



Waste Licence Application Form

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EPA Ref. N^o: <i>(Office use only)</i>	<input type="text"/>
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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 2003.

Environmental Protection Agency
P.O.Box 5000, Johnstown Castle Estate, County Wexford
Telephone: 053-60600 Fax: 053-60699



WASTE Application Form

Environmental Protection Agency
Application for a Waste Licence

WASTE MANAGEMENT ACTS 1996 to 2003

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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 Licensing, available from the EPA.***

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 45*, 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.

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	See Section 12(1) of the accompanying Document	
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	See Section 12(1) of the accompanying Document	
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 sanitary authority, give the name of the sanitary authority in which the sewer is vested or by which it is controlled,

LOCATION	NOT APPLICABLE	
CHECKED	Applicant <input checked="" 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	See Section 12(1) of the accompanying Document	
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, and in the case of application in respect of a landfill of waste, the requirements specified in Annex 1 of the Landfill Directive,

LOCATION	See Section 12(1) of the accompanying Document	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(f) specify the class or classes of activity concerned, in accordance with the Third and Fourth Schedules of the Act, and in the case of an application in respect of the landfill of waste, specify the class of landfill in accordance with Article 4 of the Landfill Directive,

LOCATION	See Section 12(1) of the accompanying Document	
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	See Section 12(1) of the accompanying Document	
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	See Section 12(1) of the accompanying Document	
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	See Section 12(1) of the accompanying Document	
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,

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LOCATION	See Section 12(1) of the accompanying Document	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

(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	See Section 12(1) of the accompanying Document	
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	See Section 12(1) of the accompanying Document	
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	See Section 12(1) of the accompanying Document	
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	See Section 12(1) of the accompanying Document	
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	See Section 12(1) of the accompanying Document	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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- (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	See Section 12(1) of the accompanying Document	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (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	See Section 12(1) of the accompanying Document	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (r) in the case of an application in respect of the landfilling of waste, give particulars of –

- (i) such financial provision as is proposed to be made by the applicant, having regard to the provisions of Articles (7)(i) and (8)(a)(iv) of the Landfill Directive and section 53(1) of the Act, and

LOCATION	NA	
CHECKED	Applicant <input type="checkbox"/>	Official <input type="checkbox"/>

- (ii) such charges as are proposed or made, having regard to the requirements of section 53A of the Act,

LOCATION	NA	
CHECKED	Applicant <input type="checkbox"/>	Official <input type="checkbox"/>

- (s) state whether the activity is for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards involving Dangerous Substances) Regulations, 2000 (S.I. No. 476 of 2000) apply,

LOCATION	See Section 12(1) of the accompanying Document	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

- (t) 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

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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	See Section 12(1) of the accompanying Document	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	See Section Non Technical Summary of the accompanying Document	
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	See Section 1 of the Accompanying Document	
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	See Section 1 of the Accompanying Document	
CHECKED	Applicant <input checked="" type="checkbox"/>	Official <input type="checkbox"/>

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

LOCATION	See Section 1 of the Accompanying Document	
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

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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	See the Drawings of Accompanying Document	
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	See the Drawings of Accompanying Document	
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	See the Drawings of Accompanying Document	
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	Y	
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 2 copies in hardcopy format 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"/>

Article 13 Where a development requires an Environmental Impact Assessment to be carried out, 1 signed original and 2 copies in hardcopy format of the environmental impact statement plus 16 copies in electronic searchable PDF format on CD-ROM should accompany this application.



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

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PROCEDURES

It is recommended that pre-application consultations with the Agency are 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) 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 waste management facility is 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 2003.

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 2003.

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

- All drawings submitted should be titled and dated.
- They should have a **unique reference number** and should be signed by a clearly identifiable person.
- 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.



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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**.

NTS is included with the accompanying document.

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SECTION B GENERAL

B.1 Applicant's Details

Name*: Nurendale Ltd., T/A Panda Waste Services Ltd.,

Address: Rathdrinagh,
Beauparc,
Navan,
Co. Meath.

Tel: 046 - 9024111

Fax: 046 - 9024189

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: Mr. David Naughton,

Address: Panda Waste Services Ltd.,
Rathdrinagh,
Beauparc,
Navan,
Co Meath

Tel: 046 - 9024111

Fax: 046 - 9024189

e-mail:

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

Address: As above

Tel:

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 checked="" type="checkbox"/>
Lessee	<input 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: NOT APPLICABLE

Address:

Tel:

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: Nurendale Ltd., T/A Panda Waste Services Ltd.,

Address*: Rathdrinagh,
Beuparc,
Navan,
Co. Meath.

Tel: 046 - 9024111

Fax: 046 - 9024189

e-mail:

* Include any townland

National Grid Reference (8 digit 4E,4N)	E2973 N2689,
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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: Meath County Council,

Address: County Hall,

Navan,

Co. Meath

Tel: 046 9097000

Fax: 046 9097001

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:-

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

Local Authority Planning File Reference N^o:	SA60656
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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.

B.4 Sanitary 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 sanitary authority or other body, give the name of the sanitary 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



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Address:

Four horizontal lines for address input.

Tel:

Fax:

Two horizontal lines for telephone and fax input.

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 | No

The applicant should indicate the **Health Board Region** where the activity is or will be located.

Name: Health Service Executive

Address: Naas

Co Kildare

Tel: 045 880400

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.

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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 Third Schedule or Fourth Schedule to the Waste Management Acts 1996 to 2003, to which the application relates (check the relevant box(es) 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 THIRD AND FOURTH SCHEDULES OF THE WASTE MANAGEMENT ACTS 1996 TO 2003

Waste Management Acts 1996 to 2003			
THIRD SCHEDULE Waste Disposal Activities	Y/N	FOURTH SCHEDULE Waste Recovery Activities	Y/N
1. Deposit on, in or under land (including landfill).		1. Solvent reclamation or regeneration.	
2. Land treatment, including biodegradation of liquid or sludge discards in soils.		2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).	Y
3. Deep injection of the soil, including injection of pumpable discards into wells, salt domes or naturally occurring repositories.		3. Recycling or reclamation of metals and metal compounds.	Y
4. Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.		4. Recycling or reclamation of other inorganic materials.	Y (P)
5. Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.		5. Regeneration of acids or bases.	
6. Biological treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 7 to 10 of this Schedule.		6. Recovery of components used for pollution abatement.	
7. Physico-chemical treatment not referred to elsewhere in this Schedule which results in final compounds or mixtures which are disposed of by means of any activity referred to in paragraphs 1 to 5 or paragraphs 8 to 10 of this Schedule (including evaporation, drying and calcination).		7. Recovery of components from catalysts.	
8. Incineration on land or at sea.		8. Oil re-refining or other re-uses of oil.	
9. Permanent storage, including emplacement of containers in a mine.		9. Use of any waste principally as a fuel or other means to generate energy.	
10. Release of waste into a water body (including a seabed insertion).		10. The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.	
11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.	Y	11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.	Y
12. Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.	Y	12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.	
13. Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.	Y	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.	Y

TABLE B.7.2 MAXIMUM ANNUAL TONNAGE

The maximum annual tonnage of waste to be handled at the site should be indicated and the year to which the quantity relates indicated.

Maximum Annual Tonnage (tpa)	250,000
Year	2007

B.7.3 FEES

State each class of activity for which a 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. Note: two fees are required if disposal and recovery are to occur.

Waste Activity	Fee (in €)
Disposal of Waste (appropriate disposal activity 1.1 – 3.3)	10,000
Recovery of Waste (4)	6,000

TABLE B.7.4 (FOR A LANDFILL APPLICATION) NOT APPLICABLE

STATE WHICH OF THE FOLLOWING IS RELEVANT TO THE CURRENT APPLICATION.

(a) landfill for hazardous waste	<input type="checkbox"/>
(b) landfill for non-hazardous waste	<input type="checkbox"/>
(c) landfill for inert waste	<input type="checkbox"/>

B.8 SEVESO II DIRECTIVE

State whether the activity is for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards involving Dangerous substances) Regulations, 2000 (S.I. No. 476 of 2000), apply.

Regulations Apply	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
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If yes, **Attachment B.8** should include the relevant details. Supporting information, as well as copies of any Hazardous Operation Studies (HAZOP) carried out for the site, should also be included in the attachment.

SECTION C MANAGEMENT OF THE FACILITY

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

C.1 Technical Competence and Site Management

See **Section 12(1) of the Accompanying Doc**

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

C.2 Environmental Management System

Full documented EMS available on site. This system has been audited by the Agency.

Attachment C 2 should contain the Environmental Management System (EMS) details required.

C.3 Hours of Operation

See **Section 12(1) of the Accompanying Doc**

Attachment C 3 should contain details of hours of operation for the waste facility, civic waste facilities and other facilities.

- (a) Proposed hours of operation.
- (b) Proposed hours of waste acceptance/handling.
- (c) Proposed hours of any construction and development works at the facility and timeframes (required for landfill facilities).
- (d) Any other relevant hours of operation expected.

C.4 Conditioning Plan

Not applicable

Address as **Attachment C 4**, in the case of a LANDFILL Application, and only for the review of a Landfill Waste Licence.

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	
D.1.b	Designs for site roads	y	
D.1.c	Design of hardstanding areas	y	
D.1.d	Plant	y	
D.1.e	Wheel-wash	y	
D.1.f	Laboratory facilities	n	
D.1.g	Design and location of fuel storage areas	y	
D.1.h	Waste quarantine areas	y	
D.1.i	Waste inspection areas	y	
D.1.j	Traffic control	y	
D.1.k	Sewerage and surface water drainage infrastructure	y	
D.1.l	All other services	y	
D.1.m	Plant sheds, garages and equipment compound	y	
D.1.n	Site accommodation	y	
D.1.o	A fire control system, including water supply	y	
D.1.p	Civic amenity facilities	y	
D.1.q	Any other waste recovery infrastructure	y	
D.1.r	Composting infrastructure	y	
D.1.s	Construction and Demolition waste infrastructure	y	
D.1.t	Incineration infrastructure (if applicable). Provide information to fulfil Article 4 (2) & (3) of the Incineration of Waste Directive	n	
D.1.u	Any other infrastructure	n	

D.2 Facility Operation

See Section 12(1) of the accompanying doc

In **Attachment D 2** describe the plant, methods, processes and operations of the waste facility, as required by the *Guidance Note*.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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LANDFILLS – NOT APPLICABLE

The following Sections D3 to D7 should only be completed for Landfill Applications. Reference should be made to the Agency landfill manual ‘Landfill Site Design (2000)’ when completing this section.

D.3 Liner System

Complete the following table regarding the liner system to be used for the landfill/landfill extension and detail the information requested as **Attachment D.3. Items D3c to D3g should only be completed for immediate projects only (ie Years 1 & 2)**. A schedule of Liner construction activities for the medium to long term need only be listed in item D3a below, since Condition 3 of any licences granted will provide reporting requirements for any future projects.

TABLE D.3 LINER SYSTEM

		y/n	Comments
D.3.a	Provide information to fulfil Annex 1 of the Landfill Directive		
D.3.b	What type of liner system is specified?		
D.3.c	Has a Quality Control Plan been specified?		
D.3.d	Has a Quality Assurance Plan been specified?		
D.3.e	Have independent, third-party supervision, testing and controls been specified?		
D.3.f	Have basal gradients for all cells and access ramps to the cells been designed?		
D.3.g	Has a leak detection survey been specified?		

D.4 Leachate Management

Complete the following table detailing leachate management arrangements. Further information should be included in **Attachment D.4**.

TABLE D.4.1 LEACHATE MANAGEMENT ARRANGEMENTS

		y/n	Comments
D.4.a	Is there a Leachate Management Plan?		
D.4.b	Have annual quantities of leachate been calculated?		
D.4.c	Has the total quantity of leachate been calculated?		
D.4.d	Have the size of the cells been specified taking account of the water balance calculations?		
D.4.e	Has a leachate collection system been specified?		
D.4.f	Has a leachate storage system been specified?		
D.4.g	Has a system for monitoring the level of leachate in the waste been designed?		
D.4.h	Is leachate recirculation proposed/practised?		
D.4.i	Has leachate treatment on-site been specified?		
D.4.j	Has leachate removal been specified?		

D 5 Landfill Gas Management

All landfill sites should have suitable arrangements for the management of landfill gas. **Attachment D.5** should contain the appropriate documentation. Information provided should follow the sequence, and use the headings, established in Table D.5. **Items D5g to D5m should only be completed for immediate or current gas collection projects only (ie Years 1 & 2)**. A schedule of gas management aspects for the medium to long term need only be listed in item D5f below, since Condition 3 of any proposed decision/licence will provide reporting requirements for any future projects.

Table D.5. Landfill Gas Management

		y/n	Comments
D.5a	<p>Is there a Landfill Gas Management Plan?</p> <p>Provide estimates of the volumes of landfill gas which will be produced by the waste disposed of in the site for the next 20 years, and compare to the EPER list for methane:</p>		
D.5b	Is there a passive venting system?		
D.5c	Does the passive system cover all of the filled area?		
D.5d	Have gas alarm systems been installed in the site buildings?		
D.5e	Have measures been installed to prevent landfill gas migration (e.g. barriers)?		
D.5f	Has a time-scale been proposed for the installation of landfill gas infrastructure?		
D.5g	Is gas flaring undertaken at the site?		
D.5h	Is there an active (i.e., pumped) landfill gas extraction system?		
D.5i	Does the active system cover all of the filled area?		
D.5j	Is landfill gas used to generate energy at the site?		
D.5k	Have emissions from the flarestack and utilisation plant been assessed for source, composition, quantity and level and rate?		
D.5l	Has a maintenance programme for the control system been specified?		
D.5m	Has a condensate removal system been designed?		

D.6 Capping System

Complete the following table detailing the design of the capping system. Attachment D.6 should contain the appropriate documentation. **Items D6e to D6k should be completed for immediate projects only (ie Years 1 & 2).** Condition 10 of any proposed decision/licence will provide reporting requirements for capping requirements beyond this timeframe.

Table D.6 Capping System

		y/n	Comments
D.6a	Has the daily cover been specified?		
D.6b	Has the intermediate cover been specified?		
D.6c	Has the temporary capping been specified?		
D.6d	Has the Capping System been designed and does it meet the requirements of the Landfill Directive Annex 1 (3.3)?		
D.6e	Does the Capping System include a flexible membrane liner?		
D.6f	Have all capping materials been specified?		
D.6g	Has a Method Statement for construction been produced?		
D.6h	Has a Quality Control Plan been produced?		
D.6i	Has a Quality Assurance Plan been produced?		
D.6j	Has a programme for monitoring landfill stability been developed?		
D.6k	Has a programme for monitoring landfill settlement been developed?		

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 are emitted.

See Section 12(1) k of the Accompanying Doc

E.1 Emissions to Atmosphere

Details of all point emissions to atmosphere should be supplied. Table E.1.(i) (for Landfill Gas Flare emissions) must be completed for all landfills with a flare. Complete Table E.1(ii) and E.1(iii) for all other main emission points, including stack sources (incinerator stacks, landfill gas utilisation plants, air handling unit emissions etc.). Complete Table E.1(iv) for minor/fugitive/ground emission points.

E.2 Emissions to Surface Waters

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

E.3 Emissions to Sewer

Attachment E.3 Tables E.3(i) and E.3(ii) should be completed, where relevant.

E.4 Emissions to Groundwater

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 pollution by certain dangerous substances.

Table E.4(i) should be completed, as relevant, for each source.

Supporting information should form **Attachment E.4**

E.5 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.5(i) should be completed, as relevant, for each source.

Supporting information should form **Attachment E.5**



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E.6 Environmental Nuisances

Attachment E.6 should contain the appropriate documentation. Information provided should follow the sequence, and use the headings as relevant established in Table D.6. Additional advice on completing this section is provided in the Guidance Note.

TABLE E.6 ENVIRONMENTAL NUISANCES

Bird 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"/>
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"/>
Fire 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"/>
Litter 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"/>
Vermin 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

See Section 12(1) i of the Accompanying Doc

Describe the proposed technology and other techniques for preventing or, where this is not possible, reducing emissions from the installation/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- F. 9. Monitoring and Sampling Points

Programmes for environmental monitoring should be submitted as part of the application. These programmes should be provided as **Attachments F.2 to F.6** and meet the advice published by the Agency in the relevant BAT Note. For Landfills the additional **Attachments F.7 to F.8** should be completed. Furthermore for a landfill application the applicant must refer to the Agency *Landfill Monitoring Manual (2003)* for further details on monitoring requirements for proposed facilities.

Include details of monitoring/sampling locations and methods.

F.2 Air

- to include Dust, Odour

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.3 Surface Water

See Accompanying Doc

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"/>



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F.4 Sewer Discharge

NOT APPLICABLE

Monitoring of sewer discharge shall be carried out at the point specified by the local 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.5 Groundwater

Groundwater monitoring is required at all landfill facilities; and certain other waste facilities depending on waste activities and the underlying aquifer vulnerability.

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 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"/>

F.7 Meteorological Data

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"/>

Application for Landfills require the additional Attachments F.7 to F.8, to be completed:

NOT APPLICABLE



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F.8 Leachate

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

F.9 Landfill Gas

Complete each of the following tables to show whether information has been included on aspects of landfill gas monitoring. **Attachment F.9** should also contain information to show whether the data given in Tables F.9.(a) and F.9(b) below represents actual or anticipated data. Complete Table F.9 as follows:

Table F.9 (a) Landfill Gas Monitoring for existing landfill gas flares / utilisation plants

Parameter	Concentration (mg/Nm ³)	Proposed Frequency of Analysis	Information Included Y/N	Method of Analysis	Information Included Y/N
Inlet					
Methane (CH ₄) % v/v					
Carbon dioxide (CO ₂) %v/v					
Oxygen (O ₂) % v/v					
Outlet					
Volumetric Flow Rate					
SO ₂					
Nox					
CO					
Particulates					
TA Luft Class I, II, III organics					
Hydrochloric acid					
Hydrogen Fluoride					

Table F.9(b) Landfill Gas Monitoring

Parameter	Proposed Frequency of Analysis		Information Included Y/N	Method of Analysis	Information Included Y/N
	Gas boreholes / vents/ wells/ perimeter locations	Facility Office			
Methane (CH₄) % v/v					
Carbon Dioxide (CO₂) % v/v					
Oxygen (O₂) % v/v					
Atmospheric Pressure					
Temperature					

Table F.9 (c) Landfill Gas Infrastructure

Equipment	Monitoring Frequency	Information Included Y/N	Monitoring Action	Information Included Y/N
Gas Collection System				
Gas Control System				

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

SECTION G RESOURCES USE & ENERGY EFFICIENCY

G.1 Raw Materials, Substances, Preparations and Energy

See Section 12(1) h of the Accompanying Doc

Attachment G.1 should contain a list of all raw, product and ancillary materials, substances, preparations, fuels and energy which will be utilised in or produced 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. Additional advice on completing this section is provided in the *Guidance Note*.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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G.2 Energy Efficiency

A description of the energy used in or generated by the activity must be provided in **Attachment G.2**.

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 3rd Schedule (Disposal) Activities			Waste Management Act 4th Schedule (Recovery) Activities		
Class of Activity Applied For		Quantity (tpa)	Class of Activity Applied For		Quantity (tpa)
Class 1			Class 1		
Class 2			Class 2		75000
Class 3			Class 3		13000
Class 4			Class 4		100,000
Class 5			Class 5		
Class 6			Class 6		
Class 7			Class 7		
Class 8			Class 8		
Class 9			Class 9		
Class 10			Class 10		
Class 11		30000	Class 11		1000
Class 12		29000	Class 12		
Class 13		1000	Class 13		1000

In Table H. 1 (B) provide the annual amount of waste handled/to be handled at the facility. Additional information should be included in **Attachment H.1**. The tonnage per annum should be given of that expected for the life of the licence, with at least the next five years tonnages provided. For Landfill Review applications provide an estimate of the quantity of waste already deposited in (i) lined cells; (ii) unlined cells.

TABLE H.1(B) ANNUAL QUANTITIES AND NATURE OF WASTE

Year	Non-hazardous waste (tonnes per annum)	Hazardous waste (tonnes per annum)	Total annual quantity of waste (tonnes per annum)
2007	250000	0	250000
2008	250000	0	250000
2009	250000	0	250000

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2010	250000	0	250000
2011	250000	0	250000

A detailed inventory of the types and quantities of wastes currently handled at the site and proposed to be handled should be submitted as Table H.1 (C).

TABLE H.1 (C) WASTE TYPES AND QUANTITIES

WASTE TYPE	TONNES PER ANNUM (existing)	TONNES PER ANNUM (proposed)	TOTAL (over life of site) tonnes
Household	20000	35000	NOT APPLICABLE
Commercial	22500	37500	NOT APPLICABLE
Sewage Sludge			
Construction and Demolition	85000	120000	NOT APPLICABLE
Industrial Non-Hazardous Sludges			
Industrial Non-Hazardous Solids	22500	37500	NOT APPLICABLE
COMPOSTABLE	15000	20000	
Hazardous *(Specify detail in Table H 1.2)	0		
Inert Waste imported for restoration purposes			

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COMPLETE FOR LANDFILL & CONTAMINATED LAND FACILITIES ONLY

• **TABLE H.1.2 HAZARDOUS WASTE TYPES AND QUANTITIES**

NOT APPLICABLE

HAZARDOUS WASTE	DETAILED DESCRIPTION * REFERENCE SHOULD BE MADE TO THE RELEVANT EUROPEAN WASTE CATALOGUE CODES AS PRESENTED BY COMMISSION DECISION 2000/532/EC	Tonnes Per Annum (Existing)	(Tonnes Per Annum Proposed)
Waste Oil			
Oil filters			
Asbestos			



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Paint and Ink			
Batteries			
Fluorescent Light Bulbs			
Contaminated Soils			
OTHER HAZARDOUS WASTE (APPLICANT TO SPECIFY)			

Attachment H.1 should contain any relevant additional information.

