTERN SITE BOUNDARY.

D1.d Plant

SEE D1.M OF ATTACHMENT D1

D1.e Wheel-wash

IN ORDER TO PREVENT SOIL FROM BEING TRANSPORTED ON THE PUBLIC ROAD A WHEELWASH HAS BEEN INSTALLED CLOSE TO THE SITE ENTRANCE. ALL VEHICULAR ENTERING THE SITE TRAFFIC IS REQUIRED TO PASS THROUGH THE DESIGNATED WHEELWASH AREA BEFORE ENTERING AND EXITING THE FACILITY.

D1.f Laboratory facilities (if proposed)

LABORATORY TESTING OF SURFACE WATER, GROUNDWATER, SOILS AND LEACHATE WILL BE UNDERTAKEN BY AN EXTERNAL BODY. ALL TEST SAMPLES ARE RETURNED TO THE LABORATORY THE SAME DAY THEY ARE EXTRACTED FROM THE SITE. TEST RESULTS ARE THEN RETURNED TO QUARRYSTONE LTD. WITHIN TEN WORKING DAYS.

ADDITIONAL MONITORING APPARATUSES ARE BROUGHT ON-SITE BY THE EXTERNAL MONITORING BODY. THEY MEASURE PH VALUES OF THE WATERS ON-SITE, FLOW MEASUREMENTS, MEASUREMENTS.

D1.g Design and location of fuel storage areas

NO BUNDED FUEL STORAGE TANKS ARE LOCATED ON-SITE. ALL FUEL FOR PLANT AND EQUIPMENT USED FOR THE PROPOSED ACTIVITY IS LOCATED IN DOUBLE SKIN BOWERS LOCATED ON THE CONCRETE APRON. ALL BOWERS AND MACHINERY ARE FUELED ON THE CONCRETE APRON. A WASTE OIL SEPARATOR IS INCORPORATED IN THE CONCRETE SLAB AND IS EMPTIED AT REGULAR INTERVALS BY A LICENSED WASTE CONTRACTOR AND DISPOSED OF OFF-SITE AT A SUITABLE LICENSED WASTE FACILITY.

NO RE-FUELING OF HGV TRUCKS TAKES PLACE ON-SITE. OIL AND LUBRICANT CHANGES ON TRACKED PLANT ARE UNDERTAKEN ON-SITE AT THE CONCRETE APRON. PLANT MAINTENANCE ON-SITE CONSISTS OF A 360 DEGREE TRACKED EXCAVATOR WHICH IS MAINTAINED WHEN NECESSARY ON-SITE AT THE CONCRETE APRON AREA.

D1.h Waste quarantine areas

A WASTE INSPECTION AND QUARANTINE AREA IS TO BE CONSTRUCTED AT THE FACILITY. IT IS TO CONSIST OF A 100MM THICK CONCRETE SLAB RESTING ON 150MM OF GRANULAR SUB-BASE AND BUNDED TO A DESIGN STORM VOLUME. MATERIAL WHICH IS DEEMED OR SUSPECTED OF BEING NON-COMPLIANT WITH THAT WHICH IS PERMITTED ON-SITE WILL BE PLACED IN THIS AREA AND COVERED WITH PLASTIC SHEETING. THIS WILL ENSURE NO CONTAMINATION CAN TAKE PLACE.

ON-SITE STAFF UNDERTAKES IN SITU MONITORING OF THE MATERIAL AND SHOULD MATERIAL BE DEEMED OR SUSPECTED AS UNSUITABLE IT IS TO BE REMOVED TO THE WASTE INSPECTION AND QUARANTINE AREA FOR FURTHER INSPECTION.

ALL ITEMS DEEMED TO BE NON-COMPLIANT WITH THE LICENSING AT THE DOK QUARRYSITE FACILITY SHALL BE REMOVED FROM THE FACILITY BY A LICENSED WASTE DISPOSAL AUTHORITY. THIS IS THEN TO BE DISPOSED OF AT A SUITABLY LICENSED FACILITY.

D1.i Waste inspection areas

SEE D1.H OF ATTACHMENT D.1

D1.j Traffic control

ACCESS TO THE FACILITY CAN BE OBTAINED VIA ROAD WHICH IS ADJACENT TO EXISTING PUBLIC ROAD. ALL VEHICULAR TRAFFIC ENTERING THE SITE WILL DO SO VIA A GATEWAY WHICH WILL REMAIN OPEN DURING NORMAL OPERATING HOURS. ALL VEHICULAR TRAFFIC WILL BE CONTROLLED BY THE DESIGNATED FACILITY MANAGER.

WITHIN THE SITE BOUNDARY NOTICES, SPEED RESTRICTIONS AND DIRECTIONAL ARROWS WILL BE LOCATED ON ALL CONSTRUCTION ROADS LEADING TO AND FROM THE BACKFILLING AREA. ALL HGV TRAFFIC EXITING THE FACILITY WILL BE REQUIRED TO PASS THROUGH THE WHEELWASH FACILITY IN PLACE ON-SITE.

D1.k Sewerage and surface water drainage

NO DRAINAGE INFRASTRUCTURE HAS BEEN INSTALLED ON-SITE TO COLLECT AND REMOVE SURFACE WATER RUN-OFF OTHER THAN THAT OF THE CONCRETE APRON. SURFACE WATER IS PERMITTED TO RUN OVER THE EXISTING GROUND SURFACE AND COLLECT AT THE DESIGNATED SETTLEMENT PONDS AND DISCHARGE TO GROUNDWATER. RAINFALL MAY ALSO PERMEATE DOWNWARDS THROUGH THE BACKFILLED SOIL TO THE UNDERLYING GROUNDWATER TABLE. AT ALL TIMES DURING THE PROPOSED ACTIVITY SHALL SURFACE WATER RUN-OFF BE PERMITTED TO COLLECT INTO WATERCOURSES OF PONDS BEYOND THE SITE BOUNDARY.

THE INSPECTION AND QUARANTINE CONCRETE APRON IS SEALED BY 100MM THICK CURED AND REINFORCED CONCRETE AND RESTING ON 150MM OF GRANULAR SUB-BASE AND BUNDING TO HOLD DESIGN STORM VOLUME. ALL SURFACE WATER RUN OFF FROM THE CONCRETE APRON IS TO BE COLLECTED INTO THE UNDERGROUND OIL SEPARATOR. SURFACE WATER IS TO BE COLLECTED WHEN QUARANTINE ITEMS ARE SITUATED ON THE CONCRETE SLAB.

ANY WASTEWATER COLLECTED IN THE OIL SEPARATOR IS DISPOSED OF BY A LICENSED WASTE TREATMENT AUTHORITY AND TRANSPORTED TO A LICENSED WASTE TREATMENT FACILITY.

D1.l All other services

DUE TO THE NATURE OF THE FACILITY (INERT MATERIALS) THE LIKELYHOOD OF A FIRE OUT IS HIGHLY UNLIKELY DURING THE BACKFILLING AND RECOVERY ACTIVITY. EXTINGUISHERS ARE KEPT ON SITE AT ALL TIMES SHOULD A FIRE OCCUR.

NO BURIED SERVICES ARE UNDERSTOOD TO OCCUR ACROSS THE SITE AREA.

OVERHEAD POWER LINES (220KV) ARE LOCATED RUNNING FROM WEST TO EAST ACROSS THE SITE. NO OTHER ELECTRICAL SERVICES ARE LOCATED WITHIN THE SITE BOUNDARY. THE SAFETY IMPLICATIONS WITH WORKING NEAR THESE SERVICES WILL BE IMPLEMENTED DURING THE PHASED BACKFILLING OF THE FACILITY.

D1.m Plant sheds garages and equipment compound

PLANT AND EQUIPMENT FOR CARRYING OUT THE BACKFILLING AND RECOVERY PROCESS IS LOCATED ON THE HARD STANDING AREA OF THE SITE. NO WORKSHOPS ARE LOCATED AT THE FACILITY. ANY ITEMS OF PLANT OR EQUIPMENT WHICH MAY REQUIRE OVER HAUL OR SPECIAL REPAIR WILL BE REMOVED OFF-SITE ACCORDINGLY FOR THESE TASKS TO BE CARRIED OUT. SMALL ITEMS OF PLANT AND EQUIPMENT ARE TO BE STORED IN A METAL CONTAINER LOCATED IN THE CENTRE OF THE SITE. THIS CONTAINER IS LOCKED AND LOCATED ON A HARD STANDING AREA.

D1.n Site accommodation

NOT APPLICABLE

D1.o A Fire control system, including water supply

NOT APPLICABLE

D1.p Civic amenity facilities

NOT APPLICABLE

D1.q Any other waste recovery infrastructure

NOT APPLICABLE

D1.r Composting infrastructure

NOT APPLICABLE

D1.s Construction and demolition waste infrastructure

NOT APPLICABLE

D1.t Incineration infrastructure (if applicable)

NOT APPLICABLE

D1.u Any other infrastructure

NOT APPLICABLE

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Attachment D2**Site Security**

ACCESS TO THE FACILITY CAN BE OBTAINED VIA ROAD WHICH IS ADJACENT TO EXISTING PUBLIC ROAD. ALL VEHICULAR TRAFFIC ENTERING THE SITE WILL DO SO VIA A GATEWAY WHICH WILL REMAIN OPEN DURING NORMAL OPERATING HOURS. ALL VEHICULAR TRAFFIC WILL BE CONTROLLED BY THE DESIGNATED FACILITY MANAGER.

THE SITE BOUNDARY SHOWN IN FIGURE EMP (B) IS TO BE CLOSED OFF WITH A FENCE AND IS ADJACENT TO AGRICULTURAL FIELDS. THE SITE IS ENCLOSED BY A FENCE AND THEREFORE NO ACCESS TO THE ADJACENT AGRICULTURAL FIELDS IS AVAILABLE.

THE SPECIFIED MATERIALS IN SECTION 2.6 OF THE EMP ARE ONLY TO BE ACCEPTED AT THE FOLLOWING HOURS:

(A) PROPOSED HOURS OF OPERATION

08:00 – 18:00	MONDAY – FRIDAY
08:00 – 16:00	SATURDAY
NO ACTIVITY	SUNDAY

(B) PROPOSED HOURS OF WASTE ACCEPTANCE/HANDLING

09:00 – 17:30	MONDAY – FRIDAY
09:00 – 15:30	SATURDAY
NO ACTIVITY	SUNDAY

NO MATERIALS WILL BE ACCEPTED AT ANY OTHER TIME OTHER THAN SPECIFIED ABOVE.

Site Roads and Parking Areas

ALL TRUCKS DELIVERING MATERIAL TO THE FACILITY AND CONFINED TO TRAVEL WITHIN THE LICENSED SITE BOUNDARY. THE TRUCKS WILL TRAVEL OVER A TRUNKED ROAD SURFACE CROSSING A WHEELWASH FACILITY AND THEN ENTERING THE ACTIVE BACKFILLING AREA. PROVISION FOR EMPLOYEE AND VISITOR PARKING IS PROVIDED.

Hard standing Areas

THE HARDSTANDING AREA IS NOT SEALED AND ANY RAIN FALLING OVER THIS AREA PERCOLATES DOWNWARDS INTO THE UNDERLYING SOILS OR RUNS-OFF OVER THE GROUND SURFACE TOWARD THE MAIN HAUL ROAD THROUGH THE SITE AND INTO A GROUNDWATER POND IN THE CLOSED DEPRESSION AT THE WESTERN SITE BOUNDARY.

Wheelwash

IN ORDER TO PREVENT SOIL FROM BEING TRANSPORTED ON THE PUBLIC ROAD WHEELWASH HAS BEEN INSTALLED CLOSE TO THE SITE ENTRANCE. ALL VEHICULAR EG SITE TRAFFIC IS REQUIRED TO PASS THROUGH THE DESIGNATED WHEELWASH AREA ENTERING AND EXITING THE FACILITY.

Laboratory Testing

LABORATORY TESTING OF SURFACE WATER, GROUNDWATER, SOILS AND LEACHATE IS UNDERTAKEN BY AN EXTERNAL BODY. ALL TEST SAMPLES ARE RETURNED TO THE LAB THE SAME DAY THEY ARE EXTRACTED FROM THE SITE. TEST RESULTS ARE THEN RETURNED TO QUARRYSTONE LTD. WITHIN TEN WORKING DAYS.

ADDITIONAL MONITORING APPARATUSES ARE BROUGHT ON-SITE BY THE EXTERNAL MONITORING BODY. THEY MEASURE PH VALUES OF THE WATERS ON-SITE, FLOW MEASUREMENTS, AND OTHER MEASUREMENTS.

Fuel and Oil Storage

NO BUNDED FUEL STORAGE TANKS ARE LOCATED ON-SITE. ALL FUEL FOR PLANT AND EQUIPMENT USED FOR THE PROPOSED ACTIVITY IS LOCATED IN DOUBLE SKIN BOWERS LOCATED ON A CONCRETE APRON. ALL BOWERS AND MACHINERY ARE FUELED ON THE CONCRETE APRON.

A WASTE OIL SEPARATOR IS INCORPORATED IN THE CONCRETE SLAB AND IS EMPTIED AT REGULAR INTERVALS BY A LICENSED WASTE CONTRACTOR AND DISPOSED OF OFF-SITE AT A SUITABLE LICENSED WASTE FACILITY.

NO RE-FUELING OF HGV TRUCKS TAKES PLACE ON-SITE. OIL AND LUBRICANT CHANGES FOR TRACKED PLANT ARE UNDERTAKEN ON-SITE AT THE CONCRETE APRON. PLANT MAINTENANCE ON-SITE CONSISTS OF A 360 DEGREE TRACKED EXCAVATOR WHICH IS MAINTAINED WHEN NECESSARY ON-SITE AT THE CONCRETE APRON AREA.

Waste Inspection and Quarantine Areas

A WASTE INSPECTION AND QUARANTINE AREA IS TO BE CONSTRUCTED AT THE FACILITY. IT IS TO CONSIST OF A 100MM THICK CONCRETE SLAB RESTING ON 150MM OF GRANULAR SUB-BASE AND BUNDED TO A DESIGN STORM VOLUME. MATERIAL WHICH IS DEEMED OR SUSPECTED OF BEING NON-COMPLIANT WITH THAT WHICH IS PERMITTED ON-SITE WILL BE PLACED IN THIS AREA AND COVERED WITH PLASTIC SHEETING. THIS WILL ENSURE NO CONTAMINATION CAN OCCUR IN THIS PLACE.

ON-SITE STAFF UNDERTAKES IN-SITU MONITORING OF THE MATERIAL AND SHOULD MATERIAL BE DEEMED OR SUSPECTED AS UNSUITABLE IT IS TO BE REMOVED TO THE WASTE AND QUARANTINE AREA FOR FURTHER INSPECTION.

ALL ITEMS DEEMED TO BE NON-COMPLIANT WITH THE LICENSING AT THE DOK QUARRYSTONE FACILITY SHALL BE REMOVED FROM THE FACILITY BY A LICENSED WASTE DISPOSAL AUTHORITY. THIS IS THEN TO BE DISPOSED OF AT A SUITABLY LICENSED FACILITY.

Traffic Controls

ACCESS TO THE FACILITY CAN BE OBTAINED VIA ROAD WHICH IS ADJACENT TO EXISTING PUBLIC ROAD. ALL VEHICULAR TRAFFIC ENTERING THE SITE WILL DO SO VIA A GATEWAY WHICH

REMAIN OPEN DURING NORMAL OPERATING HOURS. ALL VEHICULAR TRAFFIC WILL BE DIRECTED BY THE DESIGNATED FACILITY MANAGER.

