VALECO LTD.

WASTE LICENCE APPLICATION FORM

For:
Anaerobic Digestion Facility
At Ballard,
Araglin, Kilworth
Co. Cork

Prepared By

White Young Green Ireland
Apex Business Centre
Blackthorn Road
Sandyford Dublin 18

Environmental Protection Agency
An Ghníomhaireacht um Chaomhnú Comhshaoil

Waste Licence Application Form

EPA Ref. Nº: *(Office use only)*	

This document does not purport to be and should not be considered a legal interpretation of the provisions and requirements of the Waste Management Acts 1996 to 2003.

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

Environmental Protection Agency
Application for a Waste Licence

WASTE MANAGEMENT ACTS 1996 to 2003

CONTENTS

INTRODUCTION

A valid application must contain the information prescribed in the Waste Management (Licensing) Regulations 2004 (SI No. 395 of 2004). **The applicant is <u>strongly</u> 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	- Waste Licence Application Section B	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Waste Licence Application Section B.3	
CHECKED	**Applicant** ✓	**Official**

(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**	**Official**

(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	- Waste Licence Application Section B.2	
CHECKED	**Applicant** ✓	**Official**

(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	- Waste Licence Application Section B.7 - Attachment B.7 - EIS Section 1	
CHECKED	**Applicant** ✓	**Official**

(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	- Waste Licence Application Section B.7 - Attachment B.7	
CHECKED	**Applicant** ✓	**Official**

(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	- Waste Licence Application Section H - EIS Section 2.4.3.2	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment G	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment D - EIS Section 2.4	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment L - EIS Section 2	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment E - EIS Sections as described in Attachment E	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment E - EIS Sections as described in Attachment E	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment F - EIS Sections as described in Attachment F	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment G2 - EIS Section 14.8	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	Not Applicable	
CHECKED	**Applicant**	**Official**

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

LOCATION	- Attachment J - EIS sections as described in Attachment I	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment K - EIS Section 2.4.4	
CHECKED	**Applicant** ✓	**Official**

(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	Not applicable	
CHECKED	**Applicant**	**Official**

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

LOCATION	Not applicable	
CHECKED	**Applicant**	**Official**

(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	Not applicable	
CHECKED	**Applicant**	**Official**

(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 December 1979, describe the existing or proposed arrangements

necessary to give effect to Articles 3,4,5,6,7,8,9 and 10 of the aforementioned Council Directive,

LOCATION	Not applicable	
CHECKED	**Applicant**	**Official**

(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	- Attachment A1	
CHECKED	**Applicant** ✓	**Official**

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

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

LOCATION	- Attachment B.6	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment B.6	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment B.3	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment B.6	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment E - EIS Sections as described in Attachment E	
CHECKED	**Applicant** ✓	**Official**

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

LOCATION	- Attachment F - EIS Sections as described in Attachment F	
CHECKED	**Applicant** ✓	**Official**

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

INCLUDED Y/N	Y	
CHECKED	**Applicant** ✓	**Official**

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** ✓	**Official**

CD OF PDF FILES PROVIDED? Y/N	Y	
CHECKED	**Applicant** ✓	**Official**

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.

EIA REQUIRED ? Y/N	Y	
CHECKED	**Applicant** ✓	**Official**
3 HARD COPIES OF EIS INCLUDED ? Y/N	Y	
CHECKED	**Applicant** ✓	**Official**
16 CD versions of EIS,		

as PDF files, PROVIDED? Y/N	Y	
CHECKED	**Applicant** ✓	**Official**

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.

SECTION A NON-TECHNICAL SUMMARY

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

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

SECTION B GENERAL

B.1 Applicant's Details

Name*:	Valeco Ltd
Address:	Burton Court,
	Burton Hall Road,
	Sandyford
	Dublin 18
Tel:	01 2063722
Fax:	01 2063742
e-mail:	martin.hogan@bioverda.com

* 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:	Martin Hogan Valeco Ltd
Address:	Burton Court,
	Burton Hall Road,
	Sandyford
	Dublin 18
Tel:	01 2063728
Fax:	01 2063742
e-mail:	martin.hogan@bioverda.com

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

Address:	Burton Court
	Burton Hall Road
	Sandyford
	Dublin 18
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.

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

Landowner	
Lessee	
Prospective Purchaser	✓
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:	Michael Hyland
Address:	Ballard,
	Araglin,
	Kilworth,
	Co Cork
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:	Valeco,
Address*:	Ballard,
	Araglin,
	Kilworth,
	Co Cork
Tel:	
Fax:	
e-mail:	

* Include any townland

National Grid Reference (8 digit 4E,4N)	1877E, 1066N

Location maps (≤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:	Cork County Council
Address:	Headquarters,
	County Hall,
	Cork
Tel:	021 4276891
Fax:	021 4276321

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** ✓
	No

Planning Permission relating to this application:

has been obtained	Yes – for existing site
is being processed	Yes – New proposed site
is not yet applied for	
is not required	

Local Authority Planning File Reference Nº:	No. N/96/4650 for existing site No. 06/6651 for proposed site

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
Address:	
Tel:	
Fax:	

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

B.5 Other Authorities

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

Within SFADCo. Area	**Yes**	**No** ✓

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

Name:	Health Service Executive (HSE) – Southern Area
Address:	Wilton Road
	Cork
Tel:	021 4545011
Fax:	021 4335638

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 (≤A3) showing its location on site. **The original application must include the complete newspaper in which the advertisement was placed**. The relevant page of the newspaper containing the advertisement should be included with the original and three copies of the application.

B.7 Type of Waste Activity, Tonnages & Fees

B.7.1 Specify the class or classes of activity in Table B.7.1, in accordance with the 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).	N	1. Solvent reclamation or regeneration.	N
2. Land treatment, including biodegradation of liquid or sludge discards in soils.	N	2. Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).	Y P*
3. Deep injection of the soil, including injection of pumpable discards into wells, salt domes or naturally occurring repositories.	N	3. Recycling or reclamation of metals and metal compounds.	N
4. Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.	N	4. Recycling or reclamation of other inorganic materials.	N
5. Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.	N	5. Regeneration of acids or bases.	N
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.	N	6. Recovery of components used for pollution abatement.	N
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).	N	7. Recovery of components from catalysts.	N
8. Incineration on land or at sea.	N	8. Oil re-refining or other re-uses of oil.	Y
9. Permanent storage, including emplacement of containers in a mine.	N	9. Use of any waste principally as a fuel or other means to generate energy.	N
10. Release of waste into a water body (including a seabed insertion).	N	10. The treatment of any waste on land with a consequential benefit for an agricultural activity or ecological system.	N
11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.	N	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.	N	12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.	N
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.	N	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

Note – P stands for Principle Activity*

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 tpa
Year	Each year of operation

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)	NIL
Recovery of Waste (4)	10,000

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	
(b) landfill for non-hazardous waste	
(c) landfill for inert waste	

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	No ✓

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

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
Martin Hogan	Project Development Manager	Site Development, Project Development, Project Management, Tender/Commissioning of Facility, Appointment of Staff, Lead contact with regulatory authorities	Bsc, MSc C Chem, MRSC, MCIWM, MIOSH 15 years experience in waste management and environmental management of various IPC and WML facilities including design, build, operation of waste facilities and installation of EMS etc.
Please refer to attachment C.1 for futher information			

C.2 Environmental Management System

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

C.3 Hours of Operation

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	Attachment D.1.a
D.1.b	**Designs for site roads**	Y	Attachment D.1.b
D.1.c	**Design of hardstanding areas**	Y	Attachment D.1.c
D.1.d	**Plant**	Y	Attachment D.1.d
D.1.e	**Wheel-wash**	Y	Attachment D.1.e
D.1.f	**Laboratory facilities**	Y	Attachment D.1.f
D.1.g	**Design and location of fuel storage areas**	Y	Attachment D.1.g
D.1.h	**Waste quarantine areas**	Y	Attachment D.1.h
D.1.i	**Waste inspection areas**	Y	Attachment D.1.i
D.1.j	**Traffic control**	Y	Attachment D.1.j
D.1.k	**Sewerage and surface water drainage infrastructure**	Y	Attachment D.1.k
D.1.l	**All other services**	Y	Attachment D.1.l
D.1.m	**Plant sheds, garages and equipment compound**	Y	Attachment D.1.m
D.1.n	**Site accommodation**	Y	Attachment D.1.n
D.1.o	**A fire control system, including water supply**	Y	Attachment D.1.o
D.1.p	**Civic amenity facilities**	Y	**Not applicable**
D.1.q	**Any other waste recovery infrastructure**	Y	**Not applicable**
D.1.r	**Composting infrastructure (Anaerobic Digestion)**	N	Attachment D.1.r
D.1.s	**Construction and Demolition waste infrastructure**	Y	Attachment D.1.s
D.1.t	**Incineration infrastructure (if applicable).** **Provide information to fulfil Article 4 (2) & (3) of the Incineration of Waste Directive**	N	**Not applicable**
D.1.u	**Any other infrastructure**	N	**Not applicable**

D.2 Facility Operation

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

Attachment included	**yes** ✓ **no** **not applicable**

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**		**Not applicable**
D.3.b	**What type of liner system is specified?**		**Not applicable**
D.3.c	**Has a Quality Control Plan been specified?**		**Not applicable**
D.3.d	**Has a Quality Assurance Plan been specified?**		**Not applicable**
D.3.e	**Have independent, third-party supervision, testing and controls been specified?**		**Not applicable**
D.3.f	**Have basal gradients for all cells and access ramps to the cells been designed?**		**Not applicable**
D.3.g	**Has a leak detection survey been specified?**		**Not applicable**

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?**		**Not applicable**
D.4.b	**Have annual quantities of leachate been calculated?**		**Not applicable**
D.4.c	**Has the total quantity of leachate been calculated?**		**Not applicable**
D.4.d	**Have the size of the cells been specified taking account of the water balance calculations?**		**Not applicable**
D.4.e	**Has a leachate collection system been specified?**		**Not applicable**
D.4.f	**Has a leachate storage system been specified?**		**Not applicable**
D.4.g	**Has a system for monitoring the level of leachate in the waste been designed?**		**Not applicable**
D.4.h	**Is leachate recirculation proposed/practised?**		**Not applicable**
D.4.i	**Has leachate treatment onsite been specified?**		**Not applicable**
D.4.j	**Has leachate removal been specified?**		**Not applicable**

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	Is there a Landfill Gas Management Plan? 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:		Not applicable
D.5b	Is there a passive venting system?		Not applicable
D.5c	Does the passive system cover all of the filled area?		Not applicable
D.5d	Have gas alarm systems been installed in the site buildings?		Not applicable
D.5e	Have measures been installed to prevent landfill gas migration (e.g. barriers)?		Not applicable
D.5f	Has a time-scale been proposed for the installation of landfill gas infrastructure?		Not applicable
D.5g	Is gas flaring undertaken at the site?		Not applicable
D.5h	Is there an active (i.e., pumped) landfill gas extraction system?		Not applicable
D.5i	Does the active system cover all of the filled area?		Not applicable
D.5j	Is landfill gas used to generate energy at the site?		Not applicable
D.5k	Have emissions from the flarestack and utilisation plant been assessed for source, composition, quantity and level and rate?		Not applicable
D.5l	Has a maintenance programme for the control system been specified?		Not applicable
D.5m	Has a condensate removal system been designed?		Not applicable

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?**		**Not applicable**
D.6b	**Has the intermediate cover been specified?**		**Not applicable**
D.6c	**Has the temporary capping been specified?**		**Not applicable**
D.6d	**Has the Capping System been designed and does it meet the requirements of the Landfill Directive Annex 1 (3.3)?**		**Not applicable**
D.6e	**Does the Capping System include a flexible membrane liner?**		**Not applicable**
D.6f	**Have all capping materials been specified?**		**Not applicable**
D.6g	**Has a Method Statement for construction been produced?**		**Not applicable**
D.6h	**Has a Quality Control Plan been produced?**		**Not applicable**
D.6i	**Has a Quality Assurance Plan been produced?**		**Not applicable**
D.6j	**Has a programme for monitoring landfill stability been developed?**		**Not applicable**
D.6k	**Has a programme for monitoring landfill settlement been developed?**		**Not applicable**

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.

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**

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** ✓ **no** **not applicable**
	Attachment included	**yes** ✓ **no** **not applicable**
Dust Control	**Control method specified**	**yes** ✓ **no** **not applicable**
	Attachment included	**yes** ✓ **no** **not applicable**
Fire Control	**Control method specified**	**yes** ✓ **no** **not applicable**
	Attachment included	**yes** ✓ **no** **not applicable**
Litter Control	**Control method specified**	**yes** ✓ **no** **not applicable**
	Attachment included	**yes** ✓ **no** **not applicable**
Traffic Control	**Control method specified**	**yes** ✓ **no** **not applicable**
	Attachment included	**yes** ✓ **no** **not applicable**
Vermin Control	**Control method specified**	**yes** ✓ **no** **not applicable**
	Attachment included	**yes** ✓ **no** **not applicable**
Road Cleansing	**Control method specified**	**yes** ✓ **no** **not applicable**
	Attachment included	**yes** ✓ **no** **not applicable**

SECTION F CONTROL & MONITORING

F.1: Treatment, Abatement and Control Systems

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

For each Emission Point identified complete Table F.1 of the Annex, and include detailed descriptions and appropriately scaled schematics (≤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** ✓	**no**	**not applicable**
Monitoring points identified, (plus 12-figure grid references)	**yes** ✓*	**no**	**not applicable**
Attachment included	**yes** ✓	**no**	**not applicable**

F.3 Surface Water

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

Monitoring Arrangements specified	**yes** ✓	**no**	**not applicable**
Monitoring points identified, (plus 12-figure grid references)	**yes** ✓*	**no**	**not applicable**
Attachment included	**yes** ✓	**no**	**not applicable**

F.4 Sewer Discharge

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

Monitoring Arrangements specified	**yes no not applicable ✓**
Monitoring points identified, (plus 12-figure grid references)	**yes no not applicable ✓**
Attachment included	**yes no not applicable ✓**

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 ✓ no not applicable**
Monitoring points identified, (plus 12-figure grid references)	**yes ✓* no not applicable**
Attachment included	**yes ✓ no not applicable**

F.6 Noise

Monitoring Arrangements specified	**yes ✓ no not applicable**
Monitoring points identified, (plus 12-figure grid references)	**yes ✓* no not applicable**
Attachment included	**yes ✓ no not applicable**

F.7 Meteorological Data

Monitoring Arrangements specified	**yes ✓ no not applicable**
Monitoring points identified, (plus 12-figure grid references)	**yes no ✓ not applicable**
Attachment included	**yes ✓ no not applicable**

***= monitoring points tentatively identified- grid references will be supplied at a later stage post final engineering design**

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

F.8 Leachate

Monitoring Arrangements specified	**yes no not applicable ✓**
Monitoring points identified, (plus 12-figure grid references)	**yes no not applicable ✓**
Attachment included	**yes no not applicable ✓**

F.9 Landfill Gas **Not applicable**

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 (CH_4) % v/v					
Carbon Dioxide (CO_2) % v/v					
Oxygen (O_2) % 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**	**no**	**not applicable** ✓
Monitoring points identified, (plus 12-figure grid references)	**yes**	**no**	**not applicable** ✓
Attachment included	**yes**	**no**	**not applicable** ✓

SECTION G RESOURCES USE & ENERGY EFFICIENCY

G.1 Raw Materials, Substances, Preparations and Energy

Attachment G.1 should contain a list of all raw, product and ancillary materials, substances, preparations, fuels and energy which will be utilised 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** ✓ **no** **not applicable**

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** ✓ **no** **not applicable**

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	✓	250,000
Class 3			Class 3		
Class 4			Class 4		
Class 5			Class 5		
Class 6			Class 6		
Class 7			Class 7		
Class 8			Class 8	✓	250,000
Class 9			Class 9		
Class 10			Class 10		
Class 11			Class 11	✓	250,000
Class 12			Class 12		
Class 13			Class 13	✓	250,000

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)
Year 1	250,000	**Not applicable**	250,000
Year 2	250,000	**Not applicable**	250,000
Year 3	250,000	**Not applicable**	250,000
Year 4	250,000	**Not applicable**	250,000
Year 5	250,000	**Not applicable**	250,000

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	**Following discussions with the Agency Table H.1.(c) has been replaced. Please see Attachment H.1 of this application**		
Commercial			
Sewage Sludge			
Construction and Demolition			
Industrial Non-Hazardous Sludges			
Industrial Non-Hazardous Solids			
Hazardous ***(Specify detail in Table H 1.2)**			
Inert Waste imported for restoration purposes	COMPLETE FOR LANDFILL & CONTAMINATED LAND FACILITIES ONLY		

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

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	**Not applicable**		
Oil filters	**Not applicable**		
Asbestos	**Not applicable**		
Paint and Ink	**Not applicable**		
Batteries	**Not applicable**		
Fluorescent Light Bulbs	**Not applicable**		
Contaminated Soils	**Not applicable**		
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

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

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 **Not applicable**

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 **Not applicable**

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 (m^3) 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

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

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

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

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 (≤A3), documentation, including containment engineering, remedial works, and any other supporting information should be included in **Attachment I.5**.

I.6 Noise Impact.

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

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

(i) State the maximum Sound Pressure Levels which will be experienced at typical points on the boundary of the operation. (State sampling interval and duration)

(ii) State the maximum Sound Pressure Levels which will be experienced at typical noise sensitive locations, outside the boundary of the operation.

(iii) Give details of the background noise levels experienced at the site in the absence of noise from this operation.

Prediction models, appropriately scaled maps (≤ 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

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

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** ✓ **no** **not applicable**

SECTION K REMEDIATION, DECOMMISSIONING, RESTORATION AND AFTERCARE

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

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** ✓ **no** **not applicable**

SECTION L STATUTORY REQUIREMENTS

L. 1 Section 40(4) WMA

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

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

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

Attachment included	**yes** ✓ **no** **not applicable**

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** ✓	**no**	**not applicable**

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 :**_____
(on behalf of the organisation)

Print signature name: _____

Position in organisation :_____

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

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:	

Characteristics of Emission :

CO		mg/m^3
Total organic carbon (TOC)		mg/m^3
NOx		mg/Nm^3 0^{o}C. 3% O_2(Liquid or Gas), 6% O_2(Solid Fuel)
Maximum volume of emission		m^3/hr
Temperature	^{o}C(max) ^{o}C(min) ^{o}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

TABLE E.1(ii) MAIN EMISSIONS TO ATMOSPHERE (1 Page for each emission point)

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	^{o}C(max)	^{o}C(min)	^{o}C(avg)
For Combustion Sources: Volume terms expressed as : ☐ wet. ☐ 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

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

Emission Point Reference Number: _____

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

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

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	

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^{o}C101.3kPa). Wet/dry should be clearly stated. Include reference oxygen conditions for combustion sources.

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

Emission Point:

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

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

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

Emission point reference number : _____

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

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

Emission Point:

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

Emission Details:

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

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

Periods of Emission (avg)	_____min/hr _____hr/day _____day/yr

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	

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

Emission Point or Area:

Emission Point/Area Ref. Nº:	
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:	

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

Table E.5(i): NOISE EMISSIONS - Noise sources summary sheet

Source	Emission point Ref. No	Equipment Ref. No	Sound Pressure[1] dBA at reference distance	Octave bands (Hz) Sound Pressure[1] Levels dB(unweighted) per band									Impulsive or tonal qualities	Periods of Emission
				31.5	63	125	250	500	1K	2K	4K	8K		

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

TABLE F.1: ABATEMENT / TREATMENT CONTROL

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.