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

See Section 12(1)I of the Accompanying Document

Procedures for checking waste loads as they arrive at the facility 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

See Section 12(1)I of the Accompanying Document

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. Special requirements hold for contaminated soil facilities, see *Guidance Note*.

In addition, an application for a Landfill requires Section H.3.a to be completed:

H.3a Waste Handling at the Landfill Facility

State whether all waste will be subject to treatment prior to landfilling. Provide information as to the quantities of biodegradable municipal waste and how the targets of the Landfill Directive (1999/31/EC) relating to that waste type are to be achieved. In particular describe how the following will be achieved:

- (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;
- (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;

(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;

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

H.4 Waste Arisings

See Section 12(1)I of the Accompanying Document

Waste Arisings should be considered for all contaminated soil applications. Details of all waste materials generated on the site including, name, description and nature as well as the source(s) should be identified. The quantities of each type of waste generated on an annual/monthly basis should be calculated and stated in Tables H.1(i) and H. 1(ii) of the application form. Applicants should also provide conversion factors used to relate volume (m³) and tonnage (t) for their waste stream.

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 atmospheric emissions

See Section 12(1)k of the Accompanying Document

Describe the existing environment in terms of air quality with particular reference to ambient air quality standards.

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

Attachment I.1 should also contain full details of any dispersion modelling of atmospheric emissions from the activity, where required.

I.2. Assessment of Impact on Receiving Surface Water

See Section 12(1)k of the Accompanying Document

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.2.**

I.3. Assessment of Impact of Sewage Discharge

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.3.**

I.4 Assessment of impact of ground/groundwater emissions

See Section 12(1)k of the Accompanying Document

The scope and detail of this assessment will depend to a large extent on the extent and type of ground emissions at any site, which in turn are related to the risk. Details should be included in **Attachment I.4.** Comprehensive guidelines are contained in the *Application Guidance Note*, and include particular requirements for landfill and brownfield facilities.

Describe the existing groundwater quality. Tables I.4(i) should be completed.

I.5 Ground and/or groundwater contamination

See Section 12(1)k of the Accompanying Document



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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.5**.

See Section 12(1)k of the Accompanying Document

I.6 Noise Impact.

See Section 12(1)k of the Accompanying Document

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.6**.

I.7 Assessment of Ecological Impacts & Mitigation Measures

Not Applicable

The ecology of the site and the surrounding area should be assessed in the vicinity of the largescale waste facilities such as landfill or incinerator developments. An assessment of the ecology should form **Attachment I.7**. Comprehensive guidelines are contained in the *Application Guidance Note*

SECTION J ACCIDENT PREVENTION & EMERGENCY RESPONSE**See Section 12(1)p of the Accompanying Document**

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**See Section 12(1)q of the Accompanying Document**

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.

For Landfill Applications, capping proposals are required, and reference should be made to the *Landfill Manual on 'Restoration and Aftercare'* published by the Agency, when completing this section.

Attachment included	yes <input checked="" type="checkbox"/>	no <input type="checkbox"/>	not applicable <input type="checkbox"/>
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SECTION L STATUTORY REQUIREMENTS**L. 1 Section 40(4) WMA****See Section 12(1)j of the Accompanying Document**

Indicate how all the requirements of Section 40(4)[(a) to (i)] of the Waste Management Acts 1996 to 2003 will be met.



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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.

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"/>
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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 2003, the EPA Act 1992 and 2003, 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 2003 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:  Date: 20/04/07
(on behalf of the organisation)
Print signature name: EAMON WATERS
Position in organisation: 

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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

NOT APPLICABLE

TABLE E.1(i) LANDFILL GAS FLARE EMISSIONS TO ATMOSPHERE

Emission Point:

Emission Point Ref. N ^o :	
Location :	
Grid Ref. (12 digit, 6E,6N):	
Vent Details Diameter: Height above Ground(m):	
Date of commencement of emission:	

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Characteristics of Emission:

CO	mg/m ³
Total organic carbon (TOC)	mg/m ³
NOx	mg/Nm ³ 0°C. 3% O ₂ (Liquid or Gas), 6% O ₂ (Solid Fuel)
Maximum volume of emission	m ³ /hr
Temperature	°C(max) °C(min) °C(avg)

(i) 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 Application Form

TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE (1 Page for each emission point)
 NOT APPLICABLE

Emission Point Ref. N ^o :	
Source of Emission:	
Location :	
Grid Ref. (12 digit, 6E,6N):	
Vent Details Diameter:	
Height above Ground(m):	
Date of commencement:	

Characteristics of Emission :

(i) Volume to be emitted:			
Average/day	m ³ /d	Maximum/day	m ³ /d
Maximum rate/hour	m ³ /h	Min efflux velocity	m.sec ⁻¹
(ii) Other factors			
Temperature	°C(max)	°C(min)	°C(avg)
For Combustion Sources: Volume terms expressed as : <input type="checkbox"/> wet. <input type="checkbox"/> dry. _____%O ₂			

(iii) 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 Application Form

TABLE E.1(iii): MAIN EMISSIONS TO ATMOSPHERE - Chemical characteristics of the emission (1 table per emission point)

Emission Point Reference Number: _____

NOT APPLICABLE

Parameter	Prior to treatment ⁽¹⁾				Brief description of treatment	As discharged ⁽¹⁾							
	mg/Nm ³		kg/h			mg/Nm ³		kg/h.		kg/year			
	Avg	Max	Avg	Max		Avg	Max	Avg	Max	Avg	Max		

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1. Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C,101.3kPa). Wet/dry should be the same as given in Table E.1(ii) unless clearly stated otherwise.



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TABLE E.1(iv): EMISSIONS TO ATMOSPHERE - Minor /Fugitive

Emission point Reference Numbers	Description	Emission details ¹				Abatement system employed
		material	mg/Nm ³⁽²⁾	kg/h.	kg/year	

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- 1 The maximum emission should be stated for each material emitted, the concentration should be based on the maximum 30 minute mean.
- 2 Concentrations should be based on Normal conditions of temperature and pressure, (i.e. 0°C/101.3kPa). Wet/dry should be clearly stated. Include reference oxygen conditions for combustion sources.



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TABLE E.2(i): EMISSIONS TO SURFACE WATERS
(One page for each emission)

Emission Point:SW1

Emission Point Ref. N ^o :	SW1
Source of Emission:	Runoff
Location :	Unknown as yet – Details will be SEW
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) Volume to be emitted			
Normal/day	m ³	Maximum/day	m ³



WASTE Application Form

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
---------------------------	--------------	--------------	--------------

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TABLE E.2(ii): EMISSIONS TO SURFACE WATERS - Characteristics of the emission (1 table per emission point)

Details will form SEW

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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TABLE E.3(i): EMISSIONS TO SEWER(One page for each emission)

NOT APPLICABLE

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
---------------------------	--------------	--------------	--------------

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TABLE E.3(ii): EMISSIONS TO SEWER - 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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TABLE E.4(i): EMISSIONS TO GROUNDWATER (1 Page for each emission point)

NOT APPLICABLE

Emission Point or Area:

Emission Point/Area Ref. N ^o :	
Emission Pathway: (borehole, well, percolation area, soakaway, landspreading, etc.)	
Location :	
Grid Ref. (10 digit, 5E,5N):	
Elevation of discharge: (relative to Ordnance Datum)	
Aquifer classification for receiving groundwater body:	
Groundwater vulnerability assessment (including vulnerability rating):	
Identity and proximity of groundwater sources at risk (wells, springs, etc):	
Identity and proximity of surface water bodies at risk:	

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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
---------------------------	--------------	--------------	--------------

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Table E.5(i): NOISE EMISSIONS - Noise sources summary sheet
 MONITORING DATA PROVIDED IN ACCOMPANYING DOC

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.



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TABLE F.1: ABATEMENT / TREATMENT CONTROL

See Section 12(1) of the accompanying doc

Emission point reference number : _____

Control ¹ parameter	Equipment ²	Equipment maintenance	Equipment calibration	Equipment back-up

Control ¹ parameter	Monitoring to be carried out ³	Monitoring equipment	Monitoring equipment calibration

¹ List the operating parameters of the treatment / abatement system which control its function.

² List the equipment necessary for the proper function of the abatement / treatment system.

³ List the monitoring of the control parameter to be carried out.



WASTE Application Form

TABLE F.2 to F.8 : EMISSIONS MONITORING AND SAMPLING POINTS - (1 table per media)

See Accompanying doc

Emission Point Reference No(s) : _____

Parameter	Monitoring frequency	Accessibility of Sampling Points

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TABLE Ff: Fugitive ENVIRONMENT MONITORING AND SAMPLING LOCATIONS (1 table per media)

MONITORING DATA PROVIDED IN ACCOMPANYING DOC

Monitoring Point Reference No : _____

Parameter	Monitoring frequency	Accessibility of Sampling point

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Table G.1 Details of Process related Raw Materials, Intermediates, Products, etc., used or generated on the site

See accompanying Doc

Ref. N ^o or Code	Material/ Substance ⁽¹⁾	CAS Number	Danger ⁽²⁾ Category	Amount Stored (tonnes)	Annual Usage (tonnes)	Nature of Use	R ⁽³⁾ - Phrase	S ⁽³⁾ - Phrase

- Notes:
1. In cases where a material comprises a number of distinct and available dangerous substances, please give details for each component substance.
 2. c.f. Article 2(2) of SI N^o 77/94
 3. c.f. Schedules 2 and 3 of SI N^o 77/94

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TABLE H.1(i): WASTE - Hazardous Waste Recovery/Disposal

Not applicable

Waste material	EWC Code	Main source ¹	Quantity		On-site Recovery/Disposal (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m ³ / month			

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¹ A reference should be made to the main activity / process for each waste.



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TABLE H.1(ii) WASTE - Other Waste Recovery/Disposal

See accompanying Doc

Waste material	EWC Code	Main source ¹	Quantity		On-site recovery/disposal ² (Method & Location)	Off-site Recovery, reuse or recycling (Method, Location & Undertaker)	Off-site Disposal (Method, Location & Undertaker)
			Tonnes / month	m ³ / month			

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- 1 A reference should be made to the main activity/ process for each waste.
- 2 The method of disposal or recovery should be clearly described and referenced to Attachment H.1



WASTE Application Form

**All monitoring Data in the accompanying Document
Table I.2(i) 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	Date	Date			
pH							
Temperature							
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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Surface Water Quality (Sheet 2 of 2)

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

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Table I.4(i) 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	Date			
pH							
Temperature							
Electrical conductivity EC							
Ammoniacal nitrogen NH ₄ -N							
Dissolved oxygen DO							
Residue on evaporation (180°C)							
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	Date			
Phosphate PO ₄							
Sulphate SO ₄							
Zinc Zn							
Total alkalinity (as CaCO ₃)							
Total organic carbon TOC							
Total oxidised nitrogen TON							
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.6(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.

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APPLICATION TO REVIEW

WASTE LICENCE REG. NO. W0140-02

PANDA WASTE SERVICES LTD

RATHDRINAGH, NAVAN.

CO. MEATH.

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Prepared For: -

PANDA Waste Services Ltd.,
Rathdrinagh,
Beauparc,
Navan,
Co. Meath.

Prepared By: -

O' Callaghan Moran & Associates,
Granary House,
Rutland Street,
Cork.

26th April 2007



APPLICATION TO REVIEW
WASTE LICENCE REG NO. W0140-02
PANDA WASTE SERVICES LTD
RATHDRINAGH, NAVAN
CO. MEATH

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

Prepared For: -

PANDA Waste Services Ltd.,
Rathdrinagh,
Beauparc,
Navan,
Co. Meath.

Prepared By: -

O' Callaghan Moran & Associates,
Granary House,
Rutland Street,
Cork.

26th April 2007

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PW160307 –	Enclosed Timber Shredder
PWS002	Monitoring Locations

INTRODUCTION

Nurendale Ltd, trading as Panda Waste Services Ltd (PANDA), is applying to the Environmental Protection Agency (Agency) for a review of the Waste Licence for its Materials Recycling Facility at Beuparc, Navan, County Meath (Reg. No. W0140-02). The objectives of the review are: -

- To increase the overall limit set for annual waste inputs from the 165,000 tonnes specified in Condition 1.3 and Schedule A to 250,000 tonnes, and to increase the individual limits for the Household, Commercial & Industrial, Compostable and Construction and Demolition (C&D) waste.
- To allow for the acceptance of Waste Electrical and Electronic Equipment (WEEE).
- To allow for the construction and operation of a new recycling building to the south of the site to accommodate the increased waste recovery activities, and the construction and operation of a skip repair building.
- To change the licence area to accommodate the new recycling building and additional recycling plant located on the eastern boundary of the current licensed area.
- To change Condition 1.6 to allow the hours of operation to be amended with the Agency's agreement.
- To allow for the installation of a constructed wetland to treat trade effluent and surface water run-off from the facility.

The format of the application is based on the requirements of Parts II and III of the Waste Management (Licensing) Regulations 2004 (2004 Regulations) and in particular Articles 5, 6, 7, 9, 12 and 13 of the Regulations.

1. ARTICLE 5, 6, 7 & 9

A copy of the notice published in a newspaper circulating in the area; a copy of the site notice, and the written notice submitted to the planning authority are included overleaf.

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Classified*



LEGAL

CATALYST SOFTWARE LIMITED having its registered office at 63 Liverpool, Dundrum, Dublin 16 and having its principal place of business at same address, having ceased to trade on the 31-12-2006, and having no assets or liabilities, has resolved to notify the Registrar of Companies that the Company is not carrying on business and to request the Registrar in that behalf to exercise his power pursuant to section 511 of the Companies Act 1963 to strike the name of the Company off the register. By Order of the Board.

VOLUNTARY STRIKE OFF APPLICATION in the matter of **Anchor View Limited** Registration No. 228789 And in the matter of **The Companies Act 1963 - 2006** Anchor View Limited, having its registered office at Hillway, Cashel, Co. Tipperary and having its principal place of business at Hillway, Cashel, Co. Tipperary, having ceased to trade, and having no assets or liabilities, has resolved to notify the Registrar of Companies that the Company is not carrying on business and to request the Registrar in that behalf to exercise his power pursuant to section 511 of the Companies Act 1963 to strike the name of the Company off the register. By Order of the Board. Dated this 11th April 2007. John Farrell Company Secretary.

VOLUNTARY STRIKE OFF APPLICATION in the matter of **Lansdale Limited** Registration No. 64281 And in the matter of **The Companies Act 1963 - 2006** Lansdale Limited, having its registered office at Hillway, Cashel, Co. Tipperary and having its principal place of business at Hillway, Cashel, Co. Tipperary, having ceased to trade, and having no assets or liabilities, has resolved to notify the Registrar of Companies that the Company is not carrying on business and to request the Registrar in that behalf to exercise his power pursuant to section 511 of the Companies Act 1963 to strike the name of the Company off the register. By Order of the Board. Dated this 11th April 2007. John Farrell Company Secretary.

IN THE MATTER OF THE COMPANIES ACTS 1963 TO 2006 and in the matter of **GUB CONSTRUCTION LIMITED** having its registered office at 112 Dundrum, Co. Dub., having ceased to trade, and having no assets or liabilities, has resolved to notify the Registrar of Companies that the Company is not carrying on business and to request the Registrar in that behalf to exercise his power pursuant to section 511 of the Companies Act 1963 to strike the name of the Company off the register. By Order of the Board. Dated 24th April 2007.

JOHN MITCHELL DEVELOPMENT COMPANY LIMITED having its registered office at Castletown, Cabinteely, Co. Dub., having ceased to trade, and having no assets or liabilities, has resolved to notify the Registrar of Companies that the Company is not carrying on business and to request the Registrar in that behalf to exercise his power pursuant to section 511 of the Companies Act 1963 to strike the name of the Company off the register. By Order of the Board. Dated 24th April 2007.

SPRATT INSURANCES LIMITED having its registered office at 20 Granton Square, Thompson's Co. Michaelford, and having its principal place of business at 20 Granton Square, Thompson's Co. Michaelford, having ceased to trade, and having no assets or liabilities, has resolved to notify the Registrar of Companies that the Company is not carrying on business and to request the Registrar in that behalf to exercise his power pursuant to section 511 of the Companies Act 1963 to strike the name of the Company off the register. By Order of the Board. Dated 24th April 2007.

LEGAL

NOTICE OF APPLICATION TO BE DISSOLVED FROM THE REGISTER OF COMPANIES IRISH SPANISH PROPERTIES LIMITED Irish Spanish Properties Limited having its registered office at Oldstone House, 50 The Quay, Waterford, and having its principal place of business at Marlborough Court, Cork Road, Waterford, having ceased to trade, and having no assets or liabilities, has resolved to notify the Registrar of Companies that the Company is not carrying on business and to request the Registrar in that behalf to exercise his power pursuant to section 511 of the Companies Act 1963 to strike the name of the Company off the register. By Order of the Board. Dated 24th April 2007.

FINAL MEETING IN THE MATTER OF O'CONNOR RESTAURANTS LIMITED and in the matter of **The Companies Act 1963 - 2006** Notice is hereby given pursuant to section 20(3) of the Companies Act 1963 that a General Meeting of the shareholders will be held at 70 Northumberland Road Dublin 4 on 25th May 2007 at 10.00 am. The purpose of having an account and before showing the account in which the company has been disposed of and having its resolutions which may be given by the liquidator and further, pursuant to section 505 of the Companies Act 1963 for the purpose of settling the matters in which the shares, accounts and papers of the company shall be disposed of. Dated this 23rd April 2007. Liquidator

PLANNING

DUBLIN CITY COUNCIL - We, Robert Mc Mahon & Maddy Gormund intend to apply for planning permission for development at 112 Dundrum Road, County, Dublin 4. The development will consist of a total replacement for domestic use with replacement of existing rear extension and two additional floors to match existing dwelling. The planning application may be inspected or purchased at the offices of Dublin City Council and a submission or observation in relation to the application may be made in writing to Dublin City Council on or before the date of receipt by the authority of the application.

DUBLIN CITY COUNCIL - We, Robert Mc Mahon & Maddy Gormund intend to apply for planning permission for development at 94 Francis Street, Dublin 8. The development will consist of a total replacement for domestic use with replacement of existing rear extension and two additional floors to match existing dwelling. The planning application may be inspected or purchased at the offices of Dublin City Council and a submission or observation in relation to the application may be made in writing to Dublin City Council on or before the date of receipt by the authority of the application.

AN BIRD FLEANSALA NOTICE OF PLANNING APPEAL DUBLIN CITY COUNCIL Planning Register Reference Number: 06506 Appeal Reference Number: PL 298 220420. An appeal has been made to An Bord Pleanála against the decision made on the 11th day of October, 2006 by Dublin City Council in respect of the above planning reference number which concerned a grant permission with conditions to Ann Kemple. The Board considers that the development the subject of the appeal should be described as follows: Permitted for development comprising the erection of a new 100 sq. m. 3 bedroom attached house to the side of existing 2 storey detached house to be demolished, with single storey annex at rear, and incorporating partial demolition of ground floor level, other minor alterations to existing house and new vehicular access at 2 Southmead Castle Park, Sandymount, Dublin 4. The application may be inspected or purchased at the offices of Dublin City Council and a submission or observation in relation to the application may be made in writing to Dublin City Council on or before the date of receipt by the authority of the application.

PLANNING

DUBLIN CITY COUNCIL - I, Joseph David Meehan intend to apply for planning permission for development at 112 Dundrum Road, County, Dublin 4. The development will consist of a total replacement for domestic use with replacement of existing rear extension and two additional floors to match existing dwelling. The planning application may be inspected or purchased at the offices of Dublin City Council and a submission or observation in relation to the application may be made in writing to Dublin City Council on or before the date of receipt by the authority of the application.

DUBLIN CITY COUNCIL - I, Joseph David Meehan intend to apply for planning permission for development at 94 Francis Street, Dublin 8. The development will consist of a total replacement for domestic use with replacement of existing rear extension and two additional floors to match existing dwelling. The planning application may be inspected or purchased at the offices of Dublin City Council and a submission or observation in relation to the application may be made in writing to Dublin City Council on or before the date of receipt by the authority of the application.

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DUBLIN CITY COUNCIL - We, Robert Mc Mahon & Maddy Gormund intend to apply for planning permission for development at 94 Francis Street, Dublin 8. The development will consist of a total replacement for domestic use with replacement of existing rear extension and two additional floors to match existing dwelling. The planning application may be inspected or purchased at the offices of Dublin City Council and a submission or observation in relation to the application may be made in writing to Dublin City Council on or before the date of receipt by the authority of the application.