WITHIN THE SITE BOUNDARY NOTICES, SPEED RESTRICTIONS AND DIRECTIONAL ARROWS WILL BE LOCATED ON ALL CONSTRUCTION ROADS LEADING TO AND FROM THE BACKFILLING AREA. ALL HGV TRAFFIC EXITING THE FACILITY WILL BE REQUIRED TO PASS THROUGH THE WHEELWASH FACILITY IN PLACE ON-SITE.

Surface Water Drainage Infrastructure

NO DRAINAGE INFRASTRUCTURE HAS BEEN INSTALLED ON-SITE TO COLLECT AND REMOVE SURFACE WATER RUN-OFF OTHER THAN THAT OF THE CONCRETE APRON. SURFACE WATER IS NOT PERMITTED TO RUN OVER THE EXISTING GROUND SURFACE AND COLLECT AT THE DESIGNATED SETTLEMENT PONDS AND DISCHARGE TO GROUNDWATER. RAINFALL MAY ALSO PERMEATE DOWNWARDS THROUGH THE BACKFILLED SOIL TO THE UNDERLYING GROUNDWATER TABLE. AT ALL TIMES DURING THE PROPOSED ACTIVITY SHALL SURFACE WATER RUN-OFF BE PERMITTED TO COLLECT INTO WATERCOURSES OF PONDS BEYOND THE SITE BOUNDARY.

THE INSPECTION AND QUARANTINE CONCRETE APRON IS SEALED BY 100MM THICK CONCRETE REINFORCED CONCRETE AND RESTING ON 150MM OF GRANULAR SUB-BASE AND BUNDING TO DESIGN STORM VOLUME. ALL SURFACE WATER RUN OFF FROM THE CONCRETE APRON IS TO BE COLLECTED INTO THE UNDERGROUND OIL SEPARATOR. SURFACE WATER IS TO BE COLLECTED WHEN QUARANTINE ITEMS ARE SITUATED ON THE CONCRETE SLAB.

ANY WASTEWATER COLLECTED IN THE OIL SEPARATOR IS DISPOSED OF BY A LICENSED WASTE AUTHORITY AND TRANSPORTED TO A LICENSED WASTE FACILITY.

Site Services

DUE TO THE NATURE OF THE FACILITY (INERT MATERIALS) THE LIKELY HOOD OF A FIRE OUT IS HIGHLY UNLIKELY DURING THE BACKFILLING AND RECOVERY ACTIVITY. EXTINGUISHERS ARE KEPT ON SITE AT ALL TIMES SHOULD A FIRE OCCUR.

NO BURIED SERVICES ARE UNDERSTOOD TO OCCUR ACROSS THE SITE AREA.

OVERHEAD POWER LINES (220KV) ARE LOCATED RUNNING FROM WEST TO EAST ACROSS THE SITE. NO OTHER ELECTRICAL SERVICES ARE LOCATED WITHIN THE SITE BOUNDARY. THE SAFETY IMPLICATIONS WITH WORKING NEAR THESE SERVICES WILL BE IMPLEMENTED DURING THE PHASED BACKFILLING OF THE FACILITY.

Plant Sheds and Equipment Compounds

PLANT AND EQUIPMENT FOR CARRYING OUT THE BACKFILLING AND RECOVERY PROCESS IS TO BE LOCATED ON THE HARD STANDING AREA OF THE SITE. NO WORKSHOPS ARE LOCATED ON THE FACILITY. ANY ITEMS OF PLANT OR EQUIPMENT WHICH MAY REQUIRE OVER HAUL OR SPECIAL REPAIR WILL BE REMOVED OFF-SITE ACCORDINGLY FOR THESE TASKS TO BE CARRIED OUT. SMALL ITEMS OF PLANT AND EQUIPMENT ARE TO BE STORED IN A METAL CONTAINER LOCATED IN THE CENTRE OF THE SITE. THIS CONTAINER IS LOCKED AND LOCATED ON A HARD STANDING AREA.

ATTACHMENT D4**OFF-SITE WASTEWATER DISPOSAL**

AS PART OF THIS APPLICATION, PROMSION IS MADE FOR CONSTRUCTION OF A TEMPORARY WASTE INSPECTION AND QUARANTINE AREA ADJACENT TO THE WASTE RECOVERY OPERATION IN THE CENTRE OF THE SITE. THIS AREA WILL COMPRISE A 100MM THICK REINFORCED CONCRETE SLAB OVER 150MM OF GRANULAR SUB-BASE, BUNDED TO A DESIGN STORM VOLUME. ANY SURFACE WATER RUNNING OVER THE SURFACE OF THE CONCRETE SLAB WILL BE DIRECTED TOWARD BURIED STORAGE TANKS WITH DOUBLE SKIN PROTECTION. SURFACE WATER WILL ONLY BE COLLECTED IN THE BURIED TANKS WHEN SUSPECT WASTE CONSIGNMENTS ARE STORED AT THE QUARANTINE FACILITY. AT ALL OTHER TIMES, SURFACE WATER RUN-OFF THE SEALED SLAB WILL EITHER PERCOLATE DIRECTLY THROUGH THE GROUND TO THE UNDERLYING GROUNDWATER TABLE OR WILL BE DIRECTED OVER THE EXISTING GROUND SURFACE TO PONDS IN LOWER LYING AREAS, AT WHICH POINT IT IS EFFECTIVELY DISCHARGED TO GROUNDWATER. SHOULD IT BE NECESSARY TO PREVENT HIGH CONCENTRATIONS OF SUSPENDED SOLIDS ENTERING EXISTING GROUNDWATER PONDS, INTERMEDIATE UNLINED TEMPORARY SURFACE WATER POND WILL BE CONSTRUCTED AS AND WHERE NECESSARY TO HOLD RUN-OFF AND ENCOURAGE SETTLING OUT OF SUSPENDED SOLIDS, PRIOR TO DISCHARGE TO GROUNDWATER PONDS AT A LOWER LEVEL. ANY WASTEWATER COLLECTED IN THE BURIED STORAGE TANKS WILL BE EMPTIED AS AND WHEN REQUIRED BY LICENSED WASTE COLLECTORS AND TRANSFERRED TO A COLLECTION TANKER FOR DISPOSAL OFF-SITE AT AN APPROVED WASTEWATER TREATMENT FACILITY.

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ATTACHMENT D6 – CAPPING SYSTEM**D6.a Has the daily cover been specified?**

NO. NOT APPLICABLE. THIS WASTE LICENCE APPLICATION PROVIDES FOR BACKFILLING OF FORMER QUARRY USING ONLY INERT SOILS AND INERT RECOVERED CONSTRUCTION AND DEMOLITION WASTE. AS NO BIODEGRADABLE (ORGANIC) MATERIAL WILL BE USED IN BACKFILLING THE SITE, THERE IS NO REQUIREMENT FOR ANY DAILY COVER TO CONTROL LITTER, BIRD, VERMIN AND ODOUR NUISANCES.

D6.b Has the intermediate cover been specified?

NO. NOT APPLICABLE. REFER TO ANSWER PROVIDED IN D6A ABOVE.

D6.c Has the temporary capping been specified?

NO. NOT APPLICABLE. REFER TO ANSWER PROVIDED IN D6A ABOVE.

D6.d Has the capping system been designed and does it meet the requirements of the Landfill Directive Annex 1?

NO. NOT APPLICABLE AS THIS WASTE LICENCE APPLICATION PROVIDES FOR BACKFILLING OF FORMER QUARRY USING ONLY INERT SOILS AND INERT RECOVERED CONSTRUCTION AND DEMOLITION, THERE IS NO REQUIREMENT TO SEAL THE GROUND SURFACE TO ELIMINATE ENVIRONMENTAL HAZARDS TO GROUND AND/OR GROUNDWATER.

D6.e Does the capping include a flexible membrane liner?

NO. NOT APPLICABLE. THIS WASTE LICENCE APPLICATION PROVIDES FOR BACKFILLING OF FORMER QUARRY USING ONLY INERT SOILS AND INERT RECOVERED CONSTRUCTION AND DEMOLITION WASTE. AS NO BIODEGRADABLE (ORGANIC) MATERIAL WILL BE USED IN BACKFILLING THE SITE, THERE IS NO REQUIREMENT FOR A CAPPING LAYER AND/OR FLEXIBLE MEMBRANE TO SEAL THE GROUND SURFACE.

D6.f Have all the capping materials been specified?

NO. NOT APPLICABLE. AS THIS WASTE LICENCE APPLICATION PROVIDES FOR BACKFILLING OF FORMER QUARRY USING ONLY INERT SOILS AND INERT RECOVERED CONSTRUCTION AND DEMOLITION, THERE IS NO REQUIREMENT TO SEAL THE GROUND SURFACE TO ELIMINATE ENVIRONMENTAL HAZARDS TO GROUND AND/OR GROUNDWATER. UP TO 1M OF COVER SOILS (COMPRISING TOPSOIL AND SUBSOIL) WILL BE PROVIDED IMMEDIATELY BELOW THE FINAL GROUND SURFACE.

D6.g Has a Method Statement for construction been produced?

NO. NOT APPLICABLE.

D6.h Has a Quality Control Plan been produced?

NO. NOT APPLICABLE.

D6.i Has a Quality Assurance Plan been produced?

NO. NOT APPLICABLE.

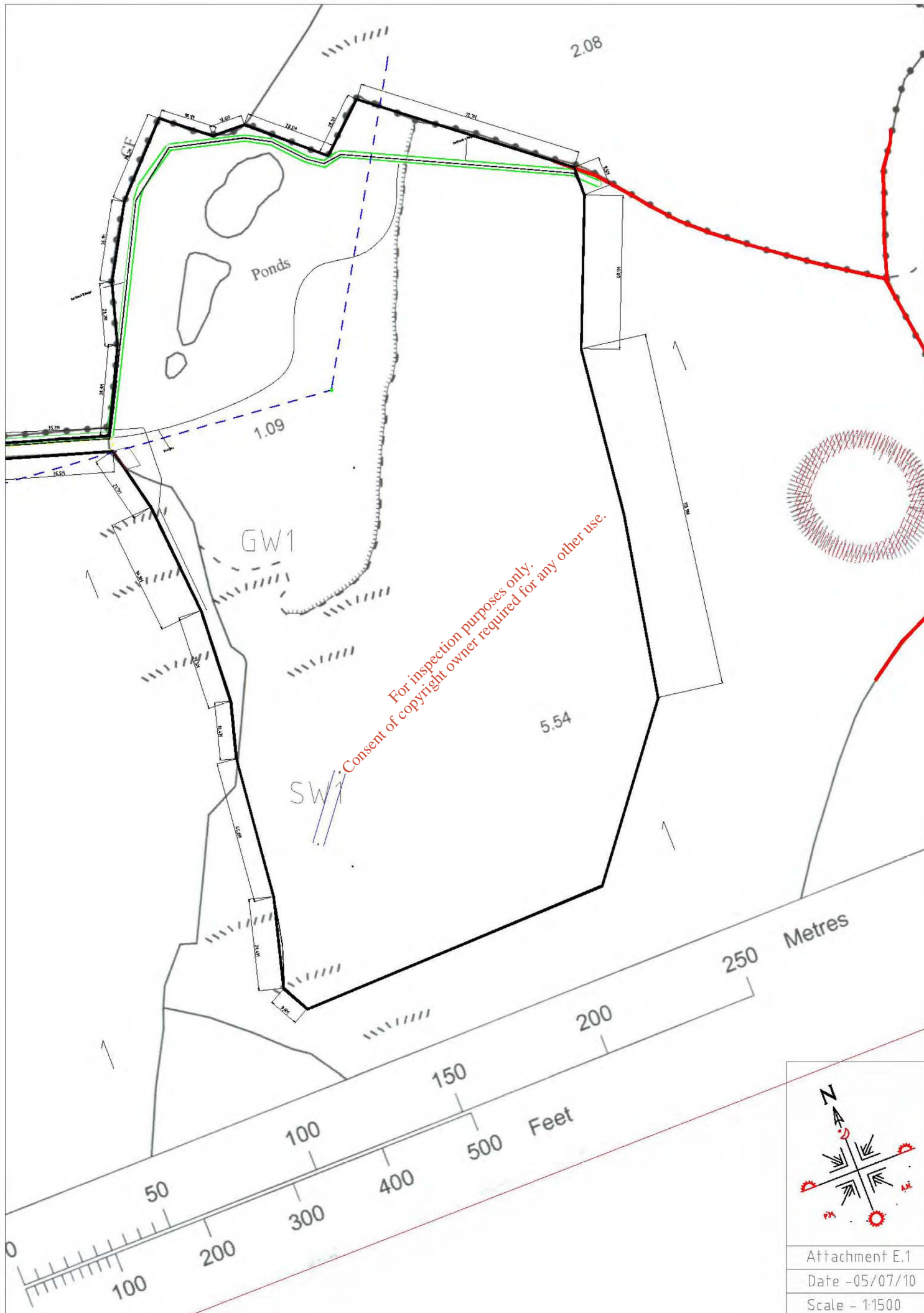
D6.j Has a programme for monitoring landfill stability been developed.

NQ. NOT APPLICABLE

D6.k Has a programme for monitoring settlement been developed?

NQ. NOT APPLICABLE

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Attachment E

Emission point notes

- SURFACE WATER EMISSION POINTS SHOWN AND LABELED ON THE ATTACHED DRAWING
- NOSEWER EMISSION POINTS ARE PRESENT ON THE SITE
- NOISE EMISSION WILL BE FROM PLANT ON SITE AND WILL BE MOBILE; THEREFORE AN EXACT LOCATION OF SUCH EMISSIONS CAN NOT BE ESTABLISHED.
- THE OIL SEPARATOR SHOWN ON THE ACCOMPANIED DRAWING IDENTIFIES THE GROUND WATER EMISSION POINT.
- NO OTHER GROUND WATER EMISSION POINTS ARE PRESENT ON-SITE AS THE REMAINING WATER WILL PERCOLATE THROUGH THE HARDCORE.
- NO SOIL/GROUND EMISSION POINTS ARE PRESENT ON-SITE.
- NO WASTE EMISSION POINTS ARE PRESENT ON-SITE.