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

Emission Point Reference No(s). : _____

Parameter	Monitoring frequency	Accessibility of Sampling Points

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

Monitoring Point Reference No :_____

Parameter	Monitoring frequency	Accessibility of Sampling point

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

Ref. Nº 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 Nº 77/94
3. c.f. Schedules 2 and 3 of SI Nº 77/94

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

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

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

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

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			

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

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							

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							

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							

GROUNDWATER QUALITY (SHEET 2 OF 2)

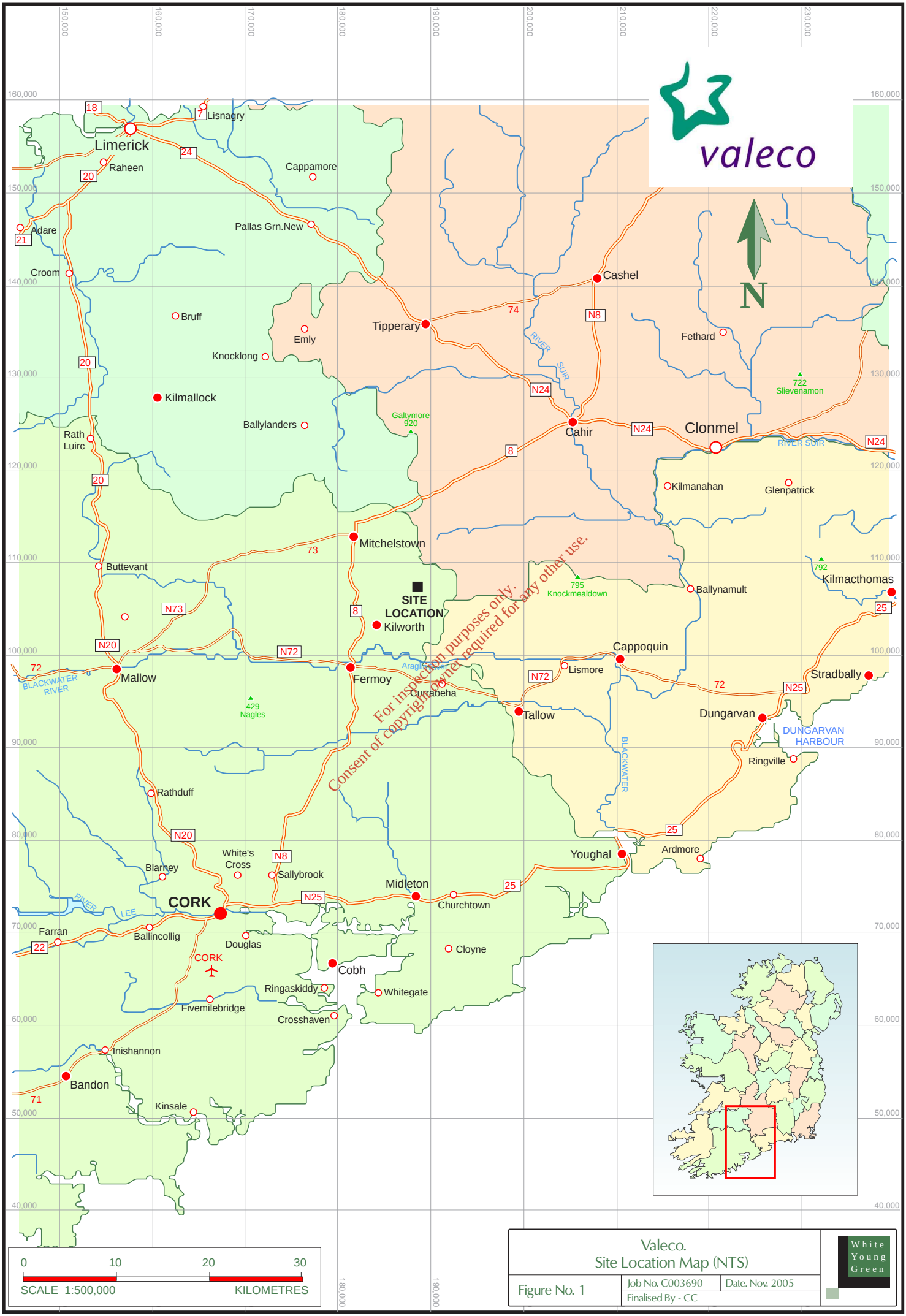
Parameter	Results (mg/l)				Sampling method (composite, dipper etc.)	Normal Analytical Range	Analysis method / technique
	Date	Date	Date	Date			
Phosphate PO_4							
Sulphate SO_4							
Zinc Zn							
Total alkalinity (as $CaCO_3$)							
Total organic carbon TOC							
Total oxidised nitrogen TON							
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)							

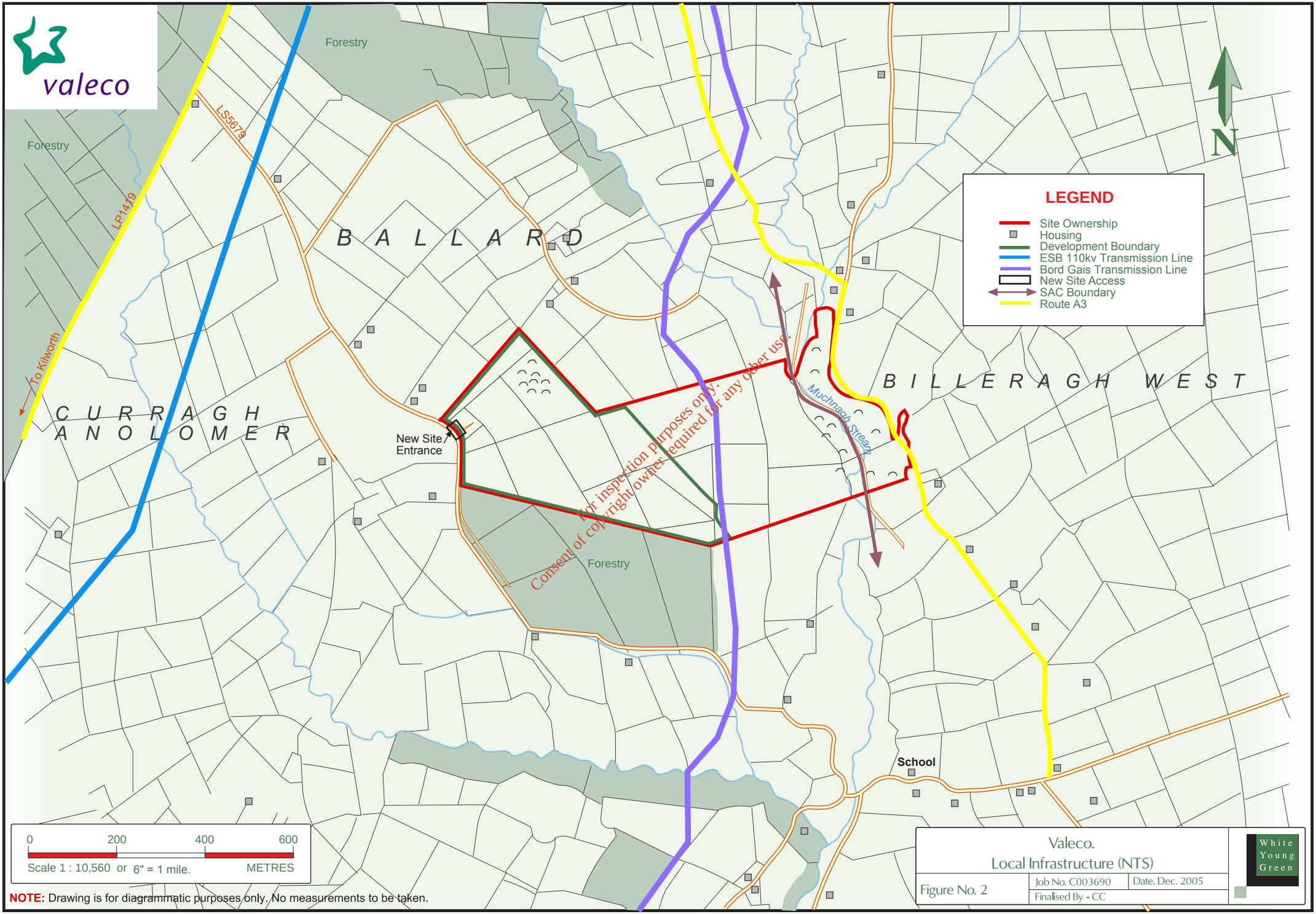
Table I.6(i) Ambient Noise Assessment

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.





ATTACHMENT B1

GENERAL

B.1. Applicant Details

The applicant: Valeco Ltd,
Burton Court,
Burton Hall Road,
Sandyford,
Dublin 18

Tel: 01 2063728

The Company's registration number is: 374534

A copy of the Certificate of Incorporation is attached.

B.2 - Location of Activity

- The Site Plan is illustrated on Figure 3, at a scale of 1:2500 approx. The boundary of the Site to which the license application relates is outlined in red.

- A site location plan is also attached at a scale of 1:10560 approx. The boundary of the Site to which the license application relates is outlined in red.

Postal Address: Valeco Ltd,
Burton Court
Burton Hall Road
Sandyford
Dublin 18

- Grid Reference: E1877;N1066

B.3 - Planning Authority

Cork County Council is the relevant Planning Authority in whose functional area the facility is located.

Attached are the following documents:

- Three copies of the Environmental Impact Statement.
- A copy of the letter notifying the planning authority of the application is enclosed.
- Planning permission for a bio solids operation at the site granted in 1998.
  Planning Register No. N/96/4650
- Planning Application April 2006 in process at present Ref: 06/6651

B4 - Sanitary Authority

Cork County Council is the relevant Sanitary Authority in whose functional area the facility is located. There are no discharges to public sewers on site.

B.6 - Notices and Advertisements

Notice of this Application has been provided to the public by means of an advertisement in the Irish Examiner newspaper dated 14th June 2006 and a site notice which was posted on 19th June 2006 and will be displayed for a minimum period of two months after submission of this application. Notice was given to the Local Authority in the form of a letter to Cork County Council dated 14th June 2006 and this is included in Attachment B.3 above. Enclosed are copies of the following:

- Newspaper in which the notice was displayed. Irish Examiner newspaper, on the 14th June 2006
- Text of the Site Notice.
- Figure 4 showing location of Site Notice.

B.7 - Type of Waste Activity, Tonnages and Fees

B.7.1 Third and Fourth Schedules of the WMA 1996 to 2003

The facility is involved in a number of waste recovery activities as defined in the Fourth Schedule of the Waste Management Act, 1996 (WMA).

Waste Recovery Activities - Fourth Schedule of WMA

2. *Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes.)*
The process at the facility comprises the anaerobic digestion of biodegradable/organic materials (e.g. industrial sludges, organic wastes & non risk meat and bone meal etc) for the production of biogas to create electricity

8. Oil re-refining or other reuses of oil.
Use of biodegradable fats, oils and greases (e.g. vegetable oils, grease trap waste etc) as a raw material for the AD process.

11. Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
The process may involve the recycling of sudges or other wastes generated on site which are deemed suitable for the AD process.

13. ***Storage of waste intended for submission to any activity referred to in a preceding paragraph of this (Fourth) Schedule, other than temporary storage, pending collection, on the premises where the such waste is produced.***
All wastes brought to the site are temporarily stored at the site prior to processing activities. Some accumulation of wastes such as domestic waste from site accommodation will occur and this material will be stored prior to collection by Greenstar or other waste contractor. Occassionally there will be material generated through the planned preventative maintenance regime e.g. oil filters etc.

B.7.2 Maximum Annual Tonnage

The maximum annual tonnage to be processed at the facility will be 250,000 tonnes/annum.

B.7.3 Fees

The appropriate fees are enclosed.

ATTACHMENT C

MANAGEMENT OF THE FACILITY

C.1 Technical Competence and Site Management

Valeco Limited, the applicant company, is a wholly owned subsidiary of Greenstar which has a long history in the provision of state of the art waste infrastructure to the Irish market. Greenstar has invested over €170m in facilities in Ireland since 1999 and intends to invest a further €300m over the next four years (2006-2010) both in solid waste, public private partnerships (PPP) and bio-energy assets.

Greenstar is recognized as Ireland's leading provider of integrated waste management solutions providing services and infrastructure at each level of the waste management hierarchy. The companys business development spans a range of services that includes education, research, composting, anaerobic digestion, recycling, materials recovery and the development of facilities for the safe disposal of waste that cannot be reused recycled or recovered. The company have demonstrated their technical competence and site management through their continued involvement in these sectors, the quality of their plant technology and processes and the testament of their clients whom they have served over the years.

The management team will typically be composed of experienced personnel who have spent many years in this sector. The general manager will be responsible for all environmental aspects of the operation and in particular compliance with the waste licence. He will be assisted by an environmental officer whose duties will include compilation of environmental data and meeting the requirements of the waste licence. The general manager and the environmental officer will be suitably qualified to include completion of the FAS course for waste facility management. Final details of the management structure and personnel to be employed at the proposed facility will be forwarded to the agency prior to commencement of operations.

C.2 Environmental Management System

An Environmental Management System (EMS) based on continual improvement will be implemented in line with the requirements of the Waste Licence.

C.3 Hours of Operation

(a)The facility has been designed for continuous operation 24 hours a day 365 days a year. While a preventative maintenance programme will be employed there will be no specific shut down period of the facility for maintenance/holiday periods.

(b)Waste will be normally accepted at the facility between the hours of 0700-2100 hours, Monday to Saturday inclusive with no deliveries on Sundays or public holidays except in emergency situations or for essential maintenance.

(c)Construction works at the facility will be conducted during daylight in the main. Standard working hours will be 0800-1800 hours Monday to Friday with a half day Saturday 0800-1300 hours. Variations to this construction programme may be sought/agreed with the agency.

ATTACHMENT D

INFRASTRUCTURE AND OPERATION

Note: All drawings referred to in Attachment D and elsewhere in this Waste Licence are for information purposes only. Final engineering drawings will be provided post construction and CQA sign-off.

D.1.a Site Security arrangements including gates & fencing

Details relating to the security arrangements at the proposed development are provided in the security section of Section 2.4.3.8 of the EIS. As discussed in the EIS, a 2.4m plastic coated security fence will be placed around the perimeter of the site as shown on the facility plot plan Drawing A1450-1019 and as per the Engineering Drawings of the EIS Volume II.

D.1.b Design for site roads

Details and final specifications relating to internal haul roads will be provided to the agency post final engineering design stage.

D.1.c Design of hardstanding areas

Please refer to sections 8.3.1 (Foul Water/Sanitary Management) and 8.3.2 (Storm Water Management) of the EIS. The proposed drainage design is shown on drawing A1450-1020 and as per the Engineering Drawings, Volume II of the EIS

D.1.d Plant

Specific details relating to Plant to be used at the facility during the operational phase are subject to tender and will be supplied to the agency prior to commencement of activities. Please refer to section 15.5 (Construction Phase – Plant)of the EIS. All plant during construction will be securely stored in the garage as detailed in Attachment D.1.m below.

D.1.e Wheelwash/Truck Wash

Details relating to the design and location of the truck wash are shown on Drawing A1450-1034 and as per the Engineering Drawings, Volume II of the EIS. It is proposed that all vehicles entering and exiting the site will pass through the truck wash to mitigate against potential dust emissions generated by site traffic.

D.1.f Laboratory Facilities

Please refer to Section 2.4.3.4 (Processes -Waste Acceptance) of the EIS for details relating to the role of the laboratory at the proposed development. The location of laboratory facilities are as shown on Drawing A1450-1032 and as per the Engineering Drawings Volume II of the EIS.

D.1.g Design and Location of fuel storage areas

All oils or fuels on site will be stored in contained bunds. Therefore any leakages or spillages from the oil tanks will be contained within the bund. All refuelling or oiling of vehicles or site machinery will be carried out in a specially constructed and ramped bund. Therefore any leakages associated with refuelling will be contained.

The exact numbers of plant and machinery, and therefore their fuel requirements to be used, during the operational phase of the facility are subject to tender. Details of the design and location of fuel storage areas will be provided to the agency post final engineering design stage.

D.1.h Waste Quarantine Areas

Incoming waste at the facility will be visually assessed upon arrival and suspect loads will be directed for quarantine. Further confirmation characterisation testing will be carried out on each quarantined waste load. Quarantined wastes will be stored in dedicated inspection/storage tanks within the waste reception building as shown on Drawing A1450-1027 and as per the Engineering Drawings, Volume II of the EIS. Solid wastes will remain in their respective transporters whilst awaiting characterisation. Waste which fails to meet the strict waste acceptance criteria will not be accepted into the facility for treatment, and will be returned to the waste producer or dispatched to an alternate facility on their behalf.

D.1.i Waste Inspection Areas

As outlined above, waste inspection is carried out in dedicated inspection/storage tanks within the waste reception building as shown on Drawing A1450-1027 of attachment D.1.h and as per the Engineering Drawings Volume II of the EIS.

D.1.j Traffic Control

Please refer to section 2.4.3.8 (Off Site Traffic Movements) of the EIS. Furthermore a speed limit will be enforced by appropriate signage and an on site traffic management plan.

D.1.k Sewerage and surface water drainage infrastructure

Please refer to section 8.3 (Proposed Drainage Network) of the EIS for further details. Details relating to the design of the site sewerage and surface water drainage are shown on Drawing A1450-1020 as per Attachment D.1.C and as per the Engineering Drawings, Volume II of the EIS. Details and final specifications relating to the drainage systems will be provided to the agency post final engineering design stage.

D.1.l All other services

Please refer to section 14 of the EIS for details relating to the proposed electricity, gas & water services at the site. Details and final specifications relating to the site services will be provided to the agency post final engineering design stage.

D.1.m Plant sheds, garages, and equipment compound

Please refer to section 2.3.1 (Description of Design Size and Scale)of the EIS. The location of the maintenance garage and workshop are shown on Drawing A1450-1033 and A1450-1028 respectively as per the Engineering Drawings Volume II of the EIS .

D.1.n Site Accomodation

Please refer to section 15.7 (Accommodation/Facilities)of the EIS. The location and design of site accommodation is shown on Drawing A1450-1032 as per attachment D.1.F and the Engineering Drawings Volume II of the EIS.

D.1.o A fire control system, including water supply

Please refer to section 2.3.2 (Health and Safety- Fire Safety) of the EIS. The fire control system is subject to tender and exact specifications will be provided to the agency at a later stage. The design of the fire pond is shown on drawing A1450-1031 and as per the Engineering Drawings Volume II of the EIS.

D.1.p Civic Amenity facilities

Not Applicable

D.1.q Any other waste recovery infrastructure

Not Applicable

D.1.r Composting Infrastructure (Anaerobic Digestion)

Please refer to section 2.4.3.4 (Processes) of the EIS. The layout and design of infrastructure relating to the anaerobic digestion process are shown on Drawings A1450-1022 to A1450-1030, A1450-1035, A1450- 1036 and as per the Engineering Drawings Volume II of the EIS.

D.1.s Construction and Demolition Waste Infrastructure

Please refer to section 15.13 (Waste Management) of the EIS

D.1.t Incineration Infrastructure (if applicable)

Not Applicable

D.1.u Any other infrastructure

Not Applicable

D.2 Facility Operation

Please refer to Section 2.4.3.4 of the EIS for detailed explanation of the facility operation.

The unit processes at the facility are as follows:

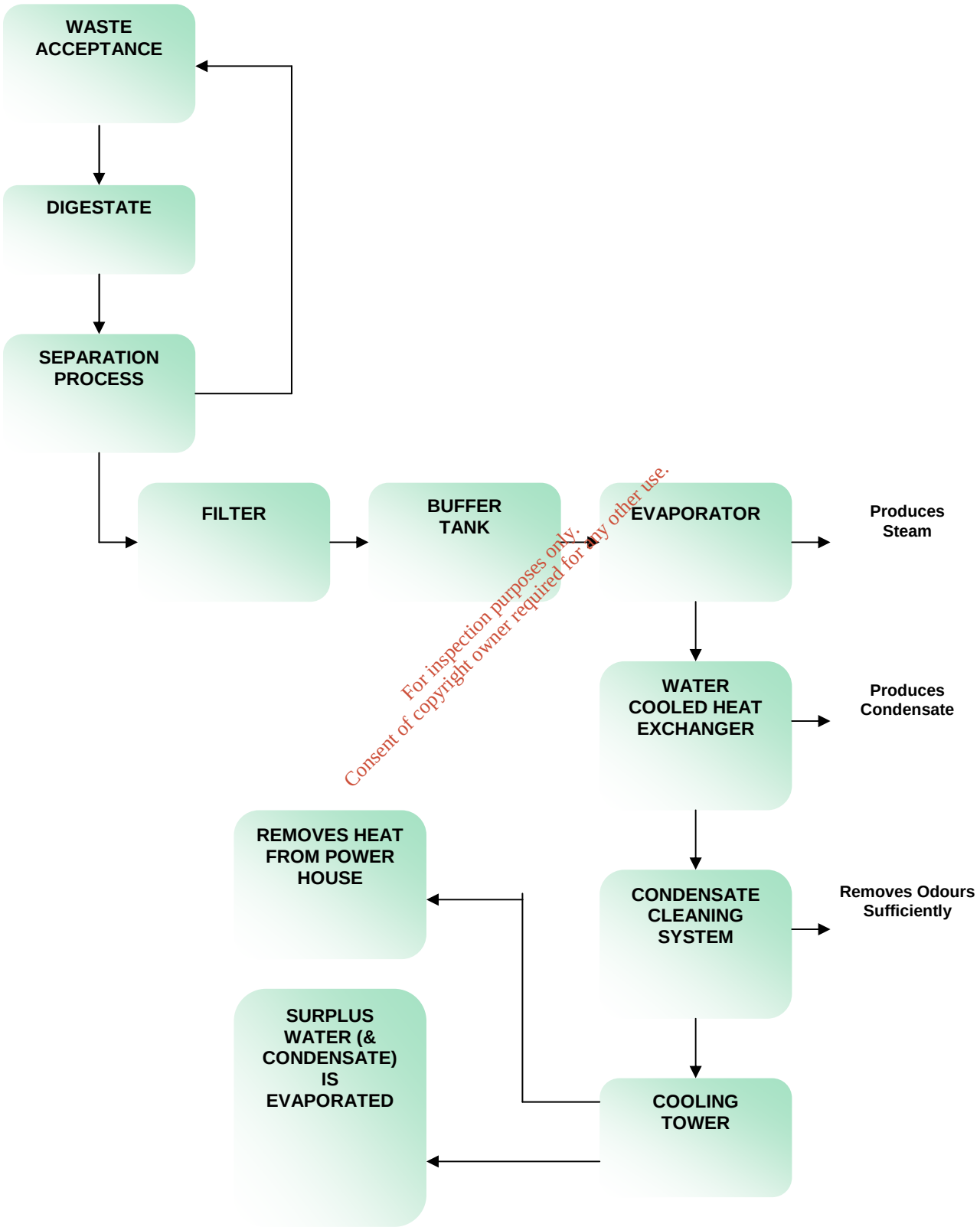
- Waste Acceptance
- Waste Conditioning
- Waste Processing
- Post Process dry storage
- Biogas System
- Power House
- Biofilter and odour control system and
- Water Management System

The flow diagram figure D.2.2 shows the process.