DUBLIN CITY COUNCIL - I, Joseph David Meehan intend to apply for planning permission for development at 112 Dundrum Road, County, Dublin 4. The development will consist of a total replacement for domestic use with replacement of existing rear extension and two additional floors to match existing dwelling. The planning application may be inspected or purchased at the offices of Dublin City Council and a submission or observation in relation to the application may be made in writing to Dublin City Council on or before the date of receipt by the authority of the application.

PLANNING

DUN LAOGHAIRE/RATHDOWN COUNTY COUNCIL - I, Joseph David Meehan intend to apply for planning permission for development at 112 Dundrum Road, County, Dublin 4. The development will consist of a total replacement for domestic use with replacement of existing rear extension and two additional floors to match existing dwelling. The planning application may be inspected or purchased at the offices of Dublin City Council and a submission or observation in relation to the application may be made in writing to Dublin City Council on or before the date of receipt by the authority of the application.

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LEGAL

Non-hazardous - Household, Commercial & Industrial, Compostable and Construction & Demolition waste The recent waste disposal and recovery activities, at sites of the Third and Fourth Sectors of the Waste Management Act 1996 to 2006, and the Waste Management (Licensing) Regulations 2004, (S.I. No. 395 of 2004) to which this application relates are:

Third Schedule - Waste Deposit Activities 12: Re-processing prior to submission to any activity referred to in a preceding paragraph of this Schedule 11: Blending or mixing prior to submission to any activity referred to in a preceding paragraph of this Schedule 13: Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced. Fourth Schedule - Waste Recycling Activities 4: Recycling or reclamation of other organic materials. Other Activities 7: Recycling or reclamation of organic substances, which are not used as fertilizers or soil conditioners and are biological in origin. 8: Recycling or reclamation of metals and metal compounds. 11: Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule 11: 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. A copy of this application for a review of the waste licence and such further information relating to the application, as may be required by the Agency in the course of the Agency's consideration of the application will, as soon as it is practicable after receipt by the Agency, be available for inspection or purchase at the headquarters of the Agency at Jukestown Castle, Co. Wicklow. Karl Knecht

SUCCESS

"There will be more impressive but we will be the Suburban man weather of the Racecourse in Maiden Stake odds of 1-2, 3-2 to have a 3-2."

PUS

Franking is the end of his career as he had to be put in his half-long Golden Plover every chance. Amir Qatani the moon" of his 31st claim Bill Turner's The Style (1) making every five furlongs Lookout Res Claiming Star The pair were neck from Sh Shrumper, switched in 7th stage and sp unucky look. Thee Ron way to go off his first ever folkstone - Apprentice F The 24-year springing a 50-1 shot F Million Bend triple-bred and he got a three-way fit ahead of Da "I didn't th as Briery La fourth, gallo at home," sa "It was his me and I bro sates last y nice, strong



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SITE NOTICE

APPLICATION TO THE ENVIRONMENTAL PROTECTION AGENCY FOR

THE REVIEW OF WASTE LICENCE REG. NO. W0140-02

Nurendale Ltd, trading as Panda Waste Services Ltd, is applying to the Environmental Protection Agency for a review of Waste Licence Reg. No. W0140-02 in respect of its operations in the townland of Rathdrinagh, which is located at National Grid References: E2973 N2689. The aims of the review are to increase the overall annual waste inputs from 165,000 tonnes to 250,000; allow for the acceptance of Waste Electrical and Electronic Equipment; allow for the construction and operation of a new recycling building and skip repair building; allow the hours of operation to be amended with the Agency's agreement, to allow for the installation of a constructed wetland and to change the boundaries of the licensed area. The types of waste accepted at the facility will remain: Non-hazardous - Household, Commercial & Industrial, Compostable and Construction & Demolition waste.

The relevant waste disposal and waste recovery activities, as per the Third and Fourth Schedules of the Waste Management Acts 1996 to 2003, and the Waste Management (Licensing) Regulations 2004, (S.I. No. 395 of 2004) to which this application relates are: -

Third Schedule – Waste Disposal Activities

- 12: 'Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule'.
11: 'Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule'.
13: 'Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced'.

Fourth Schedule – Waste Recovery Activities

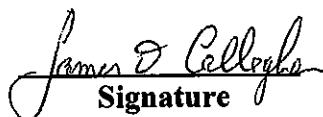
Principal Activity:

- 4: 'Recycling or reclamation of other inorganic materials'.

Other Activities:

- 2: 'Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological processes)'.
3: 'Recycling or reclamation of metals and metal compounds'.
11: 'Use of waste obtained from 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'.

A copy of this application for a review of 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 at Johnstown Castle, County Wexford.


Signature

26.04.07
Date

Planning Department,
Meath County Council,
County Hall,
Navan,
Co. Meath.

25th April 2007

RE: Review of Waste Licence Ref. No. W0140-02

Dear Sir / Madam,

We wish to notify you, on behalf of our client Nurendale Ltd, trading as Panda Waste Services Ltd (PANDA), of our intention to make an application to the Environmental Protection Agency for the Review of the above referenced Waste Licence for its Materials Recovery Facility at Beauparc, Navan, County Meath which is located at National Grid References: E2973 N2689.

The relevant waste disposal and waste recovery activities, as per the Third and Fourth Schedules of the Waste Management Acts 1996 to 2003, and the Waste Management (Licensing) Regulations 2004, (S.I. No. 395 of 2004) to which this application relates are: -

Third Schedule – Waste Disposal Activities

- 12: ‘Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule’.
- 11: ‘Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule’.
- 13: ‘Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced’.

Fourth Schedule – Waste Recovery Activities

Principal Activity:

- 4: ‘Recycling or reclamation of other inorganic materials’.

Other Activities:

- 2: ‘Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological processes)’.



- 3: 'Recycling or reclamation of metals and metal compounds'.
- 11: 'Use of waste obtained from 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'.

A copy of the application for a review of 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 at Johnstown Castle, County Wexford.

Yours sincerely,


Jim O'Callaghan

0613804/JOC/PS

c.c. Mr. David Naughton, Panda Waste Services Ltd.,

2. ARTICLE 12 (1)

The following is provided in compliance with Article 12(1) of the Waste Management (Licensing) Regulations, 2004.

Article 12 (1) (a)

Applicant Details

Nurendale Ltd.,
T/A Panda Waste Services Ltd.,
Rathdrinagh,
Beuparc,
Navan,
Co. Meath.

Telephone No: 046 - 9024111
Fax No. 046 - 9024189

Certificate of Incorporation is included in Appendix 1.

The Corporate address is as above.

The Directors are: -

- Mr. Eamon Waters
- Mr. Noel Waters

Name and Address for Correspondence

Mr. David Naughton,
Panda Waste Services Ltd.,
Rathdrinagh,
Beuparc,
Navan,
Co. Meath.

Telephone No: 046 - 9024111
Fax No. 046 - 9024189

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Article 12 (1)(b)

The relevant planning authority is Meath County Council. An application for planning permission for the construction of the new recycling and skip repair buildings was submitted to the Council in December 2006 (Ref. No. SA/60656).

Article 12 (1)(c)

The facility does not discharge process wastewater to sewer. Condition 3.12 of the existing licence requires process wastewater (floor wash down and vehicle wash) to be directed to a wastewater storage tank, the contents of which are removed off-site to a wastewater treatment plant. It is proposed to direct this discharge to the constructed wetland once it is installed and cease its removal to the wastewater treatment plant. There will be no process wastewater from the new recycling building, as it will handle dry recyclables. Surface water run-off from the extended eastern portion of the site will be directed to the proposed constructed wetland for treatment.

Article 12 (1)(d)

The facility is located in Rathdrinagh, Beauparc, Navan, County Meath. It is in the townland of Rathdrinagh, at National Grid Reference: E2973 N2689 and the location is shown on Drawing No. 1. The site is located on the N2 approximately 4km south of Slane, County Meath. The River Boyne flows in an easterly direction approximately 3km north east of the site. The facility is bound to the west by the N2 Dublin to Monaghan Road and to the north by a third class road, the Knockcommon Road. Surrounding activity is predominantly agriculture, however there are some commercial units adjacent the site to the west. There are nine residential dwellings with 0.5km on the Knockcommon Road and thirteen residences within 0.5km along the N2 and a third class road on the western side of the N2, Senchelstown Road.

Article 12 (1)(e)

The facility is a non hazardous waste materials recycling and transfer operation. Wastes are processed and treated on-site to recover materials suitable for recycling, and to minimise the quantity of treated waste disposed to residual landfill. In addition to expanding the existing activities the facility intends to accept and store Waste Electrical and Electronic Equipment (WEEE). The WEEE will be dismantled to maximise the rates of recovery of each individual component or material type. This will form the first stage of the recycling process and allow the component parts and housings to be shipped directly to the different recycling operations and not to intermediary processing facilities.

It is proposed to construct a new processing building to accommodate the additional waste volumes. There are currently two buildings used for waste handling, as shown on Drawing No. V130_A_11. Building 1 is used for all domestic, commercial and industrial mixed waste and dry recyclables. Source segregated dry recyclables, such as cardboard, plastics etc are compacted and baled and sent for recovery. The mixed waste is mechanically treated using a shredder, magnet and trommel to separate out the organic fraction which is sent to the on-site in-vessel composting system. Non-recyclable residual waste is sent to landfill.

Building 2 is used to segregate the C&D waste using a shredder, trommel, wind blower, magnet, ballistic separator and a picking line to recover ferrous and non ferrous metals, rubble, timber and inorganic fines. Front loading shovels are used to load the shredder, and a grab is used to pick out large pieces of steel etc and load the waste for consignment. Recovered materials are sent off-site for further recycling and recovery, while non recoverable residuals are sent to landfill.

PANDA expects the percentage of dry recyclables in the overall MSW and C&I waste streams to increase significantly in the coming years, due to the roll-out of separate household waste collection services and the introduction of source segregation by individual companies and commercial institutions. PANDA has also identified a number of other waste treatment processes that have the potential to divert further waste from landfill, enhance recycling/recovery rates and assist in meeting national waste recycling targets e.g. acceptance of WEEE and the production of Refuse Derived Fuel (RDF).

It is therefore proposed to construct a new building (Building 3) to the south of the site to process dry recyclables, store WEEE and possibly produce RDF. All the dry recyclables currently handled in Building 1 will be re-directed to Building 3 and Building 1 will be used exclusively for mixed waste from the domestic and commercial & industrial collections.

It is also intended to provide the Dedicated C&D Recovery Area, which is required under Condition 3.13 of the current licence, along the eastern site boundary. A portion of this area extends outside the current licensed area. The revised licence area for the site is shown on Drawing No. V130-A-11. The C&D Recovery Area will, when complete, be provided with an impermeable concrete slab, surface water drains and reinforced concrete walls as required by the Condition. The area will contain the concrete crusher, which is required to process the increased volumes of C&D materials at the location shown on Drawing No V130 A 12. The materials processing section of the crusher will also be enclosed as shown on Drawing No. PW28092006.

A new C&D fines screening system with an aperture of 10mm ('flip-flop') is in operation at the facility and is located internally in Building 2. The flip-flop is used to improve the quality of the C&D fines.

The capacity of the facility plant is detailed on Table 12 (1) e. It is based on the existing waste processing hours and far exceeds the proposed volume of waste that will be handled. Therefore, the existing plant items have the capacity to accommodate the proposed increases in waste inputs and will meet the duty and standby capacity requirements specified in Condition 3.9 of the current licence.

The location of the new processing building and ancillary infrastructure is shown on Drawing No. V130_A_13. The building encompasses 4320m² and has sufficient capacity to handle the proposed additional volumes. The proposed waste processing operations will require the use of a range of fixed and mobile plant. The configuration of the plant and equipment has not been finalised, as this will be the subject of a competitive tendering process. However, an indicative internal layout is shown on Drawing No. V130_A_14. Elevations and Sections are shown on Drawing No. V130_A_16.

The final configuration and details of the individual component parts and emission mitigation measures will be submitted to and approved by the Agency before the processing plant is installed.

Table 12 (1) e Plant Capacity

Qty	Description	Duty Capacity (Tonnes/Hour)	Weekly Capacity (Tonnes)
2	Trommel	100 t/hr	6,050
3	Loading Shovels	50 t/hr	4,125
1	Timber Shredder	25 t/hr	1,375
1	Stone Crusher	145 t/hr	7,975
1	Picking Station	25 t/hr	1,375
1	Shredder	25 t/hr	1,375
2	Excavator	50 t/hr	5,500
1	Baler	25 t/hr	1,375
1	Flip-Flop	50 t/hr	4,125
1	Crusher	50 t/hr	4,125

The skip repair building will be used solely for the repair of damaged skips. It will not have floor drains and will not contain oils or paints. It will contain a welder and work stations. It is not expected that there will be any emissions of environmental significance from the skip repair building. Plans and elevations for the skip repair building are shown on Drawing No. V130-A-18.

Article 12 (1)(f)

It is not proposed to alter the existing Third and Fourth Schedule of the Waste Management Acts 1996 - 2003 activities, which will remain as follows: -

Third Schedule – Waste Disposal Activities

Class 12

“Repackaging prior to submission to any activity referred to in the preceding paragraph of this Schedule”.

Waste at the site is baled and compacted prior to submission to off-site licensed landfills/recovery facilities.

Class 11

“Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule”.

Household and commercial/industrial wastes are mixed prior to submission to off-site licensed landfills.

Class 13

“Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced”.

Wastes are stored prior to submission to off-site licensed landfills.

Fourth Schedule – Waste Recovery Activities

Class 2

“Recycling or reclamation of organic substances which are not used as solvents, (including composting and other biological processes)”.

Recycling of the organic fraction of the Household, Commercial/Industrial waste and Construction & Demolition waste accepted at the facility is carried out. Wood and green waste is shredded, plastics and cardboard are recovered for off site recycling.

Class 3

“Recycling or reclamation of metals and metal compounds”.

Metals and wire, which are recovered from the incoming waste, and aluminium cans delivered to the site separately, are stored on-site pending removal to off-site recycling facilities.

Class 4

“Recycling or reclamation of other inorganic materials”.

Inorganic materials comprising inert C&D waste and glass are recovered from the incoming waste and stored pending removal off-site for recycling. This is the principal waste activity undertaken at the site.

Class 11

“Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule”.

Inert wastes maybe used at the site.

Class 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”.

Wastes are stored prior to submission to off-site permitted/licensed recycling and reclamation facilities.

Article 12 (1)(g)

All of the Household, C&D and Commercial wastes accepted at the facility are currently processed and stored on-site pending transfer off-site for either for recovery, or disposal at appropriately licensed/permited off-site facilities.

It is not proposed to alter the types of waste accepted at the facility from that specified in Condition 1.3.1 and Table A.1 of the current waste licence. WEEE will be accepted as part of the Commercial & Industrial waste stream. The amended Table A1 includes the proposed increases to both the total quantity and the individual categories of wastes.

Table A.1 Waste Categories and Quantities

WASTE TYPE	MAXIMUM (TONNES PER ANNUM) ^(Note 1)
Household	35,000
Commercial & Industrial	75,000
Construction and Demolition	120,000
Compostable	20,000
TOTAL	250,000

Note 1: The quantities of the different categories referred to in this table may be amended with the agreement of the Agency provided that the total quantity of waste specified is not exceeded.

The relevant European Waste Catalogue Codes (EWC) are presented below. Given the mixed nature of the waste processed at the facility it is not possible to provide accurate predictions of the future quantities of waste broken down into individual EWC codes. However, the EWC codes and quantities of the individual wastes will be presented in future AERs.

Proposed EWC Codes List:

15 01 packaging (including separately collected municipal packaging waste)

- 15 01 01 paper and cardboard packaging
- 15 01 02 plastic packaging
- 15 01 03 wooden packaging
- 15 01 04 metallic packaging
- 15 01 05 composite packaging
- 15 01 06 mixed packaging
- 15 01 07 glass packaging
- 15 01 09 textile packaging

16 01 end-of-life vehicles

- 16 01 03 end-of-life tyres
- 16 03 06 end-of-life vehicles, containing neither liquids nor other hazardous components

16 05 gases in pressure containers and discarded chemicals

16 05 05 gases in pressure containers other than those mentioned in 16 05 04

17 04 metals (including their alloys)

17 04 01 copper, bronze, brass
17 04 02 aluminium
17 04 03 lead
17 04 04 zinc
17 04 05 iron and steel
17 04 06 tin
17 04 07 mixed metals

17 01 concrete, bricks, tiles and ceramics

17 01 02 bricks
17 01 07 mixture of concrete, bricks, tiles & ceramics other than those mentioned in 17 01 06

17 02 wood, glass and plastic

17 02 01 wood
17 02 02 glass
17 02 03 plastic

17 05 soil (including excavated soil from contaminated sites), stones and dredging spoil

17 05 04 soil and stones other than those mentioned in 17 05 03

17 06 insulation materials and asbestos-containing construction materials

17 06 04 insulation materials other than those mentioned in 17 06 01 and 17 06 03

17 08 gypsum-based construction material

17 08 02 gypsum-based construction materials other than those mentioned in 17 08 01

17 09 other construction and demolition waste

17 09 04 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03

19 08 wastes from waste water treatment plants not otherwise specified

19 08 01 screenings

19 09 wastes from the preparation of water intended for human consumption or water for industrial use

19 09 02 sludges from water clarification

19 12 wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified

19 12 02 ferrous metal

19 12 09 minerals (for example sand, stones)

19 12 12 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11

20 01 separately collected fractions (except 15 01)

20 01 01 paper and cardboard

20 01 02 glass

20 01 08 biodegradable kitchen canteen wastes

20 01 34 batteries and accumulators other than those mentioned in 20 01 33

20 01 36 discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35

20 01 38 wood other than that mentioned in 20 01 37

20 01 39 plastics

20 01 40 metals

20 02 garden and park wastes (including cemetery waste)

20 02 01 biodegradable waste

20 02 02 soil and stones

20 02 03 other non-biodegradable wastes

20 03 other municipal wastes

20 03 01 mixed municipal waste

20 03 07 bulky waste

20 03 99 municipal wastes not otherwise specified

Article 12 (1)(h)

Details on the fuels and energy that are utilised at the facility are included in Table 12.1 h. The table includes the cost and tonnes of carbon dioxide produced. As the electricity is supplied by Airtricity, 0 tonnes of carbon dioxide are produced. It is envisaged that the increase in waste inputs will result in an increase in fuel and energy usage. However, it is not anticipated that the increase in waste volumes will cause a pro-rata increase in energy usage but the actual usage cannot be determined at this time. The actual increases in usage will be reported to the Agency in future AERs.

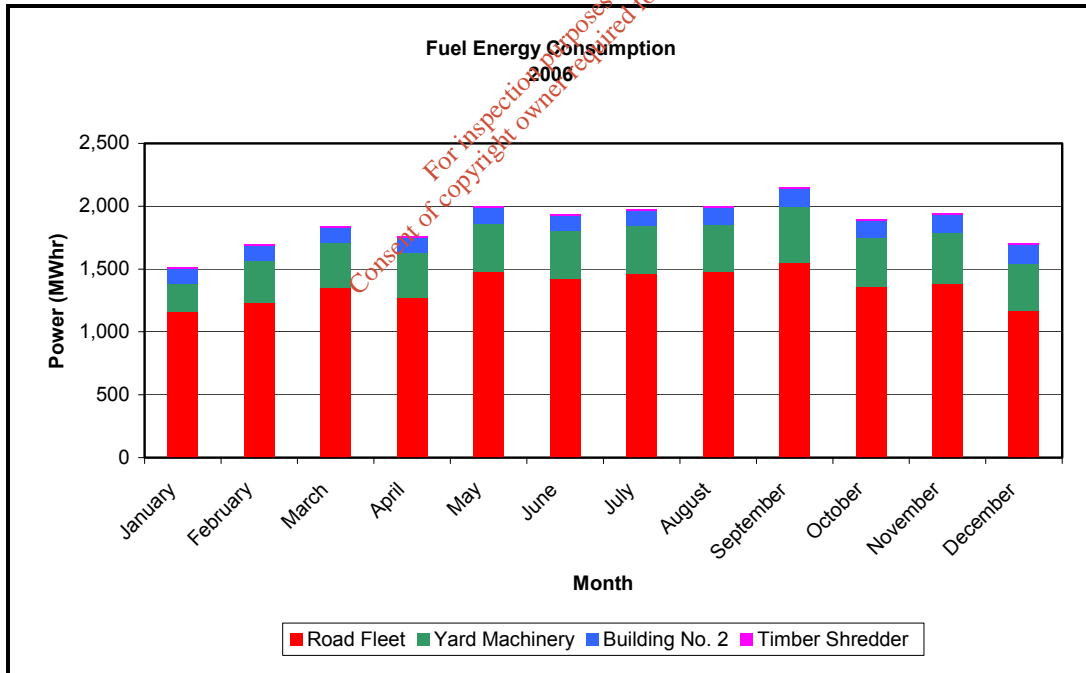
Table 12.1.h – Energy Used 2006

Energy Consumption 2006 Summary					
Energy Type	Consumption (MWhr)	%	Cost	%	tCO2
Diesel	16329	70.32	1,311,628.69	75.90	4082.223
Gas Oil	6109	26.31	300,824.68	17.41	1527.281
Electricity	782	3.37	115,679.73	6.69	0
Total	23220	100.00	1,728,133.10	100.00	5609.504

The composting tunnels are the largest consumer of electricity at the facility, using 35%; followed by lighting at 21%; the trommel and shredder at 20%; the office buildings at 13% and the remaining equipment (power washer, compressor, yard canteen, water pumps, etc.) at 11%.