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ATTACHMENT E2

EMISSIONS TO SURFACE WATER

THERE ARE NO OTHER SURFACE WATERCOURSES WITHIN OR IN THE IMMEDIATE VICINITY. ALL EXISTING WATER FEATURES WITHIN THE APPLICATION SITE ARE CONSIDERED TO BE GROUNDWATER FEATURES. METEORIC WATER FALLING OVER EXISTING AND/OR FUTURE LANDFORMS AT THE APPLICATION SITE WILL EITHER RUN OVER THE SURFACE OR PERCOLATE THROUGH BACKFILLED AND/OR NATURAL SOIL TO THE UNDERLYING GROUNDWATER TABLE. THERE HAVE BEEN NO EMISSIONS TO WATERCOURSES OR PONDS BEYOND THE BOUNDARY OF THE APPLICATION SITE IN UNDERTAKING SITE RESTORATION WORKS TO DATE. AT NO TIME DURING THE FUTURE RESTORATION WORKS WILL SURFACE WATER RUN-OFF BE DIRECTED TO A RIVER, WATERCOURSES OR PONDS BEYOND THE SITE BOUNDARY. WITH THE EXCEPTION OF THE SEALED CONCRETE SLAB AT THE WASTE INSPECTION AND QUARANTINE AREA, IT IS INTENDED TO PROMOTE ANY SITE DRAINAGE INFRASTRUCTURE TO COLLECT AND REMOVE SURFACE WATER RUN-OFF AT THE APPLICATION SITE. THE TEMPORARY WASTE INSPECTION AND QUARANTINE AREA WILL BE SEALED BY A 100MM THICK REINFORCED CONCRETE SLAB OVER A 150MM OF GRANULAR SUB-BASE AND BUNDED TO A DESIGN STORM VOLUME. ANY SURFACE WATER RUNNING OVER THE SURFACE OF THE CONCRETE SLAB WILL BE DIRECTED TOWARD BURIED STORAGE TANKS WITH DOUBLE SKIN PROTECTION. SURFACE WATER WILL ONLY BE COLLECTED IN THE BURIED TANKS WHEN SUSPECT WASTE CONSIGNMENTS ARE STORED AT THE QUARANTINE FACILITY. ANY WASTEWATER COLLECTED IN THE BURIED TANKS WILL BE EMPTIED BY LICENSED WASTE COLLECTORS AND TRANSFERRED TO A COLLECTION TANKER FOR DISPOSAL OFF-SITE AT AN APPROVED WASTE WATER TREATMENT FACILITY.

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ATTACHMENT E4***EMISSIONS TO GROUNDWATER***

ALL EXISTING WATER FEATURES WITHIN THE APPLICATION SITE ARE CONSIDERED TO BE GROUNDWATER FEATURES. ALL METEORIC WATER FALLING OVER EXISTING AND/OR FUTURE LANDFORMS AT THE APPLICATION SITE WILL EITHER RUN OVER THE SURFACE TO GROUNDWATER PONDS FORMING IN CLOSED DEPRESSIONS WITHIN THE SITE OR WILL PERCOLATE THROUGH BACKFILLED AND/OR NATURAL SOIL TO THE UNDERLYING GROUNDWATER TABLE. GROUNDWATER IN THE GRAVEL AQUIFER HAS BEEN INTERCEPTED BY THE FORMER QUARRY WORKINGS AND IS EVIDENCED BY A SPRING IN THE QUARRY FLOOR BELOW THE ELECTRICITY Pylon IN THE NORTH EASTERN CORNER OF THE SITE. GROUNDWATER EMERGING AT THIS SPRING IS COLLECTED BY A BURIED DRAINAGE PIPE AND DISCHARGED TO THE GROUNDWATER POND OVER THE QUARRY FLOOR IN THE NORTHERN PART OF THE SITE VARIES SEASONALLY. A CLOSED DEPRESSION IN THE SOUTH-WESTERN CORNER OF THE SITE ALSO INTERCEPTS THE GROUNDWATER TABLE AT ITS HIGHEST POINT GIVING RISE TO A POND FEATURE. AVAILABLE GROUNDWATER TEST DATA INDICATES THAT THERE IS NO DISPARITY BETWEEN GROUNDWATER QUALITY OF SAMPLES RECOVERED AT THE UP AND DOWN GRADIENT AND DOWN GRADIENT END OF THE APPLICATION SITE. THIS SUGGESTS THAT HISTORICAL AND/OR ONGOING SITE OPERATIONS HAVE HAD NO ADVERSE IMPACT ON GROUNDWATER QUALITY. AS THE RESTORATION OF THE FORMER GRAVEL QUARRY AT GARRANMORE ENTAILS PLACEMENT AND BACKFILLING USING ONLY INERT SOIL AND RECYCLED CONSTRUCTION AND DEMOLITION WASTES, NO LEACHATE WILL BE GENERATED BY PERCOLATION OF RAINFALL THROUGH THE BACKFILLED AND/OR NATURAL GROUND. CONSEQUENTLY, THERE IS NO REQUIREMENT FOR A LINING SYSTEM OR LEACHATE COLLECTION SYSTEM AT THIS WASTE FACILITY. AT EACH PHASE OF THE PROPOSED RESTORATION WORKS, THE BACKFILLED GROUND SURFACE WILL BE GRADED SO AS TO ENSURE SURFACE WATER RUN-OFF FLOWS TOWARD A LOCAL LOW POINT IN ORDER TO PREVENT HIGH CONCENTRATIONS OF SUSPENDED SOLIDS ENTERING EXISTING GROUNDWATER PONDS, INTERMEDIATE TEMPORARY SURFACE WATER PONDS WILL BE CONSTRUCTED TO HOLD ANY SURFACE WATER RUN OFF FROM THE ACTIVE BACKFILL AREAS. THESE TEMPORARY PONDS WILL ENCOURAGE SETTLING OUT OF SUSPENDED SOLIDS AND CONTROL DISCHARGE TO GROUNDWATER PONDS AT A LOWER LEVEL DURING THE DEVELOPMENT AND OPERATION OF THE SITE, THERE IS A SMALL RISK OF GROUNDWATER POLLUTION FROM THE FOLLOWING POTENTIAL SOURCES:

- ACCIDENTAL SPILLAGE OF FUELS AND LUBRICANTS BY CONSTRUCTION PLANT PLACING THE INERT FILL AND OTHER OPERATIONAL PROCEDURES;
- INCREASE IN SUSPENDED SOLIDS AND POTENTIAL FOR CONTAMINATED RUNOFF ENTERING GROUNDWATER DURING DEVELOPMENT OF THE SITE; AND
- ROGUE LOADS OF CONTAMINATED MATERIAL BEING DEPOSITED AT THE SITE.
- IN ORDER TO MINIMISE THE RISK OF POLLUTION TO GROUNDWATER OCCURRING DURING THE SITE RESTORATION WORKS, A NUMBER OF MITIGATION MEASURES ARE PROPOSED. THESE MEASURES GIVE EFFECT TO COUNCIL DIRECTIVE 80/68/EEC ON THE PROTECTION OF GROUNDWATER AGAINST POLLUTION.
- THE ENGINEERING WORKS ASSOCIATED WITH THE SPRING DISCHARGE ARE PROPOSED TO COMPRISE THE FOLLOWING:

- GRANULAR FILLOF40MM SINGLE SIZED GRANUAR MATERIALWILBE PLACED WITHA THICKNESS OF
- 600MM ABOVE THE EXISTING 300MM CONCRETE PIPE AND WILLBE SEPARATED FROM THE INERT WASTE BYMEANS OFA GEOTEXTIIE PROTECTOR;
- A NEW 300MM CONCRETE PIPE WILLBE CONNECTED TOTHE EXISTING PIPE AND WILL BE PLACED WITHIN A TRENCH IN THE IN-SITU SAND AND GRAVELS DEPOSITS. THE PIPE WILLHAVE A GRANUAR SURROUND OF40MM. THIS WILLIN TURN BE SEPARATED FROM THE IN-SITU SOILS BYA GEOTEXTIIE SEPARATOR;
- THE JOIN WILLFORM A 90 DEGREE BEND ENCASED IN A CONCRETE THRUST BLOCK WITH 400MM GRAVELSURROUND AND A GEOTEXTIIE SEPARATOR TOPREVENT LEAKAGE IN OR OUT;
- THE NEW DRAINAGE TRENCHAND CONCRETE PIPE WILLBE DIRECTED TOA SOAKAWAY (10M BY 10M) TODISCHARGE DIRECTLY INTOIN-SITU SAND AND GRAVELDEPOSITS;
- THE SOAKAWAYWILLBE PARTIALLY CONSTRUCTED WITHIN THE IN-SITU SANDS AND GRAVELS AND WILLEXTEND BELOW THE GROUNDWATER LEVEL THE BASE OFTHE SOAKAWAYWILLBE LAID WITH100MMSINGLE SIZED GRANUAR MATERIALOR SIMILAR APPROVED GRADING. THE GEOTEXTIIE SEPARATOR WHICHIS PLACED BELOW THE CONCRETE PIPE WILLCONTINUE AND WILLBE PLACED IN THE SOAKAWAY
- THE CONCRETE PIPE WILLALLOW DISCHARGE OFTHE SPRING WATER INTOTHIS GRANU MATERIALAND ABOVE THE GROUNDWATER TABIE IN THE SOAKAWAY.

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ATTACHMENT E5**NOISE EMISSIONS**

NOISE AT THE APPLICATION SITE IS PRINCIPALLY GENERATED BY TRAFFIC MOVEMENTS AND MOBILE CONSTRUCTION PLANT. THERE ARE NO FIXED (POINT) NOISE SOURCES AT THE SITE. THERE WILL BE NO ADDITIONAL NOISE GENERATED AT THE APPLICATION SITE OVER AND ABOVE THAT CURRENTLY GENERATED BY THE ONGOING SITE RESTORATION WORKS. IN THE LONGER TERM, ON COMPLETION OF THE RESTORATION WORKS, THERE WILL BE NO NOISE EMISSIONS FROM THE SITE.

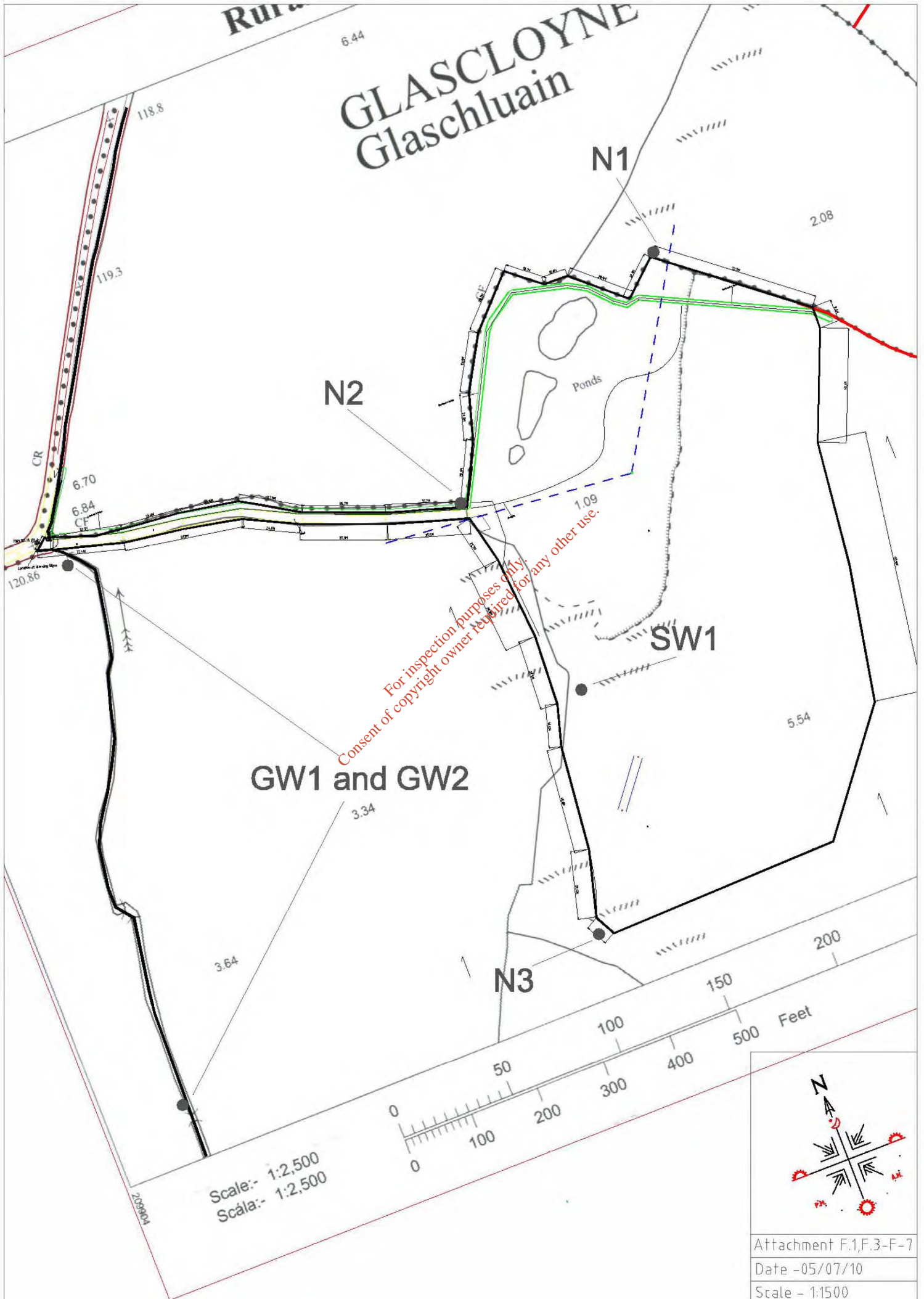
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Attachment E6

<i>Bird Control</i>	Not Applicable
<i>Dust Control</i>	See EMP 7.3
<i>Fire Control</i>	See EMP 7.7
<i>Litter Control</i>	Not Applicable
<i>Traffic Control</i>	See EMP 3.8
<i>Vermin Control</i>	Not Applicable
<i>Road Cleansing</i>	See EMP 7.8

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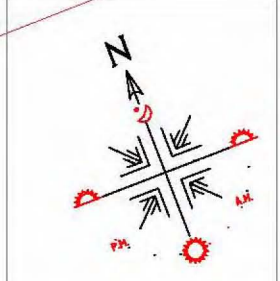
GLASCLOYNE Glascluain



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GW1 and GW2

Scale:- 1:2,500
Scala:- 1:2,500



Attachment F.1,F.3-F-7
Date -05/07/10
Scale - 1:1500

Attachment F2

GROUNDWATER PROTECTION

IN ORDER TO MINIMISE THE RISK OF POLLUTION TO GROUNDWATER OCCURRING DURING THE SITE RESTORATION WORKS, A NUMBER OF MITIGATION MEASURES ARE PROPOSED. THESE MEASURES GIVE EFFECT TO COUNCIL DIRECTIVE 80/68/EEC ON THE PROTECTION OF GROUNDWATER AGAINST POLLUTION. NOISE AND DUST LEVELS FROM ESTABLISHED SITE ACTIVITIES DO NOT EXCEED RECOGNISED THRESHOLD EMISSION LIMITS FOR EXTRACTIVE INDUSTRY, NOR IS IT ENVISAGED THAT THEY WILL DO SO IN THE FUTURE. ENVIRONMENTAL MANAGEMENT SYSTEMS WILL BE PUT IN PLACE TO MINIMISE AND CONTROL EMISSIONS TO THE ENVIRONMENT DURING THE RESTORATION WORKS.

1. In order to achieve the objective of preventing or limiting inputs of pollutants into groundwater, established in accordance with Article 4(1)(b)(i) of Directive 2000/60/EC, Member States shall ensure that the programme of measures established in accordance with Article 11 of that Directive includes:

(a) all measures necessary to prevent inputs into groundwater of any hazardous substances, without prejudice to paragraphs 2 and 3. In identifying such substances, Member States shall in particular take account of hazardous substances belonging to the families or groups of pollutants referred to in points 1 to 6 of Annex VIII to Directive 2000/60/EC, as well as of substances belonging to the families or groups of pollutants referred to in points 7 to 9 of that Annex, where these are considered to be hazardous;

GROUND WATER MONITORING AND SAMPLING POINTS HAVE BEEN ESTABLISHED ON-SITE IN THREE LOCATIONS. THESE ARE MONITORED QUARTERLY AND TESTED BY AN EXTERNAL BODY FOR SUCH SUBSTANCES MENTIONED IN POINTS 1 TO 6 OF ANNEX VIII TO DIRECTIVE 2000/60/EC, AS WELL AS SUBSTANCES BELONGING TO THE FAMILIES OR GROUPS OF POLLUTANTS REFERRED TO IN POINTS 7 TO 9 OF THAT ANNEX.