The facility has been designed for continuous operation. There will be no scheduled shutdown period for maintenance/holiday periods. Biogas generation is a continuous process and cannot be stopped in a short time frame. The facility will be equipped with an emergency flare to burn surplus biogas. This will occur only in emergency or abnormal circumstances e.g. maintenance/ repairs of engines etc.

The role of the laboratory will be the assessment of the suitability of the waste for use as a feedstuff for the biogas process. Laboratory staff will review the analytical data from testing conducted at source prior to arrival at the facility. A visual assessment of each load will be conducted and suspect loads will be directed for quarantine. Further confirmation characterisation testing will be carried out on each quarantined waste load. Quarantined wastes will be stored in dedicated inspection/storage tanks within the waste reception building. Waste which fails to meet the waste acceptance criteria will not be accepted into the facility for treatment, and will be returned to the waste producer or dispatched to an alternate facility on their behalf.

Figure D.2.2 Flow diagram showing unit processes



ATTACHMENT E

EMISSIONS

Please refer to Figure E.1 for location of emission points.

E.1 Emissions to Atmosphere

Please refer to section 5.6.2.2.1 (Air Quality- Main Potential Emissions) of the EIS.

E.2 Emissions to Surface Water

Please refer to Section 8 (Surface Water) of the EIS for a detailed explanation of the surface water management systems of the proposed facility

E.3 Emissions to Sewer

There will be no emissions to public sewer at the facility. All site foul waters and their derived sludges, generated by

- site foul drainage,
- biofilter water,
- truck wash water
- and sewage effluent

will be directed to a settlement tank via dedicated systems to include oil interceptors and silt traps. The sludges are pumped once a week to waste reception for processing while the waters are sent to the evaporator/separation unit. Wastes suitable for acceptance to the process will be admitted to the reception tanks. Other wastes will be disposed of off-site to a permitted or licenced facility.

E.4 Emissions to Groundwater

Please refer to Section 9.7 (Groundwater & Hydrogeology – Potential Impacts) of the EIS. There are no direct emissions to groundwater as part of the proposed facilities processes.

E.5 Noise Emissions

Please refer to section 6 (Noise and Vibration) of the EIS for a detailed explanation of the noise emissions relating to the proposed facility.

E.6 Nuisances

There will be no requirement for vermin or bird control measures at the facility. All processes are carried out indoors and as such will not attract potential bird, flies, or other vermin nuisances.

Dust Control measures are detailed in Section 5.6 (Air Quality - Potential and Predicted Impacts) of the EIS.

Fire control measures are detailed in section 2.3.2 (Health and Safety – Fire Safety) of the EIS

The yard will be kept clean as part of the preventative maintenance programme. Litter should not be an issue given the nature of the facility. Any wastes generated by the facility such as canteen wastes will be collected as part of the overall waste management plan for the facility detailed in Section 14.8 of the EIS.

Traffic Control – A full traffic impact assessment is presented in Section 12 of the EIS. A full traffic management plan will be operated on site.

Road Cleansing – The internal roads and hardstanding areas at the facility will be monitored on a daily basis and if required cleaned to remove any significant accumulations of mud or dust.

Wheelwash - A wheelwash will be constructed near the entrance and all trucks entering or exiting the site will pass through the wheelwash. This will aid in preventing silt or mud being brought onto and off the site.

ATTACHMENT F

CONTROL AND MONITORING

F.1 Emissions & Abatement

The abatement and control systems to be employed at the facility for reducing emissions to the relevant media are described in the Sections of the EIS as described below.

Atmosphere:

Please refer to section 5.7 of the EIS for treatment abatement and control systems relating to emissions to atmosphere.

Surface Water:

Please refer to Section 8.5 of the EIS for treatment, abatement and control systems relating to emissions to surface water.

Sewer/Foul Water:

There are no proposed emissions to foul water at the proposed facility

Groundwater:

Please refer to Section 9.8 of the EIS for treatment, abatement and control systems relating to emissions to ground water.

Noise:

Please refer to Section 6.7 of the EIS for treatment, abatement and control systems relating to noise emissions.

F.2 Air

As outlined in section 5 of the EIS, impacts at the proposed facility relating to odour, particulate matter, sulphur dioxide, carbon monoxide, oxides of nitrogen, nitrogen dioxide will have no significant impacts at any sensitive receptors beyond the site boundary or the Special Area of Conservation to the east of the site.

It is proposed that dust monitoring be carried out at 4 boundary locations as per the EIS three times a year at locations.

It is proposed that Stack Monitoring be carried out at the gas engine emission point for particulates, carbon monoxide, sulphur dioxide and oxides of nitrogen on a six-monthly basis.

F.3 Surface Water

As outlined in Section 8.3.2 of the EIS, surface water drainage at the site has been designed with separate systems for road and trafficked area surface run off and storm water.

It is proposed that surface water monitoring be carried out on a quarterly basis or as deemed necessary by the agency. It is proposed that locations be agreed with the Agency post- final engineering design.

F.4 Sewer Discharge

There are no discharges to public sewer from the facility and therefore no sewer monitoring is proposed.

F.5 Groundwater

As outlined in Section 9 of the EIS, there are no direct emissions to groundwater planned as part of the proposed facilities operation. A number of mitigation measures will be put in place to ensure that indirect emissions will be avoided.

It is proposed that groundwater monitoring be carried out on a biannual basis or as deemed necessary by the agency. It is proposed that monitoring be carried out at 3 of the 5 locations drilled for the EIS, one upgradient and two down gradient.

F.6 Noise

As outlined in the noise assessment detailed in Section 6 of the EIS it is envisaged that no adverse impacts will occur as a result of the construction phase of the proposed development. During the operational phase mitigation measures will be put in place to ensure that the noise impacts from the proposed development will be below the EPA guideline values.

It is proposed that day and night time noise monitoring be carried out at 4 boundary locations and 1 sensitive receptor (as per the EIS) on an annual basis or as deemed necessary by the agency.

F.7 Meteorological Data

A Meteorological station will be commissioned at the site and data will be logged and reported as required. Data will be collected for wind strength, wind direction, rainfall, temperature. Any other meteorological data required such as evapotranspiration will be acquired from the nearest Met Eireann weather station.

ATTACHMENT G

RESOURCES USE AND ENERGY EFFICIENCY

G.1 Raw materials, Substances, Preparations and Energy

The proposed raw materials/energy requirements are subject to tenders for plant and equipment at the development and will be supplied to the agency after the tender stage.

G.2 Energy Efficiency

In addition to the net positive energy generated by the proposed facility as described in Section 14.4 of the EIS, usage of energy at the site will be kept to a minimum. The plant manager will be instructed and given incentives to continually strive to achieve improvements in energy efficiency.

Energy efficiencies will be achieved by using modern plant and equipment and servicing the equipment on a scheduled basis. Plant and equipment not in use will be shut off or throttled back to idle where possible.

Bulk oil storage on site will aid in reducing traffic movements to/from the site.

All wastes for export off site will be bulked up at the site and sent in large containers thus reducing energy usage from multiple trips with smaller vehicles.

Temperature control systems on site will include use of thermostats and time controls to reduce excessive use of these systems.

The benefits of updating plant and equipment that are more energy efficient will be continually reviewed.

ATTACHMENT H

MATERIALS HANDLING

H.1 Waste Types and Quantities – Existing & Proposed

See Table H.1(A) in relation to Quantities of waste in relation to each class of activity applied for
See Table H.1(B) in relation to Annual Quantities and Nature of Waste

Following discussions with the agency Table H.1(C) in relation to Waste Types and Quantities has been replaced with the following:

TABLE H.1 (C) WASTE TYPES AND QUANTITIES

WASTE TYPE	TONNES PER ANNUM (proposed)
Organic Fractions of: **Commercial** **Industrial** **Municipal** **Agricultural**	**Up to 250,000 tonnes per year**
Sewage Sludge	**Up to 250,000 tonnes per year**
Industrial Non-Hazardous Sludges	**Up to 250,000 tonnes per year**
Oils Fats & Greases (non mineral oil)	**Up to 80,000 tonnes per year**
Animal By Products to include non hazardous MBM	**Up to 150,000 tonnes per year**
Any other wastes deemed suitable for Anaerobic Digestion	**Up to 250,000 tonnes per year**

H.2 Waste Acceptance Procedures

Please refer to Section 2.4.3.4 of the EIS.

H.3 Waste Handling

Please refer to Section 2.4.3.4 of the EIS.

H.4 Waste Arisings

It is envisaged that minor amounts of wastes may arise at the site from time to time including:

Domestic Waste,
Waste Oils/Oil Filters,
Laboratory Chemicals.

It is proposed that these wastes will be collected in dedicated storage areas and disposed of by Greenstar Ltd or collected by a permitted operator and transferred to a licensed or permitted facility. A full list of waste arisings will be refined and detailed in the first Annual Environmental Report for the Facility.

ATTACHMENT I

EXISTING ENVIRONMENT AND IMPACT OF THE FACILITY

I.1 Assessment of Atmospheric Emissions

Please refer to Section 5 of the EIS.

I.2 Assessment of Impact on Receiving Surface Water

Please refer to Section 8 of the EIS.

I.3 Assessment of Impact of Sewage Discharge

There will be no sewage discharge at the facility as described in Section 8.3.1 of the EIS.

I.4 Assessment of Impact of ground/groundwater emissions

See Section 9 of the EIS.

I.5 Ground and/or Groundwater Contamination

There are no proposed emissions to ground/groundwater as part of the proposed facilities processes. A full hydrogeological assessment of the proposed facility is presented in Section 9.1-9.6.

Historical operations at the site have been cleaned up to the satisfaction of Cork County Council

I.6 Noise Impact

Please refer to Section 6 of the EIS.

I.7 Assessment of Ecological Impacts and Mitigation Measures

Please refer to Section 10 of the EIS.

ATTACHMENT J

ACCIDENT PREVENTION AND EMERGENCY RESPONSE

J Accident Prevention and Emergency Response

The facility detailed engineering contract will be awarded after planning through a competitive tender process. The award of this contract will consider operability, safety and environmental management amongst it's criteria.

The management systems to be employed by Valeco Ltd will support the safety and environmental management of the site and Valeco intend to adopt appropriate preventative maintenance programmes in line with the suppliers recommendations.

The Emergency Response Procedure which will be prepared prior to operations commencing will incorporate a full accident prevention policy which will be developed through communication with the relevant bodies.

ATTACHMENT K

REMEDIATION, DECOMMISSIONING, RESTORATION AND AFTERCARE

K Remediation, Decommissioning, Restoration and Aftercare

Please refer to section 2.4.4 of the EIS.

ATTACHMENT L
STATUTORY REQUIREMENTS

L.1 Section 40(4) WMA

L.1.1 Compliance with Emissions

Dust

There are no National or EU standards for dust deposition. By law the plant will be required to be in compliance with Air Pollution Act, 1987 and should meet the EPA recommendation of 350 mg/m^2/day. Dust emissions are not expected to pose a problem at the facility as the processing operation will be carried out inside the processing buildings with various dust control systems. Regular yard cleaning will be carried out and a wheel/truckwash is planned for the facility as part of the preventative maintenance programme.

Odours

A comprehensive odour control system has been incorporated into the design of all aspects of the waste facility. Alll buildings where odours could possibly be generated will be operated under a negative air pressure and the collected air will be directed to an air preparation unit for stripping ammonia and finally to a biofilter for treatment. There are no National or EU standards for odour emissions. The site manager and staff operatives will perceive odours on an ongoing basis and a complaints register will be set up in the office. A staff member will carry out a daily walkabout and note odours or other deficiencies. In the event of receiving complaints from neighbouring premises or residents with regard to odours, details will be taken on a complaint form and appropriate remedial action will be taken to reduce odour emissions and this action will have regard to the principles of BAT.

Noise

There are no legal limits currently in place for noise emissions from industry. The EPA have set a day-time guideline for L_{Aeq} of 55 dB(A) and a nighttime level of 45 dB(A) at sensitive locations for other similar developments. As all waste processing occurs indoors at the plant this will reduce noise emissions from the facility.

Water

As there are no proposals for any direct emissions to ground/groundwater as part of the proposed facilities operation the risk to groundwater posed by the activities at the site is considered low. Groundwater monitoring will be carried out as requested by the agency. Processing and storing

all waste inside a fully contained building will serve to eliminate potential leachate generation from rainfall. Any soiled water generated from floor wash down or sewage from toilet facilities will be contained within the building, collected to the contained underground sumps and directed back to the waste acceptance area for use in the process. This system will ensure minimal impact on local groundwater from the facility.

Surface water is dealt with in two main streams. All road and trafficked area surface water run-off from the yard will be directed to a petrol interceptor prior to discharge to a collection point. Collection storage areas have been designed to attenuate a 1 in 30 year storm return period. All other drainage will be directed to the storage tanks directly.

A second drainage network will direct storm water flow to a reinforced concrete storage tank which doubles up as a pumping station to pump flow forward to a stormtech storage area for controlled release to the surrounding watercourses. Flow will be restricted to 7 l/s using a hydroslide. These systems will ensure no impact from silt or hydrocarbons on the receiving streams and prevent the potential for flooding in the stream.

L.1.2 Environmental Pollution

The design and operating practices that ensures that environmental pollution is avoided are listed below.

Risk to Waters is avoided by:

- All oils/fuels will be double contained or stored in bunds. Therefore any leakage or spillages from the oil tanks will be contained within the bund. All refuelling or oiling of vehicles or site machinery will be carried out in a specially constructed and ramped bund. Therefore any leakages associated with refuelling will be contained.

- Clean surface water will discharge directly to the storm water attenuation tanks. All road and trafficked area drainage will be collected and passed through an interceptor prior to discharge to the storm water attenuation tanks. The attenuation tanks incorporate a hydroslide and will regulate the rate of outfall from the tanks to the receiving stream..

- All waste materials will be handled in a covered building with contained concrete floors.

- Any foul water generated from the facility will be collected to the contained underground sumps and directed back to the waste acceptance area for use in the process.

Risk to the Atmosphere is avoided by:

Mitigation measures as set out in Section 5.7 of the EIS.

- The yard will be cleaned on a regular basis.

- A wheelwash will be installed near the entrance and all trucks will be required to pass through the wheelwash when entering or exiting the site.

Risk to Land, Soil, Plants or Animals is avoided by:

- Risk to land and soil beneath the site is avoided by the same controls that avoid risk to Waters as described above.

- Risk to plants and animals are avoided by location of the development removed from areas of particular ecological importance. The flora and fauna in the vicinity of the site are not considered sensitive to the site activities.

Nuisance through Noise or Litter is avoided by:

- An objective of the EMS for the facility will be that all activities at the facility will be carried out in a manner which will avoid nuisance generation. All wastes will be handled in contained buildings and vehicles.

- Machinery and plant on site will be modern and serviced on a regular basis. Any plant not in use will be switched off or throttled back to idle speed.

Adverse effects on the country side or places of interest are avoided by:

- The site is not located in any environmentally designated area. The operation of the facility will be such that impacts on the surrounding countryside to include visual, noise, air, groundwater and surface water will be minimised by the appropriate mitigation measures. Operating the site with adequate environmental controls will ensure no impact on the

surrounding environment.

L.1.3 - Best Available Technology (BAT)

The principle of employing BAT will be applied at the Valeco facility in respect to emissions as follows.

Valeco propose to employ “state of the science” modern management practices and will continue to commit financial resources in order to control all nuisance emissions and ensure protection of the environment. Proposed management practices will ensure that all plant and equipment are fully serviced and operational, transporting waste within covered vehicles, regularly cleaning site surfaces and regularly patrolling for litter.

A full preventative maintenance programme will be employed as part of the facility management system.

The proposed plant to be used on site will consist of state of the art equipment and will be examples of the best available technology for such facilities.

Specialist consultants will be retained as required to monitor potential nuisances and all relevant environmental media set out by the EPA. The consultants will inform the company on a regular basis of improvements in pollution abatement or other relevant technology.

L.2 Fit and Proper Person

L.2.1 Compliance with relevant Acts

Valeco or the company directors have never been convicted of any offences 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.

L.2.2 Technical Competence

Valeco Limited, the applicant company, is a wholly owned subsidiary of Greenstar which has a long history in the provision of state of the art waste infrastructure to the Irish market. Greenstar

has invested over €170m in facilities in Ireland since 1999 and intends to invest a further €300m over the next four years (2006-2010) both in solid waste, public private partnerships (PPP) and bio-energy assets.

Greenstar is recognised as Ireland's leading provider of integrated waste management solutions providing services and infrastructure at each level of the waste management hierarchy. The companys business development spans a range of services that includes education, research, composting, anaerobic digestion, recycling, materials recovery and the development of facilities for the safe disposal of waste that cannot be reused recycled or recovered. The company have demonstrated their technical competence and site management through their continued involvement in these sectors, the quality of their plant technology and processes and the testament of their clients whom they have served over the years.

The management team will be composed of experienced personnel who have spent many years in this sector of the waste industry. The general manager will be responsible for all environmental aspects of the operation and in particular compliance with the waste licence. He will be assisted by an environmental/EHS officer whose duties will include compilation of environmental data and meeting the requirements of the waste licence. The general manager and the environmental officer will be suitably qualified to include completion of the FAS course for waste facility management. Details of the personnel to be employed at the proposed facility will be forwarded to the agency when finalised by the company.

Table L.2.1 Key Staff at Valeco Facility.

Position	**Responsibilities**	**Experience/Qualifications**
General Manager	Overall management of Facility	8-15 years in similar industry. Knowledge of process engineering and site management. EMS Management Experience. 3rd Level Qualification in Engineering/Science
Operations Supervisor	Management of on-site and laboratory operations	5-10 years in similar industry. Awareness of EMS, technical qualification or 3rd Level in Engineering/Science or equivalent
Financial Controller	Management of all finance, I.T. and administration	5+ years experience Financial/Administration qualifications 3rd Level Qualification preferred
Environmental/EHS Officer	Environmental Management & License Compliance, AER preparation, Liaison with regulatory bodies	3-5+ years experience of EMS Management. Knowledge of Waste Management Licence compliance. Health and Safety Management, Suitably Qualified to third level
Plant Supervisor	Preventative Maintenance & management of all plant & related items	8-10+ years of plant related experience. Knowledge of Environmental Compliance
General Operatives	Weighbridge, General Yard work	Leaving Certificate or Equivalent. Ability to undertand process and site-rules.

L.2.3 Financial information

Valeco Ltd has not yet traded but is a wholly owned subsidiary of Greenstar Ltd. The abridged financial accounts for Greenstar are enclosed. The company wishes to have these accounts held as confidential information.