The Figure below shows the fuel consumption in 2006. The waste collection and transport vehicles are the most significant user followed by the yard machinery. Building 2 consumption includes the fuel used by the concrete crusher and flip flop separator which were commissioned in the fourth quarter of 2006.

Fuel Energy Consumption 2006



PANDA will complete an energy efficiency audit of the facility in 2007 in compliance with Condition 7.1 of the existing licence.

Article 12 (1)(i)

The proposed increases in the waste volumes will not result in any changes to the current plant type, methods, processes, recovery systems and operating procedures that are currently employed or envisaged under the conditions of the current licence conditions, with the exception of the handling and storage of WEEE. The new C&D processing equipment are industry standard waste recovery plant.

All WEEE waste processing and storage activities will be carried out inside the building (Building 3). The WEEE will most likely comprise three main elements: Large Domestic Appliances (LDA) e.g. washing machines, dishwashers and occasional refrigerators, Small Domestic Appliances (SDA) e.g. microwaves, irons and Cathode Ray Tube (CRT) containing equipment (televisions and monitors). It is not intended to carry out complicated processing but large items may be processed to segregate different component parts e.g. printed circuit boards and flexes. The recovered and residual materials will be stored inside the building pending removal off-site for further processing.

The current emission abatement measures, which meet Best Available Technology (BAT) requirements, will continue to be employed and expanded upon as required. These include dust control, fire control, litter control, odour control, traffic control, roads cleaning and vermin control.

The dry recyclables, WEEE and the waste processes that will be carried out in Building 3 are not attractive to birds, vermin or flies and the processing of these wastes will not be a source of nuisance caused by such vectors.

PANDA proposes to install a constructed wet-land to treat the run-off from the open yard areas and trade effluent before it discharges from the site. The constructed wetland is intended to ensure the consistent good quality of the surface water discharge. This type of treatment technology is robust, requires low maintenance and has been successfully introduced at a wide range of commercial and residential developments. The detailed design of the treatment facility will be completed following the receipt of the amended licence. This will be deemed a Specified Engineering Works and the design will be submitted to the Agency for approval before the works commence. The conceptual design is shown on Drawing No. V130-E-001.

Article 12 (1)(j)

Compliance with Paragraphs (a) to (g) of Section 40 (4) of the Waste Management Acts 1996 2003.

Section 40 (4) (a)

Details of the emissions from the proposed extension are described in Section 12(1)k. The emissions will not result in the contravention of any relevant standard or emission limit prescribed under enactment.

Section 40 (4) (b)

The facility operations, when carried out in accordance with licence conditions, will not cause environmental pollution.

Section 40 (4) (c)

The site activities and proposed amendments to the current licence conditions are based on best management practice and take into consideration the BAT Guidance Note for the Waste Sector: Waste Transfer Activities published by the EPA.

Section 40 (4) (d)

A certified Copy of the Certificate of Incorporation of Nurendale Ltd is included in Appendix 1.

The current management structure at the facility is shown in Appendix 2 and was submitted to the Agency as part of the AER 2006. Facility personnel with responsibility for the management of the waste activities comply with the requirements of Condition 2.1 of the current licence.

Nurendale Ltd, trading as Panda Waste Services, has not been convicted of an offence under the Waste Management Acts 1996-2003.

The relevant section of the profit and loss account for the facility for the year ending 2005 is included in Appendix 1.

Financial provision in place to address any environmental liability includes insurance cover to the sum of €6,500,000 for any one occurrence.

Section 40 (4) (f)

Energy will be used efficiently in the carrying on of the activity.

Section 40 (4) (g)

Noise from the activity concerned will comply with and will not result in the contravention of any regulations under Section 106 of the Act of 1992.

Article 12(1)(k)

Particulars of the source location, nature, composition, quantity, level and rate of emissions arising from the activity and the periods during which such emissions are made are presented here.

Actual and potential emissions from facility operations include noise, dust, wastewater, odour and surface water run-off. The current licence (W0140-02) was issued in April 2005. It requires PANDA to carry out monitoring to quantify and assess the impacts associated with emissions from the facility. The details of the emissions and an assessment of the affects, based on the monitoring results, are presented below. All the available monitoring results up to the submission of this application are included below. Any potential new emissions associated with the proposed development of the site and changes to facility operations are also detailed.

Surface Water –

Surface water from the existing facility discharges via silt traps and petrol/oil interceptors to a watercourse running along the southern site boundary. Monitoring of the discharge (SW-1) to the ditch was completed in February 2005 and July 2005. Although not required by the licence, monitoring was also carried out upstream of the discharge (SW2) in order to assess the quality upstream of the facility prior to discharge.

The results are shown in the Tables below.

Surface Water Monitoring Results February 2005

Parameter	Units	SW-1	SW-2	Emission Limit*
BOD	mg/l	<1.5	<1.5	35
Sulphate	mg/l	-	-	100
Ammoniacal Nitrogen	mg/l	0.06	0.08	0.3
Total Suspended Solids	mg/l	6	16	25
Mineral Oils	mg/l	-	-	5
Chloride	mg/l	-	-	100

Emission Limit applies to SW1 only.

Surface Water Monitoring Results July 2005

Parameter	Units	SW-1	SW-2	Emission Limit*
BOD	mg/l	<1.5	<1.5	35
Sulphate	mg/l	19	20	100
Ammoniacal Nitrogen	mg/l	0.69	0.58	0.3
Total Suspended Solids	mg/l	21	46	25
Mineral Oils	mg/l	-	-	5
Chloride	mg/l	43	47	100

* Emission Limit applies to SW1 only.

The monitoring results indicate relatively good quality discharges to the ditch at SW1. A slightly elevated ammoniacal nitrogen was measured in July 2005. The source of the ammoniacal nitrogen was unknown.

The surface water drainage system serving the new extension, including the proposed wetland area, is shown on Drawing No V130-E-001. Surface water run-off from the roof of Building 3 will be collected in an underground storage tank for use on the facility (yard washdowns etc). Surface water from the paved area will be directed to a silt trap and petrol interceptor before discharge to the constructed wetland.

All surface water discharges, with the exception of roof water from Building 3, will be directed to the constructed wetland, which will outfall to the ditch. A revised monitoring location is required to monitor quality at the new discharge point. The new monitoring point will be at the discharge from the wetland to the ditch as shown on Drawing No V130-E-001 and the actual location shown on constructed wetland design drawings, which will be submitted to the Agency as Specified Engineering Works.

Sanitary Wastewater discharges

Sanitary and canteen wastewater discharges to a Biocycle treatment system and percolation area in accordance with Condition 3.11. It is not proposed to install additional welfare or canteen facilities. It is expected that there will be approximately ten extra employees at the facility once it is fully operational. The Biocycle unit has the capacity to handle the additional volume. There are no emission limit values set for the treated effluent from the Biocycle unit. Testing is conducted to ensure that the system is working properly. The monitoring reports, which have submitted to the Agency, indicate that the system is in good working order.

Biocycle Analysis, 23rd Aug 2006

Parameter	Emission (mg/l)
BOD ₅ (mg L ⁻¹)	2
COD (mg L ⁻¹)	20
Ammonia (mg L ⁻¹ as NH ₃ -N)	48
Suspended Solids (mg L ⁻¹)	8

Biocycle Analysis, 5th Dec 2005

Parameter	Emission (mg/l)
BOD ₅ (mg L ⁻¹)	21.3
COD (mg L ⁻¹)	92
Ammonia (mg L ⁻¹ as NH ₃ -N)	0.94
Suspended Solids (mg L ⁻¹)	37.2

Process Wastewater Discharges

Process waste water from floor wash downs in Buildings 1 and 2 and vehicle wash discharges via silt traps to a 13m³ wastewater holding tank, before removal off-site to a waste wastewater treatment plant. The most recent analytical results of the process waste water sent off-site is presented below.

It is proposed to direct the process waste water runoff to the proposed constructed wetland following its installation. It is not proposed to install internal drains and wash down the floor in the new Building 3, as only dry recyclables and WEEE will be handled here.

Results August 2006

Parameter	Units	Result
Ammonia	mg/L as N	170
Arsenic	ug/L	18
BOD	mg/L	2300
Boron	ug/L	350
Cadmium	ug/L	1
Chloride	mg/L	153
Chromium	ug/L	74
COD	mg/L	5060
Copper	ug/L	27
Lead	ug/L	154
Mercury	ug/L	<0.2
Mineral Oil	ug/L	-
Nickel	ug/L	40
pH	pH units	6.5
Selenium	ug/L	2
Solids (Total Suspended)	mg/L	298
Sulphate	mg/L as SO ₄	22
Zinc	ug/L	680

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Results for process wastewater sent off site for disposal 7th February 2006

Parameter	Units	Result
Ammonia	mg/L as N	414
Arsenic	ug/L	91
BOD	mg/L	16500
Boron	ug/L	4527
Cadmium	ug/L	4
Chloride	mg/L	1485
Chromium	ug/L	293
COD	mg/L	35125
Copper	ug/L	154
Lead	ug/L	1225
Mercury	ug/L	0.2
Mineral Oil	ug/L	<1
Nickel	ug/L	964
pH	pH units	5.6
Selenium	ug/L	36
Solids (Total Suspended)	mg/L	788
Sulphate	mg/L as SO ₄	1262
Zinc	ug/L	13740

Results for process wastewater sent off site for disposal 22nd April 2005

Parameter	Units	Result
Ammonia	mg/L as N	2.22
Arsenic	ug/L	3
BOD	mg/L	138
Boron	ug/L	82
Cadmium	ug/L	<0.09
Chloride	mg/L	88
Chromium	ug/L	8
COD	mg/L	400
Copper	ug/L	17
Lead	ug/L	19
Mercury	ug/L	<0.2
Mineral Oil	ug/L	<1

Nickel	ug/L	13
pH	pH units	7.9
Selenium	ug/L	<1
Solids (Total Suspended)	mg/L	30
Sulphate	mg/L as SO ₄	160
Zinc	ug/L	57.6

Results for process wastewater sent off site for disposal 11th October 2005

Parameter	Units	Result
Ammonia	mg/L as N	465.89
Arsenic	ug/L	69
BOD	mg/L	9750
Boron	ug/L	2147
Cadmium	ug/L	3
Chloride	mg/L	569
Chromium	ug/L	216
COD	mg/L	20400
Copper	ug/L	128
Lead	ug/L	402
Mercury	ug/L	3
Mineral Oil	ug/L	<1
Nickel	ug/L	627
pH	pH units	6.4
Selenium	ug/L	12
Solids (Total Suspended)	mg/L	1752
Sulphate	mg/L as SO ₄	262
Zinc	ug/L	9178

Groundwater

There are no direct emissions to groundwater from the facility and groundwater monitoring is not required under the current licence. The proposed changes to site activities will not alter the existing situation in relation to groundwater. The proposed extension area will be concreted as shown on Drawing V130_A_13 and there will be no direct emissions to ground.

Dust

The primary source of dust emissions is vehicle movements over paved areas during dry periods and timber shredding. Dust monitoring is carried out at four (4) locations three (3) times per annum. The results of the monitoring carried out in 2005 and 2006 are presented below.

Sample Location	Dust Deposition (mg/m ² /day)					Dust Deposition (mg/m ² /day)
	July 2006	May-June 2006	January 2006	September 2005	August 2005	Emission Limit
DS 1	105	126	148	127	97	350
DS 2	135	204	84	180	156	350
DS 3	761	1691	609	418	345	350
DS 4	56	95	68	609	*	350

*Dust Gauge Damaged

The results for DS 1 and DS 2 show dust deposition significantly below the emission limit for each of the past five monitoring events. The deposition levels at DS 4 are also significantly below the limit, with the exception of September 2005. DS 4 is located close to the car park serving the facility offices and is closest to the sensitive receptors on Knockcommon Road. The car park was resurfaced in September 2005, which is likely to have caused the elevated level recorded at that time.

The results for DS 3 show consistently elevated levels at this location, with the exception of August 2005. DS 3 is located within the site boundary close to Building 1 on the eastern side of the site. There are no sensitive receptors close to this location and the source of the elevated levels are not easily identifiable. The elevated level in September 2005 was attributed to the on-going construction of the new office block and car park. The elevated level for January 2006 was attributed to windblown materials from the open yard, including from wood chip piles, caused by adverse weather conditions during the month. The elevated levels for May-June and July 2006 were attributed to on-site construction works during these months, including the construction of a new well and pump house adjacent to DS 3. It is proposed to re-locate DS 3. The grounds for the re-location are also described in Section 12(1) m.

Odours

The current licence requires monitoring of the biofiltration system serving the composting unit. The monitoring was carried out in June 2006 by Odour Monitoring Ireland Ltd. The report concluded that ammonia removal was >98%; Volatile Organic Compound removal of 86%, and that bacteria concentrations were within levels proposed by the UK Environment Agency. The biofiltration system was found to be working efficiently and odour has not been an issue at the facility.

Noise

On-site sources of noise include the timber shredding, vehicle movements, and operational plant within the buildings. Noise monitoring is carried out quarterly at four (4) on-site locations and two (2) noise sensitive locations. The limit values for noise at the noise sensitive locations are Daytime 55 dB(A) LAeq(30 minutes) and Night Time 45 dB(A) LAeq(30 minutes).

A summary of the results from the noise surveys carried out from October 2005 – December 2006 are shown on the Tables below. The noise sensitive locations are closest residences along the sites eastern boundary and are labelled N2 (B) and N3 (B). The monitoring shows that the facility is not impacting negatively on the nearest noise sensitive receptors and the ELV was not been exceeded.

Noise Survey December 2006

Location	Date	Time	Leq	L10	L90	Comments
N1	8 th Dec 06	17.25	58.5	61.7	51.6	N2 road traffic – non Panda noise source
N2	8 th Dec 06	17.15	61.1	63.6	56.2	N2 & slip road road traffic. Panda waste in-barely audible below background
N3	8 th Dec 06	16.50	58.9	61.5	57.5	N2 traffic and Panda Waste
N4	8 th Dec 06	17.25	60.8	64.5	54.1	Panda waste and N3 traffic
N2 (B)	8 th Dec 06	16.15	61.6	63.2	55.4	Operation inaudible, road traffic dominant from N2 and slip road
N3 (B)	8 th Dec 06	16.25	54.6	56.8	51.5	N2 road traffic and emission from Panda waste just audible at background level of 51.5 dBA

Noise Survey November 2006

Location	Date	Time	Leq	L10	L90	Comments
N1	18 th Nov 06	11.15	62.6	62.1	51.8	N2 road traffic and traffic entering Panda site – non Panda noise source
N2	18 th Nov 06	10.55	59.6	61.8	53.8	N2 & slip road road traffic. Panda waste in-barely audible at background of 49.5 dBA
N3	18 th Nov 06	11.10	60.3	62.5	56.0	Panda Waste and N2 traffic
N4	18 th Nov 06	10.54	66.7	68.9	60.4	Portable motor outside transfer house and trucks
N2 (B)	18 th Nov 06	11.30	60.4	62.9	52.4	Operation inaudible, road traffic dominant from N2 and slip road
N3 (B)	18 th Nov 06	12.25	55.1	57.3	52.1	N2 road traffic and emission from Panda waste just audible at background level of 50 dBA

Noise Survey May 2006

Location	Date	Time	Leq	L10	L90	Comments
N1	6 th May 06	10.45	53.3	56.7	52.1	N2 road traffic – non Panda noise source
N2	6 th May 06	10.55	52.7	54.8	49.5	N2 & slip road road traffic. Panda waste inaudible at background of 49.5. dBA
N3	6 th May 06	11.30	54.8	56.4	53.1	Panda waste and N3 traffic
N4	6 th May 06	11.45	68.6	69.3	57.6	Portable motor outside transfer house and trucks
N2 (B)	6 th May 06	10.10	52.8	55.2	51.0	Operation inaudible, road traffic dominant from N2 and slip road
N3 (B)	6 th May 06	12.25	52.1	54.3	50.0	N2 road traffic and emission from Panda waste just audible at background level of 50dBA

Noise Survey January 2006

Location	Date	Time	Leq	L10	L90	Comments
N1	4 th Jan' 06	17.05	56.9	59.6	51.3	N2 road traffic – non Panda noise source
N2	4 th Jan' 06	16.30	58.1	60.5	50.9	N2 & slip road road traffic. Panda waste inaudible at background of 50.9. dBA
N3	4 th Jan' 06	16.25	63.9	66.4	62.0	Portable motor outside transfer house
N4	4 th Jan' 06	17.00	65.2	67.8	62.9	Portable motor outside transfer house and trucks
N2 (B)	4 th Jan' 06	17.15	54.7	56.3	52.1	Operation inaudible, road traffic dominant from N2 and slip road
N3 (B)	4 th Jan' 06	17.20	52.6	55.2	51.4	N2 road traffic and emission from Panda waste just audible at background level

The noise emission from the facility are consistently within the limits specified in the licence at both noise sensitive locations.

Article 12 (1)(l)

An assessment of the effects of emissions from the facility resulting from the proposed changes to facility operations and the proposed measures to prevent or eliminate or, where that is not practicable, to limit or abate such emissions, is presented herein.

Surface Water

The proposed changes will have a positive impact on surface water discharges from the facility. It is proposed to install a constructed wetland (reed bed) to treat wash water and surface water run off. The detailed design of the system will be completed following the receipt of the amended licence. This will be deemed a Specified Engineering Works and the design will be submitted to the Agency for approval before the works commence. The new

discharge point from the constructed wetland to the ditch will be determined at the design stage and will replace the existing SW 1 as the new surface water monitoring location.

Reed beds generally consist of a number of ponds filled with wetland plants. Reeds catalyse the breakdown of effluent to give clean unpolluted water which can be released directly into streams. Reed beds bind carbon in the soil and return nitrogen in the waste water to the atmosphere as gas.

It is also proposed to collect the rainwater from the roof of Building 3 and direct it to a 36m³ underground storage tank. This water will be used for yard wash downs etc.

Wastewater

It is not proposed to alter the existing sanitary waste water system. It is not proposed to install new canteen or welfare facilities. It is expected that there will be approximately ten extra employees at the facility once it is fully operational and the Biocycle unit has the capacity to handle the additional volume.

It is proposed to direct the floor wash downs of the Buildings 1 and 2 and the discharge from the vehicle wash to the constructed wetland and cease the removal of this discharge to an off-site waste water treatment plant. It is not proposed to install internal drains and wash down the floor in the new Building 3, as it is proposed to only handle dry recyclables and WEEE here.

It is not proposed to alter the existing monitoring programme relating to the Biocycle treatment system as specified in Schedule C of the existing licence.

Groundwater

There will be no new direct or indirect emissions to ground associated with the review of operations and development of the site. The entire site area will be paved. There will be no negative impacts on groundwater.

Dust

The actual and potential sources of dust include vehicle movements, timber shredding and C&D processing. There are dust suppression systems in Building 1 and 2, which effectively control fugitive emissions from this source. Timber shredding operations have been carried out externally at the facility since 2005. It is intended to enclose the timber shredder in 2007. The proposed enclosure of the shredder is shown on Drawing No PW160307. In the mean time, PANDA has installed water sprinklers on top of the T-shaped pre-fabricated wall where timber shredding activities are carried out. All timber is and will continue to be dampened before being placed in the shredder and shredding is not carried out during very windy days.

Site roads and yard areas are and will continue to be dampened down during dry weather conditions.

Dust emissions from the facility have not historically been an issue, even though timber shredding was carried out externally in 2005 and 2006. Only one compliant has been received in relation to dust since 2005. The mitigation measures described above have effectively controlled dust emissions since that time. Notwithstanding this, it is intended to enclose the timber shredder in order to further mitigate dust emissions from this source. The residual dust impacts at sensitive locations following the review of operations and development of the site is considered imperceptible.

Odours

It is not proposed to alter the existing two in-vessel composting tunnels in operation at the facility. The biofiltration system serving the tunnels is operating efficiently and the proposed change in operations will not change this. It is not proposed to alter the existing monitoring programme for the biofiltration system.

Building 1 will continue to be used exclusively for all domestic and commercial & industrial collections of mixed municipal waste. It is these waste streams which have the potential to be odorous. The control measures which are currently employed at the facility, as specified in Condition 6.13 of the current licence, will continue to be used. These include handling putrescible wastes in covered or enclosed containers and removing putrescible wastes off-site as soon as practical. Floor wash downs in areas used to store and handle putrescible wastes are carried out on a weekly basis. There are rotary atomiser-fogging units at either end of Building 1 and on the doors of Building 1, which are used to spray odour suppression liquid.

The yard foreman is responsible for controlling the odour-suppressing units. This involves controlling the concentration of odour suppressant in order to provide adequate odour control. There is a power washer available to wash odorous bins and disinfectant is used as required. All drivers are responsible for washing their own compactors or skips.

There have been no significant historical odour issues at the facility and the proposed increase in waste volumes will not impact significantly on the odour emissions. It is not proposed to alter the odour monitoring programme specified in Schedule C of the existing licence.

Noise

Noise monitoring has consistently shown that noise levels measured at the nearest noise sensitive locations are below the emission limit specified in the existing licence. The proposed addition of Building 3 will not alter the position of the existing noise sensitive locations, which are close to the facility's north east site boundary.