(b) for pollutants listed in Annex VIII to Directive 2000/60/EC which are not considered hazardous, and any other non-hazardous pollutants not listed in that Annex considered by Member States to present an existing or potential risk of pollution, all measures necessary to limit inputs into groundwater so as to ensure that such inputs do not cause deterioration or significant and sustained upward trends in the concentrations of pollutants in groundwater. Such measures shall take account, at least, of established best practice, including the Best Environmental Practice and Best Available Techniques specified in the relevant Community legislation.

GROUND WATER MONITORING AND SAMPLING POINTS HAVE BEEN ESTABLISHED ON-SITE IN THREE LOCATIONS. THESE ARE MONITORED QUARTERLY AND TESTED BY AN EXTERNAL BODY FOR SUCH SUBSTANCES MENTIONED IN POINTS 1 TO 6 OF ANNEX VIII TO DIRECTIVE 2000/60/EC, AS WELL AS SUBSTANCES BELONGING TO THE FAMILIES OR GROUPS OF POLLUTANTS REFERRED TO IN POINTS 7 TO 9 OF THAT ANNEX.

For the purpose of establishing measures referred to in points (a) or (b), Member States may, as a first step, identify the circumstances under which the pollutants listed in Annex VIII to Directive 2000/60/EC, in particular essential metals and their compounds referred to in point 7 of that Annex, are to be considered hazardous or non-hazardous.

2. Inputs of pollutants from diffuse sources of pollution having an impact on the groundwater chemical status shall be taken into account whenever technically possible.

“3. Without prejudice to any more stringent requirements in other Community legislation, Member States may exempt from the measures required by paragraph 1 inputs of pollutants that are”

NOT APPLICABLE

Article 4(1)

(b) of Directive 2000/60/EC. The exemptions provided for in points (a) to (f) may be used only where the Member States' competent authorities have established that efficient monitoring of the bodies of groundwater concerned, in accordance with point 2.4.2 of Annex V to

Directive 2000/60/EC, or other appropriate monitoring, is being carried out.

4. The competent authorities of the Member States shall keep an inventory of the exemptions referred to in paragraph 3 for the purpose of notification, upon request, to the Commission.

GROUND WATER MONITORING AND SAMPLING POINTS HAVE BEEN ESTABLISHED ON-SITE IN THE LOCATIONS. THESE ARE MONITORED QUARTERLY AND TESTED BY AN EXTERNAL BODY FOR SUCH SUBSTANCES MENTIONED IN POINTS 1 TO 6 OF ANNEX VIII TO DIRECTIVE 2000/60/EC, AS WELL AS SUBSTANCES BELONGING TO THE FAMILIES OR GROUPS OF POLLUTANTS REFERRED TO IN POINTS 7 TO 10 OF THAT ANNEX.

Attachment F.2

DETAILS OF THE AIR MONITORING AND SAMPLING TO BE UNDERTAKEN AS PART OF THE PROPOSED RESTORATION SCHEME ARE PROVIDED IN SECTION 8 ENVIRONMENTAL CONTROLS

Monitoring reference No.	Parameter	Monitoring frequency	Location (Grid Co-ordinates)	Accessibility of sampling points
D1	DUST	QUARTERLY	144102E, 210256N	EASY – ALONG SITE BOUNDARY
D2	DUST	QUARTERLY	144061E, 210076N	EASY – ALONG SITE BOUNDARY
D3	DUST	QUARTERLY	143781E, 209999N	EASY – ALONG SITE BOUNDARY

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Attachment F.3

DETAILS OF THE SURFACE WATER MONITORING AND SAMPLING TO BE UNDERTAKEN AS PART OF THE PROPOSED RESTORATION SCHEME ARE PROVIDED IN SECTION 8 ENVIRONMENTAL CONTROLS

Monitoring reference No.	Parameter	Monitoring frequency	Location (Grid Co-ordinates)	Accessibility of sampling points
SW1	SURFACE WATER	QUARTERLY	210010E, 143855N	EASY – EDGE OF EXISTING POND

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Attachment F.5

DETAILS OF THE GROUNDWATER MONITORING AND SAMPLING TO BE UNDERTAKEN AS PART OF THE PROPOSED RESTORATION SCHEME ARE PROVIDED IN SECTION 8 ENVIRONMENTAL CONTROLS

Monitoring reference No.	Parameter	Monitoring frequency	Location (Grid Co-ordinates)	Accessibility of sampling points	
GW1	GROUNDWATER	QUARTERLY	209954E, 143760N	EASY – ALONG BOUNDARY	SITE
GW2	GROUNDWATER	QUARTERLY	209998E, 144010N	EASY – ALONG BOUNDARY	SITE
WEI1	GROUNDWATER	QUARTERLY	210111E, 143899N	EASY – ALONG BOUNDARY	SITE
WEI2	GROUNDWATER	QUARTERLY	210230E, 144098N	EASY – ALONG BOUNDARY	SITE

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Attachment F.6

DETAILS OF THE NOISE MONITORING AND SAMPLING TO BE UNDERTAKEN AS PART OF THE PROPOSED RESTORATION SCHEME ARE PROVIDED IN SECTION 8 ENVIRONMENTAL CONTROLS

Monitoring reference No.	Parameter	Monitoring frequency	Location (Grid Co-ordinates)	Accessibility of sampling points
N1	NOISE	QUARTERLY	144102E, 210256N	EASY – ALONG SITE BOUNDARY
N2	NOISE	QUARTERLY	144061E, 210076N	EASY – ALONG SITE BOUNDARY
N3	NOISE	QUARTERLY	143781E, 209999N	EASY – ALONG SITE BOUNDARY

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Attachment F.7

NO METEOROLOGICAL MONITORING IS TO BE UNDERTAKEN AT THE SITE. TEMPERATURE, RAINFALL, WIND SPEED AND DIRECTION ARE RECORDED AT THE LOCAL WEATHER STATION. ALL RELEVANT CLIMATIC DATA IS AVAILABLE FROM LOCAL WEATHER STATIONS WHEN AND IF NECESSARY.

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Attachment G.1

INERT MATERIAL (CONSTRUCTION AND DEMOLITION WASTE) HAS BEEN DESIGNATED AS KEY AND ONLY MATERIAL ALLOWED FOR THE BACKFILLING OF THIS FACILITY. THE SITE IS DESIGNED SO AS IT CAN DEAL WITH THE ISSUES IF ANY THAT INERT MATERIAL MAY POSSESS. NON INERT MATERIAL IS NOT DESIGNATED AT THIS FACILITY.

SMALL SCALE ELECTRICAL CONSUMPTION WILL BE REQUIRED FOR LIGHTING, HEATING, SITES OFFICES ETC AND WILL BE SOURCED FROM OVERHEAD POWER LINES.

A 360 DEGREE ROTATING EXCAVATOR IS TO BE USED FOR EXCAVATION AND COMPACTION PURPOSES AND IS TO BE DIESEL POWERED. ALL DIESEL REQUIREMENTS WILL BE STORED IN DOUBLE SKIN BOWSERS ON A CONCRETE APRON LOCATED ON A HARDSTANDING AREA.

DUE TO THE INERT NATURE OF THE MATERIALS BEING ACCEPTED AT THE FACILITY NO LANDFILL GAS WILL BE GENERATED. ACCORDINGLY, NO PROVISIONS HAVE BEEN MADE FOR THE COLLECTION OF LANDFILL GAS OR FOR A POWER GENERATION UNIT.

THE FACILITY WILL ACCEPT MATERIAL FOR 50 WEEKS OF EACH YEAR FOR 12 YEARS. THIS WILL FULFIL THE CAPACITY OF THE FACILITY AND THE DIESEL REQUIREMENTS TO DO THIS ARE AS FOLLOWS:

	Fuel consumption	Fuel consumed
Waste Placement and compaction		
MECHANICAL EXCAVATOR	300 LITRES/WEEK	180,000LITRES
Other		
SITE VEHICLES(1.NO)	40/ LITRES/WEEK	24,000LITRES
Total Fuel consumption	340 LITRES/WEEK	204,000LITRES

PLEASE NOTE THAT THESE FUEL CALCULATIONS ARE BASED ON THE FOLLOWING ASSUMPTIONS:

- BACKFILLING OF THE SITE REMAINS AT A CONSTANT RATE
- THE FUEL EFFICIENCY OF ALL PLANT AND EQUIPMENT, SITE VEHICLES ETC WILL NOT IMPROVE OVER THE LIFE CYCLE OF THE FACILITY
- NO ALTERNATIVES TO DIESEL FUEL WILL BECOME AVAILABLE FOR COMMERCIAL USE OVER THE LIFE CYCLE OF THE FACILITY

BASED ON THE CONTOUR AND SITE FACILITY MAPS THE LIFE EXPECTANCY OF THE SITE CAN BE CALCULATED AT 246M³ PER DAY. THIS AMOUNTS TO APPROXIMATELY 68,000M³ PER ANNUM. THE TOTAL CAPACITY OF THE SITE IS 816,000M³. THEREFORE THE LIFE EXPECTANCY OF THE QUARRY IS TO BE 12 YEARS. RECOVERY OF CONSTRUCTION AND DEMOLITION WASTE WILL ONLY TAKE PLACE AS LONG AS THE BACKFILLING PROCESS IS BEING UNDERTAKEN.

Attachment H.1

THE AREA TO WHICH THE LICENCE APPLIES IS 3.5 HECTARES (8.65 ACRES). THE SITE IS A SPENT GRAVEL QUARRY WHICH IS NO LONGER IN USE FOR GRAVEL EXTRACTION. THE EASTERN SECTION OF THE SITE HAS BEEN BACK FILLED USING INERT NATURAL SAND ACCORDANCE WITH SOUTH TIPPERARY COUNTY COUNCIL WASTE PERMIT REF. NWP/038-01. THIS AREA HAS BEEN COMPLETELY FILLED TO ITS ORIGINAL GROUND LEVEL TO QUARRYING PERIOD.

THE PROPOSED RESTORATION WORKS CONSISTS OF THE FOLLOWING ITEMS:

- RECOVERY OF INERT CONSTRUCTION AND DEMOLITION WASTE
- IMPORTATION, PLACEMENT AND COMPACTION OF INERT SOILS AND STONES AND RECYCLED CONSTRUCTION WASTE
- RETURNING SITE TO ORIGINAL LEVELS PRE QUARRY PERIOD FINISHED WITH A PAVED GRASS FINISH

OPERATIONAL HOURS ARE AS FOLLOWS:

(A) PROPOSED HOURS OF OPERATION

08:00 – 18:00	MONDAY – FRIDAY
08:00 – 16:00	SATURDAY
NO ACTIVITY	SUNDAY

(B) PROPOSED HOURS OF WASTE ACCEPTANCE/HANDLING

09:00 – 17:30	MONDAY – FRIDAY
09:00 – 15:30	SATURDAY
NO ACTIVITY	SUNDAY

NO RESTORATION/ MATERIALS HANDLING OR ACCEPTANCE IS TO TAKE PLACE ON BANK HOLIDAYS.

THE FOLLOWING ITEMS HAVE BEEN IDENTIFIED IN ACCORDANCE WITH THE EUROPEAN WASTE CATALOGUE:

EWC Code	Description
17 01 01	CONCRETE
17 01 02	BRICKS
17 01 03	TILES AND CERAMICS
17 01 07	MIXTURE OF CONCRETE BRICKS, TILES AND CERAMICS OTHER THAN THOSE MENTIONED IN 17 01 06
17 05 04	SOIL AND STONES OTHER THAN THOSE MENTIONED IN 17 05 03

The expected annual quantities are indicated for the five year period 2011-2023 below:-

Year	Inert soil/ stone for recovery (tonnes/annum)	C+D waste recovery (tonnes/annum)	Total annual quantity of waste (tonnes/annum)
2011	22,800	1,200	24,000
2012	22,800	1,200	24,000
2013	22,800	1,200	24,000
2014	22,800	1,200	24,000
2015	22,800	1,200	24,000
2016	22,800	1,200	24,000
2017	22,800	1,200	24,000
2018	22,800	1,200	24,000
2019	22,800	1,200	24,000
2020	22,800	1,200	24,000
2021	22,800	1,200	24,000
2022	22,800	1,200	24,000
2023	22,800	1,200	24,000

N.B: Figures mentioned above are approximate calculations based on the most up to date data and drawings.

THE FACILITY TO BE LOCATED AT GARRANMORE, CASHEL, CO.TIPPERARY IS TO APPEAR IN A MANNER SO AS TO ENSURE THE ENVIRONMENTAL ISSUES ARE DEALT WITH IN A PROFESSIONAL AND CORRECT MANNER. FOR THE DURATION OF THE LAND FILLING PROCESS IT WILL BE ENSURED THAT ONLY INERT LICENSED MATERIALS IS IMPORTED TO THE FACILITY AND USED FOR RECOVERY AND RECOVERY.

ANY NON-HAZARDOUS OR HAZARDOUS WASTE INADVERTENTLY MIXED WITH THE INERT WASTE IS TO BE SEGREGATED AND BROUGHT TO A WASTE QUARANTINE AREA FOR ADDITIONAL EXAMINATION. ANY MATERIALS IDENTIFIED AS NON-HAZARDOUS OR HAZARDOUS IS TO BE REMOVED OFF-SITE BY A LICENSED BODY AND DISPOSED OF AT A LICENSED FACILITY.

BASED ON THE CONTOUR AND SITE FACILITY MAPS THE LIFE EXPECTANCY OF THE SITE IS CALCULATED AT 246M³ PER DAY. THIS AMOUNTS TO APPROXIMATELY 68,000M³ PER ANNUM. THE TOTAL CAPACITY OF THE SITE IS 816,000M³. THEREFORE THE LIFE EXPECTANCY OF THE QUARRY IS TO BE 12 YEARS. RECOVERY OF CONSTRUCTION AND DEMOLITION WASTE WILL ONLY TAKE PLACE AS LONG AS THE BACKFILLING PROCESS IS BEING UNDERTAKEN.

Attachment H.2

DETAILS ARE PROVIDED IN THE ENVIRONMENTAL MANAGEMENT PLAN, REPRODUCED IN ATTACHMENT C2 OF THIS WASTE LICENCE APPLICATION.

Attachment H.3

DETAILS ARE PROVIDED IN THE ENVIRONMENTAL MANAGEMENT PLAN, REPRODUCED IN ATTACHMENT C2 OF THIS WASTE LICENCE APPLICATION

TARGETS FOR REDUCTIONS IN THE QUANTITIES OF UNTREATED BIODEGRADABLE MUNICIPAL SOLID WASTE SENT TO LANDFILL OUTLINED IN COUNCIL DIRECTIVE 1999/31/EC (THE 'LANDFILL DIRECTIVE') DO NOT APPLY TO THE PROPOSED RESTORATION SCHEME AS NO BIODEGRADABLE WASTE WILL BE ACCEPTED AT OR DISPOSED OF AT THE APPLICATION SITE.