Project Vale
Ownership/Site Location Plan

Figure No. 3	Job No. CE03690	Date. June 2006
	Finalised By - D McD	

White Young Green

Site Boundary

Overall Landownership

Muchnagh Stream

Curraghanolomer

N

LEGEND

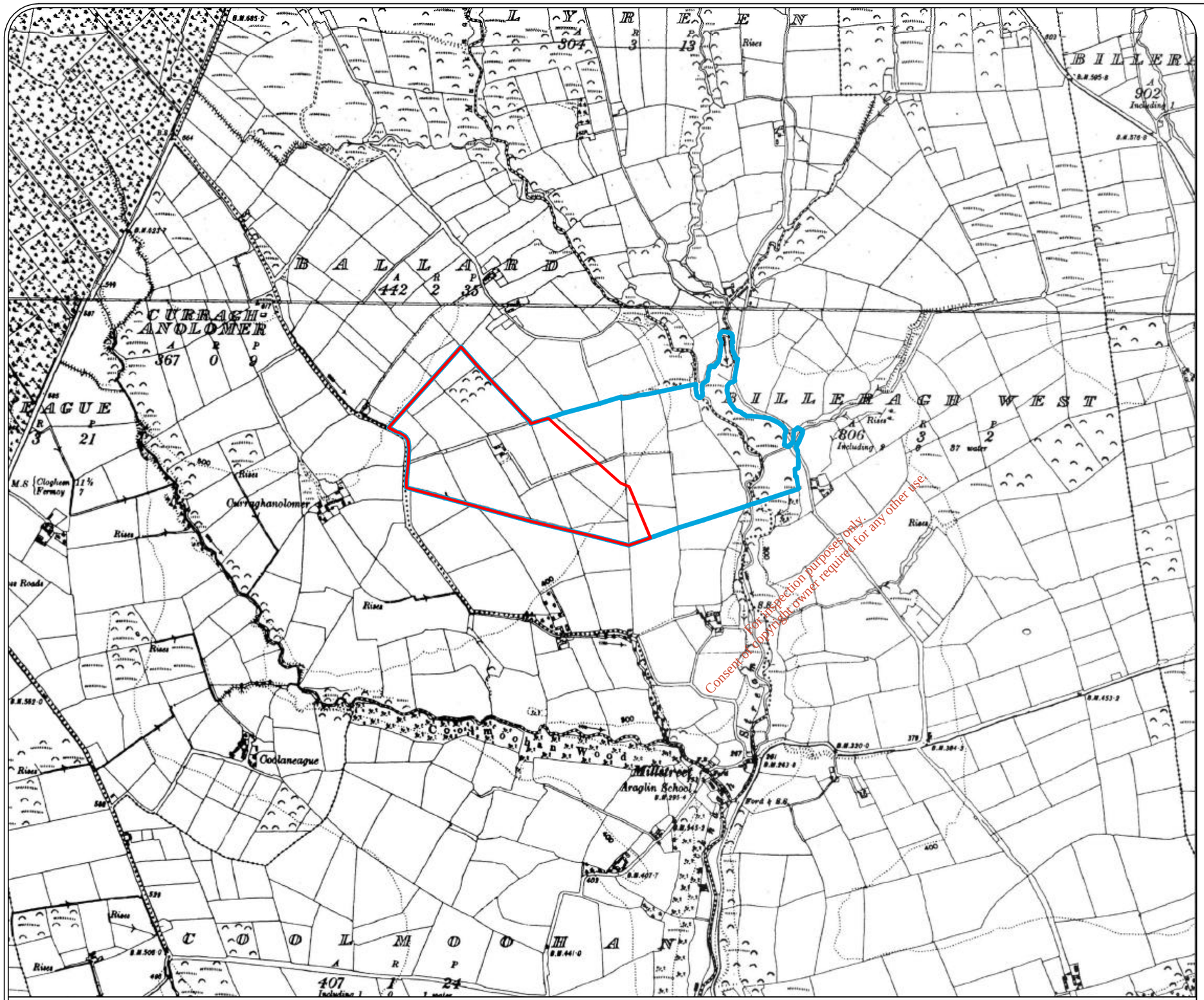
Site Boundary

Land Ownership Boundary

Scale 1:2500 Approx

NOTE: Drawing is for diagrammatic purposes only. No measurements to be taken.

McCutcheon Mulcahy
CHARTERED PLANNING CONSULTANTS



Legend :

- Site Boundary
- Lands in Applicant's ownership

Title Ballard

Site Location Map I

scale	1 : 10560	date	16/02/06
O.S. map	6 inch	draw. no.	190-01
TY089 CK020+02 CK028+02		version	1.1
Ordnance Survey Licence No. :		drawn	T.L.
EN0005406		checked	Y.D.

Project

Lands at Ballard,
Araglin, Co. Cork.

Client

Valeco Limited

Prepared by

McCutcheon Mulcahy
CHARTERED PLANNING CONSULTANTS

2/3 Crawford Business Park
Proby's Quay
Cork
Ireland

Tel : +353 (0)21 431 3712
Fax: +353 (0)21 432 8008
Email: info@mcmplanning.com

Project Vale
Site Notice Location Map

Figure No. 4	Job No. CE03690	Date. June 2006
	Finalised By - D McD	

White Young Green

Site Boundary

Overall Landownership

Site Notice Location

Muchnagh Stream

Curraghanolomer

N

LEGEND
- Site Boundary
- Land Ownership Boundary

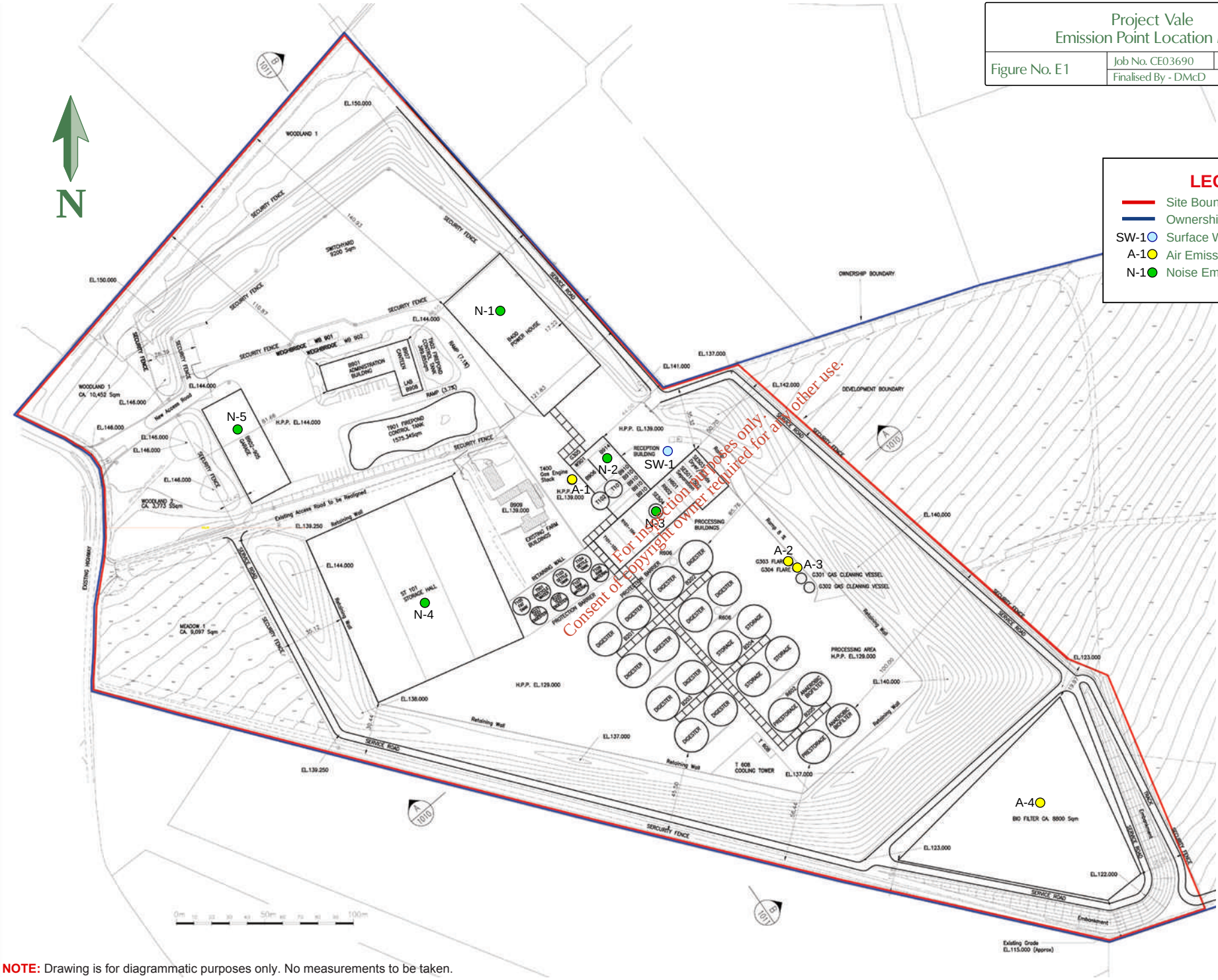
NOTE: Drawing is for diagrammatic purposes only. No measurements to be taken.

McCutcheon Mulcahy
CHARTERED PLANNING CONSULTANTS

Project Vale
Emission Point Location Map

Figure No. E1	Job No. CE03690	Date. June 2006
	Finalised By - DMcD	

White Young Green



NOTE: Drawing is for diagrammatic purposes only. No measurements to be taken.

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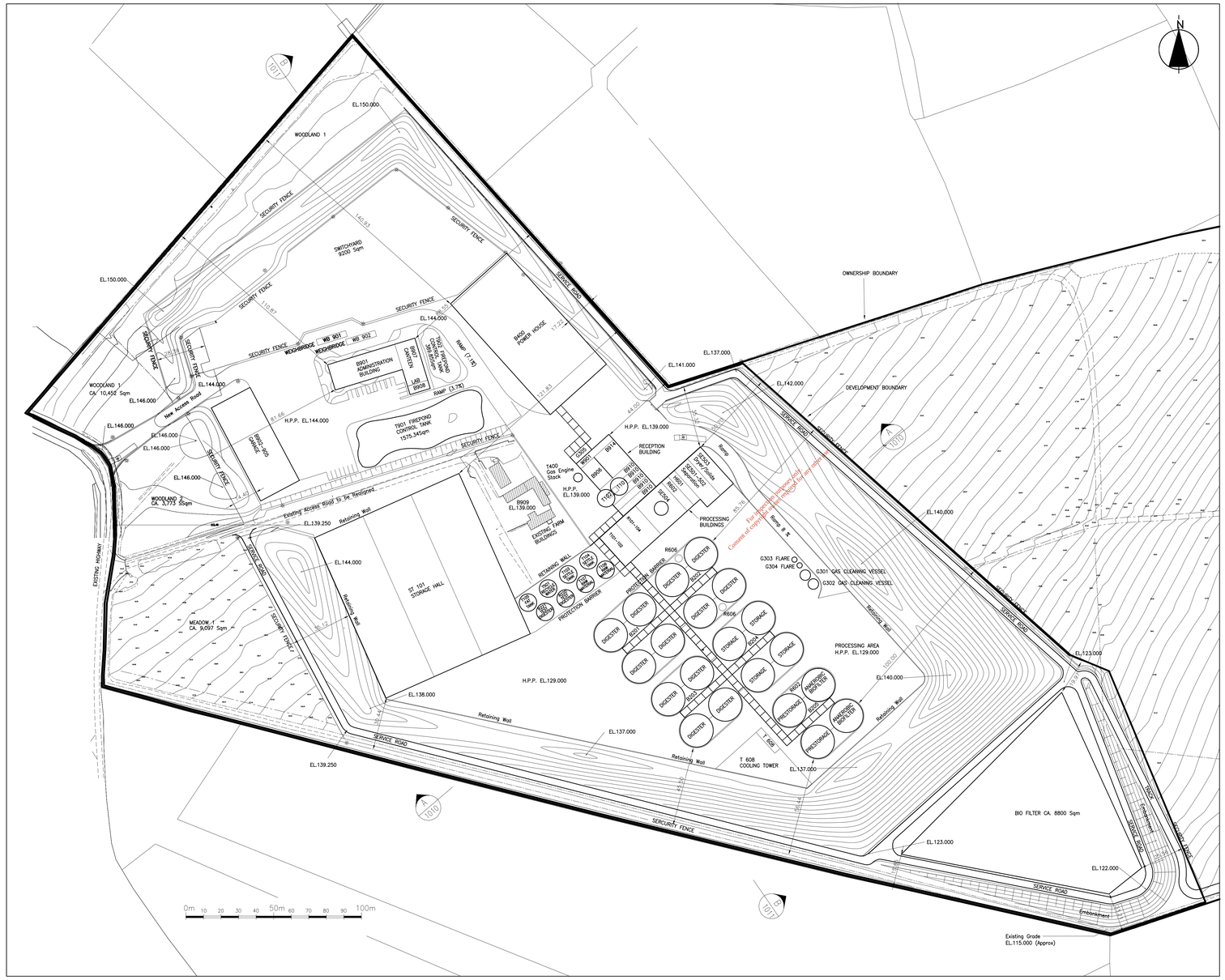

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING No. 109035-A1450-1001.
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755.
3. DISTANCES IN (IN METRES) FROM THE MAIN BUILDINGS AND MAJOR EQUIPMENT TO THE FACILITY BOUNDARY ARE SHOWN ON THIS DRAWING.
4. THIS DRAWING IS FOR INFORMATION PURPOSES ONLY.

BUILDINGS AND EQUIPMENT

NUMBER	DESCRIPTION
B201-205	PUMPS & HEAT EXCHANGERS
B400	POWER HOUSE
B901	ADMINISTRATION BUILDING
B902-905	GARAGE
B906	WORKSHOP
B907	CANTEEN
B908	LABORATORY
B909	EXISTING BUILDINGS
B910	RECEPTION BUILDINGS
B914	BOILER HOUSE
G301-G302	GAS CLEANING VESSELS
G303-G304	FLARES
G305	BIOGAS FUEL TREATMENT/METERING
H601	EVAPORATION - SEPARATION
R101-104	TPH REACTOR
R602	CONDENSATE TREATMENT
SE501-502	SEPARATION
SE503	BAND DRYER
SE504	DRYER PELLETIZER
ST101	STORAGE HALL
T101-102	RECEPTION TANKS
W901	TRUCK WASH
WB901-WB902	WEIGHBRIDGES

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England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
C		APB	UPDATED FOR PLANNING APPROVAL			
B	25/04/06	APB	UPDATED FOR PLANNING APPROVAL	PJP	PJP	GF
A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT: GREENSTAR

TITLE: VALE PROJECT
ARCHITECTURAL VIEWS
NEW FACILTY PLOT PLAN

SCALE: 1:1000

JOB No. 109035

Shaw Stone & Webster Limited

S & W DRG. No. 109035-A1450-1019

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		C

LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION ATTACHMENT - D.1.A

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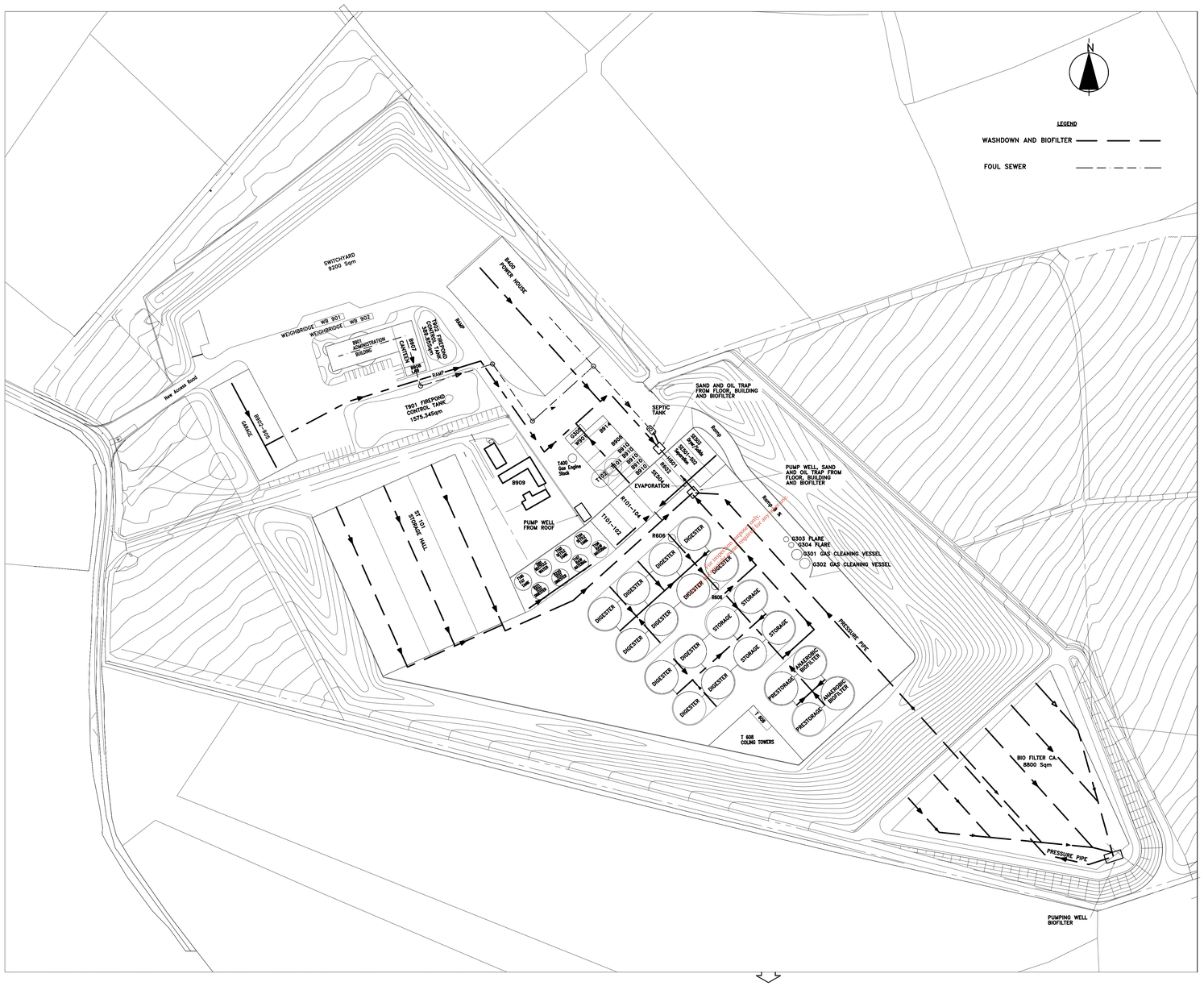

GENERAL NOTES

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WASTE LICENCE APPLICATION ATTACHMENT - D.1.C

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ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
C		APB	UPDATED FOR PLANNING APPROVAL			
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A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT: GREENSTAR

TITLE:
VALE PROJECT
DRAINAGE LAYOUT
WASHDOWN, FOUL AND BIOFILTER

SCALE: 1:1000

JOB No. 109035

Shaw® Stone & Webster Limited

S & W DRG. No. 109035-A1450-1020

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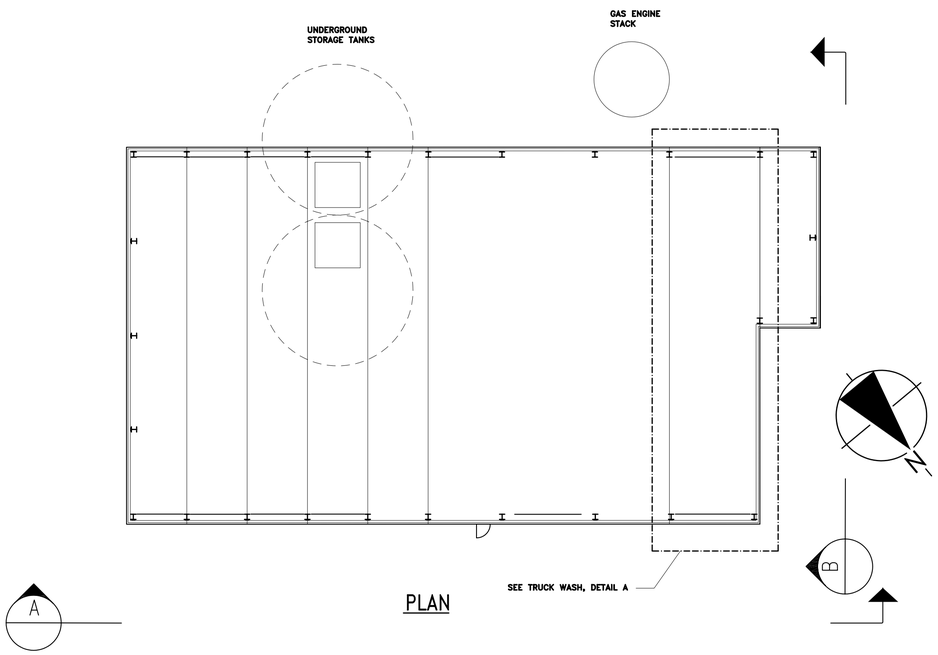