The closest receptor to Building 3 is a residence approximately 150m to the south. The activities that will be carried out in Building 3 will be similar to the activities currently carried out in Building 2, which have been shown to be not particularly noisy. Indicative plant items proposed for Building 3 are shown on Drawing V130_A_14. Noise attenuation will be provided by the building structure, which will be similar to the existing Buildings 1 and 2. The building will be constructed of precast concrete walls, steel supports and Tegral wall (weighted SRI 39 dBA) and roof cladding (Weighted SRI 27 dBA). The roller doors will afford approximately 20 dBA transmission loss.

The timber shredding area is at the location shown on Drawing V130_A_12. It is situated in the centre of the site away from potential receptors. The nearest sensitive location is approximately 250m to the north, close to the sites northern boundary. The timber shredder was operational externally during the noise monitoring events described in Section 12(1)k and no negative noise impact was noted. Notwithstanding this, it is intended to enclose the timber shredder in order to further mitigate noise emissions from this source.

The existing noise environment at the sensitive receptors is not being affected by existing operations and this is not expected to change. Noise attenuation of the shredder is provided by the existing Building 1 to the north, Building 2 to the south and the composting tunnels to the west. The site is bound by open farmland to the east with the nearest receptors east along Kilcommon road >250m away from the site boundary.

The location of the C&D Recovery area, occupied by the concrete crusher, is shown on Drawing No V130_A_12. The site boundary here is a reinforced concrete wall to the east and north, which will provide effective mitigation of noise from this plant. It is also proposed to enclose this area to further mitigate noise emissions. Further mitigation will be provided by Building 2 to the west and the proposed Building 3 to the south.

The nearest sensitive locations to the concrete crushing plant are the existing sensitive locations to the north, which are approximately 275m away. The wood shredder, which has been operational externally at the facility in 2005 and 2006, is located closer to the sensitive locations and is louder than the concrete processing equipment. There has been no negative impact associated with the wood shredder and it is therefore unlikely that there will be a negative impact from the concrete processing equipment.

Further noise mitigation measures which are employed at the facility include

- A 5mph speed limit is enforced for all vehicles using the facility
- Waste handling plant are throttled down or turned off when not in use
- Roller doors are closed when not in use
- A landscaped earthen berm was placed along the eastern side of the site in 2003 to provide noise attenuation for sensitive locations in agreement with the Agency.

It is proposed to continue monitoring of noise emissions from the facility on a quarterly basis.

Nuisances

Birds can be attracted to waste management facilities where there is available foodstuff. The pre-treated mixed waste MSW and C&I waste will include some residual amounts of foodstuff. All of the putrescible waste processing and storage activities will be carried out internally and all putrescible wastes will be removed from the facility in fully enclosed vehicles. These waste management practices are already effectively employed at the facility and are proven to eliminate bird attraction.

Vermin and insects can potentially be a problem at facilities where putrescible waste is not handled properly. However, this usually arises where waste is either being disposed of (landfill) or being stored for long periods of time. The only waste stream that will contain putrescible materials will be the pre-treated mixed MSW and C&I waste, and in this case the amounts will be very small.

PANDA, as a preventative measure, already retains a pest control contractor to implement vermin control measures at the existing facility. Building 3 will be incorporated into the control programme.

Article 12 (1)(m)

It is proposed to move dust monitoring point DS 3 to a more representative location, as shown on the revised monitoring locations Drawing PWS 002. The current location is considered to be unrepresentative of dust deposition levels at off-site sensitive receptors, as it is situated approximately 30m from the timber shredding and storage area, is beneath an ESB pylon and is very close to Building 1.

The wood chip stockpiles are greater than 1.5m high (approximately 6m) and the timber shredder is approximately 3.5m above ground level. Building 1 (13m high) is located approximately 40m from the gauge.

The Bergerhoff dust measurement method requires that the gauge be located at least ten times as far from an obstacle with impedes airflow as such obstacles rise above the device. Therefore the gauge should be located at least 55-60m from the wood chip stockpile and 110m from Building 1. Exceptions can be made to the Bergerhoff method where ground conditions do not allow the optimum requirements to be met. It is PANDA's intention to move the gauge to the south of the site in order to assess the potential for the off-site deposition of dust at the nearest sensitive receptors, which are located approximately 150m south.

Monitoring location DS 1 assesses dust deposition to the north, DS 2 assesses dust deposition to the east, DS 4 assesses deposition to the north east and DS 3 will assess deposition levels to the south.

The installation of the constructed wetland will require the relocation of SW 1. Details of the position of the discharge point from the constructed wetland to the ditch to the south of the site will be submitted with the final design which will form a Specified Engineering Works. It is not intended to alter the parameters or frequency of analysis.

Article 12 (1)(n)

PANDA operates a source segregation policy to maximise the recovery of potential recyclables from the office waste

Article 12 (1)(o)

The waste activities will not result in any changes to the types or method of off-site treatment or disposal of solid wastes. Following the installation of the constructed wetland the current practice of sending process waste water to an off-site waste water treatment plant will cease and the discharge will be directed to the wetland.

Article 12 (1)(p)

The existing measures, including emergency procedures, to prevent unauthorised or unexpected emissions and minimise the impact on the environment are described in the Environmental Management System (EMS) for the facility submitted to the Agency.

PANDA has prepared an Emergency Response Procedure (ERP) for the facility in compliance with Condition 9 of the current licence. Following an Agency inspection of the facility in June 2006 a revised ERP was submitted to the Agency in June 2006. A copy of the ERP is in Appendix 3.

There are two fuel tanks on-site (fleet and green diesel) which are bunded in accordance with Condition 3.18 of the existing licence. There are spill kits provided at each of the waste processing buildings and additional spill kits will be provided at the proposed Building 3.

The facility is paved and run-off is directed to oil interceptors prior to discharge to stream. It is intended to install a constructed wetland which will treat runoff from the facility.

Article 12 (1)(q)

The proposed amendments to the current licence will not impact on the measures for the closure, remediation and aftercare of the facility, as regulated by Condition 10 of the current licence. In the event of the cessation of activities and an application to surrender the licence the precise scope of the closure and decommissioning plan will be agreed with the Agency.

Article 12 (1)(r)

Not applicable as the activity is not a landfill.

Article 12 (1)(s)

The activity is not an activity to which the European Communities (Major Accident Hazards of Certain Activities) Regulations, 2001 as amended apply.

Article 12 (1)(t)

The activity is not one that gives rise or could give rise to an emission into an aquifer containing List 1 and II substances specified in the Annex to the Council Directive 80/68/EEC of 17 December 1979.

Article 12(l) u

A non-technical summary of the information provided in accordance with paragraphs (a) to (t) of Article 12 (1) is in Section 6 of this application.

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3. ARTICLE 12 (3)(a)

The relevant conditions of the current licence that are the subject of the review and grounds for the application are, as required by Article 12 (3) (a) of the 2004 Regulations, as follows.

Condition 1.3

Condition 1.3 stipulates that only those waste categories and quantities listed in *Schedule A: Waste Acceptance* of the licence shall be accepted at the facility.

PANDA's business development programme has identified a market opportunity to significantly increase the volumes of waste material that can be accepted at the facility for treatment and recycling. To allow Panda to develop this market opportunity, PANDA is seeking to increase the total limit set for all wastes accepted at the facility and the limits set for the individual categories. The revised quantities are shown on Table A.1.

Table A.1 Waste Categories and Quantities –

WASTE TYPE	MAXIMUM (TONNES PER ANNUM) ^(Note 1)
Household waste	35,000
Commercial & Industrial	75,000
Construction and Demolition	120,000
Compostable	20,000
TOTAL	250,000

Note 1: The quantities of the different categories referred to in this table may be amended with the agreement of the Agency provided that the total quantity of waste specified is not exceeded.

Condition 1.4

The hours of waste acceptance and hours of operation are specified in Condition 1.4. It is intended to maintain these hours of acceptance and operation but to change the condition to allow for the hours to be changed subject to the agreement of the Agency. This will give PANDA the flexibility to meet customer needs.

Condition 1.5

PANDA is seeking to amend the licence area to include the proposed extension areas to the south and east to accommodate the new proposed recycling Building 3 and the C&D recovery area. The proposed licence area is shown on Drawing No V130-A-12.

Condition 3.12 and 5.4

It is proposed to direct trade effluent from the facility to a proposed constructed wetland for treatment and cease the transport of this waste to a Waste Water Treatment Plant. The constructed wetland is intended to ensure the consistent good quality of the surface water discharge. This type of treatment technology is robust, requires low maintenance and has been successfully introduced at a wide range of commercial and residential developments. The detailed design of the treatment facility will be completed following the receipt of the amended licence. This will be deemed a Specified Engineering Works and the design will be submitted to the Agency for approval before the works commence.

Schedule B.4

It is intended to re-locate dust monitoring location DS 3 to the south of the site in order to assess the potential off-site deposition close to a sensitive receptor to the south. The current location is considered unsuitable as it is situated approximately 30m from the timber shredding and storage area, is beneath an ESB pylon, too close to Building 1 and is unrepresentative of dust deposition levels at off-site sensitive receptors.

The Bergerhoff dust measurement method requires that the gauge be located at least ten times as far from an obstacle with impedes airflow as such obstacles rise above the device. The wood chip stockpiles are greater than 1.5m high (approximately 7m) and the timber shredder is approximately 4m above ground level. Building 1 (13m high) is located approximately 40m from the gauge. The Bergerhoff method requires the gauge to be located at least 55-60m from the wood chip stockpile and 110m from Building 1. It is Pandas intention to move the gauge to the south of the site in order to assess the potential for the off-site deposition of dust close to sensitive receptors located approximately 150m south.

4. ARTICLE 12 (4)

Article 12 (4)(a)

A copy of the relevant page of the newspaper in which the notice in accordance with Article 6 has been published is included in Section 1 of this application.

Article 12 (4)(b)

A copy of the text of the notice erected in accordance with Article 7 is included in Section 1 of this application.

Article 12(4)(c)

A copy of the notice given to the planning authority is included in Section 1 of this application.

Article 12(4)(d)

The position of the notice in accordance with Article 7, is show on. Drawing No V130 A 11. Drawings showing the points at which monitoring and sampling are undertaken are shown on Drawing No. PWS/002.

Article 12(4)(e)

The fee for the review of the waste licence, €16,000, as specified in Article 41(3) and the Second Schedule of the Waste Management (Licensing) Regulations 2004, is enclosed. The fee includes for: -

- The disposal of waste (other than hazardous waste) at a facility (other than a landfill facility) where the annual intake is likely to exceed 25,000 tonnes but be less than 100,000 tonnes.
- The Recovery of Waste

5. ARTICLE 13 (1)

An EIS is not required for this application.

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6. NON TECHNICAL SUMMARY

Introduction

Nurendale Ltd, trading as Panda Waste Services Ltd (PANDA) is applying to the Environmental Protection Agency (Agency) for a review of the Waste Licence for its Materials Recycling Facility at Beuparc, Navan, Co Meath (Reg. No. W0140-02). The objectives of the review are: -

- To increase the overall limit set for annual waste inputs from the 165,000 tonnes specified in Condition 1.3 and Schedule A of the licence to 250,000 tonnes and to increase the individual limits for the Household, Commercial & Industrial, Compostable and Construction and Demolition (C&D) waste.
- To allow for the acceptance of Waste Electrical and Electronic Equipment (WEEE).
- To allow for the construction and operation of a new recycling building to the south of the site to accommodate the proposed changes and the construction and operation of a skip repair building.
- To change the licence area in order to accommodate the additional recycling building to the south and additional recycling plant along portion of the eastern boundary.
- To amend Condition 1.6 to allow the hours of operation to be amended with the Agency's agreement.
- To allow for the installation of a constructed wetland to treat surface water runoff from the facility

Nature of the Facility

The facility is non hazardous waste materials recovery and the transfer operation. Waste materials are processed and treated on site to recover wastes that are suitable for recovery and to minimise the quantity of treated waste disposed to residual landfill. In addition to expanding the existing activities the facility intends to accept and store Waste Electrical and Electronic Equipment (WEEE). WEEE will be dismantled to maximise the rates of recovery of each individual component or material type. This will form the first stage of the recycling process and allows the component parts and housings to be shipped directly to the different recycling operations and not to intermediary processing facilities.

There are currently two buildings used for waste processing. It is proposed to construct a new processing building to accommodate the additional waste volumes. The new building will be used to process dry recyclables and WEEE and to produce a Refuse Derived Fuel from the dry recyclables waste stream. It is also intended to operate a new flip-flop (C&D fines

sieving machine) internally in Building 2 and an enclosed concrete crushing machine which will be located on portion of the eastern boundary of the site not previously covered by the licence. The flip-flop is used to improve the quality of the C&D fines produced at the facility. The concrete crushing machine allows for the processing of the proposed increased volumes of C&D materials. The area of the site not previously covered by the licence will form the Construction & Demolition Recovery Area as outlined in Condition 3.13 of the existing licence

Classes of Activity

It is not proposed to alter the existing activities as per the Third and Fourth Schedules of the Waste Management Acts 1996 – 2003 which will remain as follows: -

Third Schedule – Waste Disposal Activities

Class 12

“Repackaging prior to submission to any activity referred to in the preceding paragraph of this Schedule”.

Class 11

“Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule”.

Class 13

“Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced”.

Fourth Schedule – Waste Recovery Activities

Class 2

“Recycling or reclamation of organic substances which are not used as solvents, (including composting and other biological processes)”.

Class 3

“Recycling or reclamation of metals and metal compounds”.

Class 4

“Recycling or reclamation of other inorganic materials”.(p)

Class 11

“Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule”.

Class 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”.

Quantity and Nature of the Waste to be Recovered or Disposed

The quantity and nature of the wastes are presented in Table 1.

Table 1 Waste Categories and Quantities –

WASTE TYPE	MAXIMUM (TONNES PER ANNUM) ^(Note 1)
Household waste	35,000
Commercial & Industrial	75,000
Construction and Demolition	120,000
Compostable	20,000
TOTAL	250,000

Note 1: The quantities of the different categories referred to in this table may be amended with the agreement of the Agency provided that the total quantity of waste specified is not exceeded.

Raw and Ancillary Materials, Substances, Preparations used on the Site

Details on the raw and ancillary materials, substances, preparations, fuels and energy that are utilised at the facility are included in the Annual Environmental Report (AER) for 2006 submitted to the Agency. It is not expected that the energy and materials used at the facility will increase prorate with the increase in waste volumes but the actual figures will be reported to the Agency in future AERs.

Plant, Methods, Processes and Operating Procedures

The proposed increases in the waste volumes accepted for processing will not result in any changes to the current plant type, methods, processes, recovery systems and operating procedures that are currently employed or envisaged under the conditions of the current licence conditions, with the exception of the handling and storage of WEEE. All WEEE waste processing and storage activities will be carried out inside the proposed new building which has an impermeable floor. The dry recyclables, WEEE and the waste processes that will be carried out in the new building are not attractive to birds, vermin or flies and the processing of these wastes will not be a source of nuisance caused by such vectors. The C&D processing equipment are standard waste recovery items.

Information Related to paragraphs (a) to (g) of Section 40 (4) of the Waste Management Acts 1996 2003.

The actual and potential emissions from the facility, which include noise, dust, odour, surface water run-off will not result in the contravention of any relevant standard or emission limit prescribed under enactment. Process wastewater is not discharged from the facility, but is removed off-site in road tankers and treated in an off-site wastewater treatment plant. It is intended to direct process waste water to a new constructed wetland proposed for the facility.

The site activities take into consideration the Best Available Technique (BAT) Guidance Note for the Waste Sector: Waste Transfer Activities published by the EPA. The facility operations, when carried out in accordance with licence conditions, will not cause environmental pollution.

It is not proposed to amend the current management structure at the facility which was submitted to the Agency as part of the AER 2006. Nurendale Ltd, Trading as Panda Waste Services has not been convicted of an offence under the Waste Management Acts 1996-2003.

Source, Location Nature, Composition, Quantity, Level and Rate of Emissions

Surface Water –

Surface water from the existing facility discharges via silt traps and petrol/oil interceptors to a ditch running along the southern boundary of the site in accordance with the existing licence. The monitoring results for 2005 and 2006 indicate relatively good quality discharges to the ditch.

Surface water run-off from the roof of Building 3 will be collected in an underground storage tank for use on the facility (yard washdowns etc). Surface water from the paved area will discharge to a silt trap and petrol interceptor before discharge to a proposed new constructed wetland.

Sanitary Wastewater discharges

Sanitary and canteen wastewater discharges to a Biocycle treatment system and percolation area in accordance with Condition 3.11 of the current licence. It is not proposed to install any new welfare or canteen facilities at the site. The proposed review of operations may add approximately ten additional employees to the facility. The biocycle unit has the capacity to handle the additional volumes.

Process Wastewater discharges

Process waste water from floor wash downs in Buildings 1 and 2 and vehicle wash discharges via silt traps to a waste water holding tank prior to removal off-site to a waste wastewater treatment plant. It is proposed to cease the removal of waste water to the waste water treatment plant following the installation of the constructed wetland and instead direct the discharge to the wetland for treatment.

Groundwater

There are no direct emissions to ground from the facility as set out in Condition 5.5 of the current licence and groundwater monitoring is not required. The proposed review of operations and development of the site will not alter the existing situation in relation to groundwater.

Dust

The primary source of existing dust emissions is vehicle movements over paved areas and timber shredding during dry periods. The timber shredder was operated externally during 2005 and 2006. It is proposed to enclose the timber shredder in 2007. Dust monitoring has shown the site to be generally compliant with the deposition limit set in the licence with the exception of one location D3. This gauge is however located in an inappropriate location and it is proposed to move the gauge to a more representative location.

Odours

The licence requires monitoring of the biofiltration system serving the composting unit. The monitoring was carried out in June 2006 by Odour Monitoring Ireland Ltd. The report concluded that ammonia removal was >98%, VOC removal of 86% and that bacteria concentrations were within levels proposed by the Environment Agency. The biofiltration system was found to be working efficiently and odour has not been an issue at the facility.

Noise

On-site sources of noise include the timber shredding, vehicle movements, and operational plant within the buildings. The noise monitoring for 2005 and 2006 shows that the facility is not impacting negatively on the nearest noise sensitive receptors and the Emission Limit Value set in the licence has not been exceeded due to Pandas operations which have included the external shredding of timber. It is nevertheless intended to enclose the timber shredder in 2007.

Assessment of the Effects of Emissions on the Environment

Surface Water

The proposed development of the site will have a positive impact on surface water discharges from the facility. It is proposed to install a constructed wetland such as a reed bed to treat surface water run off from the facility. The detailed design of the treatment facility will be completed following the receipt of the amended licence. This will be deemed a Specified Engineering Works and the design will be submitted to the Agency for approval before the works commence.

Wastewater discharges

It is not proposed to alter the existing sanitary waste water system. It is not proposed to install new canteen or welfare facilities. It is expected that approximately ten additional employees will be based at the facility following the construction of Building 3. The existing treatment system has the capacity to handle the increased volumes. It is not intended to alter the existing waste water monitoring programme.

Groundwater

There will be no direct or indirect emissions to ground associated with the review of operations and development of the site. The entire site area will be paved. There will be no negative impacts on groundwater.

Dust

The actual and potential sources of dust include vehicle movements, timber shredding and C&D processing. There are dust suppression systems in Building 1 and 2 which effectively control fugitive emissions from this source. Timber shredding operations have been carried out externally at the facility since 2005. It is intended to enclose the timber shredder in 2007. In addition to this all timber is and will continue to be dampened before being placed in the shredder and timber processing activities are not carried out during very windy days. Site roads and yard areas are and will continue to be dampened down during dry weather conditions.

Dust emissions from the facility have not historically been an issue and there was only one complaint in relation to dust back in 2005. The mitigation measures described above have effectively controlled dust emissions since that time. The residual dust impacts at sensitive locations following the review of operations and development of the site is considered imperceptible.

Odours

It is not proposed to alter the existing two in-vessel composting tunnels in operation at the facility. The biofiltration system serving the tunnels is operating efficiently and the proposed review of operations will not change this.

Building 1 will continue to be used exclusively for all domestic and commercial & industrial collections of mixed municipal waste. It is these waste streams which have the potential to be odorous. The control measures which are currently employed at the facility as specified in Condition 6.13 of the existing licence will continue to be used.

There have been no significant historical odour issues associated with the facility. The proposed increase in waste volumes will not impact significantly on the potential for odour emissions from the facility.

Noise

Noise monitoring at the facility has consistently shown noise emissions measured at the nearest noise sensitive locations below the emission limit specified in the existing licence.

The proposed addition of Building 3 will not change the existing noise sensitive locations which are close to the facilities site boundary to the north east. The closest receptor to Building 3 is a residence approximately 150m to the south. The activities which will be carried out in Building 3 will be similar to the activities currently carried out in Building 2 which have been shown to be not particularly noisy.

The timber shredder was operational externally during the noise monitoring events in 2005 and 2006 and no negative noise impact was noted due to its operation. It is nevertheless intended to enclose the timber shredder in 2007. The nearest sensitive location is approximately 250m to the north close to the sites northern boundary. The existing noise environment at the sensitive receptors is not being affected by existing operations and this is not expected to change.