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Attachment H3a

THE PROPOSED ACTIVITY IS TO TAKE PLACE AT AN EXISTING QUARRY. THE APPLICANT WISHES TO FILL THE EXHAUSTED SECTIONS OF THE QUARRY WITH INERT SOIL AND STONE IN ORDER TO RETURN THE QUARRY TO ITS PRE EXCAVATED STATE. THE PROPOSED FUTURE USE OF THE SITE AFTER THESE SECTIONS HAVE BEEN FILLED IS PASTORAL GRAZING

- a) *a reduction by 16/07/06 to 75% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;*

NOT APPLICABLE DUE TO THE CLASS OF WASTE BEING PROCESSED AT THE FACILITY

- b) *a reduction by 16/07/09 to 50% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;*

NOT APPLICABLE DUE TO THE CLASS OF WASTE BEING PROCESSED AT THE FACILITY

- c) *a reduction by 16/07/16 to 35% by weight of the total amount of biodegradable municipal waste produced in 1995 or the latest year before 1995 for which standardised Eurostat data is available;*

NOT APPLICABLE DUE TO THE CLASS OF WASTE BEING PROCESSED AT THE FACILITY

- d) *Evidence should be provided to show that energy will be used efficiently.*

NOT APPLICABLE DUE TO THE CLASS OF WASTE BEING PROCESSED AT THE FACILITY

Attachment I

Existing & Environment & Impact of the Facility

AS THE APPLICANT OPERATES UNDER AN EXISTING WASTE PERMIT (WP/038-01) AND INTENDS TO STAY WITHIN THE EXISTING PERMITTED FOOTPRINT OF THE FACILITY IT IS CONSIDERED THAT THE IMPACT OF THE FACILITY WILL NOT CHANGE. ACCORDINGLY IT IS CONSIDERED THAT THE APPLICANT DOES NOT REQUIRE AN ENVIRONMENTAL IMPACT STUDY (EIS). THE ACTIVITY AT THE SITE IS CURRENTLY GOVERNED BY THE CONDITIONS OF THE EXISTING PLANNING PERMIT ISSUED BY SOUTH TIPPERARY COUNTY COUNCIL.

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Attachment I1

THERE WILL BE NO DIRECT EMISSIONS TO SURFACE WATERS FROM THE RESTORATION AND RECOVERY ACTIVITIES ON SITE. ONLY INERT CONSTRUCTION AND DEMOLITION WASTE WILL BE LANDFILLED. NO EMISSIONS OF POLLUTING SUBSTANCES TO THE WATER ENVIRONMENT WILL BE PERMITTED. THEREFORE IT IS NOT CONSIDERED THAT THE ACTIVITIES ON SITE WILL CAUSE ANY SIGNIFICANT IMPACT ON THE SURFACE WATER ENVIRONMENT.

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Attachment I2

AS THE SITE DOES NOT DISCHARGE TO ANY ADJACENT SEWER SYSTEMS THIS SECTION IS NOT APPLICABLE.

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Attachment I3

A FULL HYDROGEOLOGICAL ASSESSMENT OF THE SITE IN RELATION TO THE RECOVERY ACTIVITIES ON SITE HAS NOT BEEN PREPARED AT THIS STAGE. THIS WAS NOT REQUIRED BY SOUTH TIPPERARY COUNTY COUNCIL AS PART OF THE APPLICATION FOR PLANNING PERMISSION ON THE SITE OR AS PART OF THE APPLICATION FOR A WASTE PERMIT FOR THE SITE. HOWEVER, A DESK HYDROGEOLOGICAL STUDY WAS CARRIED OUT. IT IS UNDERSTOOD THAT SOUTH TIPPERARY COUNTY COUNCIL IS ITSELF REQUIRED TO CARRY OUT A RISK ASSESSMENT OF THAT PORTION OF THE SITE, WHICH IS ADJACENT TO THE RECOVERY ACTIVITIES, AND WAS ONCE USED AS A MUNICIPAL WASTE LANDFILL. WE ARE SEEKING A COPY OF ANY RISK ASSESSMENT CARRIED OUT ON OUR LANDS BY SOUTH TIPPERARY COUNTY COUNCIL. THE AQUIFER CLASSIFICATION IS LL. THIS APPLIED TO BEDROCK WHICH IS MODERATELY PRODUCTIVE ONLY IN LOCAL ZONES. THE VULNERABILITY IS DEEMED TO BE EXTREME. THERE ARE NO SOURCE PROTECTION ZONES AND NO SOURCE PROTECTION AREAS ADJACENT TO THE SITE AT GARRANMORE, CASHEL, AND CO.TIPPERARY. THIS IMPLIES AN OVERALL GROUNDWATER RESOURCE PROTECTION ZONE CLASSIFICATION OF LL/E. WITHIN AN OVERALL GROUNDWATER RESOURCE PROTECTION ZONE CLASSIFICATION A LANDFILL FOR MUNICIPAL SOLID WASTE (MSW) IS DEEMED TO HAVE A GROUNDWATER PROTECTION RESPONSE OF R2. THIS MEANS THAT SUCH A FACILITY WOULD BE ACCEPTABLE, IN PRINCIPLE, SUBJECT TO CERTAIN CONDITIONS. BY CONTRAST A GROUNDWATER PROTECTION RESPONSE OF THE NEXT CATEGORY) WOULD INDICATE THAT A LANDFILL WOULD NOT GENERALLY BE ACCEPTABLE, UNLESS IT COULD BE SHOWN THAT:

- THE GROUNDWATER IN THE AQUIFER IS CONFINED; OR
- THERE WILL BE NO SIGNIFICANT IMPACT ON THE GROUNDWATER; AND
- IT IS NOT PRACTICABLE TO FIND A SITE IN A LOWER RISK AREA

ALL MSW LANDFILLS GIVE RISE TO LEACHATE WHICH CAN CAUSE SIGNIFICANT CONTAMINATION OF GROUNDWATER. THIS APPLICATION RELATES TO A NON-HAZARDOUS RECOVERY OPERATION WHERE ONLY INERT SOILS, STONES AND COMPARABLE MATERIAL WILL BE USED TO RECLAIM THE WORKED-OUT QUARRY VOID. THE GROUNDWATER PROTECT SCHEMES APPLIES AN ASSESSMENT MODEL BASED ON 'SOURCE' – 'PATHWAY' – 'RECEPTOR' CONSTRUCT. GIVEN THE NATURE OF THE SOURCE IN THIS CASE (I.E. MAINLY INERT SOILS AND STONES) THE OVERALL RISK OF GROUNDWATER CONTAMINATION IS CONSIDERED TO BE EXTREMELY LOW. IT IS NOT CONSIDERED THAT A FULL HYDRO GEOLOGICAL ASSESSMENT OF THE SITE IS WARRANTED.

Attachment I4

DURING THE OPERATIONAL PHASE NOISE EMISSIONS FROM THE FACILITY WILL BE COMPARABLE TO NOISE EMISSIONS FROM QUARRY OPERATIONS. NOISE AT THE APPLICATION SITE IS PRINCIPALLY GENERATED BY TRAFFIC MOVEMENTS AND MOBILE CONSTRUCTION EQUIPMENT. THERE ARE NO FIXED (POINT) NOISE SOURCES AT THE SITE. SOME SHORT TERM AMBIENT NOISE WILL BE GENERATED BY HGV MOVEMENTS, EARTHMOVING PLANT AND CRUSHING AND SCREENING EQUIPMENT DURING THE PROPOSED SITE RESTORATION WORKS. DURING THE COURSE OF OUR OPERATION OF THE FACILITY AT GRANNY NO NOISE COMPLAINTS HAVE BEEN RECEIVED EITHER BY THE APPLICANT OR BY SOUTH TIPPERARY COUNTY COUNCIL. GIVEN THE FACT THAT WE DO NOT PROPOSE ANY CHANGES TO THE ACTIVITIES ON SITE WHICH WOULD BE LIKELY TO GIVE RISE TO AN INCREASE IN AMBIENT NOISE LEVELS, IT IS NOT EXPECTED THAT THE ACTIVITIES ON SITE WILL GIVE RISE TO ANY NOISE NUISANCE AT SENSITIVE RECEPTORS SUCH AS RESIDENCES.

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Attachment I5

GIVEN THE PREVIOUS HISTORY OF THE SITE AS A QUARRY IT IS NOT CONSIDERED THAT RECOVERY ACTIVITIES, WHICH ARE THE SUBJECT OF THE WASTE LICENCE APPLICATION, WILL HAVE ANY ADVERSE IMPACT ON FLORA AND FAUNA WITHIN THE SITE. THERE ARE NO NATIONAL HERITAGE AREAS (NHAS), SPECIAL PROTECTION AREAS (SPAS) OR CANDIDATE SPECIAL PROTECTION AREAS OF CONSERVATION (CSACS) WITHIN THE SITE BOUNDARIES OR CLOSE ENOUGH TO THE SITE TO BE IMPACTED BY THE ACTIVITIES ON-SITE. AS THE RISK OF SIGNIFICANT IMPACT ON THE ECOLOGY OF THE SITE IS CONSIDERED THAT A FULL ECOLOGICAL IMPACT ASSESSMENT OF THE SITE IS WARRANTED.

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Attachment J.

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1. ACCIDENTS AND THEIR CONSEQUENCES

1.1 Introductions

THIS DOCUMENT IS THE CONTINGENCY PLAN FOR THE ONGOING SITE RESTORATION AND THE SOIL RECOVERY FACILITY OPERATED BY DOK QUARRYSTONE LTD AT GARRANMORE, CASHEL, CO.TIPPERARY. THE WORKS PRINCIPALLY COMPRISE IMPORTATION, PLACING AND COMPACTION OF INERT SOILS AND RECOVERY (PROCESSING) OF INERT CONSTRUCTION DEMOLITION WASTE. THE PURPOSE OF THIS DOCUMENT IS TO IDENTIFY PLANS AND ARRANGEMENTS THAT WILL BE IMPLEMENTED DURING AND AFTER THE PROPOSED RECOVERY WORKS. THIS DOCUMENT CONSIDERS THOSE ASPECTS OF ON-SITE OPERATIONS THAT MAY POSE A RISK OF ACCIDENTS WITH ENVIRONMENTAL CONSEQUENCES. THE RESTORATION ACCIDENT MANAGEMENT PLAN DESCRIBES THE VARIOUS TECHNIQUES THAT WILL BE IMPLEMENTED AT THE SITE TO MINIMISE THE RISKS PRESENTED BY SITE OPERATIONS TO THE ENVIRONMENT. IT DOES NOT INCLUDE THOSE ACCIDENTS, WHICH MAY SOLELY AFFECT THE HEALTH AND SAFETY OF OPERATIVES, CONTRACTORS OR VISITORS TO THE SITE.

1.2 Accident/Hazard Identification

THE FOLLOWING CATEGORIES OF POTENTIAL HAZARD / ACCIDENT HAVE BEEN IDENTIFIED. THE RISK MANAGEMENT MEASURES ARE DETAILED IN THE FOLLOWING SECTIONS, WHICH WILL BE IMPLEMENTED AT THE SITE TO ENSURE THE ENVIRONMENTAL RISKS ASSOCIATED WITH THESE HAZARDS ARE TOLERABLE.

Fire

THE FIRE MANAGEMENT PLAN, WHICH DESCRIBES THE PROCEDURES AND PRECAUTIONS THAT WILL BE IMPLEMENTED AT THE SITE, IS PRESENTED IN SECTION 2 OF THIS PLAN.

Spillage and Leakage

PROCEDURES THAT WILL BE IMPLEMENTED AT THE SITE TO MINIMISE THE RISK FROM SPILLAGE AND LEAKAGE IS PRESENTED IN SECTION 3 OF THIS PLAN.

Stability

THE MEASURES TO BE TAKEN DURING BOTH THE DESIGN PROCESS AND DURING RECOVERY OPERATIONS TO ENSURE THE STABILITY OF THE SITE AND PREVENT SOIL SLIPPAGE ARE DETAILED IN SECTION 4 OF THIS PLAN.

Security and Vandalism

MEASURES THAT WILL BE ADOPTED TO MINIMISE THE POTENTIAL ENVIRONMENTAL RISKS ASSOCIATED WITH DELIBERATE DAMAGE TO CONTROL MECHANISMS SUCH AS FUEL STORAGE FACILITIES ARE DETAILED IN SECTION 5 OF THIS PLAN.

2. FIRE MANAGEMENT PLAN

2.1 Operating Techniques

WASTE MANAGEMENT SITES CAN REPRESENT A POTENTIAL FIRE RISK FOR A NUMBER OF REASONS.

- SITE BUILDINGS CONTAIN ELECTRICAL APPLIANCES AND OTHER SOURCES OF FIRE ALONG WITH MATERIALS THAT WOULD READILY BURN.
- LITTER AND WASTE MATERIALS MAY SUPPORT COMBUSTION.
- MAINTENANCE ACTIVITIES ON PLANT AND EQUIPMENT CAN REPRESENT A POTENTIAL FIRE RISK IF NECESSARY PRECAUTIONS ARE NOT TAKEN.
- SPECIFIC ACTION THAT WILL BE TAKEN TO PREVENT AND MINIMISE THE RISK OF FIRE FROM THESE PARTICULAR SOURCES, TOGETHER WITH GENERAL FIRE PREVENTION PRECAUTIONS ARE DETAILED BELOW.

Site Buildings/Electrical Appliances

ALL ELECTRICAL APPLIANCES IN USE AT THE SITE WILL BE TESTED IN ACCORDANCE WITH THE ELECTRICAL TESTING REGULATIONS.

Housekeeping

SITE BUILDINGS WILL BE MAINTAINED IN A TIDY CONDITION, AND WILL BE REGULARLY CLEANED TO AVOID THE ACCUMULATION OF PAPER AND DEBRIS THAT MAY PRESENT AN INCREASED FIRE RISK.

Litter and Combustible Waste

NO LITTER OR POTENTIALLY COMBUSTIBLE WASTE WILL BE PERMITTED TO ACCUMULATE ON THE SITE.

Management Responsibility

THE SITE MANAGER WILL HAVE RESPONSIBILITY FOR ENSURING THAT POTENTIAL FIRE HAZARDS AND NUISANCES ARISING FROM SITE OPERATIONS ARE MINIMISED.

Training

ALL EMPLOYEES WILL UNDERGO TRAINING RELEVANT TO THEIR ROLE IN FIRE PREVENTION, FIRE EXTINGUISHERS, AND EMERGENCY PROCEDURES.

Smoking Policy

SMOKING WILL ONLY BE PERMITTED AT DESIGNATED AREAS AND SPECIFICALLY NOT WITHIN SITE BUILDINGS.

Fire Protection Equipment

WHERE APPROPRIATE, PLANT WILL BE FITTED WITH AUTOMATED FIRE PROTECTION EQUIPMENT.

Hot Work Permitting System

A FORMAL PERMIT TO WORK SYSTEM WILL BE IN PLACE TO ENSURE APPROPRIATE PRECAUTIONS ARE TAKEN AND APPROVAL OBTAINED PRIOR TO ANY HOT WORK BEING CARRIED OUT ON THE PLANT AND EQUIPMENT.

Fire Fighting Equipment

FIRE EXTINGUISHERS WILL BE PROVIDED IN THE SITE BUILDINGS AND WILL BE USED APPROPRIATE AND SAFE TO DO SO, IN THE EVENT THAT FIRE IS DISCOVERED IN THE BU

Smoke and Fire Alarms

SMOKE AND FIRE ALARMS WILL BE FITTED IN THE SITE OFFICES.