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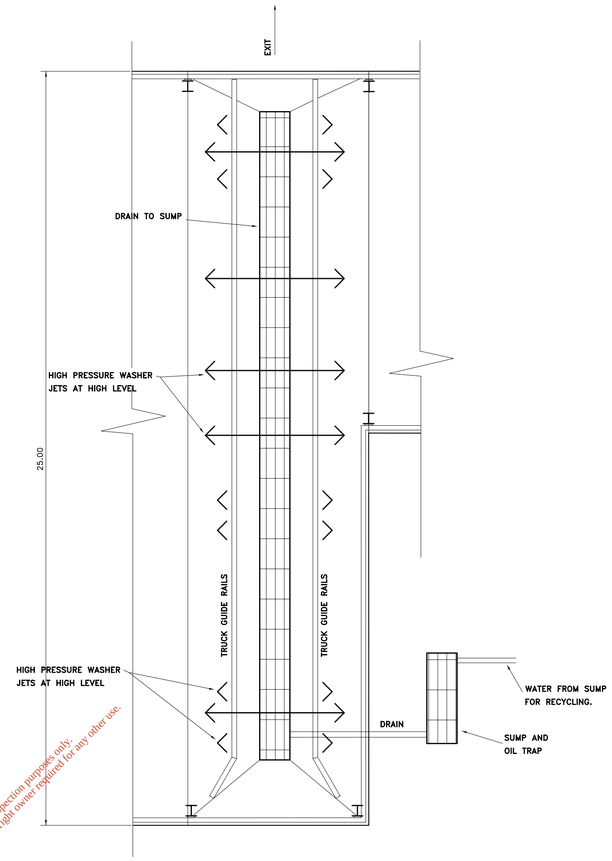
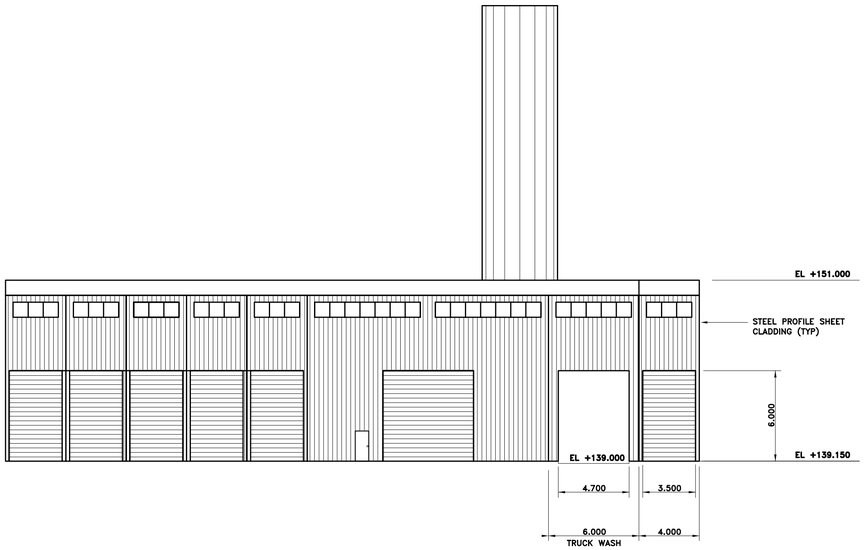


TRUCK WASH DETAIL A
1:100



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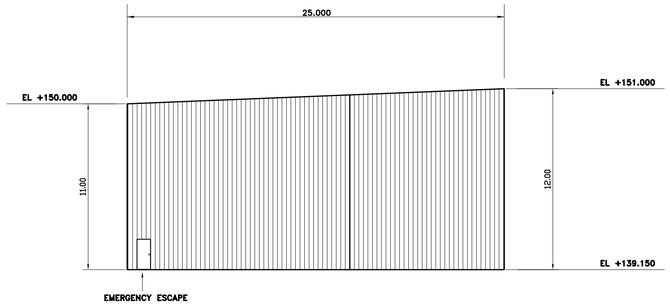

ELEVATION B

GENERAL NOTES

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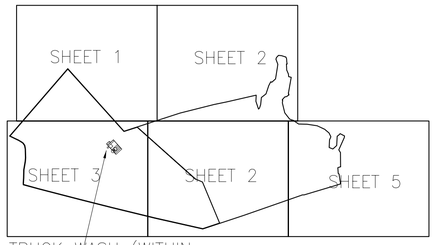
3. DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

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TITLE

VALE PROJECT
PLAN AND ELEVATIONS
TRUCK WASH

SCALE 1:200
DO NOT SCALE PRINT

JOB No. 109035

Shaw™ Stone & Webster Limited

S & W DRG. No. 109035-A1450-1034

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		A

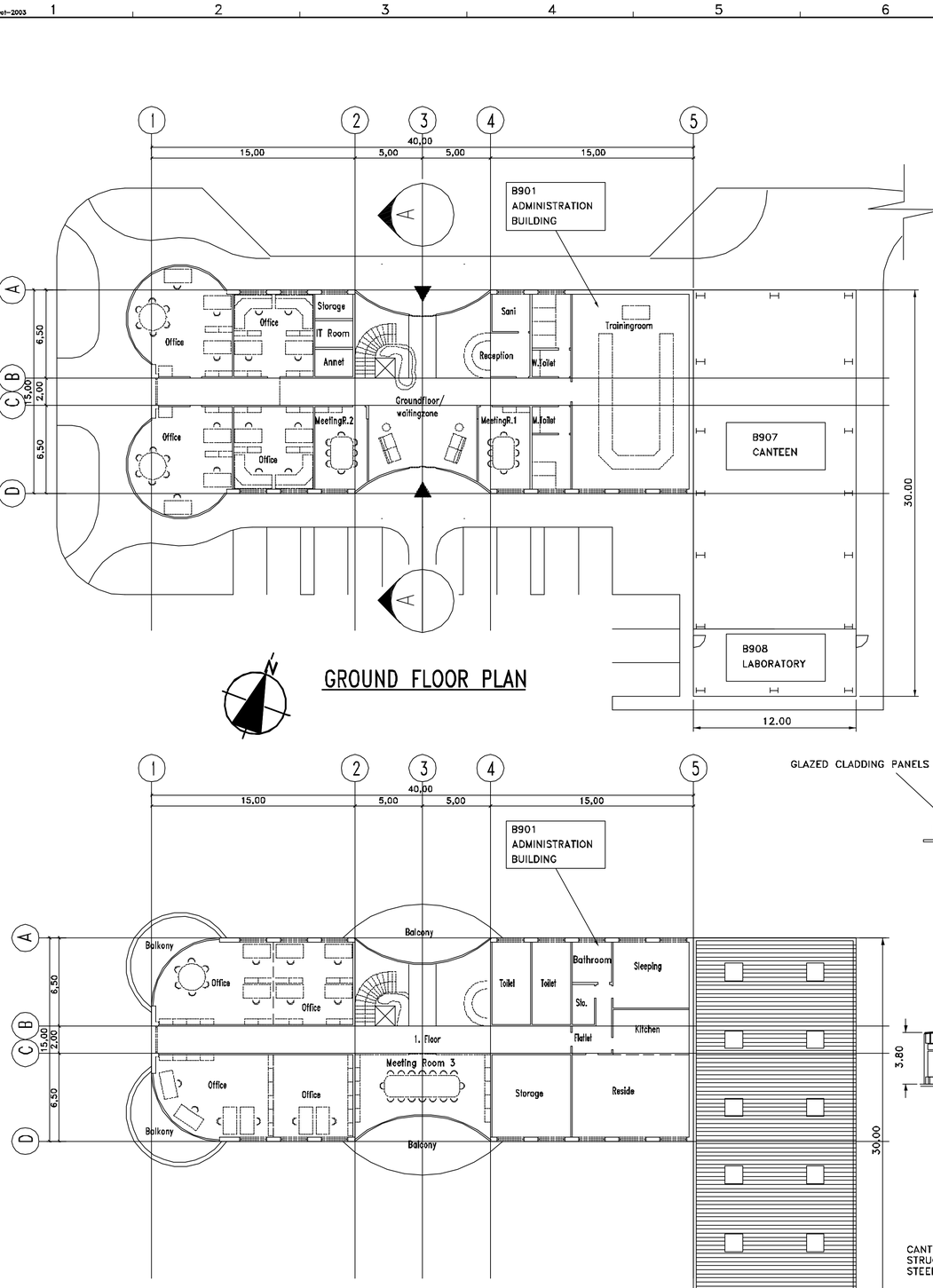
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION ATTACHMENT - D.1.E

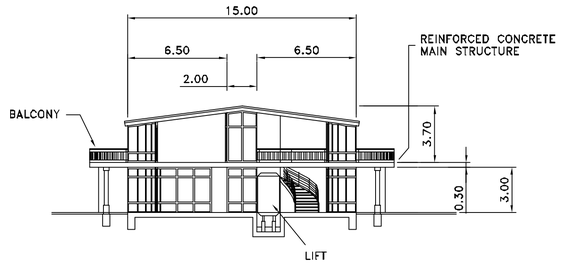
A1 (841 x 594) NOT TO BE MANUALLY ALTERED

ba1.dgn Oct-2003

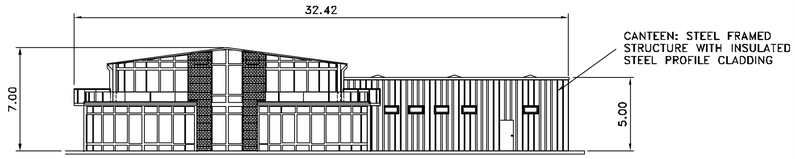
GROUND FLOOR PLAN



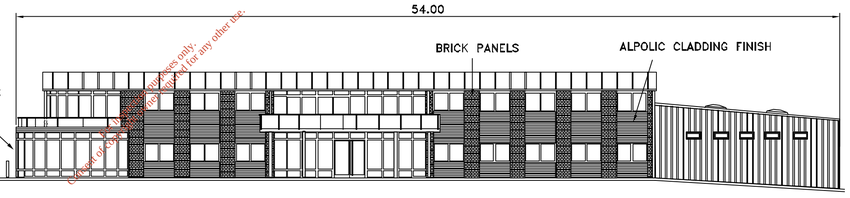
FIRST FLOOR PLAN



SECTION A



WEST ELEVATION



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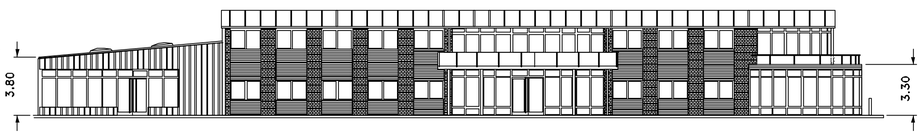

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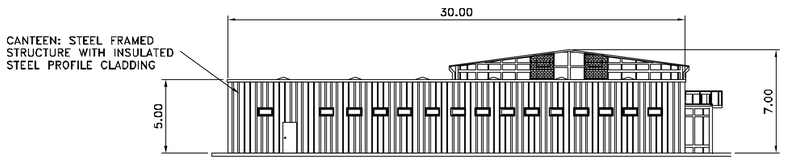
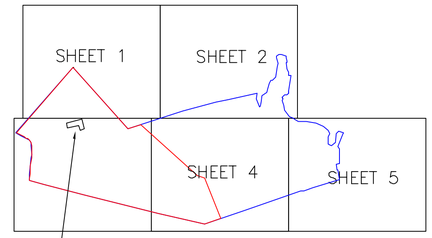


EAST ELEVATION

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING No. 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. ALL DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

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A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT

GREENSTAR

TITLE

VALE PROJECT
SECTION AND ELEVATIONS
ADMINISTRATION BUILDING/CANTEEN

SCALE: 1:200

JOB No. 109035

Shaw Stone & Webster Limited

S & W DRG. No. 109035-A1450-1032

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

LAST REV. DATE:
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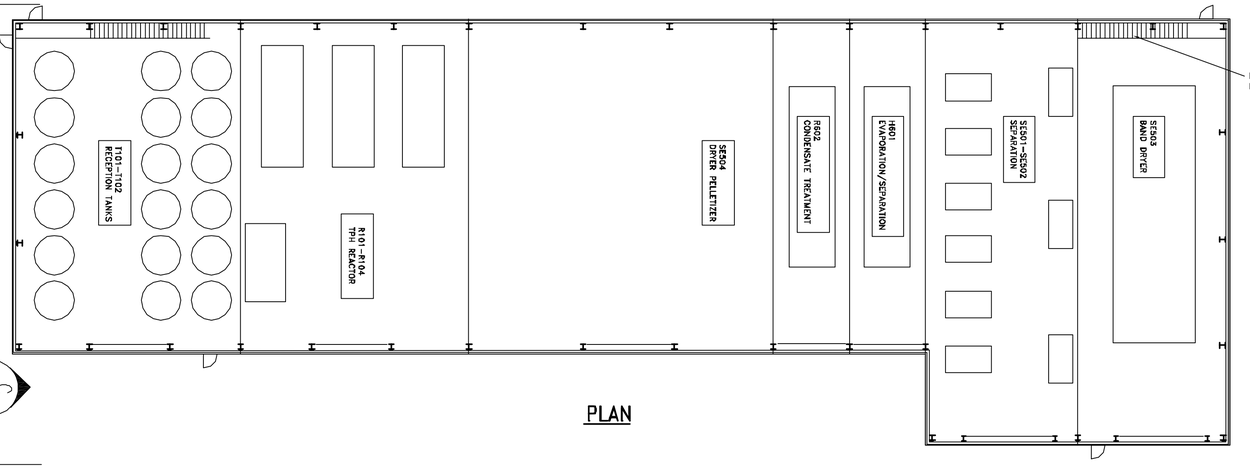
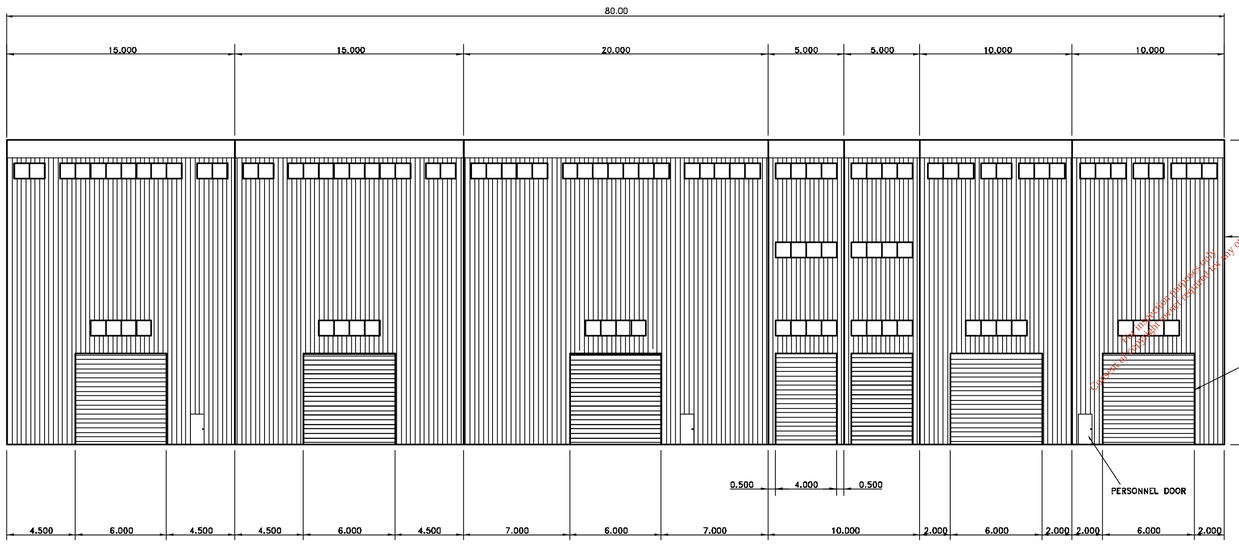
WASTE LICENCE APPLICATION ATTACHMENT - D.1.F

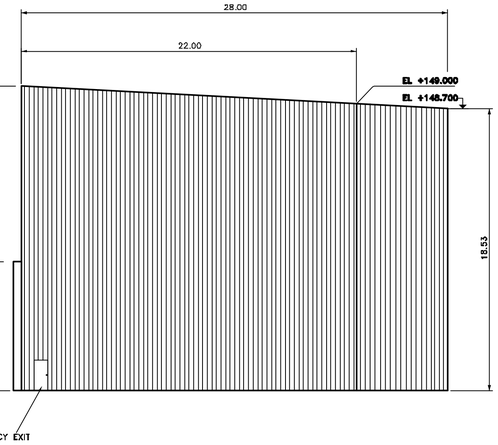
bal.dgn Oct-2003



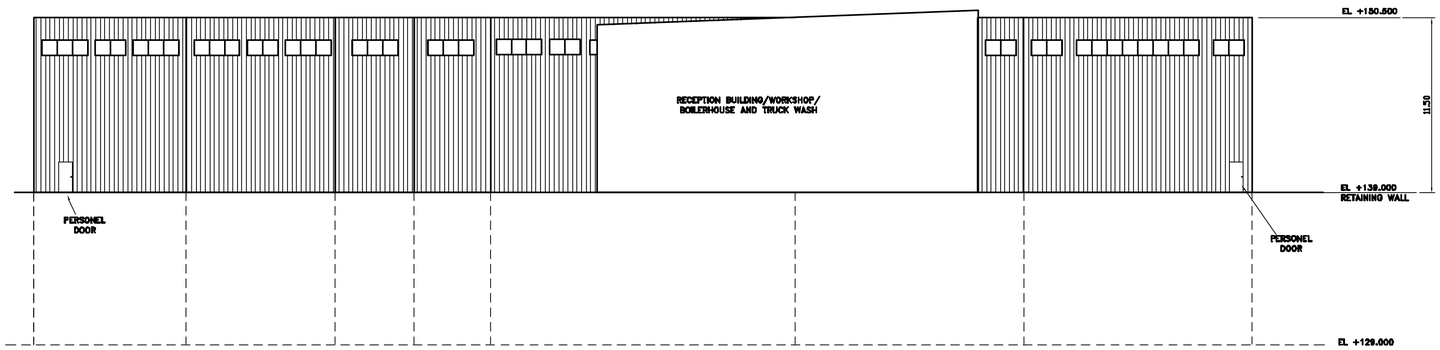
PLAN



ELEVATION A



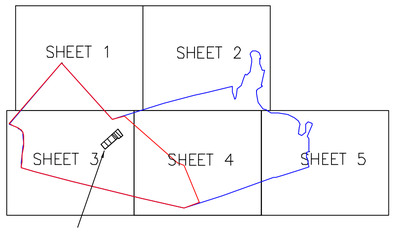
ELEVATION C



ELEVATION B

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500–600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
B		APB	UPDATED FOR PLANNING APPROVAL			
A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT

GREENSTAR

TITLE

VALE PROJECT
PLAN, AND ELEVATIONS
PROCESSING BUILDINGS

SCALE: 1:200

JOB No. 109035

Shaw Stone & Webster Limited

S & W DRG. No. 109035-A1450-1027

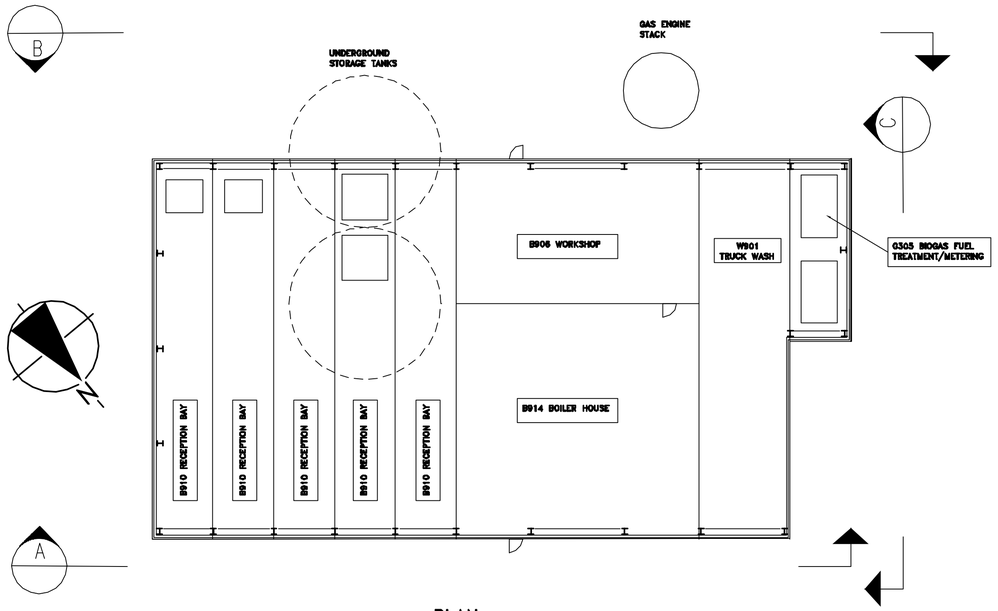
WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