It is proposed to enclose the concrete crusher at the site and located the Flip Flop inside Building 2. The concrete crusher is bound to the east and north by a reinforced concrete wall, by Building 2 to the west and the proposed Building 3 to the south which will provide further mitigation of potential noise impacts from this source. The nearest sensitive location to the concrete crusher is the existing sensitive locations to the north which are approximately 275m away

Nuisances

Birds can be attracted to waste management facilities where there is available foodstuff. The pre-treated mixed waste MSW and C&I waste will include some residual amounts of foodstuff. All of the putrescible waste processing and storage activities will be carried out internally and all putrescible wastes will be removed from the facility in fully enclosed vehicles. These waste management practices are already effectively employed at the facility and are proven to eliminate bird attraction.

Monitoring and Sampling Points

It is proposed to move the location of DS 3 to a more representative location. The current location is considered unsuitable as it is situated approximately 30m from the timber shredding and storage area, is beneath an ESB pylon, too close to Building 1 and is unrepresentative of dust deposition levels at off-site sensitive receptors.

The installation of the constructed wetland will require the relocation of SW 1. The final discharge from the constructed wetland to the ditch to the south of the site will be submitted with the final design which will form a Specified Engineering Works.

Prevention and Recovery of Waste

Panda operate a source segregation policy to maximise the recovery of potential recyclable from the office waste

Off-site Treatment or Disposal of Solid or Liquid Wastes

The waste activities will not result in any changes to the types or method of treatment or disposal of solid and liquid wastes.

Emergency Procedures to Prevent Unexpected Emissions

The existing measures, including emergency procedures, to prevent unauthorised or unexpected emissions and minimise the impact on the environment are described in the AER for the facility and are included in the Environmental Management System for the facility Panda has prepared an Emergency Response Procedures for the facility in compliance with Condition 9 of the current licence.

Closure, Restoration and Aftercare of the Site

The proposed amendments to the current licence will not impact on the agreed measures for the closure, remediation and aftercare of the facility.

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APPENDIX 1

Applicant Company Details

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Companies Registration Office

An Oifig um Chlárú Cuideachtaí

Short Certificate of Incorporation of a Company (Electronic Form, for Public Service Use only)

I hereby certify

that company number 115425,

NURENDALE LIMITED,

was incorporated under the Companies Acts, 1963 to 1983,

as a Limited Company on

Friday, the 11th day of July, 1986.

Certified by me at Dublin, this **Monday, the 19th day of January, 2004.**

(8F797A)

Registrar of Companies

Paul Farrell

Companies Act 1963, section 370(1); Electronic Commerce Act 2000, sections 12 and 13

Note

The above certificate of incorporation is furnished free of charge by the registrar of companies and is valid solely for public service use. A process has been put in place whereby, where necessary, the certificate may be verified by a public service body on inquiry to the registrar.

The applicant for any public service who is required to produce a certificate of incorporation must certify below that the certificate has not been tampered with in any way. The certificate shall be retained by the public service organisation that requires its delivery and may be used as evidence of any wrongful use.

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(name) **EAMON WATERS**

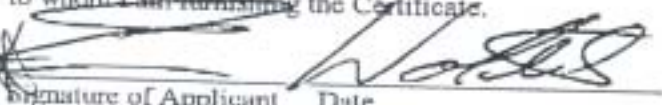
of (address) **KATHURINNAUGH, BEAUFAC, NEWCASTLE, CO. MERRY**

hereby declare that this is one and the same as the Certificate of Incorporation of the above company that was made available electronically, for public service use, at my request, by the registrar of companies. I further declare that to the best of my knowledge, information and belief, the said Certificate has not been altered or amended in any way. I acknowledge that it is a criminal offence to forge a public document with intent to defraud or deceive, and that it is an offence to utter a forged document with intent to defraud or deceive, in each case punishable with imprisonment for a term not exceeding two years.

I make this Declaration for the benefit of

(name of public body) _____

to whom I am furnishing the Certificate.

Signature of Applicant  Date _____

NURENDALE LIMITED
DETAILED PROFIT AND LOSS ACCOUNT
FOR THE YEAR ENDED 31ST DECEMBER 2005

	2005		2004
	€	€	€
TURNOVER		26,051,419	15,483,889
COST OF SALES			
Materials	245,558		557,222
Dump Charges	11,727,693		5,611,805
Direct wages	3,207,660		2,028,018
Directors salaries	35,691		27,765
Contract Work	95,037		11,492
Repairs & Renewals	1,113,940		816,147
Motor & Travel & Subsistence	531,835		349,116
Diesel & Fuel Oil	1,591,854		1,025,948
Haulage	58,482		138,902
Licensing and Permits	39,704		46,668
Discount allowed	27,363		-
Wheelie Bin Tags	17,133		-
Hire of plant and machinery	62,799		40,991
		<u>18,754,749</u>	<u>10,654,074</u>
GROSS PROFIT		7,296,670	4,829,815
OVERHEADS			
Administrative expenses		4,316,767	2,290,388
OPERATING PROFIT		2,979,903	2,539,427
Profit on disposal of fixed assets		4,621	-
		<u>2,984,524</u>	<u>2,539,427</u>
Bank interest receivable		14,463	3,555
		<u>2,998,987</u>	<u>2,542,982</u>
Interest payable		(283,050)	(166,075)
PROFIT ON ORDINARY ACTIVITIES		<u>2,715,937</u>	<u>2,376,907</u>

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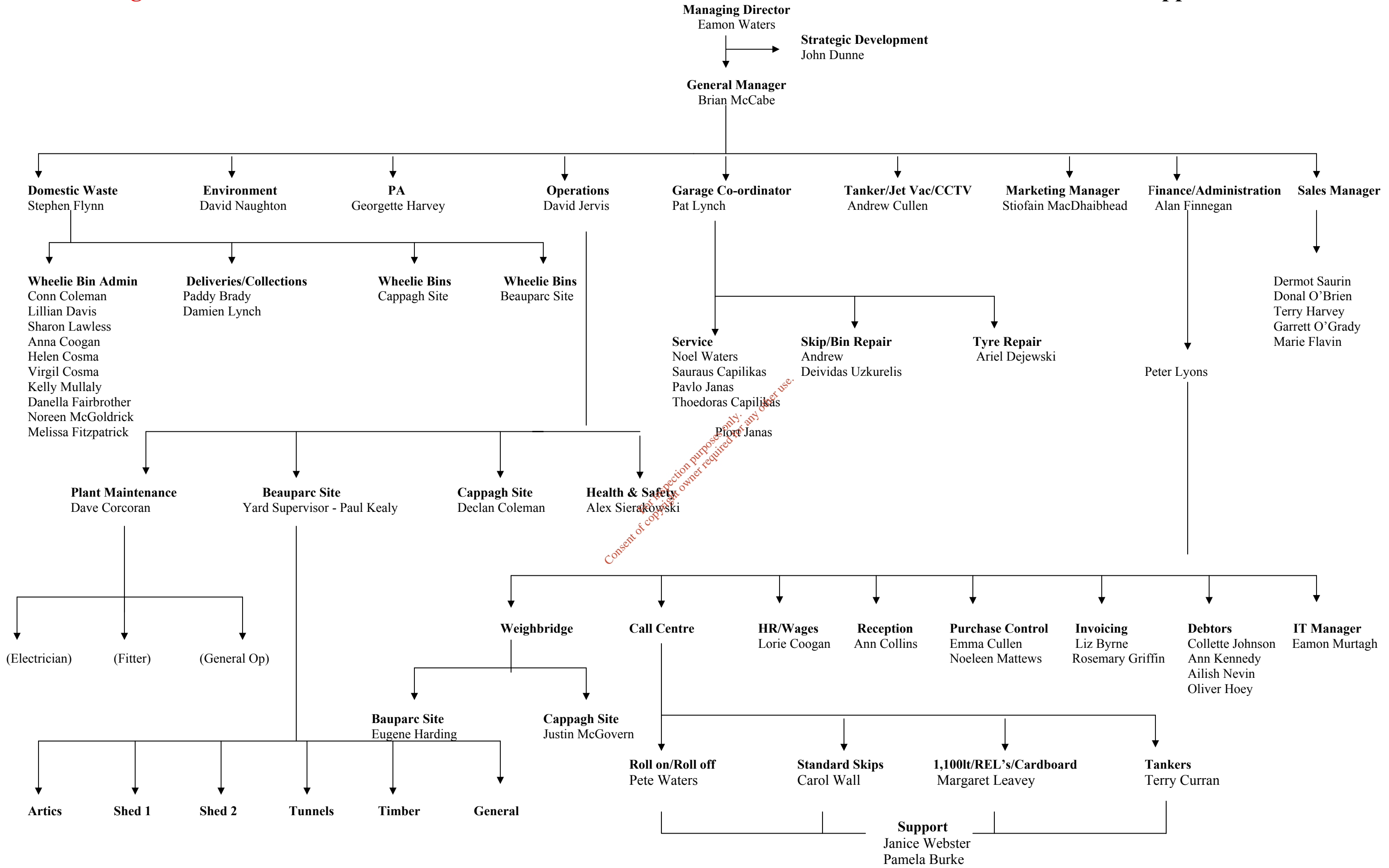
APPENDIX 2

Management Structure

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Management Team

Appendix B



APPENDIX 3

Emergency Response Procedure

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Master copy (in red)	PANDA WASTE SERVICES	SOP No.:01-008C-EMP	
		Revision:	1
		Page:	2 of 3
		Issued:	14 Mar 07
		By:	DN
Title:		Emergency Response Procedure for Beauparc	

4.0 Procedure

4.1 *Waste spill*

1. If it is a liquid spillage use the spill kit provided to contain the spill if it is safe to do so.
2. Contact Panda Waste Services offices (Ph. No. 1850 65 65 65), with details of the spill including estimated quantity of waste
3. Clean-up will be arranged at the company offices. All relevant authorities will be notified from the company offices.
4. Do not leave the area until the supervisor has arrived.

4.2 *Fire/explosion*

1. Contact the fire services.
2. Contact Panda Waste Services offices (Ph. No. 1850 65 65 65). The office will arrange for a supervisor to go to the site immediately.
3. Use appropriate fire extinguisher if it is safe to do so.
4. Do not leave the area until PWS supervisor has arrived.

4.3 *Anything that might result in environmental pollution*

If it is suspected that environmental pollution is being caused as a result of waste transportation

1. Stop what is being done immediately and
2. Notify the environmental Officer at Panda Waste Services (Ph. No. 1850 65 65 65).
3. The environmental officer will notify the relevant regulatory authorities if necessary.

Master copy (in red)	PANDA WASTE SERVICES	SOP No.:01-008C-EMP	
		Revision:	1
		Page:	3 of 3
		Issued:	14 Mar 07
		By:	DN
Title: Emergency Response Procedure for Beauparc			

5.0 Useful numbers

Brian M ^c Cabe (Panda Waste Services)	087-9978422
Peter Waters (Panda Waste Services)	086-8386979
Andrew Cullen (Panda Waste Services)	086-2676500
Cork County Council	021-4532700
Meath County Council	046-9021581
Dublin City Council	01-2224300
Kildare County Council	045-873800
EPA	053-9160600
EPA Dublin	01 2680100
Central Fisheries Board	01-8842600
<i>Emergency Services</i>	999

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 Granary House, Rutland Street,
 Cork Ireland.
 Tel. (021) 4321521 Fax. (021) 4321522
 email : info@ocallaghanmoran.com

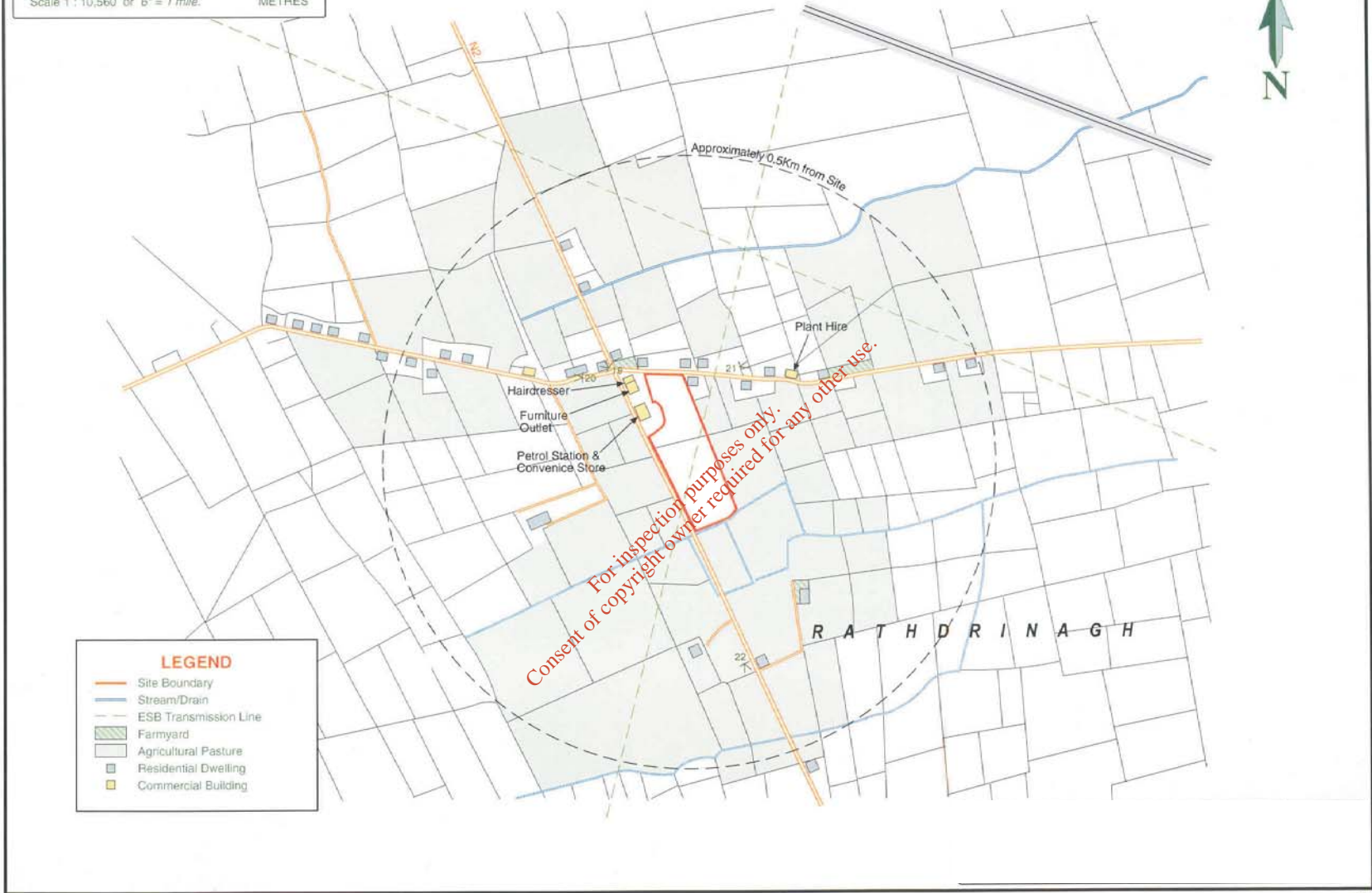
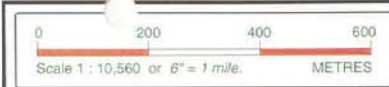
CLIENT
 Panda Waste Services Ltd.

TITLE
 Site Location
 Map

Details
 O.S. Licence Agreement
 Number AR 0038707
 Ordnance Survey Ireland.
 Government of Ireland.

Drawing No.
 1
 Scale
 1:50,000

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LEGEND	
	Site Boundary
	Stream/Drain
	ESB Transmission Line
	Farmyard
	Agricultural Pasture
	Residential Dwelling
	Commercial Building



O' Callaghan Moran & Associates.
 Granary House, Rutland Street,
 Cork Ireland.
 Tel. (021) 4321521 Fax. (021) 4321522
 email : ocm@indigo.ie

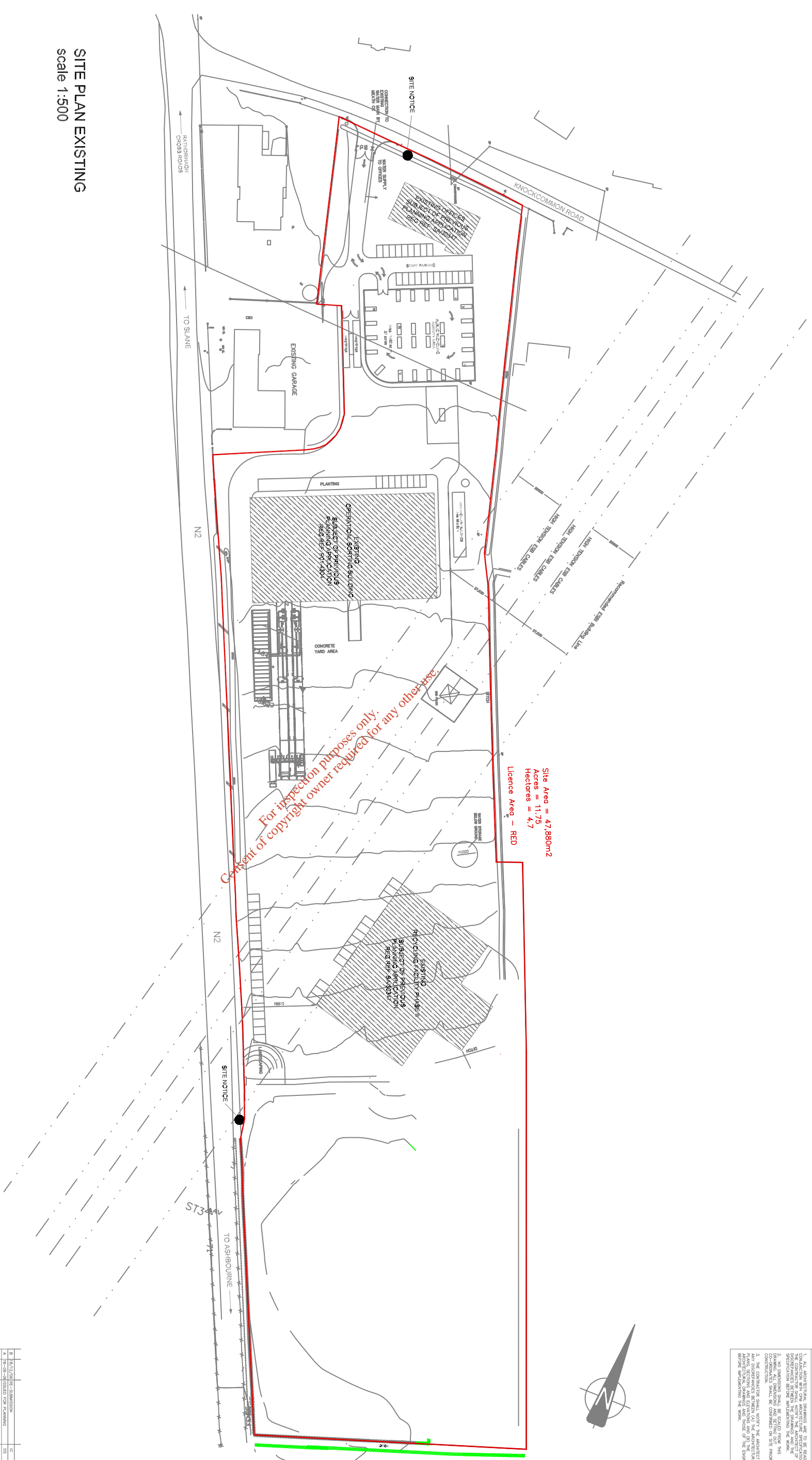
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CLIENT	PANDA Waste Services Ltd
TITLE	Surrounding Landuse

Details	O.S. Licence Agreement number AR 0038707
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DRAWING NUMBER		2
Scale	NS	Revision
		A

GENERAL NOTES:
 1. ALL ARCHITECTURAL DRAWINGS ARE TO BE MADE IN ACCORDANCE WITH THE ARCHITECTURE ACT 1965 AND THE ARCHITECTURE REGULATIONS 1977. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION PROVIDED TO HIM BY THE CLIENT OR ANY OTHER SOURCE.
 2. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.
 3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCY BETWEEN (A) THE ARCHITECT'S ARCHITECTURAL DRAWINGS AND (B) THE ARCHITECT'S ARCHITECTURAL DRAWINGS AND THOSE OF THE ENGINEER'S ARCHITECTURAL DRAWINGS AND THOSE OF THE ENGINEER'S ARCHITECTURAL DRAWINGS.