2.2 Monitoring Techniques

ALL OPERATIVES WILL REMAIN VIGILANT REGARDING THE BREAKOUT OF FIRE AT THE THE EMERGENCY PROCEDURE AND ACTION PLAN OUTLINED BELOW WILL BE FOLLOWED OBSERVED.

2.3 Fire Action Plan

Fire within Site Buildings:

- THE PERSON DISCOVERING THE FIRE WILL RAISE THE ALARM.
- IF THE FIRE CANNOT BE SAFELY TACKLED USING APPROPRIATE FIRE EXTINGUISHER EMERGENCY SERVICES AND THE SITE MANAGER WILL BE INFORMED
- WHERE APPLICABLE, AND IF IT IS SAFE TO DO SO, ALL ELECTRICAL SUPPLIES WILL ISOLATED AND MADE SAFE IN THE AREA OF THE FIRE.
- THE SITE MANAGER OR HIS DEPUTY WILL CHECK FOR ALL VISITORS, CONTRACTOR STAFF TO ENSURE EVERYONE IS ACCOUNTED FOR.
- THE SITE MANAGER OR HIS DEPUTY WILL DIRECT THE EMERGENCY SERVICES TO CASUALTIES.
- ALL USED FIRE EXTINGUISHERS WILL BE RETURNED TO THE SUPPLIER FOR REFILL REPLACEMENT.

Plant and Equipment Fire

- THE PERSON DISCOVERING THE FIRE WILL RAISE THE ALARM.
- IF THE FIRE CANNOT BE SAFELY TACKLED USING APPROPRIATE FIRE EXTINGUISHER EMERGENCY SERVICES AND THE SITE MANAGER WILL BE INFORMED
- IF IT IS SAFE TO DO SO, ALL ELECTRICAL SUPPLIES WILL BE ISOLATED AND MADE THE AREA OF THE FIRE.
- THE SITE MANAGER OR HIS DEPUTY WILL CHECK FOR ALL VISITORS, CONTRACTOR STAFF TO ENSURE EVERYONE IS ACCOUNTED FOR.
- THE SITE MANAGER OR HIS DEPUTY WILL DIRECT THE EMERGENCY SERVICES TO CASUALTIES.
- ALL USED FIRE EXTINGUISHERS WILL BE RETURNED TO THE SUPPLIER FOR REFILL REPLACEMENT.

Records

A FIRE LOG WILL BE MAINTAINED. IT WILL INCLUDE THE FOLLOWING DETAILS: -

- RECORDS OF THE MAINTENANCE OF FIRE EXTINGUISHERS;
- A RECORD OF ALL INCIDENTS OF FIRE INCLUDING DATE, TIME, NATURE AND CAUSE OF THE FIRE; AND
- DETAILS ON THE ACTION TAKEN TO EXTINGUISH THE FIRE, AND ANY SUBSEQUENT CHANGES TO OPERATIONAL AND EMERGENCY PROCEDURES.

THE ENVIRONMENT PROTECTION AGENCY WILL BE ADVISED OF ALL INCIDENTS OF FIRE AS PRACTICABLE.

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3. SPILLAGE AND LEAKAGE MANAGEMENT PLAN

3.1 Operational Techniques

IN ORDER TO PREVENT SPILLAGES AND LEAKS OF POTENTIALLY POLLUTING MATERIALS, AND TO MINIMISE THE IMPACT OF ANY SPILLAGES THAT DO OCCUR, THE FOLLOWING MEASURES WILL BE IMPLEMENTED AT THE SITE.

Unloading Procedure / Overfilling of Tanks

ALL POLLUTING MATERIALS DELIVERED TO SITE WILL BE UNLOADED BY SUITABLY TRAINED EMPLOYEES FROM THE DELIVERY COMPANY, AND OVERSEEN BY A DESIGNATED OPERATIVE. THIS WILL PREVENT THE OVERFILLING OF FUEL BOWSERS.

Storage Vessels/Containers

POTENTIALLY POLLUTING LIQUIDS (PRINCIPALLY FUEL) WILL BE STORED IN MOBILISED SKINNED BOWSERS CONSTRUCTED TO THE APPROPRIATE IRISH, BRITISH OR INTERNATIONAL STANDARD, MEETING THE REQUIREMENTS OF THE LOCAL GOVERNMENT (WATER POLLUTION ACTS 1977 TO 1990 AND ASSOCIATED REGULATIONS). OTHER POTENTIALLY POLLUTING MATERIALS SUCH AS LUBRICATING OILS, WASTE OILS DERIVED FROM VEHICLE MAINTENANCE, PESTICIDES, ETC, WILL BE STORED IN CONTAINERS LOCATED ON THE HARDSTANDING AREA. ALL SOLID WASTES ARISING ON SITE AND OTHER SOLID POTENTIALLY POLLUTING MATERIALS WILL BE SEGREGATED ACCORDING TO CATEGORY AND STORED WITHIN CONTAINERS WHICH ARE DESIGNED TO ENSURE THE CONTENTS DO NOT SPILL OR ESCAPE.

Inspection and Maintenance

ALL CONTAINERS AND BOWSERS WILL BE INSPECTED ON A DAILY BASIS BY THE SITE MANAGER OR HIS DESIGNATED DEPUTY TO ENSURE THEIR CONTINUED INTEGRITY, AND IDENTIFY ANY REQUIREMENT FOR ANY REMEDIAL ACTION.

IN THE EVENT THAT REMEDIAL ACTION IS REQUIRED, ARRANGEMENTS WILL BE MADE TO IMMEDIATELY TRANSFER ANY POTENTIALLY POLLUTING MATERIALS TO SECURE ALTERNATIVE STORAGE PRIOR TO COMPLETION OF THE REMEDIAL WORK. REMEDIAL WORK WILL BE UNDERTAKEN AS SOON AS POSSIBLE. CONTAINERS AND BOWSERS FOUND TO BE FAULTY WILL NOT BE USED FOR THE STORAGE OF POLLUTING MATERIALS UNTIL APPROPRIATE REMEDIAL ACTION IS COMPLETED.

Absorbent Materials

A SUPPLY OF MATERIALS SUITABLE FOR ABSORBING AND CONTAINING ANY MINOR SPILLS WILL BE MAINTAINED ON SITE. SAND BAGS OR SIMILAR WHICH ARE SUITABLE FOR THE BLOCKING OF THE SURFACE WATER DISCHARGE POINT WILL BE MAINTAINED IMMEDIATELY ADJACENT TO THE SURFACE WATER DISCHARGE POINT FOR USE IN EMERGENCY SITUATIONS.

3.2 Spill Containment Equipment

MATERIALS SUITABLE FOR CONTAINING SPILLS INCLUDING SEALING DEVICES AND SUPPLIES FOR DAMAGED CONTAINERS, DRAIN SEALS AND BOOMS, AND OVERDRUMS WILL BE MAINTAINED AT THE SITE.

Plant Maintenance

ALL PLANT AND EQUIPMENT WILL BE SUBJECT TO MAINTENANCE IN ACCORDANCE WITH THE SUPPLIERS / MANUFACTURER'S RECOMMENDATIONS TO AVOID THE FAILURE OF ITEMS AND EQUIPMENT GIVING RISE TO POTENTIAL EMISSIONS TO THE ENVIRONMENT.

Drains

SURFACE WATER CHANNELS AND DRAINS WILL BE SUBJECT TO DAILY VISUAL INSPECTION BY THE SITE MANAGER. ACTION WILL BE TAKEN TO REMOVE ANY OBSTRUCTIONS TO FLOW.

Management of Fire Extinguishing Water (Fire Water)

OPTIONS FOR THE MANAGEMENT OF FIRE EXTINGUISHING WATER (I.E. FIRE WATER) WILL BE DETERMINED UPON THE LOCATION AND NATURE OF THE FIRE.

THE MAIN PRINCIPLE UNDERLYING ANY ACTION IN THIS REGARD WILL BE TO AVOID WHERE POSSIBLE, FIRE WATER GAINING ACCESS TO THE SURFACE WATER DRAINAGE SYSTEM. THIS WILL BE ACHIEVED BY USING MOBILE PLANT AND EQUIPMENT TO CONSTRUCT PHYSICAL BARRIERS SUCH AS EARTH BUNDS AND INTERCEPTION DITCHES AT STRATEGIC LOCATIONS.

3.3 Monitoring Techniques

ALL SITE PERSONNEL WILL BE TASKED WITH MONITORING FOR EVIDENCE OF SPILLAGE OR LEAKAGE DURING THEIR DAY TO-DAY ROUTINE. THE CONDITION OF BOWSERS AND COVERS WILL ALSO BE INSPECTED ON A DAILY BASIS. A DAILY AND WEEKLY INSPECTION CHECKLIST WILL BE USED TO RECORD INSPECTIONS OF INFRASTRUCTURE, OPERATIONS, POLLUTION AND AMENITY MANAGEMENT AND MONITORING. THE INSPECTION CHECKLIST WILL BE REVIEWED BY THE SITE MANAGER TO IDENTIFY REQUIREMENTS FOR REMEDIAL ACTION. ANY EVIDENCE OF SPILLAGE OR LEAKAGE WILL BE REPORTED IMMEDIATELY TO THE SITE MANAGER OR HIS DEPUTY FOR APPROPRIATE REMEDIAL ACTION.

3.4 LEAKS AND SPILLAGE ACTION PLAN

IN THE EVENT OF SPILLAGE OF POLLUTING MATERIALS, IMMEDIATE ACTION WILL BE TAKEN TO CONTAIN THE SPILLAGE. THE SPILLAGE WILL BE REPORTED TO THE SITE MANAGER, WHO WILL ASSESS THE SITUATION AND DECIDE ON THE MOST APPROPRIATE COURSE OF ACTION. THE ACTION TAKEN WILL DEPEND UPON THE SIZE OF THE SPILLAGE, THE LOCATION OF THE SPILLAGE IN RELATION TO SENSITIVE RECEPTORS AND THE CHEMICAL AND PHYSICAL PROPERTIES OF THE SPILLED MATERIAL. ACTION TAKEN MAY INCLUDE SOME OR ALL OF THE FOLLOWING:

- IF POSSIBLE THE LEAK WILL BE STOPPED;

- IF IT SAFE TO DO SO, THE CAUSE OF THE SPILL OR LEAK WILL BE ISOLATED;
- IF THE SPILLAGE IS SMALL, SPILL GRANULES WILL BE USED IMMEDIATELY IF NEC TO PREVENT THE SPILL SPREADING. THE AREA WILL BE CLEARED AND CONTAMINATED MATERIAL WILL BE SENT TO AN APPROPRIATELY LICENSED S DISPOSAL;
- IF THE SPILL IS LARGER, INERT MATERIALS SUCH AS CLAY OR SAND WILL BE U MAKE A CONTAINMENT BUND AND SPECIALIST HELP WILL BE SOUGHT TO ASSI CLEAN UP; IN THE EVENT OF A POTENTIALLY SERIOUS SPILLAGE THAT MAY GIVE POLLUTION OF SURFACE WATER, IMMEDIATE ACTION WILL BE TAKEN IF POSS PREVENT THE SPREAD OF THE SPILL INTO SURFACE WATER CHANNELS AND USING SUITABLE COVERS AND BARRIERS. THE ENVIRONMENT PROTECTION AC WILL BE INFORMED IMMEDIATELY, AND REMEDIAL ACTION WILL BE AGREED.
- IF THE SPILLAGE CANNOT BE CONTAINED USING APPROVED MATERIALS, ENVIRONMENT PROTECTION
- AGENCY AND SENIOR MANAGEMENT WILL BE CONTACTED IMMEDIATELY AN SPECIALIST HELP OBTAINED;
- IF A VEHICLE IS FOUND TO BE LEAKING, IT WILL BE MOVED TO A POSITION WHER SPILLAGE CAN BE CONTAINED I.E. QUARANTINE AREA, OR OTHER HARD SUR AREA, IF IT IS SAFE TO DO SO; AND
- ALL PERSONNEL WILL FOLLOW INSTRUCTIONS PROVIDED BY MANAGERS O COMPETENT PERSONS. APPROPRIATE PRECAUTIONS WILL BE TAKEN DEPENDING THE NATURE OF THE SPILLED MATERIAL TO PREVENT ANY HARM TO HUMAN H AND ALL PERSONNEL INVOLVED IN CLEAN UP WILL WEAR PROTECTIVE CL APPROPRIATE FOR THE NATURE OF THE SPILLED MATERIAL.

ALL SPILLAGE INCIDENTS, SITE INSPECTIONS, AND REMEDIAL ACTIONS WILL BE RECO THE SITE DIARY.

4. STABILITY MANAGEMENT PLAN

TO ENSURE THE LONG-TERM INTEGRITY OF THE SLOPES AT THE RESTORATION SITE, P WILL BE INCORPORATED BOTH AT THE DESIGN STAGE AND DURING BACKFILLING OPERATIONS. THE FOLLOWING OPERATIONAL TECHNIQUES WILL BE DETAILED BELOW.

4.1 Design Considerations/ Stability Assessment

STABILITY OF SLOPES PRIOR TO, DURING AND FOLLOWING RESTORATION IS A MAJOR CONSIDERATION DURING THE DESIGN PROCESS.

THE FOLLOWING FACTORS HAVE BEEN TAKEN INTO ACCOUNT DURING THE DESIGN PROCESS:

- *nature of substrata*, I.E. THE PRESENCE OF ANY HISTORICAL MINING AND QUARRYING, PRESENCE OF SUPERFICIAL DEPOSITS, VARIATION IN THE WATER CONTENT, GEOTECHNICAL AND HYDRAULIC PROPERTIES OF ANY MATERIALS TO BE UTILISED AT THE SITE;
- *stability of waste body*, I.E. STABILITY OF TEMPORARY SLOPES DURING SITE BACKFILLING; AND
- *Stability of capping and restoration layers*, I.E. SURFACE GRADIENTS AND EFFECTS OF SOIL SETTLEMENT.

4.2 Operating Techniques

THE FOLLOWING OPERATIONAL TECHNIQUES TO ENSURE STABILITY OF THE BACKFILLED SLOPES WILL BE ADOPTED AT THE SITE.

- *Waste compaction*: INERT WASTE WILL BE LEVELED AND COMPACTED AS SOON AS POSSIBLE AFTER DISCHARGE AT THE WORKING AREA. THIS WILL MINIMISE ANY FUTURE SETTLEMENT AND ENHANCE STABILITY OF THE BACKFILLED SOIL MASS;
- *Large objects*: ALL LARGE INERT CONSTRUCTION AND DEMOLITION WASTE (CONCRETE BOULDERS ETC.) WILL BE CRUSHED TO ENSURE THAT VOIDS DO NOT DEVELOP IN THE BACKFILLED SOIL MASS;
- *Height of tipping face*: THE MAXIMUM HEIGHT OF THE TIPPING FACE AFTER COMPACTION WILL BE 2.5 METERS. THE END-TIPPING OF UNCOMPACTED SOIL ON HIGH UNSTABLE FACES WILL THEREFORE BE AVOIDED.
- *Gradient of temporary slopes*: DURING RESTORATION OF THE SITE, THE SLOPE TO BE ADOPTED FOR TEMPORARY UNRESTORED FACES SLOPING TO THE FLOOR WILL BE DETERMINED UPON THE NATURE OF THE SOIL, ITS MOISTURE CONTENT, THE HEIGHT OF THE TIPPING FACE, THE NATURE OF THE FOUNDATION SOIL AND THE CONSEQUENCES OF FAILURE.