LAST REV. DATE:
FILESPEC:

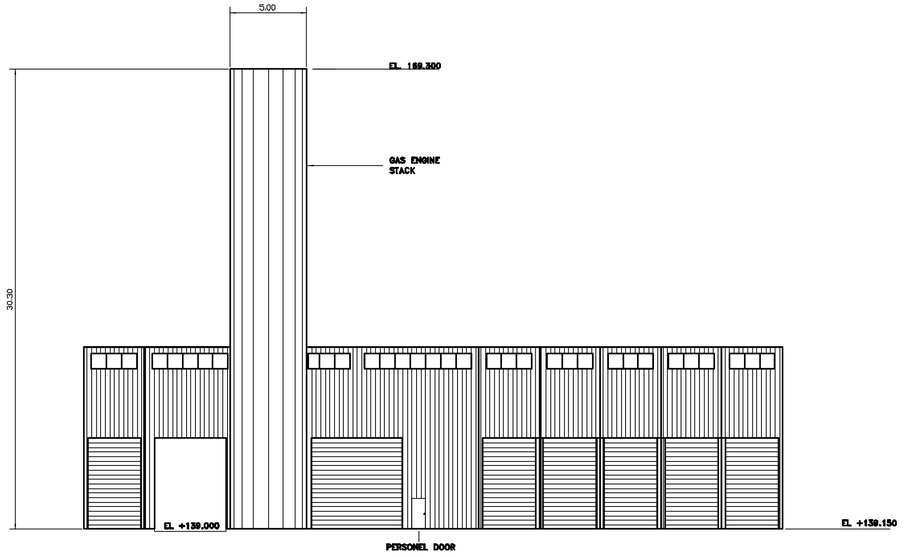
WASTE LICENCE APPLICATION ATTACHMENT - D.1.H

DO NOT MANUALLY ALTER OR SCALE PRINT

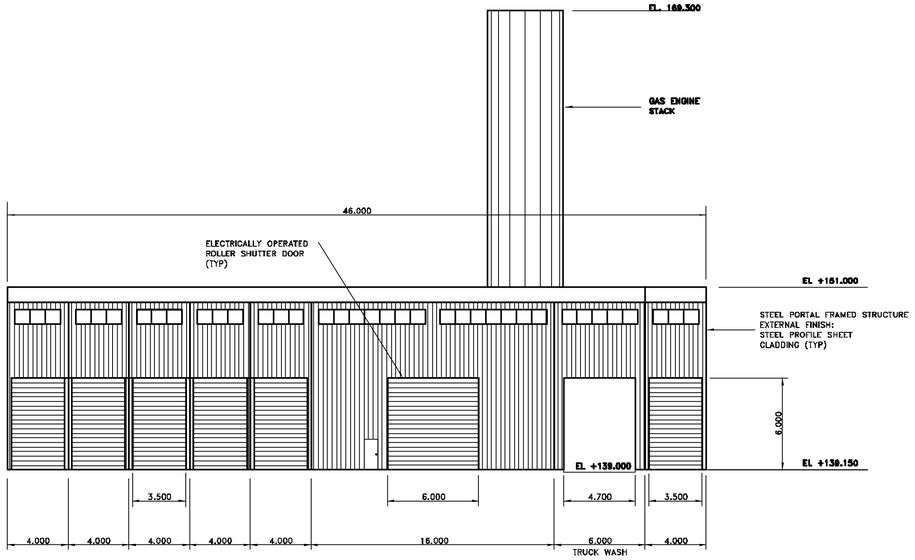
A1 (841 x 594)



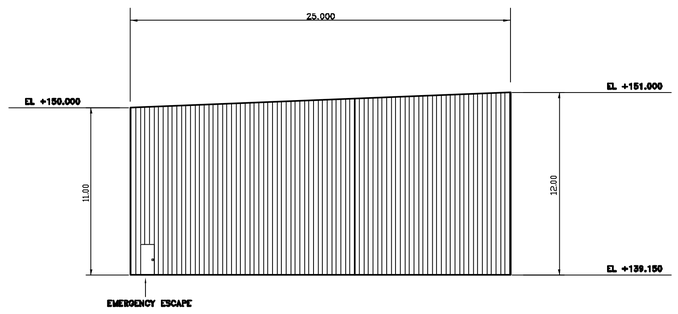
PLAN



ELEVATION B



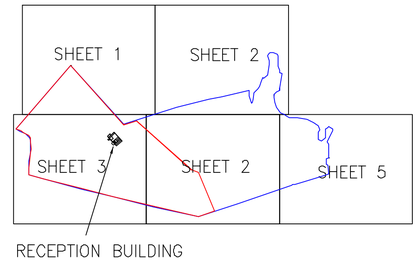
ELEVATION A



ELEVATION C

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500–600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	DRAWN BY	DESCRIPTION OF ISSUE	PREP'D	CHKD	APPD
B		APB	UPDATED FOR PLANNING APPROVAL			
A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT

GREENSTAR

TITLE

VALE PROJECT
PLAN AND ELEVATIONS, RECEPTION BUILDING AND GAS ENGINE STACK

SCALE 1:200
DO NOT SCALE PRINT

JOB No. 109035

Shaw™ Stone & Webster Limited

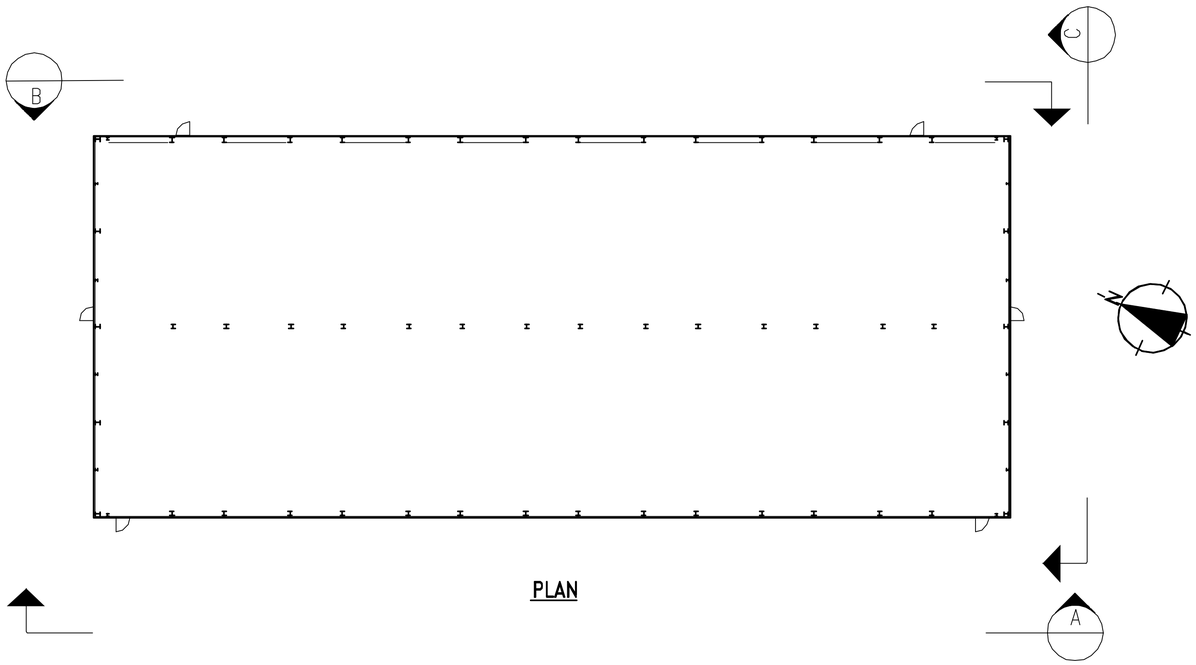
S & W DRG. No. 109035-A1450-1028

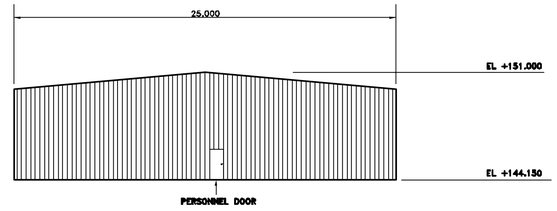
WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

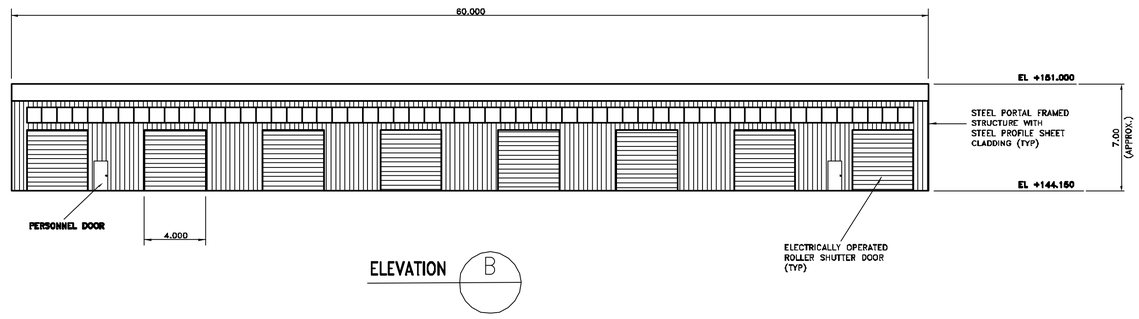
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION - D.1.M

A1 (841 x 594) NOT TO BE MANUALLY ALTERED

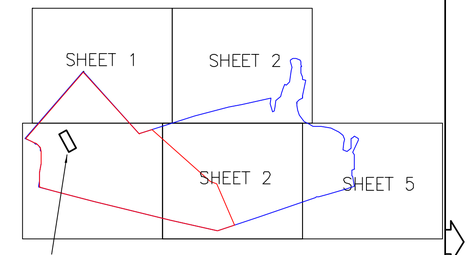






GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING No. 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. ALL DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500–600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	DRAWN BY	DESCRIPTION OF ISSUE	PREP'D	CHKD	APPD
B		APB	UPDATED FOR PLANNING APPROVAL			
A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT

GREENSTAR

TITLE

VALE PROJECT
ELEVATIONS AND PLAN
GARAGE

SCALE 1:200
DO NOT SCALE PRINT

JOB No. 109035

Shaw Stone & Webster Limited

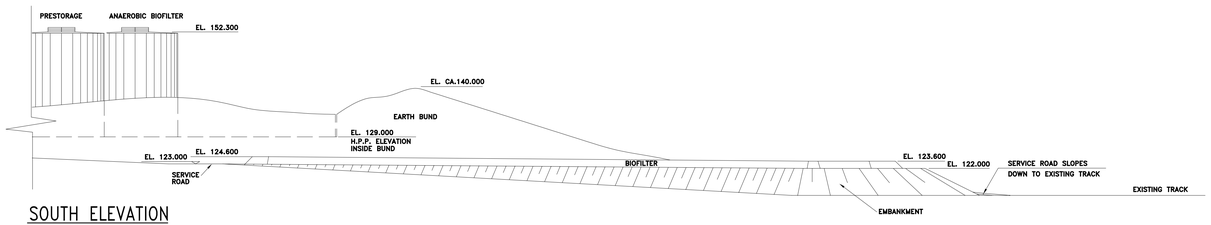
S & W DRG. No. 109035-A1450-1033

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

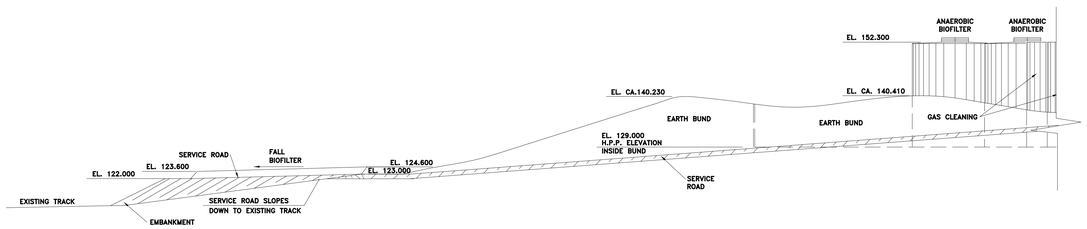
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION ATTACHMENT - D.1.M

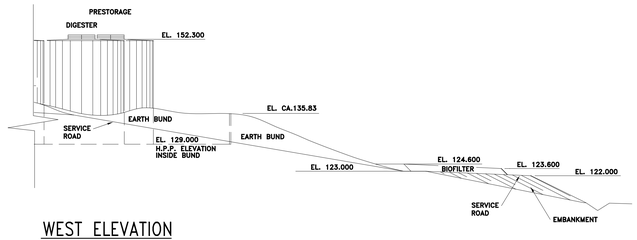
A1 (841 x 594) NOT TO BE MANUALLY ALTERED



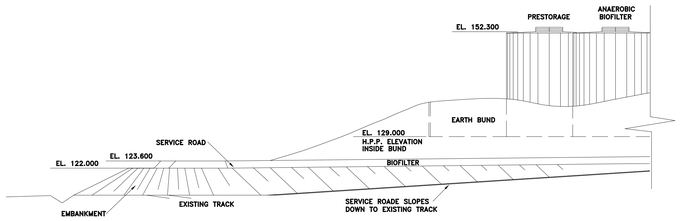
SOUTH ELEVATION



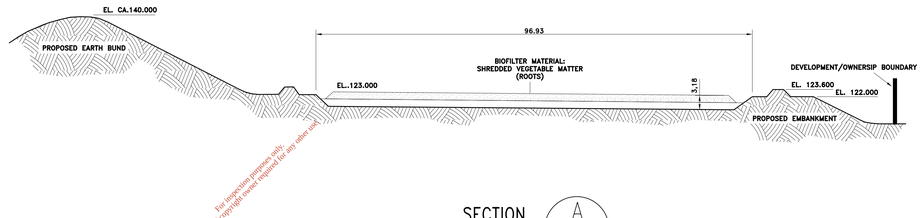
NORTH ELEVATION



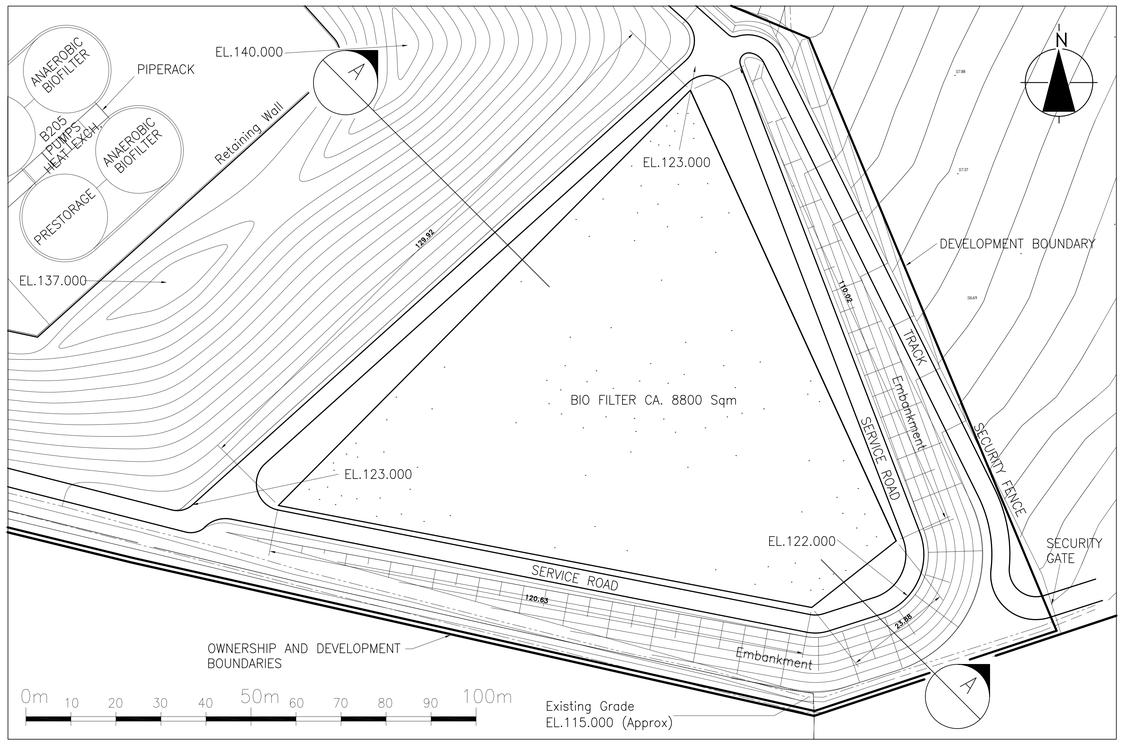
WEST ELEVATION



EAST ELEVATION

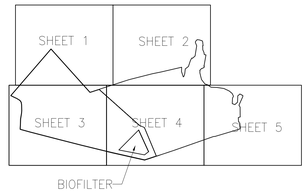


SECTION A



GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500-600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
A		RMBS	FOR PLANNING APPROVAL			

CLIENT: GREENSTAR

TITLE: VALE PROJECT
PLAN, SECTION, ELEVATIONS
OF BIOFILTER

SCALE: 1:500

JOB No. 109035

Shaw Stone & Webster Limited

S & W DRG. No. 109035-A1450-1022

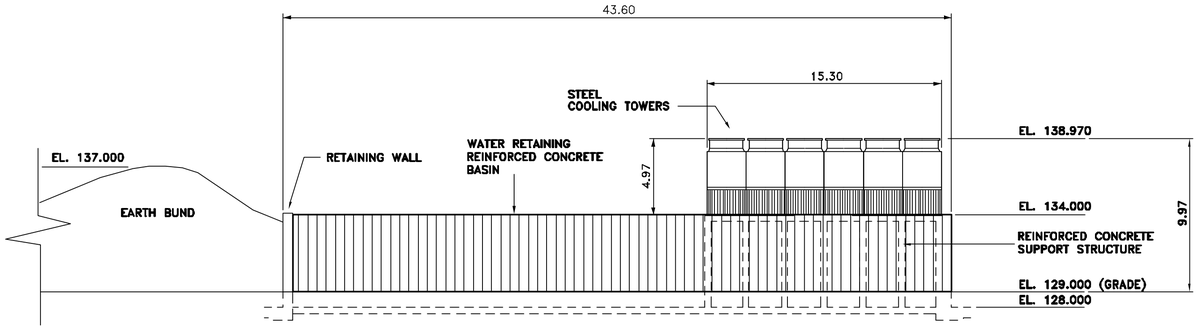
WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		A

LAST REV. DATE:
FILESPEC:

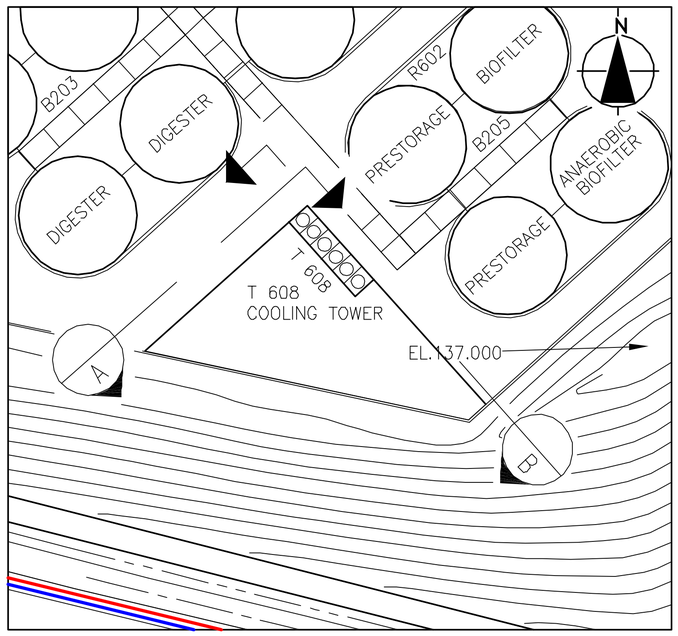
WASTE LICENCE APPLICATION ATTACHMENT - D.1.R