Site Area = 47,880m²
 Acres = 11.75
 Hectares = 4.7
 Licence Area - RED

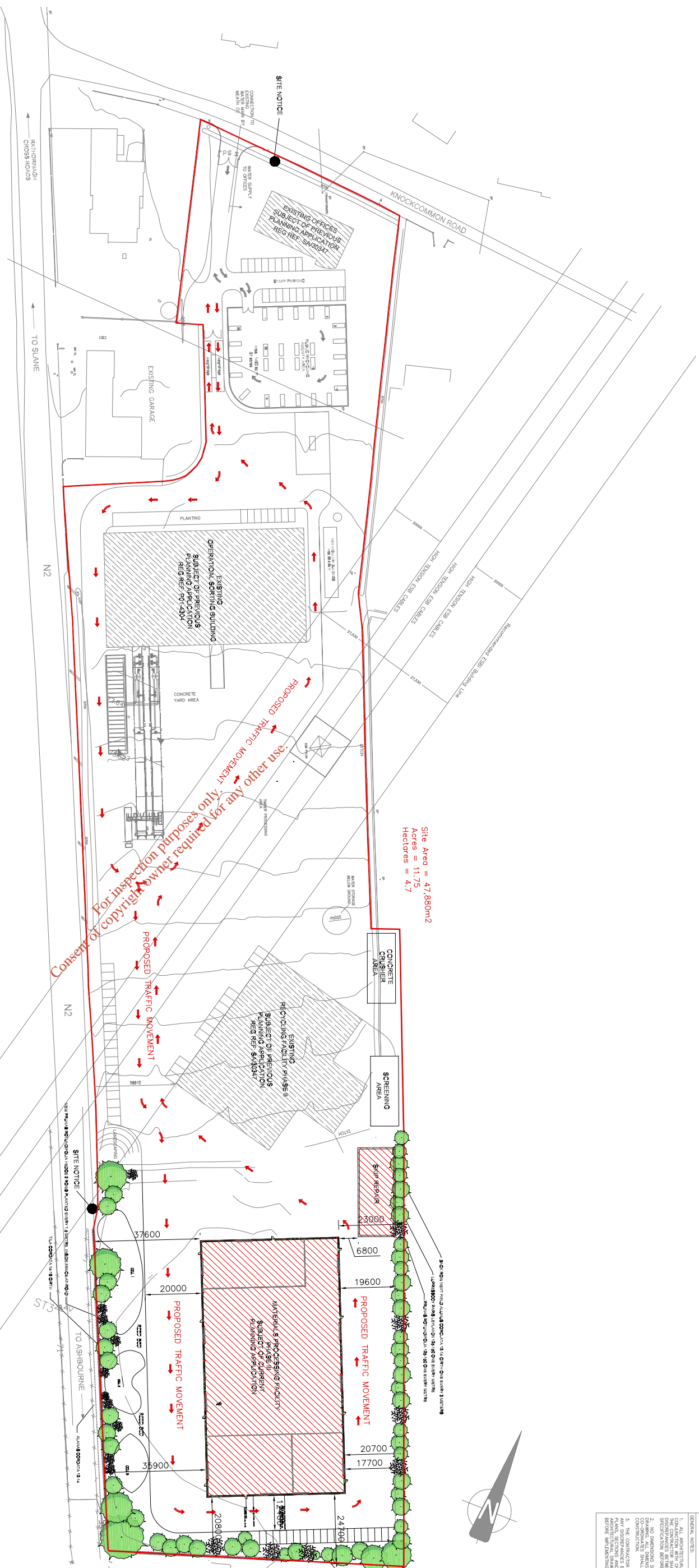
SITE PLAN EXISTING
 scale 1:500

client:	Ponda Waste
site description:	PHASE III Recycling Facility
drawing title:	Site Plan-Existing
drawn by:	OS
checked by:	OS
date:	06/04/06
scale:	1:500 (A3)
title block no:	V130_A_11
revision:	B

CPM ARCHITECTURE
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GENERAL NOTES:

1. ALL ARCHITECTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECT'S SPECIFICATIONS AND CONDITIONS OF CONTRACT. THE DRAWING AND THE SPECIFICATIONS SHALL BE KEPT TOGETHER AND SHALL BE CONSIDERED AS ONE ENTIRE AGREEMENT.
2. NO DIMENSIONS SHALL BE SCALED FROM THIS DRAWING. ALL DIMENSIONS SHALL BE GIVEN ON THE DRAWING.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS IN THE DRAWING, SPECIFICATIONS AND CONDITIONS OF CONTRACT BEFORE PROCEEDING WITH THE WORK.



SITE PLAN PROPOSED
scale 1:200

NO	DATE	SCALE	BY
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Client: Pando Waste

Project: PHASE III Recycling Facility

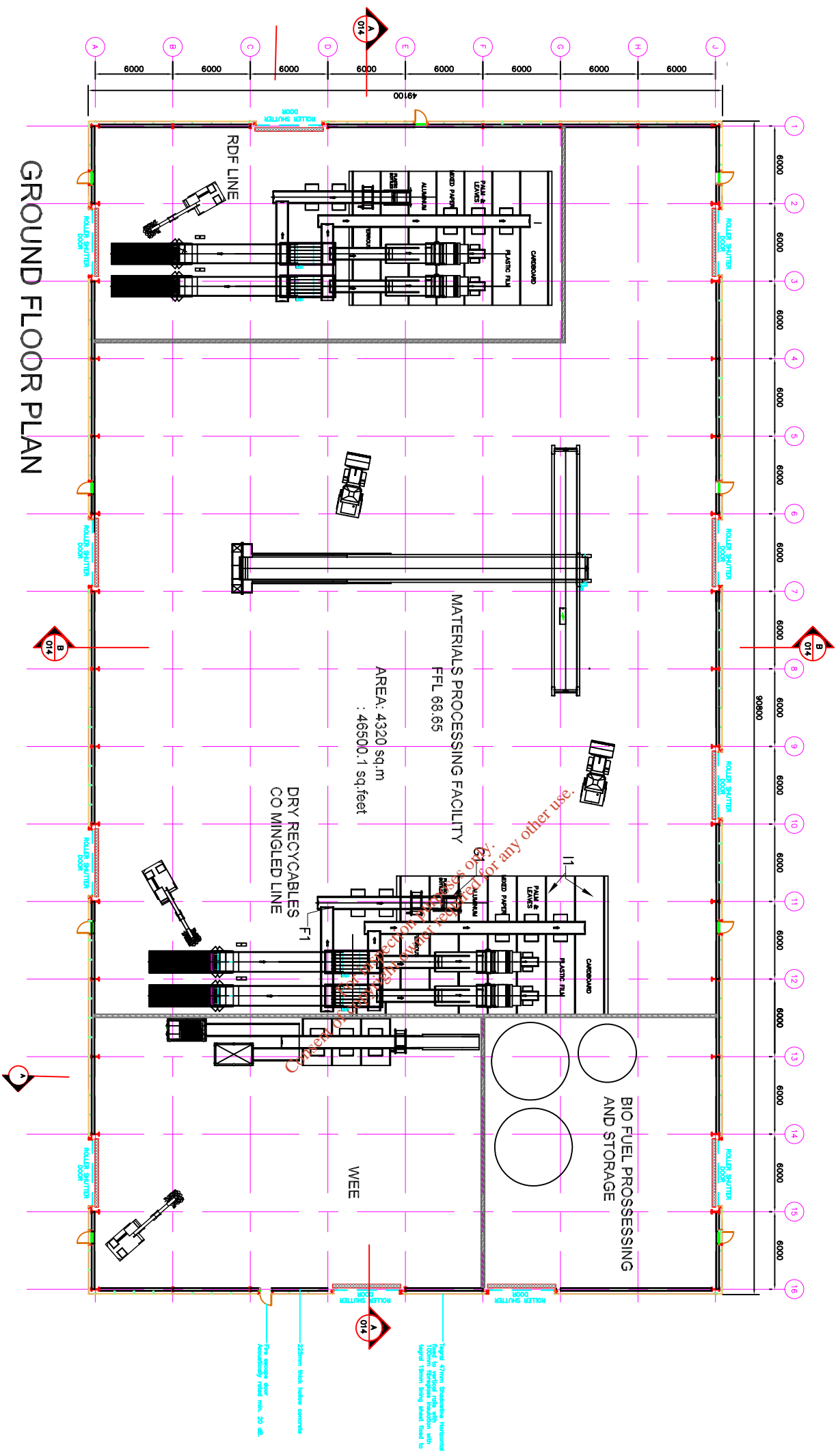
Site Plan - Proposed

CPM Architecture

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Fax: +353 1 454 4445
Email: info@cpmarchitect.com
www.cpmarchitect.com

GENERAL NOTES:

1. ALL ARCHITECTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE ARCHITECT'S GENERAL NOTES. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE SPECIFICATION BEFORE IMPLEMENTING THE WORK.
2. NO DIMENSIONS SHALL BE SCALED FROM THIS DRAWING. ALL DIMENSIONS AND SETTING OUT CONSTRUCTION SHALL BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE ARCHITECT'S GENERAL NOTES, THE ARCHITECT'S GENERAL NOTES AND THOSE OF THE ENGINEER BEFORE IMPLEMENTING THE WORK.



GROUND FLOOR PLAN

rev	date	description	dm by	chkd by
B	18/12/06	RE-SUBMISSION	IC	YB
A	16-06-06	ISSUED FOR PLANNING	DS	CL


client: Panda Waste

job description: PHASE III Recycling Facility

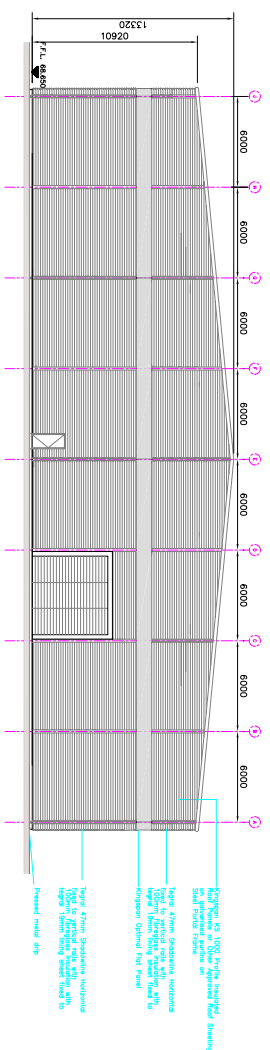
drawing title: GROUND FLOOR PLAN

drawn by	date	scale
DS	06/04/06	1:400 @ A3

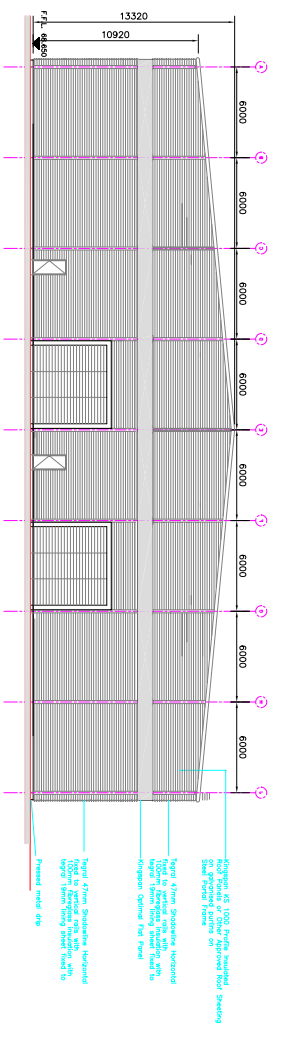
status	drawing no	rev
PLANNING	V130_A_14	B


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 187, Northgate Street, Mill Lane, London, E16 3JF
 Tel: 020 7424 2411 Fax: 020 7424 2412
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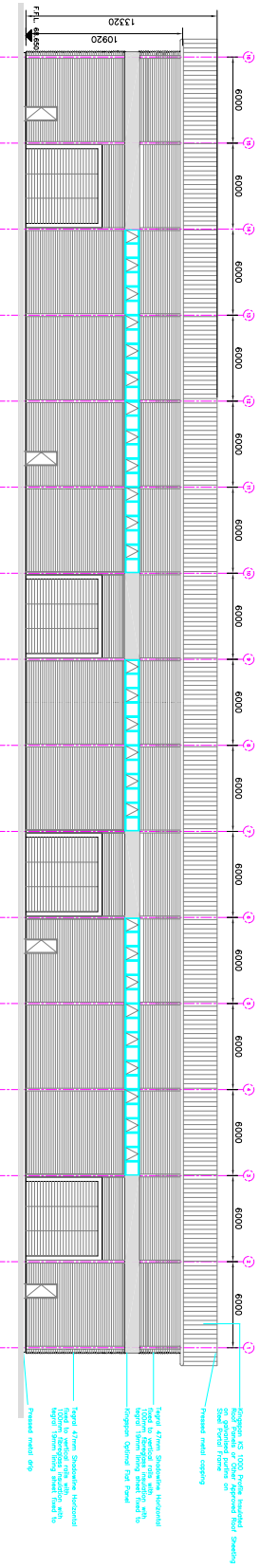
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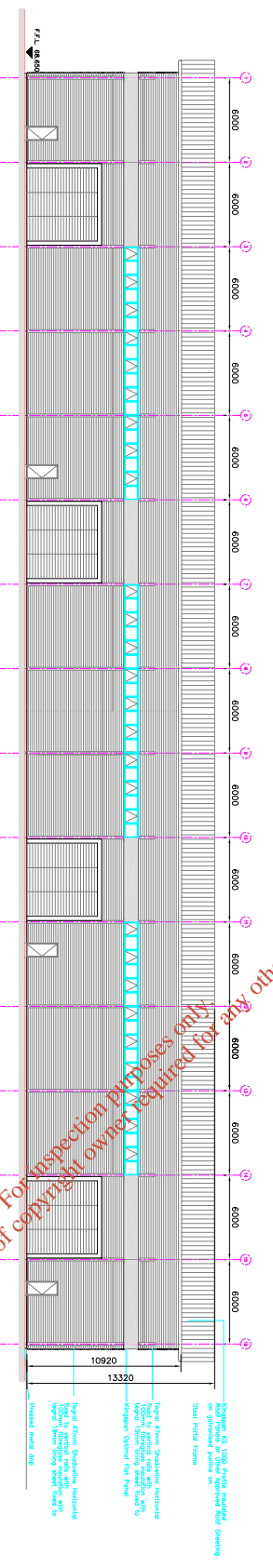
North Elevation



South Elevation

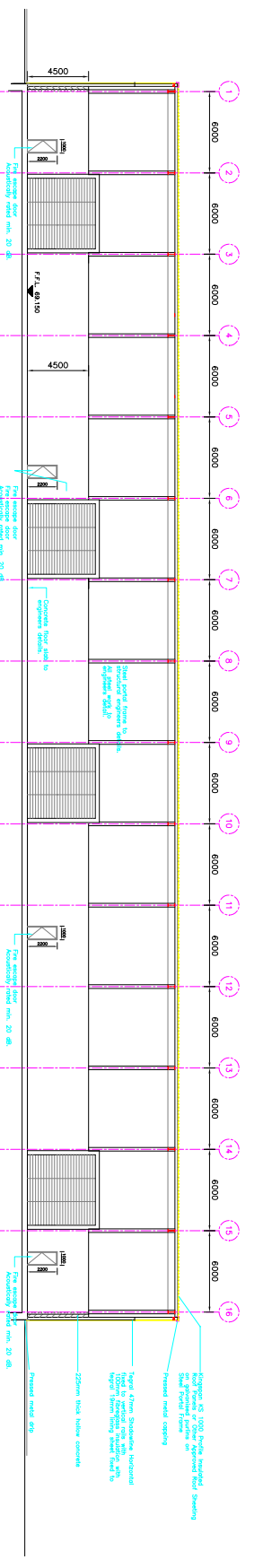


East Elevation

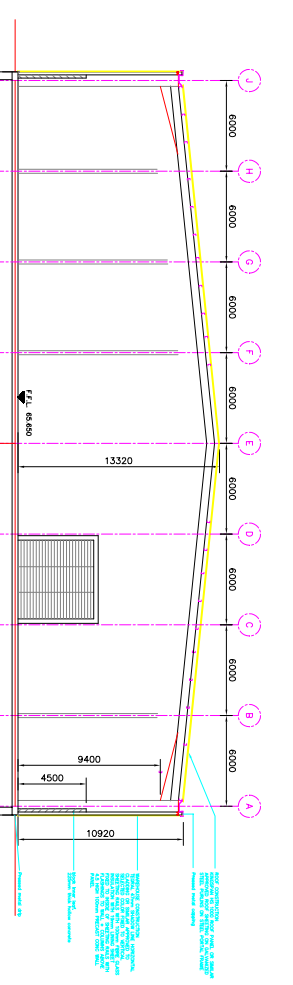


West Elevation

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Section A:A



Section B:B


rev.	date	description	dm	by	chkd	by
B	18/12/08	RE-SUBMISSION			C	VB
A	16-08-08	ISSUED FOR PLANNING			DS	CL

client:
 Panda Waste Service Ltd

job description:
 Phase III

drawing title:
 Sections & Elevations

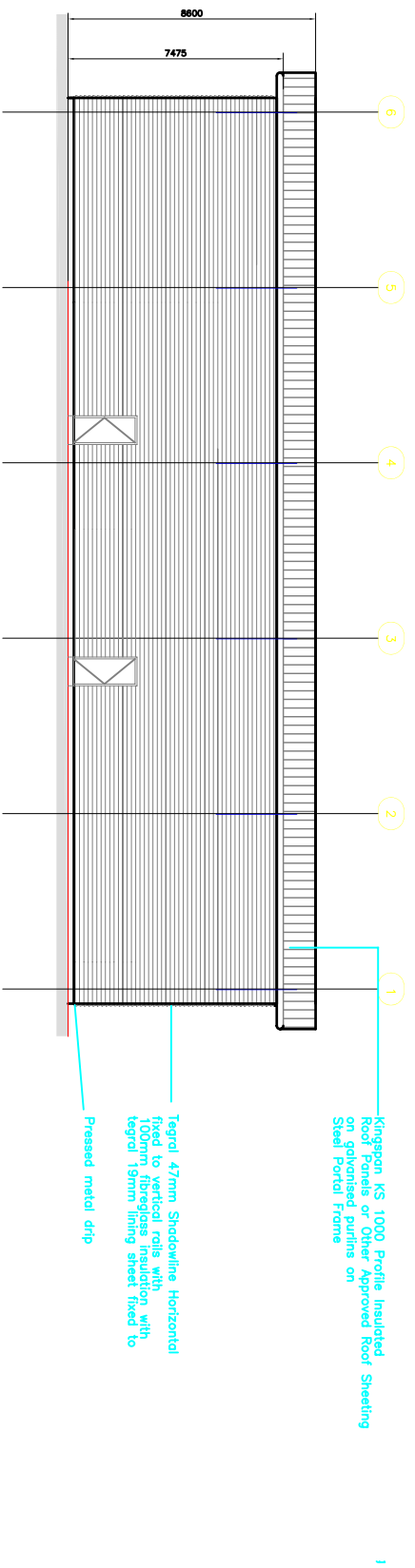
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PLANNING	V130_A_16	B



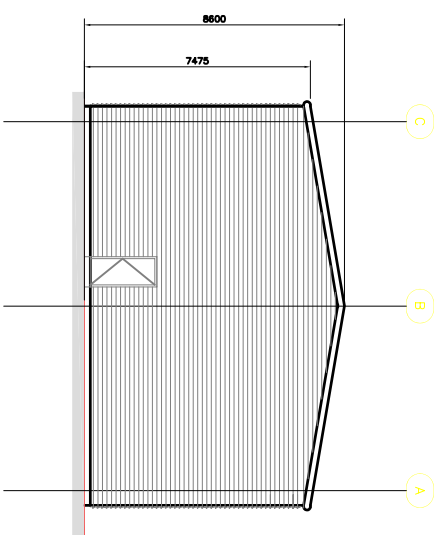
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 engineers
 project managers

117, house east wall road dublin 9 ireland
 08 333 1 874 5411 8353 1 838 5778
 cpm@cpmarchitecture.com www.cpmarchitecture.com

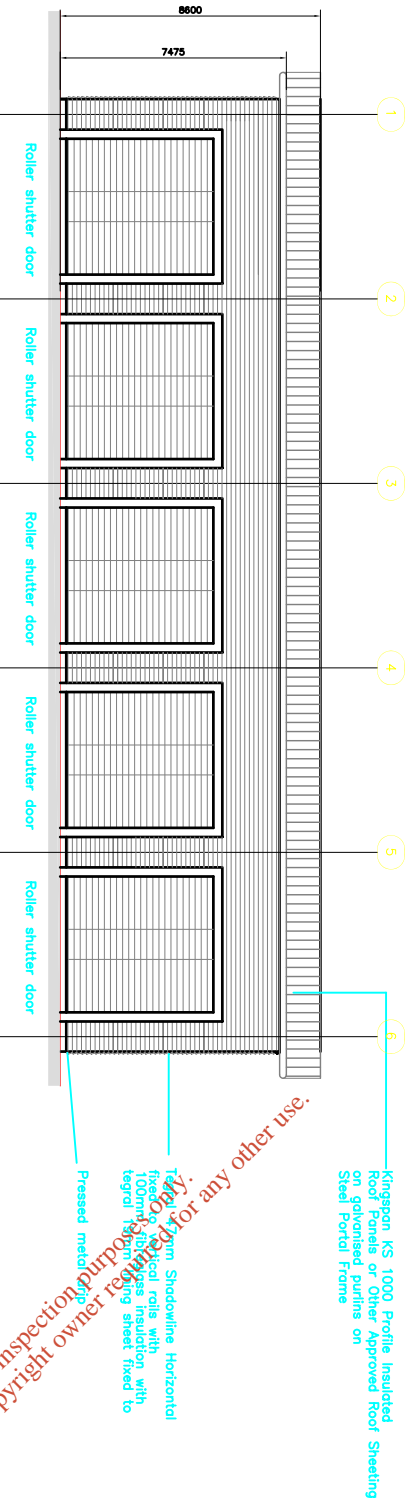
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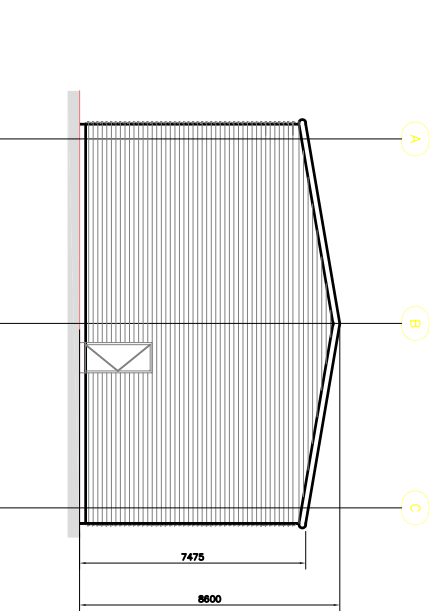
Rear Elevation