4.3 Monitoring Techniques

THE FOLLOWING ACTION WILL BE TAKEN TO MONITOR THE STABILITY AND SETTLEMENT OF SOIL SLOPES: -

Visual Inspections

VISUAL INSPECTIONS WILL BE CARRIED OUT AT WEEKLY INTERVALS TO IDENTIFY THE FOLLOWING:

- EVIDENCE OF CRACKS IN TEMPORARY SLOPES CAUSED BY MOVEMENT OF THE WASTE;
- EVIDENCE OF INSTABILITY OR MOVEMENT AND
- EVIDENCE OF DIFFERENTIAL SETTLEMENT CAUSING DEPRESSIONS IN THE RE LANDFORM OR DAMAGE TO THE DRAINAGE SYSTEM.

4.4 Action Plan

IN THE EVENT THAT STABILITY OR SETTLEMENT PROBLEMS ARE DISCOVERED, APP REMEDIAL ACTION WILL BE TAKEN AS DETAILED BELOW: -

Instability of Waste Mass

IF THERE IS VISUAL EVIDENCE OF MOVEMENT WITHIN THE INERT SOIL MASS, OR EVI FROM THE REGULAR TOPOGRAPHICAL SURVEYS, THE SITUATION WILL BE REVIEWED BY AN INDEPENDENT ENGINEER, AND APPROPRIATE REMEDIAL ACTION WILL BE TAKEN IN AGREEMENT WITH THE ENVIRONMENT PROTECTION AGENCY.

THE ACTION TAKEN WILL DEPEND UPON THE SEVERITY OF THE MOVEMENT, THE TIME OVER WHICH THE UNSTABLE MASS WILL REMAIN UNSUPPORTED, AND THE CONSEQUENCE OF FAILURE.

ACTION TAKEN MAY INCLUDE ONE OR MORE OF THE FOLLOWING: -

- THE SITUATION WILL CONTINUE TO BE MONITORED THROUGH REGULAR INSPECTIONS AND TOPOGRAPHICAL SURVEYS;
- PROHIBIT OPERATIONS AT THE BASE OF THE SLOPE, WHICH MAY PLACE OPERATIONS AT POTENTIAL RISK;
- ADJUSTMENT TO PHASING OF RESTORATION OPERATIONS TO PROVIDE ADDITIONAL SUPPORT TO THE INERT SOIL MASS AS SOON AS POSSIBLE;
- ENGINEERING WORK TO REDUCE THE GRADIENT OF THE SLOPE AND REDUCE THE RISK OF FAILURE; AND
- REVISED DESIGN FOR FUTURE PHASES TO REDUCE SLOPE GRADIENTS AND/OR HORIZONTAL SLOPES AND REDUCE TIME PERIOD OVER WHICH TEMPORARY SLOPES REMAIN UNPROTECTED.

Records

RECORDS WILL BE MAINTAINED AS FOLLOWS: -

- THE RESULTS OF VISUAL INSPECTIONS AND TOPOGRAPHICAL SURVEYS;
- STABILITY PROBLEMS INCLUDING DATE, NATURE AND SUSPECTED CAUSE OF THE PROBLEM; AND
- DETAILS ON THE CORRECTIVE ACTION TAKEN, AND ANY SUBSEQUENT CHANGES TO THE DESIGN OR OPERATIONAL PROCEDURES.

5. SECURITY MANAGEMENT PLAN

MANY POTENTIAL PROBLEMS CAN ARISE FROM INADEQUATE ACCESS TO WASTE MANAGEMENT SITES.

THESE PROBLEMS INCLUDE: -

- NON-PERMITTED WASTE BEING IMPORTED IN CONTRAVENTION OF THE WASTE LICENCE;
- FLY TIPPING OF WASTES AT THE SITE ENTRANCE; AND
- DAMAGE TO PLANT AND EQUIPMENT.

SUCH PROBLEMS NOT ONLY DISRUPT SAFE OPERATION OF THE WASTE FACILITY BUT HAVE SIGNIFICANT FINANCIAL IMPLICATIONS FOR THE OPERATOR WHO WILL BE RECALLED OR REPAIR STOLEN OR DAMAGED EQUIPMENT.

ENVIRONMENTAL DAMAGE CAN ALSO RESULT IF CONTROL SYSTEMS ARE COMPROMISED.

5.1 Operational Techniques

IN ORDER TO MINIMISE THE RISK OF PROBLEMS ARISING AS A RESULT OF INADEQUATE SECURITY, THE FOLLOWING MEASURES WILL BE IMPLEMENTED AT THE SITE.

Building Security

THE SITE CONTROL OFFICE WILL HAVE THE BENEFIT OF A SECURITY ALARM TO DISCUSS INTRUDERS. WINDOWS WILL ALSO BE FITTED WITH BARS AND /OR SHUTTERS TO PREVENT DAMAGE BY VANDALS.

Lighting

THE MAIN SITE CONTROL OFFICE AND HARDSTANDING AREA WILL HAVE SECURITY LIGHTING TO DISCOURAGE UNAUTHORIZED VISITORS DURING THE HOURS OF DARKNESS.

Fencing

THE SITE WILL HAVE THE BENEFIT OF SECURITY FENCING WHICH WILL EXTEND AROUND THE PERIMETER OF THE SITE.

Security Gates

SECURITY GATES, WHICH SPAN THE FULL WIDTH OF THE ACCESS ROAD, WILL BE PROVIDED AT THE ENTRANCE TO THE SITE. THE GATES WILL BE LOCKED OUTSIDE OPERATIONAL HOURS TO DETER UNAUTHORISED VEHICULAR AND PEDESTRIAN ACCESS.

Inspection

GATES AND FENCING WILL BE INSPECTED WEEKLY BY THE SITE MANAGER OR HIS NOMINEE DEPUTY, TO IDENTIFY DETERIORATION AND DAMAGE, AND THE NEED FOR ANY REPAIRS.

Maintenance and Repair

THE FENCING AND GATES WILL BE MAINTAINED AND REPAIRED WHEN REQUIRED TO ENSURE THEIR CONTINUED INTEGRITY. IN THE EVENT THAT DAMAGE IS SUSTAINED A TEMPORARY REPAIR WILL BE MADE WITHIN 24 HOURS UNTIL PERMANENT REPAIRS CAN BE AFFECTED.

Warning Notices

NOTICES WARNING AGAINST UNAUTHORISED ACCESS (AND ALERTING POTENTIAL TRAFFIC TO ON SITE HAZARDS) WILL BE ERECTED AT THE SITE ENTRANCE AND ADJACENT FOOTPATH, AND WILL BE REPEATED AS NECESSARY AT LOCATIONS AROUND THE PERIMETER OF THE SITE.

Authorised Access System

ALL VISITORS TO THE SITE WILL BE REQUIRED TO REGISTER THEIR PRESENCE BY SIGNING A VISITOR'S BOOK ON ENTRY TO THE SITE, AND AGAIN ON EXIT. THIS WILL MINIMISE THE RISK OF UNAUTHORISED VISITORS BEING PRESENT ON SITE.

Reporting Systems

IN THE EVENT OF FLY-TIPPED MATERIAL BEING FOUND AT THE ENTRANCE TO THE SITE, THE TIPPED MATERIAL WILL BE EXAMINED FOR EVIDENCE OF OWNERSHIP. IN THE EVENT OF EVIDENCE BEING FOUND, THE ENVIRONMENT PROTECTION AGENCY AND LOCAL AUTHORITY WILL BE ADVISED SO THAT LEGAL ACTION MAY BE CONSIDERED.

5.2 Monitoring Techniques

THE OPERATIONAL PROCEDURES OUTLINED ABOVE, INCLUDING THE REGULAR INSPECTIONS, SECURITY AND REPORTING SYSTEMS WILL ENSURE CONTINUAL MONITORING OF THE PROVISION AT THE SITE.

5.3 Action Plan

IN THE EVENT OF A BREACH OF SECURITY AT THE SITE, THE FOLLOWING COURSE OF ACTION WILL BE FOLLOWED;

Unauthorised Access

THE ROUTE OF ACCESS WILL BE DETERMINED, AND CONSIDERATION GIVEN TO THE FOLLOWING MEASURES AS APPROPRIATE: -

- REPAIR OF GATES OR FENCING;
- REPLACEMENT OF GATES OR FENCING WITH MORE SECURE DESIGN;
- ERECTION OF WARNING SIGNS; AND
- INSTALLATION OR IMPLEMENTATION OF ADDITIONAL SECURITY MEASURES FOR EXAMPLE SECURITY CAMERAS, MORE FREQUENT PATROLS.

Unauthorised Tipping

- THE MATERIAL WILL BE EXAMINED FOR EVIDENCE OF OWNERSHIP;
- THE ENVIRONMENT PROTECTION AGENCY AND LOCAL AUTHORITY WILL BE INFORMED.

- WITH THE AGREEMENT OF THE ENVIRONMENT PROTECTION AGENCY AND/OR LOCAL AUTHORITY, THE MATERIAL WILL BE REMOVED AND DISPOSED OF CORRECTLY;
- IF APPROPRIATE, ADDITIONAL WARNING SIGNS WILL BE ERECTED; AND
- ADDITIONAL SECURITY MEASURES WILL BE CONSIDERED.

Records

A RECORD RELATING TO THE MANAGEMENT AND MONITORING OF SECURITY WILL BE MAINTAINED. IT WILL INCLUDE THE FOLLOWING DETAILS: -

- RECORDS OF THE INSPECTIONS AND MAINTENANCE OF SECURITY FENCING AND
- A RECORD OF ALL BREACHES OF SECURITY AND INCIDENTS OF FLY TIPPING, AND INVESTIGATIONS OF THESE BREACHES OF SECURITY; AND
- DETAILS OF THE ACTION TAKEN TO REPLACE OR REPAIR SECURITY EQUIPMENT, AND INVESTIGATE FLY TIPPING, INCLUDING ANY SUBSEQUENT CHANGES TO OPERATIONAL PROCEDURES.

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Attachment k

SEE SECTION 4 ENGINEERING OF EMP

SEE SECTION 7 ENVIRONMENTAL CONTROLS OF EMP

THE PRINCIPLE ACTIVITY IS CLASS 10 OF THE FOURTH SCHEDULE (THE TREATMENT OF ANY WASTE ON LAND WITH A CONSEQUENTIAL BENEFIT FOR AN AGRICULTURAL ACTIVITY OR ECOLOGICAL SYSTEM). THIS IS TO TAKE PLACE AT A FORMER GRAVEL QUARRY AT GARRANMORE, CASHEL, CO. TIPPERARY. THE SITE IS TO BE RESTORED TO ITS ORIGINAL PRE-EXCAVATION STATE AND ORIGINAL LEVELS. SEE FIGURE EMP(C) FOR PROPOSED FINAL CONTOUR LINES OF THE SITE.

UPON COMPLETION THE SITE WILL HAVE THE FOLLOWING CHARACTERISTICS:

- DOMED SHAPED TO FACILITATE WATER RUN-OFF
- 150MM TOPSOIL
- 850MM SUBSOIL
- TOPSOIL PLANTED WITH GRASS

AS PART OF THE FINAL PHASE OF THE BACKFILLING AND RESTORATION PROCESS ALL PLANT, EQUIPMENT AND STORAGE FACILITIES WILL BE REMOVED OFF-SITE. THIS PROCESS WILL BE PROGRESSIVE AS THE FINAL PHASE IS COMPLETED.

WHERE NECESSARY, ANY HARDSTANDING AREAS MAY BE BROKEN UP USING A HYDRAULIC BREAKER AND SUBJECT TO INSPECTION TO CONFIRM IF THEY CAN BE USED FOR THE BACKFILLING PROCESS. ANY REMAINING ITEMS DEEMED NOT-ACCEPTABLE FOR THIS FACILITY WILL BE TRANSPORTED OFF SITE BY A LICENSED AUTHORITY AND DISPOSED OF AT A SUITABLY LICENSED FACILITY.

FOLLOWING COMPLETION OF THE RECOVERY AND BACKFILLING WORKS, PROVISION HAS BEEN MADE FOR FURTHER SHORT-TERM (>1 YEAR) ENVIRONMENTAL MONITORING OF AIR, SURFACE WATER AND GROUNDWATER.

Attachment L.1

Section 40(4) [(a) to (i)] of the Waste Management Acts 1996 to 2008

a) Any emissions from the recovery or disposal activity in question ("the activity concerned") will not result in the contravention of any relevant standard, including any standard for an environmental medium, or any relevant emission limit value, prescribed under any other enactment. AS THE MATERIALS USED TO BACKFILL AND RESTORE THE APPLICATION SITE ARE INERT AND NON-BIODEGRADABLE, THEY DO NOT LEACHATE OR LANDFILL GAS. ACCORDINGLY, ACTIVITIES AT THE SITE PRESENTS ONLY RISKS OF GROUNDWATER CONTAMINATION, NO RISK OF LANDFILL GAS EMISSIONS AND OF BIRD, LITTER, ODOUR OR VERMIN NUISANCE.

DURING THE RESTORATION AND OPERATION OF THE SITE, THERE IS A SMALL RISK OF GROUNDWATER POLLUTION FROM THE FOLLOWING POTENTIAL SOURCES:

- ACCIDENTAL SPILLAGE OF FUELS AND LUBRICANTS BY CONSTRUCTION PLANT PLACED ON INERT FILL AND OTHER OPERATIONAL PROCEDURES;
- INCREASE IN SUSPENDED SOLIDS AND POTENTIAL FOR CONTAMINATED RUNOFF ENTERING GROUNDWATER DURING DEVELOPMENT OF THE SITE; AND
- ROGUE LOADS OF CONTAMINATED MATERIAL BEING DEPOSITED AT THE SITE.

IN ORDER TO MINIMISE THE RISK OF POLLUTION TO GROUNDWATER OCCURRING DURING RESTORATION WORKS, A NUMBER OF MITIGATION MEASURES ARE PROPOSED. THESE MEASURES GIVE EFFECT TO COUNCIL DIRECTIVE 80/68/EEC ON THE PROTECTION OF GROUNDWATER AGAINST POLLUTION. NOISE AND DUST LEVELS FROM ESTABLISHED ACTIVITIES DO NOT EXCEED RECOGNISED THRESHOLD EMISSION LIMITS FOR EXISTING INDUSTRY, NOR IS IT ENVISAGED THAT THEY WILL DO SO IN THE FUTURE. ENVIRONMENTAL MANAGEMENT SYSTEMS WILL BE PUT IN PLACE TO MINIMISE AND CONTROL EMISSIONS TO THE ENVIRONMENT DURING THE RESTORATION WORKS.

B) The activity concerned, carried on in accordance with such conditions as may be attached to the licence, will not cause environmental pollution; if the activity concerned involves the landfill of waste, the activity carried on in accordance with such conditions as may be attached on the licence, will comply with Council Directive 1999/31/EC on the landfill of waste.

THE RECOVERY OF INERT SOIL AND STONES IS NECESSARY FOR THE RESTORATION OF THE APPLICATION SITE TO ITS PREVIOUS LANDFORM AND PRESENTS LITTLE OR NO RISK TO THE ENVIRONMENT. THE ACTIVITY WILL NOT GENERATE ANY LEACHATE OR LANDFILL GAS. WASTE TESTING, INSPECTION AND HANDLING PROCEDURES WILL BE PUT IN PLACE TO ENSURE THAT ONLY WASTE WHICH IS DEMONSTRABLY INERT WILL BE PLACED AT THIS SITE. ENVIRONMENTAL MANAGEMENT SYSTEMS WILL BE PUT IN PLACE TO MINIMISE THE RISK OF ENVIRONMENTAL POLLUTION ARISING IN THE COURSE OF THE RESTORATION WORKS.