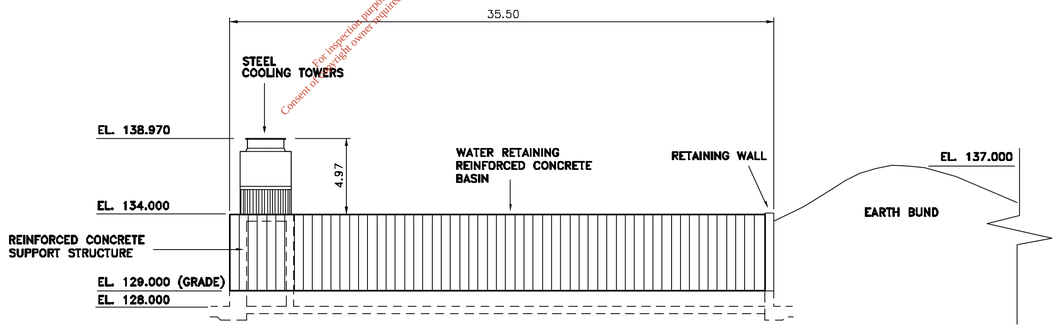
A0 (1189 x 841) DO NOT MANUALLY ALTER OR SCALE PRINT

ba1.dgn Oct-2003



ELEVATION B

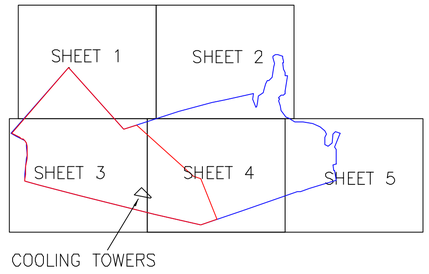




ELEVATION A

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. ALL DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500–600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
B		APB	UPDATED FOR PLANNING APPROVAL			
A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT

GREENSTAR

TITLE

VALE PROJECT
PLAN AND ELEVATIONS
COOLING TOWERS

SCALE: 1:200

JOB No. 109035

Shaw Stone & Webster Limited

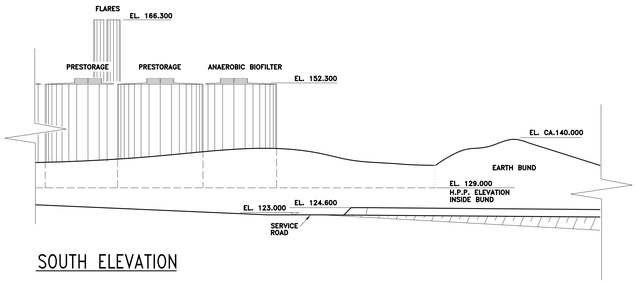
S & W DRG. No. 109035-A1450-1023

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

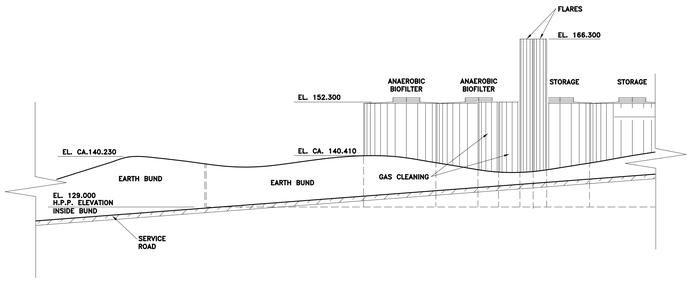
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION ATTACHMENT - D.1.R

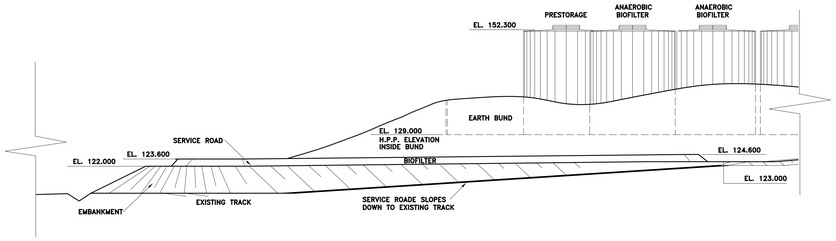
A1 (841 x 594) DO NOT MANUALLY ALTER OR SCALE PRINT



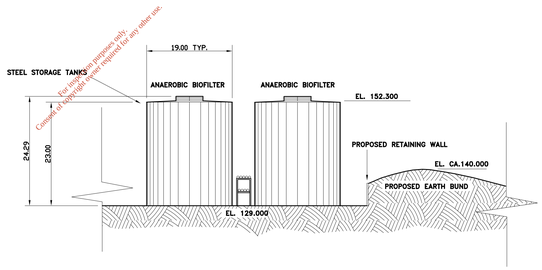
SOUTH ELEVATION



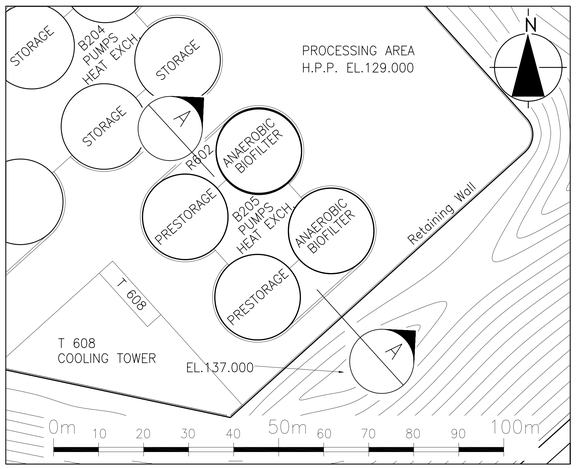
NORTH ELEVATION



EAST ELEVATION



SECTION A



GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755

KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500-600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
A		RMBS	FOR PLANNING APPROVAL			

CLIENT: GREENSTAR

TITLE: VALE PROJECT, PLAN, SECTION, ELEVATIONS OF PRE-STORAGE AND ANAEROBIC FILTER AREA

SCALE: 1:500

JOB No. 109035

Shaw Stone & Webster Limited

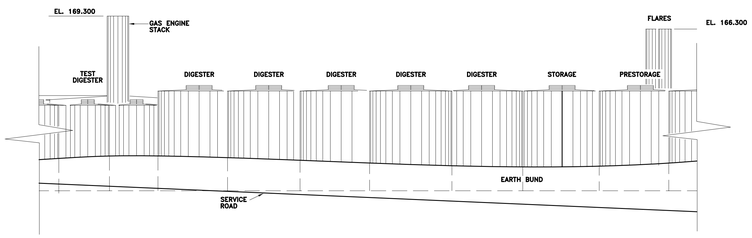
S & W DRG. No. 109035-A1450-1024

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		A

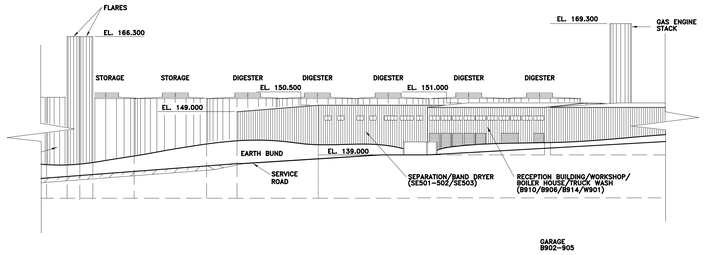
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION ATTACHMENT - D.1.R

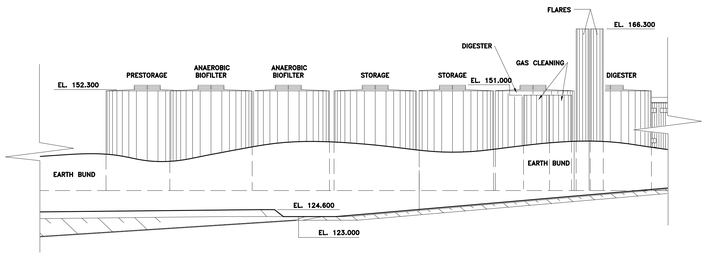
A0 (1189 x 841) DO NOT MANUALLY ALTER OR SCALE PRINT



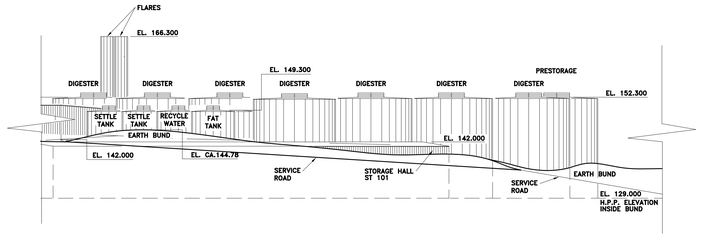
SOUTH ELEVATION



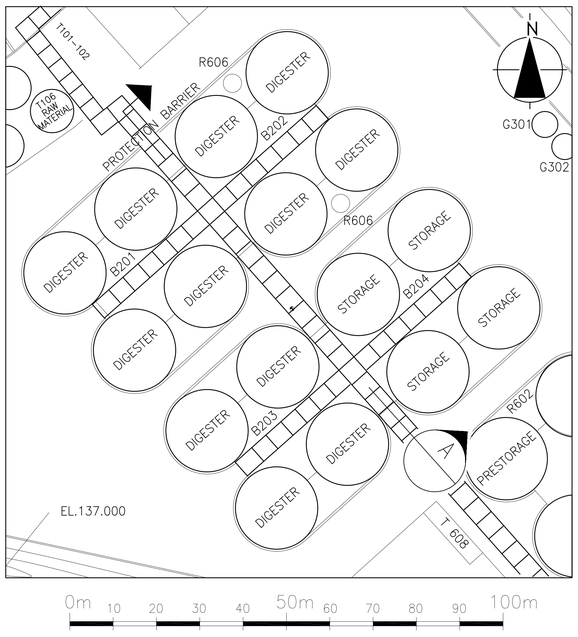
NORTH ELEVATION

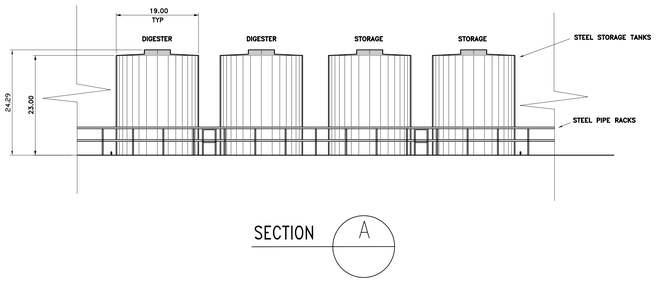


EAST ELEVATION



WEST ELEVATION

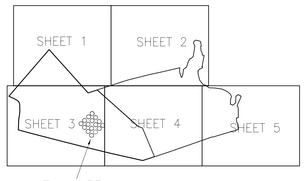




SECTION A

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500-600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
A		RMBS	FOR PLANNING APPROVAL			

CLIENT
GREENSTAR

TITLE
VALE PROJECT
PLAN, SECTION, ELEVATIONS
MAIN TANK AREA

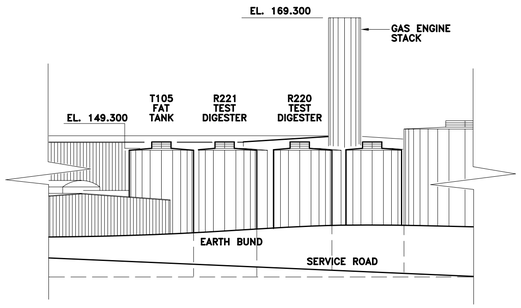
SCALE: 1:500
JOB No. 109035
Shaw® Stone & Webster Limited
S & W DRG. No. 109035-A1450-1025

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		A

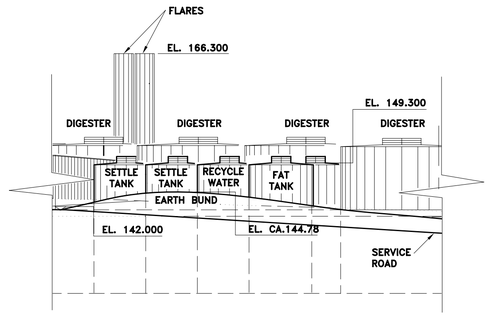
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION - D.1.R

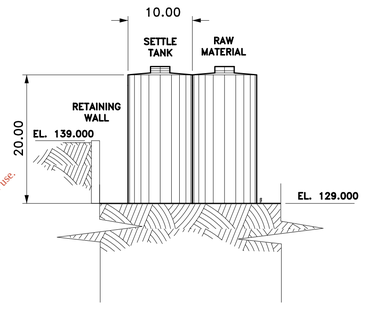
DO NOT MANUALLY ALTER OR SCALE PRINT
A0 (1189 x 841)



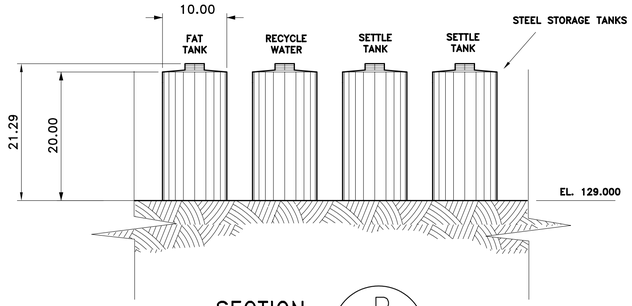
SOUTH ELEVATION



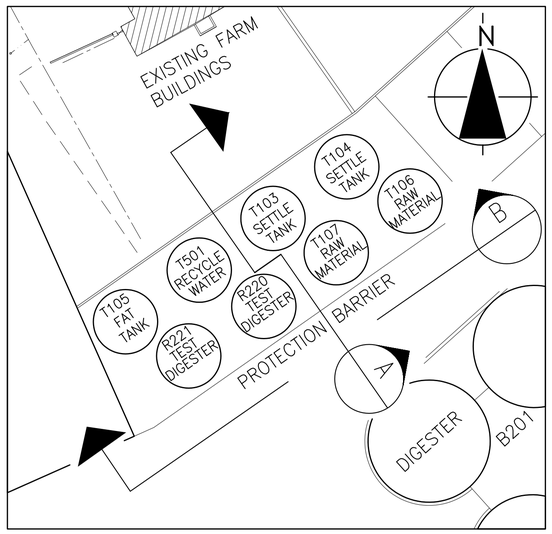
WEST ELEVATION



SECTION A

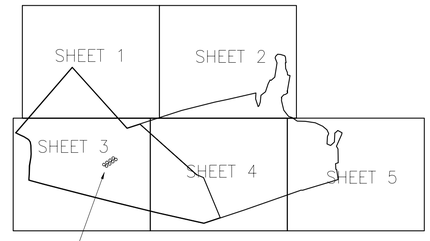


SECTION B



GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. ALL DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500-600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
A		RMBS	FOR PLANNING APPROVAL			

CLIENT

GREENSTAR

TITLE

VALE PROJECT
PLAN, SECTION, ELEVATIONS
SETTLE AND TEST TANK AREA

SCALE: 1:500

JOB No. 109035

Shaw® Stone & Webster Limited

S & W DRG. No. 109035-A1450-1026

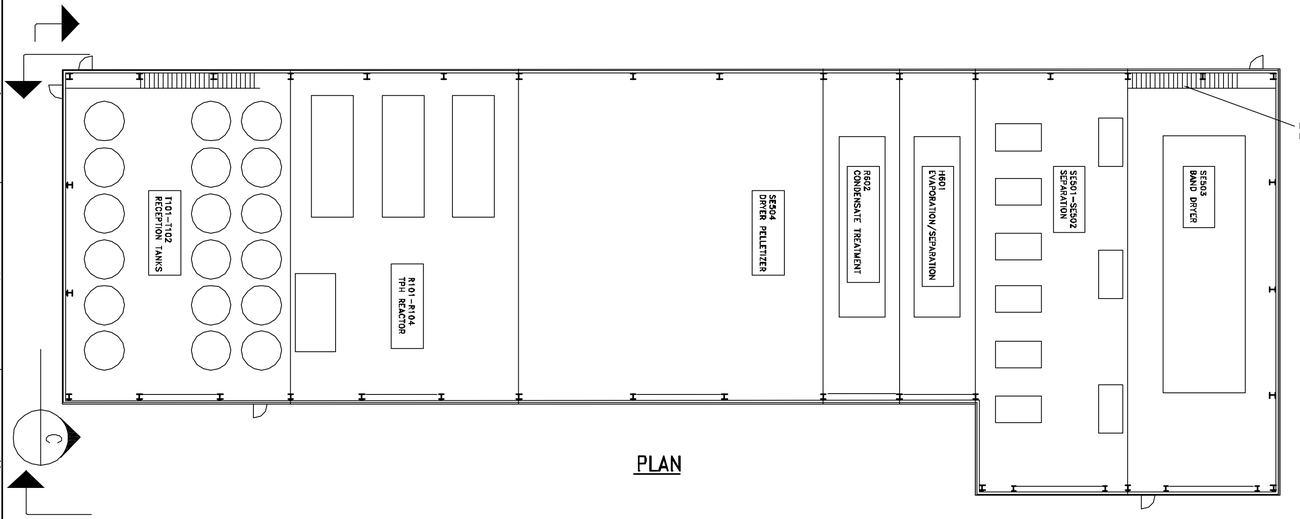
WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		A

LAST REV. DATE:
FILESPEC:

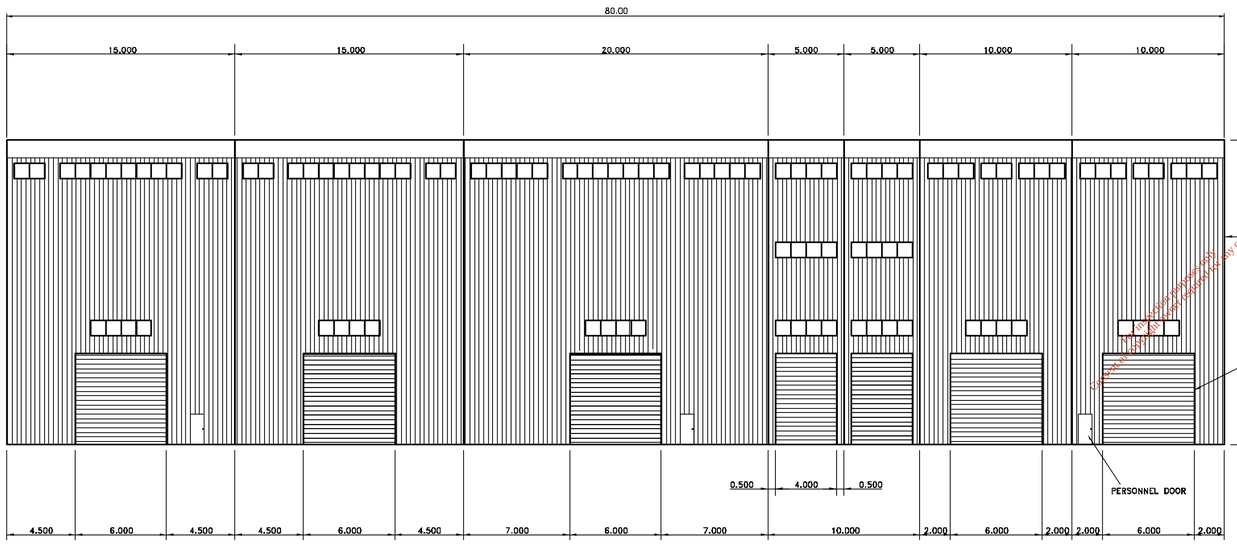
WASTE LICENCE APPLICATION ATTACHMENT - D.1.R

A1 (841 x 594) DO NOT MANUALLY ALTER OR SCALE PRINT

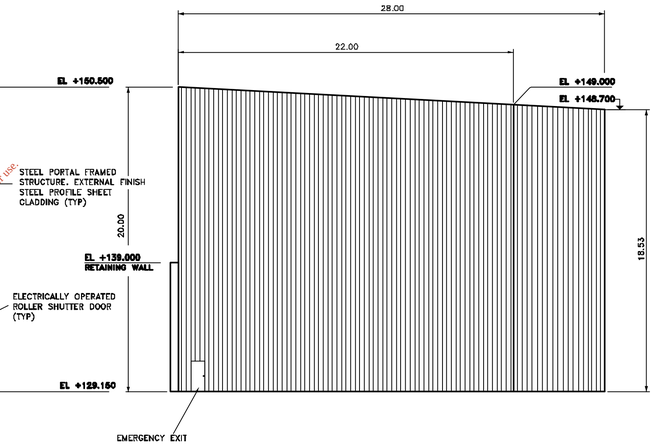
bal.dgn Oct-2003



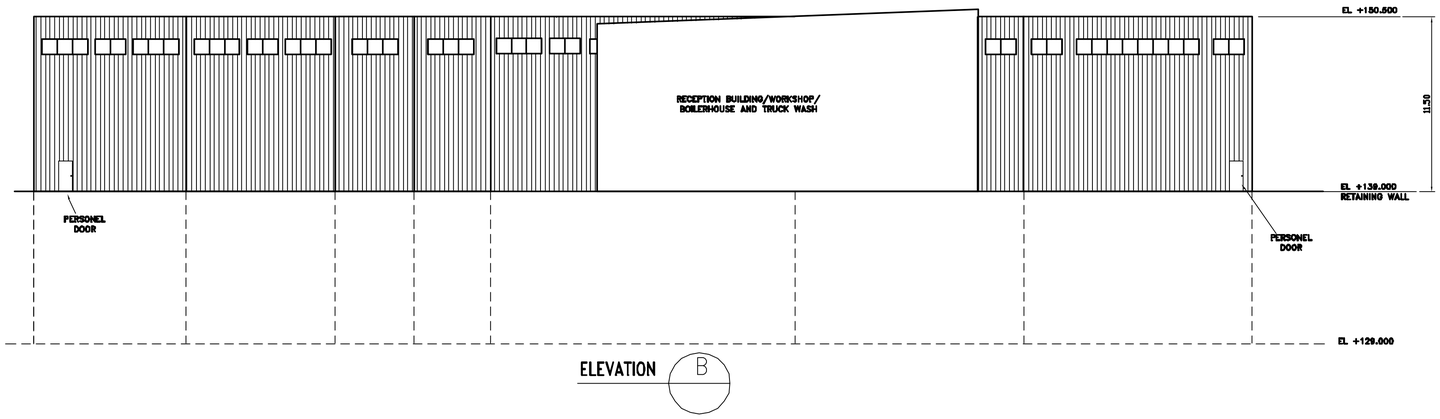
PLAN



ELEVATION A



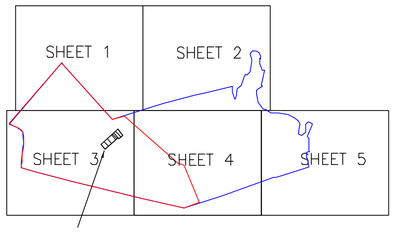
ELEVATION C



ELEVATION B

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500–600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
B		APB	UPDATED FOR PLANNING APPROVAL			
A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT