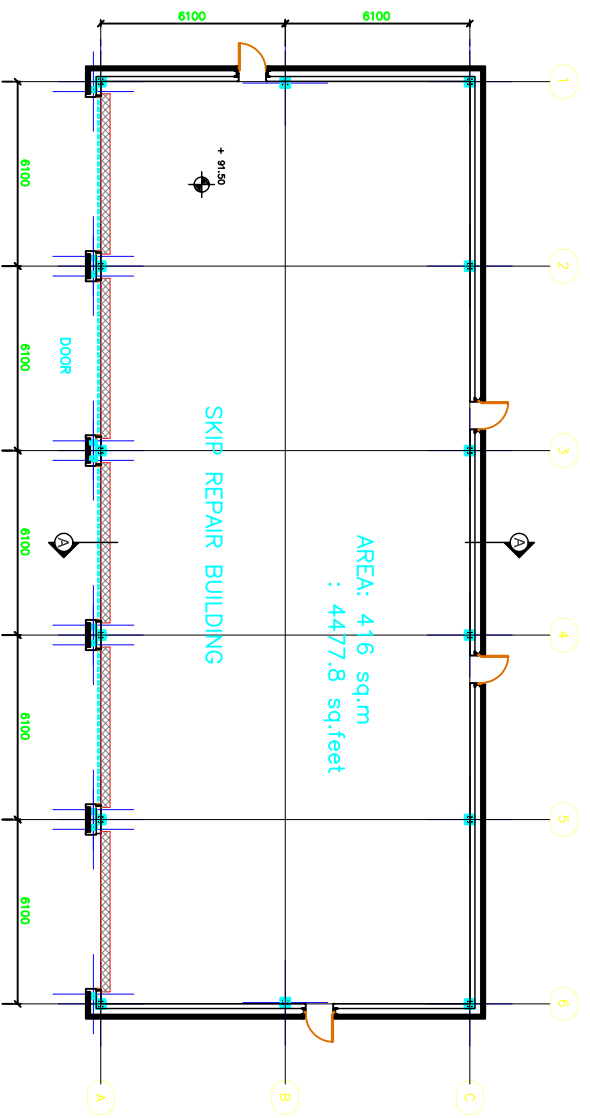
East Elevation



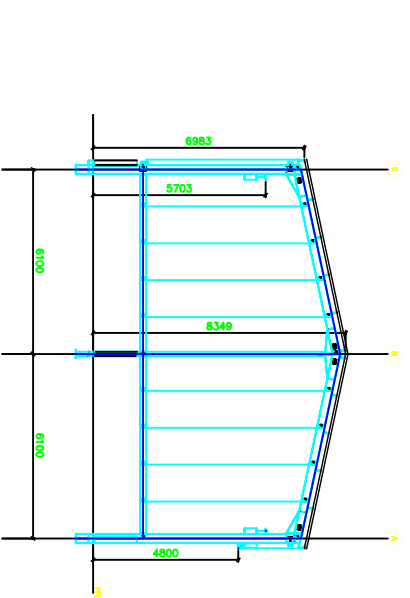
Front Elevation



West Elevation



GROUND FLOOR PLAN



Section AA

rev.	date	description	IC	VB
A	18/12/06	ISSUED FOR PLANNING	IC	VB

client: Panda Waste Service Ltd

job description: Phase III

drawing title: Skip Repair Building Plans & Elevations

drawn by	date	scale	rev
IC	14-12-06	1/250	A
status	drawing no		
PLANNING	V130_A_18		

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architects
engineers
project managers

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88 333 1 874 5411 8353 1 838 5778
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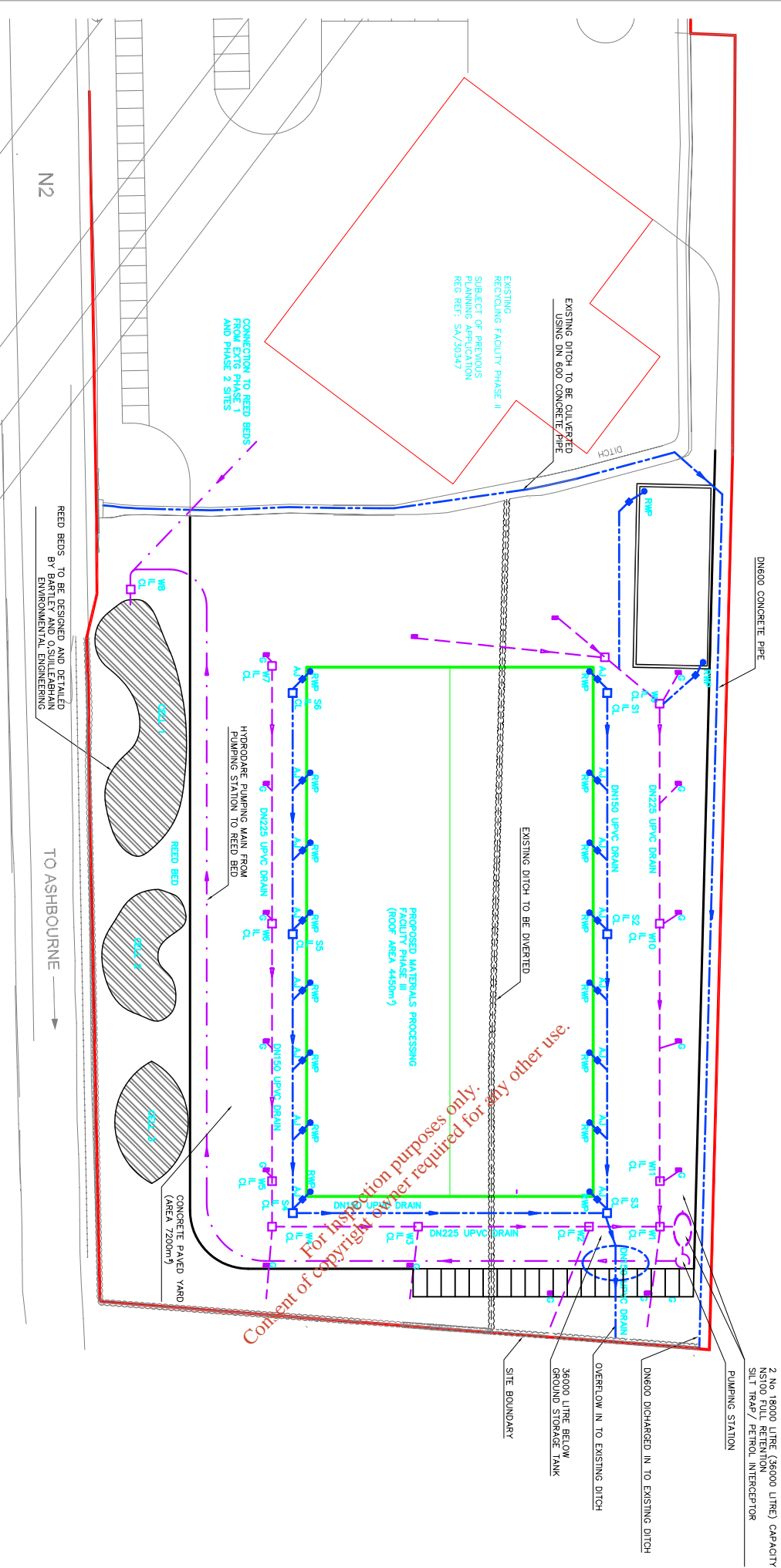
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GENERAL NOTES:

1. ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH CPM ENGINEERING'S CIVIL AND STRUCTURAL DRAWINGS. THE ENGINEER SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE SPECIFICATION BEFORE IMPLEMENTING THE WORK.
2. NO DIMENSIONS SHALL BE SCALED FROM THIS DRAWING. ALL DIMENSIONS AND SETTING OUT CO-ORDINATES SHALL BE CONFIRMED ON SITE.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BETWEEN (A) THE STRUCTURAL PLANS, SECTIONS AND ELEVATIONS AND (B) THE PLANS, SECTIONS AND ELEVATIONS OF THE ARCHITECT BEFORE IMPLEMENTING THE WORK.
4. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE ENGINEERING'S SPECIFICATION, STRUCTURAL DRAWINGS, PLUMBING, DRAINAGE, ELECTRICAL WORK, HEATING WORK, INSULATION, DAMP PROOF DETAILS, VENTILATION, FINISHES, JOINERY ETC.
5. ANY TEMPORARY WORKS NECESSARY SHALL BE THE SOLE RESPONSIBILITY OF THE MAIN CONTRACTOR.

DRAINAGE NOTES:

1. ALL DRAINAGE BE CONSTRUCTED IN ACCORDANCE WITH BS 8310.
2. PRIOR TO LAYING PIPES, MANHOLE FLOORS WILL BE PLACED AND PIPES LAID CONTINUOUSLY THROUGH MANHOLES.
3. ALL MANHOLE COVERS IN GRASS MARGIN ETC. SHALL HAVE 150mm CONCRETE SURROUND.
4. ALL BLOCKWORK IN MANHOLES, GULLEYS, ETC SHALL BE IN 10N, 1:3 CEMENT/SAND MORTAR.
5. BENCHING FOR BRANCH INLETS TO BE ANGLED IN DIRECTION OF FLOW.
6. ALL PIPE JOINTS TO BE AT SAME LEVEL UNLESS NOTED OTHERWISE.
7. ALL MANHOLE COVERS SHALL BE CLASS D400 TO BS EN 124
8. ALL A/S SHALL BE BEDDED ON 150 MIN LEAN MIX CONC AND SHALL HAVE 150 C20/20 CONCRETE SURROUND UP TO U/S OF RECESSED ACCESS COVER.



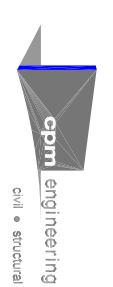
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client:
Panda Waste

job description:
**PHASE III
Recycling Facility
Drainage Plan**

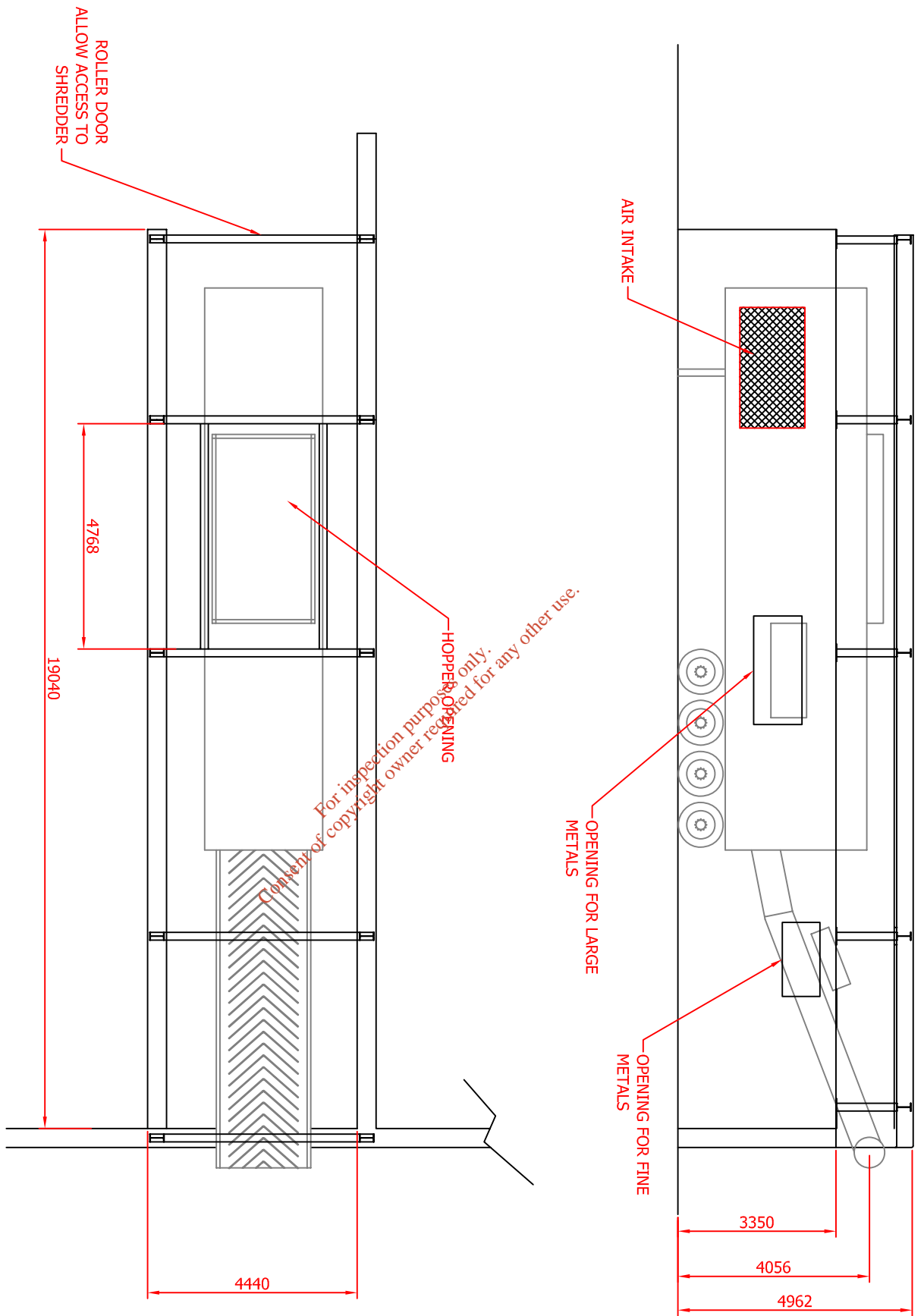
drawing title:
Drainage Plan

drawn by	date	scale
JR	06/06/06	1:1000 @ A3
checked by	AH	
status	PLANNING	
rev	V130-E-001	
		B

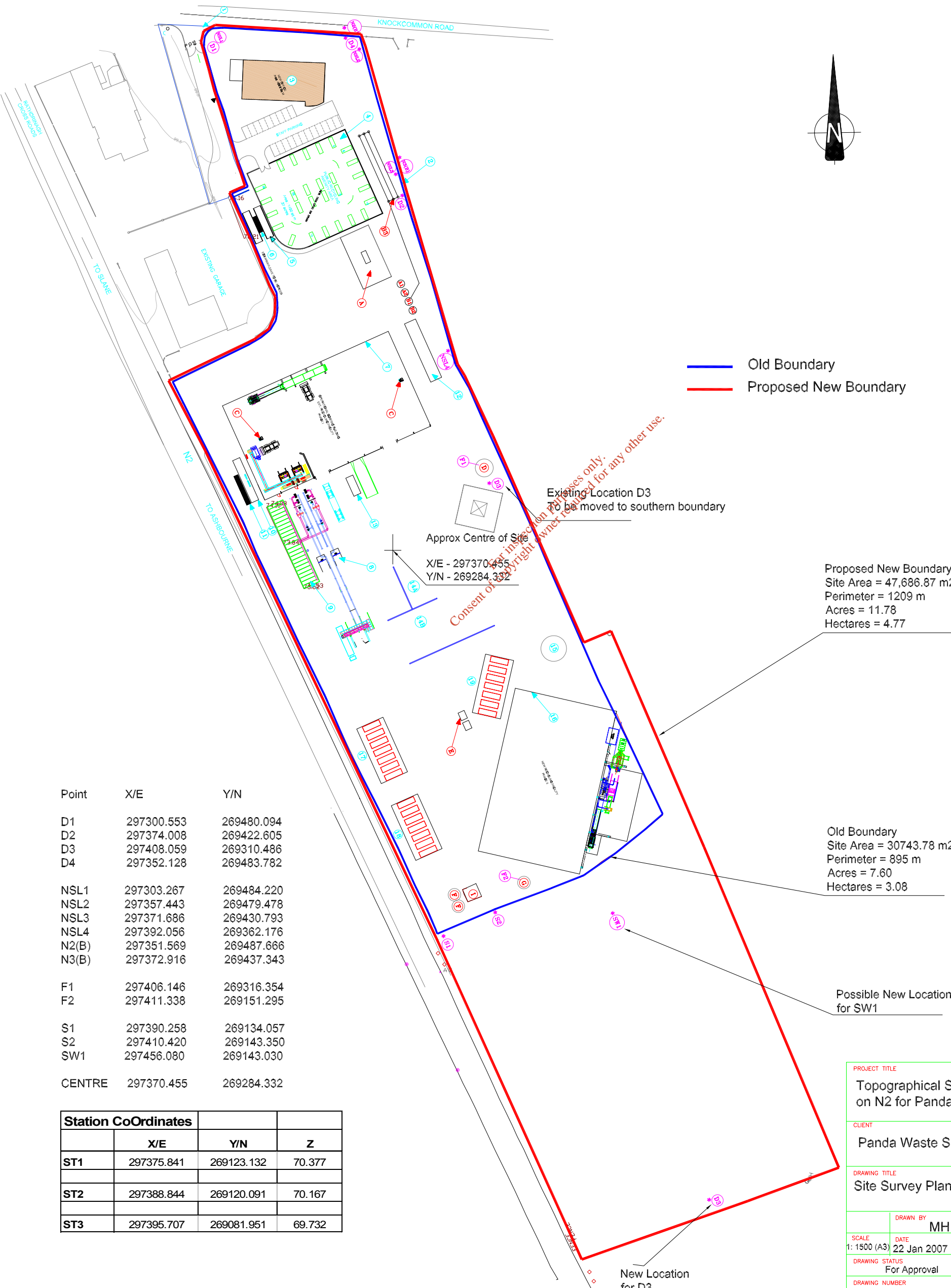


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THIRD ANGLE PROJECTION <small>THIS DRAWING IS CONFORMING TO THE FIRST ANGLE PROJECTION SYSTEM. METRIC UNITS ARE USED FOR ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE GIVEN IN METERS (M) AND MILLIMETERS (MM). DIMENSIONS IN MILLIMETERS ARE GIVEN TO THE NEAREST MILLIMETER UNLESS OTHERWISE SPECIFIED.</small>		<small>THIS DRAWING IS CONFORMING TO THE FIRST ANGLE PROJECTION SYSTEM. METRIC UNITS ARE USED FOR ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE GIVEN IN METERS (M) AND MILLIMETERS (MM). DIMENSIONS IN MILLIMETERS ARE GIVEN TO THE NEAREST MILLIMETER UNLESS OTHERWISE SPECIFIED.</small>			
DIMENSIONS MILLIMETERS INSPECTION DIMENSION	CONTRACTOR J.C. 16.03.07	DATE 16.03.07	TITLE PROPOSED BUILDING AROUND DOPPELSTADT SHREDDER	CLIENT PANDA WASTE	SCALE NA DWG: PM160307



— Old Boundary
 — Proposed New Boundary

Existing Location D3
 To be moved to southern boundary

Approx Centre of Site
 X/E - 297370.455
 Y/N - 269284.332

Proposed New Boundary
 Site Area = 47,686.87 m²
 Perimeter = 1209 m
 Acres = 11.78
 Hectares = 4.77

Old Boundary
 Site Area = 30743.78 m²
 Perimeter = 895 m
 Acres = 7.60
 Hectares = 3.08

Possible New Location
 for SW1

New Location
 for D3

Point	X/E	Y/N
D1	297300.553	269480.094
D2	297374.008	269422.605
D3	297408.059	269310.486
D4	297352.128	269483.782
NSL1	297303.267	269484.220
NSL2	297357.443	269479.478
NSL3	297371.686	269430.793
NSL4	297392.056	269362.176
N2(B)	297351.569	269487.666
N3(B)	297372.916	269437.343
F1	297406.146	269316.354
F2	297411.338	269151.295
S1	297390.258	269134.057
S2	297410.420	269143.350
SW1	297456.080	269143.030
CENTRE	297370.455	269284.332

Station CoOrdinates	X/E	Y/N	Z
ST1	297375.841	269123.132	70.377
ST2	297388.844	269120.091	70.167
ST3	297395.707	269081.951	69.732

PROJECT TITLE			
Topographical Survey of Lands on N2 for Panda Waste Services			
CLIENT			
Panda Waste Services Ltd.			
DRAWING TITLE			
Site Survey Plan			
DRAWN BY	CHECKED BY	APPROVED BY	
MH	DN	DN	
SCALE	DATE	DATE	DATE
1: 1500 (A3)	22 Jan 2007		
DRAWING STATUS		PROJECT NUMBER	
For Approval			
DRAWING NUMBER			REVISION
PWS/002			D