THE APPLICANT UNDERTAKES TO EXECUTE THE RESTORATION WORKS AT THE APPLICATION SITE IN ACCORDANCE WITH SUCH FURTHER CONDITIONS AS MAY BE ATTACHED TO THE WASTE LICENCE TO PREVENT ENVIRONMENTAL POLLUTION.

c) The best available technology not entailing excessive costs will be used to prevent or eliminate or, where that is not practicable, to limit, abate or reduce an emission from the activity concerned; the activity concerned is consistent with the objectives of the relevant waste management plan or the hazardous waste management plan, as the case may be, and will not prejudice measures taken by the relevant local authority or authorities for the purpose of the implementation of such plan.

AS THE MATERIALS USED TO RESTORE THE SITE ARE INERT, THERE IS LITTLE OR NO POTENTIALLY CONTAMINATED EMISSIONS TO GROUND, GROUNDWATER OR THE ATMOSPHERE. CONSEQUENTLY, THERE IS LITTLE REQUIREMENT TO APPLY BEST AVAILABLE TECHNOLOGY TO LIMIT, ABATE AND/OR REDUCE GROUND AND/OR GROUNDWATER EMISSIONS. EMPHASIS WILL BE PLACED ON IMPLEMENTATION OF ROBUST WASTE ACCEPTANCE AND INSPECTION PROCEDURES TO ENSURE THAT ONLY INERT WASTES CONTINUE TO BE USED FOR RESTORATION PURPOSES AT THE SITE.

THE PROPOSED BACKFILLING AND RESTORATION OF THE APPLICATION SITE WILL, FOR PART, ONLY REQUIRE UTILISATION OF CONVENTIONAL HGV TRUCKS AND EARTHMOVING EQUIPMENT. RECYCLING OF INERT CONSTRUCTION AND DEMOLITION WASTES WILL REQUIRE USE OF CONVENTIONAL CRUSHING AND SCREENING EQUIPMENT. THE USE OF THIS PLANT AND EQUIPMENT WILL GENERATE NOISE AND DUST EMISSIONS. NOISE AND DUST SUPPRESSION TECHNIQUES WILL BE EMPLOYED AT THE SITE AS AND WHEN REQUIRED.

d) If the applicant is not a local authority, the cooperation of a borough that is not a country borough, or the council or an urban district, subject to subsection (8), he or she is a fit and proper person to hold a waste license.
REFER TO ATTACHMENT L2.

e) The applicant has complied with any requirements under Section 53. DOK QUARRYSTONE LTD. WILL FURNISH SUCH PARTICULARS, AND MAKE SUCH FINANCIAL PROVISION AS ARE DEEMED NECESSARY BY THE AGENCY IN RESPECT OF THE IMPLEMENTATION AND COMPLETION OF THE PROPOSED RESTORATION SCHEME.

f) Energy will be used efficiently in the carrying on of the activity concerned.
SMALL SCALE ENERGY REQUIREMENTS FOR SITE OFFICES, LIGHTING, HEATING, SECURITY CAMERAS WILL BE PROVIDED BY A CONNECTION FROM OVERHEAD ELECTRICAL POWER LINES OR, FAILING THAT, FROM A TEMPORARY GENERATOR. PLANT AND EQUIPMENT REQUIRED TO UNDERTAKE THE PROPOSED RESTORATION SCHEME WILL BE POWERED BY DIESEL FUEL. ENERGY USE WILL BE MINIMISED IN SO FAR AS PRACTICABLE.

g) Any noise from the activity concerned will comply with, or will not result in the contravention of, any regulations under Section 106 of the Act of 1992. NOISE

EMISSIONS FROM HGV'S, PLANT AND EQUIPMENT WILL BE CONTROLLED AND MONITORED TO COMPLY WITH SUCH LIMITS AND CONDITIONS AS MAY BE IMPOSED BY A WASTE LICENCE ISSUED IN RESPECT OF THE PROPOSED RESTORATION WORKS. IN OPERATING UNDER PERMITS PREVIOUSLY ISSUED BY SOUTH TIPPERARY COUNTY COUNCIL, NOISE EMISSIONS FROM THE APPLICATION SITE HAVE BEEN MAINTAINED BELOW THE RECOGNISED THREE AVERAGE AMBIENT NOISE LEVEL OF 55 LAEQ DB (A).

H) NECESSARY MEASURES WILL BE TAKEN TO PREVENT ACCIDENTS IN THE CARRYING OUT OF THE ACTIVITY CONCERNED AND, WHERE AN ACCIDENT OCCURS, TO LIMIT ITS CONSEQUENCES FOR THE ENVIRONMENT. AN ASSESSMENT OF THE PRINCIPAL ENVIRONMENTAL HAZARD RISKS ASSOCIATED WITH THE PROPOSED RESTORATION SCHEME AND THE CONTROL MEASURES TO BE IMPLEMENTED IN THE EVENT OF AN INCIDENT HAVE BEEN OUTLINED IN THE ENVIRONMENTAL MANAGEMENT PLAN.

I) NECESSARY MEASURES WILL BE TAKEN UPON THE PERMANENT CESSATION OF THE ACTIVITY CONCERNED (INCLUDING SUCH A CESSATION RESULTING FROM THE ABANDONMENT OF THE ACTIVITY) TO AVOID ANY RISK OF ENVIRONMENTAL POLLUTION AND RETURN THE SITE TO A SATISFACTORY STATE. AS THE MATERIALS USED TO RESTORE THE SITE ARE NON-TOXIC, THERE WILL BE NO REQUIREMENT TO PROVIDE FOR LONG-TERM MEASURES TO MONITOR AND PREVENT RISK OF LONG TERM POLLUTION ARISING AT THE SITE.

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IN DEVELOPING THE PROPOSED RESTORATION SCHEME, DOK QUARRYSTONE LTD. CONSIDERED THE REQUIREMENT TO USE BEST AVAILABLE TECHNIQUES, WHERE POSSIBLE AND PRACTICABLE. THE CONSIDERATIONS REFERRED TO IN ANNEX IV OF COUNCIL DIRECTIVE 96/61/EC ON INTEGRATED POLLUTION PREVENTION AND CONTROL ARE ADDRESSED AS FOLLOWS:

1. The use of low waste technology

THE PROPOSED BACKFILLING AND RESTORATION OF THE APPLICATION SITE WILL, FOR PART, ONLY REQUIRE UTILISATION OF CONVENTIONAL HGV TRUCKS AND EARTHMOVING EQUIPMENT. AS THE MATERIALS USED TO RESTORE THE SITE ARE INERT, THERE IS LITTLE NEED TO APPLY BEST AVAILABLE TECHNOLOGIES TO LIMIT, ABATE AND/OR REDUCE EMISSIONS. CONTROLLING EMISSIONS FROM THE SITE, GREATEST EMPHASIS WILL BE PLACED ON ENVIRONMENTAL MANAGEMENT SYSTEMS.

2. The use of less hazardous substances.

NO HAZARDOUS OR NON-HAZARDOUS MATERIALS (OTHER THAN DIESEL FUEL AND ENGINE OIL) WILL BE USED IN RESTORING THE APPLICATION SITE. THERE IS CURRENTLY NO ALTERNATIVE TO DIESEL FUEL TO POWER EARTHMOVING EQUIPMENT OR CRUSHING / SCREENING PLANT.

3. The furthering of recovery and recycling of substances generated and used in the process and of waste, where appropriate.

GIVEN THAT THE MATERIALS USED FOR SITE RESTORATION PURPOSES ARE INERT AND ARE BEING EFFICIENTLY REUSED FOR BENEFICIAL PURPOSE, THERE IS NO SCOPE FOR FURTHER MATERIALS RECOVERY OR RECYCLING.

4. Comparable processes, facilities or methods of operation which have been tried with success on an industrial scale.

NO ALTERNATIVE SUCCESSFUL SOIL RECOVERY ACTIVITY KNOWN OF.

5. Technology advances and changes in scientific knowledge and understanding

NO ALTERNATIVE SOIL RECOVERY TECHNOLOGIES ARE KNOWN. EFFECTS AND VOLUME OF THE EMISSIONS CONCERNED AS THE MATERIALS USED FOR BACKFILLING AND SITE RESTORATION PURPOSES ARE INERT; THERE IS NO POTENTIAL FOR CONTAMINATED EMISSIONS TO GROUND, GROUNDWATER AND/OR THE ATMOSPHERE. BEST NOISE AND VIBRATION EMISSIONS WILL BE CONTROLLED AND MONITORED TO COMPLY WITH SUCH LIMITATIONS AS MAY BE IMPOSED BY A WASTE LICENCE ISSUED IN RESPECT OF THE PROPOSED RESTORATION WORKS.

7. The commissioning dates for new or existing installations

THERE ARE VERY FEW EXISTING SOIL RECOVERY OPERATIONS CURRENTLY IN OPERATION IN THE GREATER TIPPERARY AREA. THESE FACILITIES OPERATE IN A COMMERCIAL ENVIRONMENT AND MEET THE DEMAND FOR SOIL RECOVERY GENERATED LARGELY BY THE CONSTRUCTION INDUSTRY. SOIL RECOVERY FACILITIES TYPICALLY HAVE A FINITE CAPACITY. ADDITIONAL FACILITIES ARE REQUIRED ON AN ONGOING BASIS TO REPLACE CLOSED FACILITIES AND ENSURE THE EXISTING MARKET CONTINUES TO FUNCTION NORMALLY.

8. *The length of time needed to introduce the best available technique as* PREVIOUSLY NOTED; THE MATERIALS USED TO RESTORE THE SITE ARE INERT AND CONVENTIONAL, RELATIVELY LOW TECHNOLOGY PLANT AND EQUIPMENT. AS SUCH THERE IS LITTLE SCOPE OR REQUIREMENT FOR DEVELOPMENT OF NEW WASTE MANAGEMENT TECHNOLOGIES OR TECHNIQUES TO PROVIDE ENVIRONMENTAL PROTECTION. *consumption and nature of raw materials (including water) used in the process and their energy efficiency.* THE ONLY MATERIALS CONSUMED BY THE PROPOSED ON-SITE REMEDIATION ACTIVITIES ARE DIESEL ENGINE OILS USED TO POWER PLANT AND EQUIPMENT. NO OTHER HAZARDOUS OR NON-HAZARDOUS WILL BE REQUIRED ON SITE. SMALL SCALE ENERGY REQUIREMENTS FOR SITE OFFICES, LIGHTING, HEATING, SECURITY CAMERAS WILL BE PROVIDED BY A CONNECTION FROM OVERHEAD ELECTRICAL POWER LINE FAILING THAT, FROM A TEMPORARY GENERATOR. ENERGY USE WILL BE MINIMISED IN SO FAR AS PRACTICABLE.

10. *The need to prevent or reduce to a minimum the overall impact of the emissions on the environment and the risks to it.* AS PREVIOUSLY NOTED, THE MATERIALS USED TO RESTORE THE SITE ARE INERT. THE RISKS OF INCIDENTALLY EMISSIONS TO GROUND, GROUNDWATER AND THE ATMOSPHERE ARE THEREFORE VERY LOW. EMISSIONS OF NOISE AND DUST WILL BE CONTROLLED AND KEPT TO A MINIMUM DURING SITE RESTORATION WORKS BY APPLYING BEST PRACTICE SITE MANAGEMENT TECHNIQUES.

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Attachment L.2

DOK QUARRYSTONE LTD. CONSIDERS THAT IT IS A FIT AND PROPER PERSON TO HOLD A WASTE LICENCE AND HAS PROVIDED THE REQUISITE INFORMATION REQUIRED BY SECTION 40(7) OF THE WASTE MANAGEMENT ACTS 1996-2007 TO DEMONSTRATE SAME BELOW:

a) Indicate whether the applicant or other relevant person has been convicted under the Waste Management Acts 1996 to 2003, the EPA Act 1992 and 2003, the Local Government (Water Pollution) Acts 1977 and 1990 or the Air Pollution Act 1987.

DOK QUARRYSTONE LTD. HAS NOT BEEN CONVICTED OF ANY OFFENCE UNDER THE WASTE MANAGEMENT ACTS 1996 -2007, THE LOCAL GOVERNMENT (WATER POLLUTION) ACTS 1977-1990, THE ENVIRONMENTAL PROTECTION AGENCY ACT 2003 OR THE AIR POLLUTION ACT 1987.

B) Provide details of the applicant's technical knowledge and/or qualifications, along with that of other relevant employees.

THE MANAGING DIRECTOR OF DOK QUARRYSTONE LTD, DONAL O'KEEFE, HAS BEEN RESPONSIBLE FOR ALL ASPECTS OF SITE MANAGEMENT FROM THE OUTSET OF THE RESTORATION WORKS AT THE APPLICATION SITE IN 2001 INCLUDING PLANNING, OPERATION ENVIRONMENTAL, LEGAL AND FINANCIAL ASPECTS. HE IS IN ATTENDANCE AT THE SITE PERMANENT, FULL TIME BASIS. AS FREEHOLD OWNER OF MUCH OF THE APPLICATION SITE, HAS A VESTED INTEREST IN ENSURING THE RESTORATION WORKS ARE EXECUTED IN CONTROLLED AND TIMELY FASHION AND THAT NO ENVIRONMENTAL RISK ARISES. THE EFFECTIVENESS OF HIS ROLE TO DATE IS DEMONSTRATED BY:

- (I) AN ABSENCE OF COMPLAINTS FROM LOCAL RESIDENTS
- (II) ABSENCE OF CONTAMINATED MATERIALS IN RECENT TRAIL PITS ACROSS BACKFILLED AREA
- (III) CONSISTENCY IN WATER QUALITY UP AND DOWN HYDRAULIC GRADIENT OF THE SITE.

AT THE PRESENT TIME, IT IS ENVISAGED THAT DONAL O'KEEFE WILL REMAIN IN ATTENDANCE AT THE APPLICATION SITE ON A PERMANENT, FULL TIME BASIS UNTIL SUCH TIME AS RESTORATION WORKS ARE COMPLETED. IN OVERSEEING THE REMAINDER OF THE WORKS, WILL BE ASSISTED BY APPROPRIATELY QUALIFIED EXTERNAL CONSULTANTS AS AND WHEN REQUIRED (REFER TO ATTACHMENT C1).

c) Provide information to show that the person is likely to be in a position to meet any financial commitments or liabilities that may have been or will be entered into or incurred in carrying on the activity to which the application relates or in consequence of ceasing to carry out that activity.

DOK QUARRYSTONE LTD. WILL MEET THE COST OF ANY ONGOING OR FUTURE LEGAL AND ENVIRONMENTAL RESPONSIBILITIES FROM WITHIN ITS OWN RESOURCES AND DUE ALLOWANCE FOR SAME HAS BEEN MADE IN THE COMPANY'S BUSINESS PLAN. NO AVAILABLE SOURCE OF EXTERNAL FUNDING WILL BE REQUIRED. THE COMPANY AND/OR ITS DIRECTORS CAN PROVIDE SUCH GUARANTEES AND UNDERTAKINGS AS THE AGENCY CONSIDERS BEING NECESSARY.

MEET ANY FUTURE FINANCIAL OBLIGATIONS INCURRED IN UNDERTAKING THE PROPOSED WA
ACTIVITIES AT THE APPLICATION SITE.

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