GREENSTAR

TITLE

VALE PROJECT
PLAN, AND ELEVATIONS
PROCESSING BUILDINGS

SCALE: 1:200

JOB No. 109035

Shaw Stone & Webster Limited

S & W DRG. No. 109035-A1450-1027

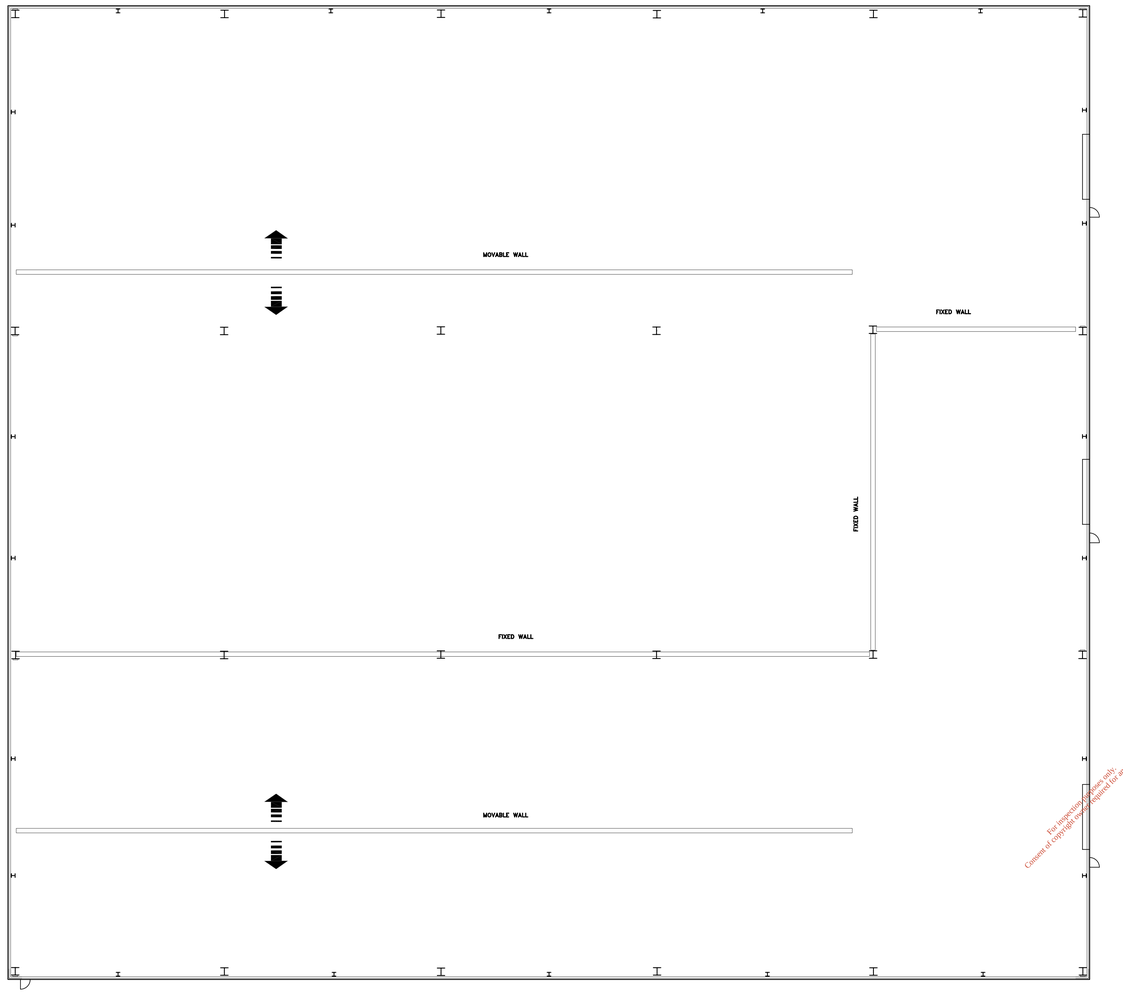
WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

LAST REV. DATE:
FILESPEC:

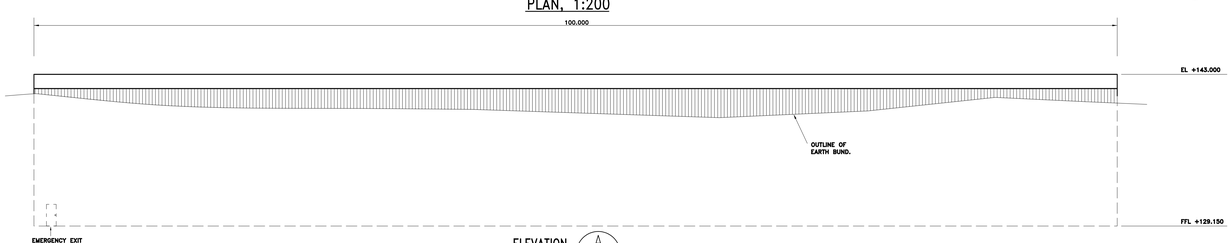
WASTE LICENCE APPLICATION ATTACHMENT - D.1.H

DO NOT MANUALLY ALTER OR SCALE PRINT

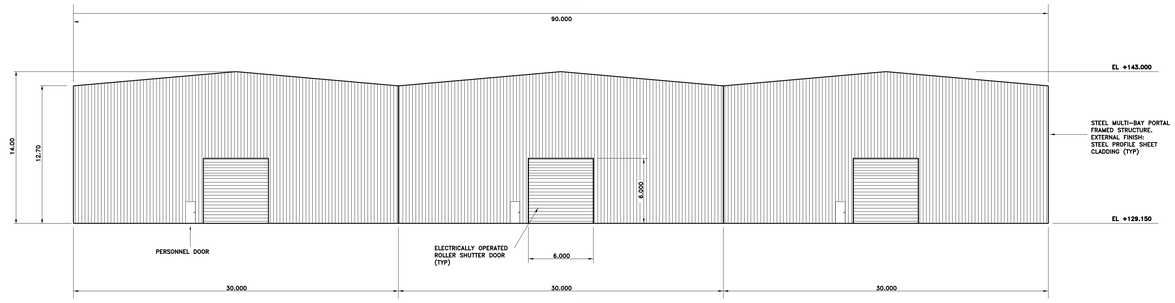
A1 (841 x 594)



PLAN, 1:200



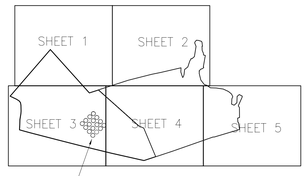
ELEVATION A



ELEVATION B

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500-600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
A		RMBS	FOR PLANNING APPROVAL			

CLIENT: GREENSTAR

TITLE: VALE PROJECT
PLAN, AND ELEVATIONS
STORAGE HALL

SCALE: 1:200

JOB No. 109035

Shaw Stone & Webster Limited

S & W DRG. No. 109035-A1450-1029

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		A

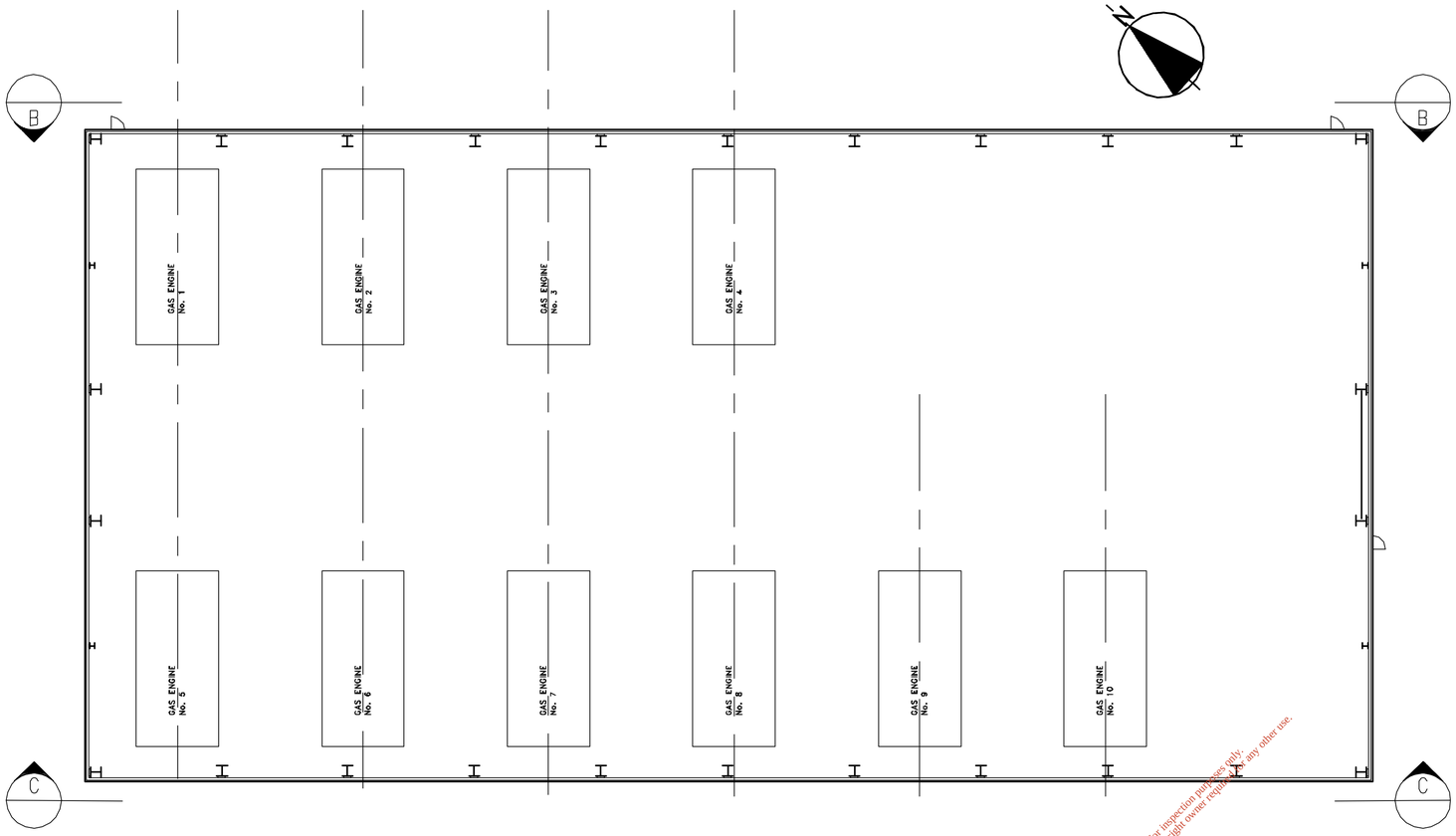
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION

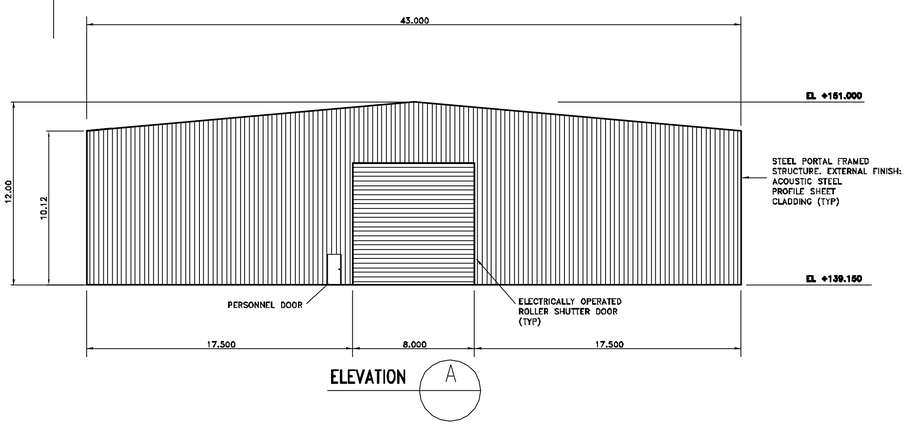
DO NOT MANUALLY ALTER OR SCALE PRINT

A0 (1189 x 841)

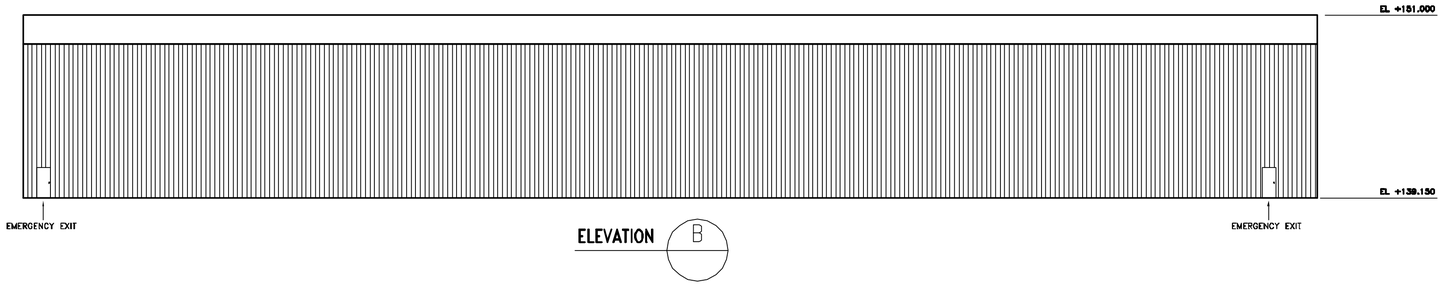
bel dgn 29-Jan-1996



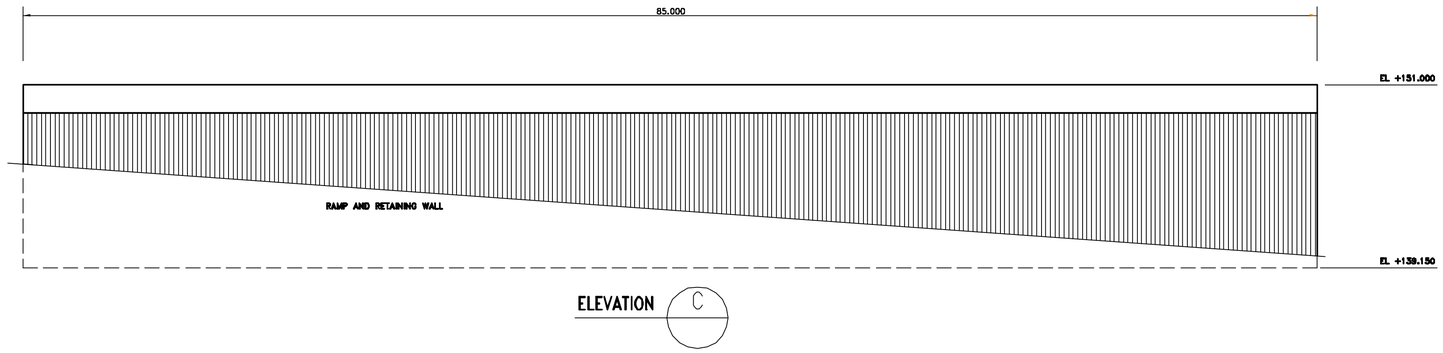
PLAN, 1:200



ELEVATION A



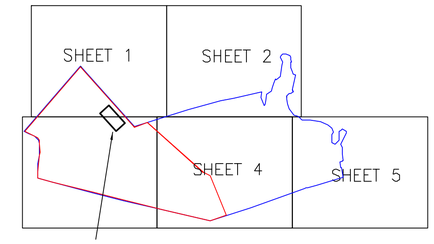
ELEVATION B



ELEVATION C

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING No. 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. ALL DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500–600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	DRAWN BY	DESCRIPTION OF ISSUE	PREP'D	CHKD	APPD
B		APB	UPDATED FOR PLANNING APPROVAL			
A	30/03/06	RWBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT

GREENSTAR

TITLE

VALE PROJECT
PLAN AND ELEVATIONS
POWER HOUSE

SCALE 1:200,
DO NOT SCALE PRINT

JOB No. 109035

Shaw Stone & Webster Limited

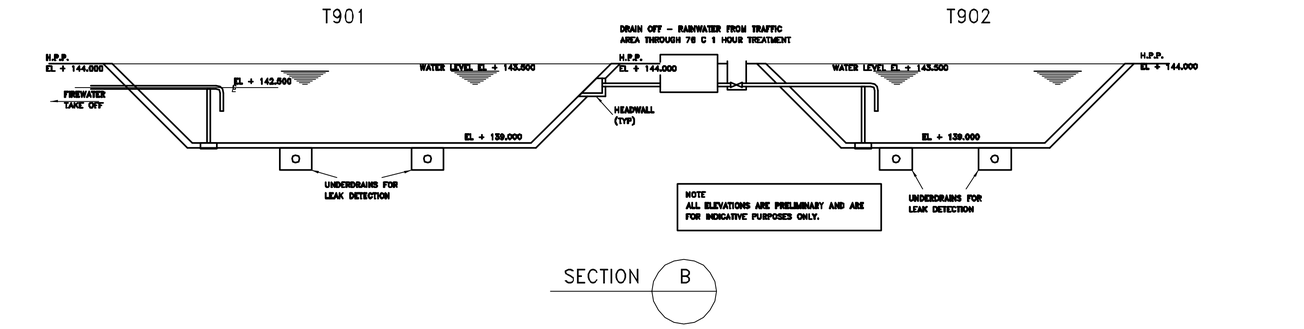
S & W DRG. No. 109035-A1450-1030

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

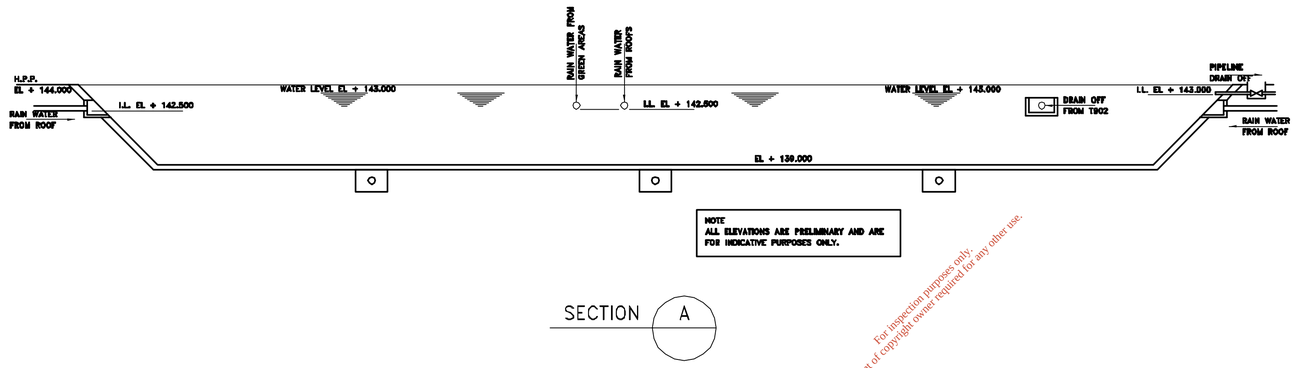
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION ATTACHMENT - D.1.R

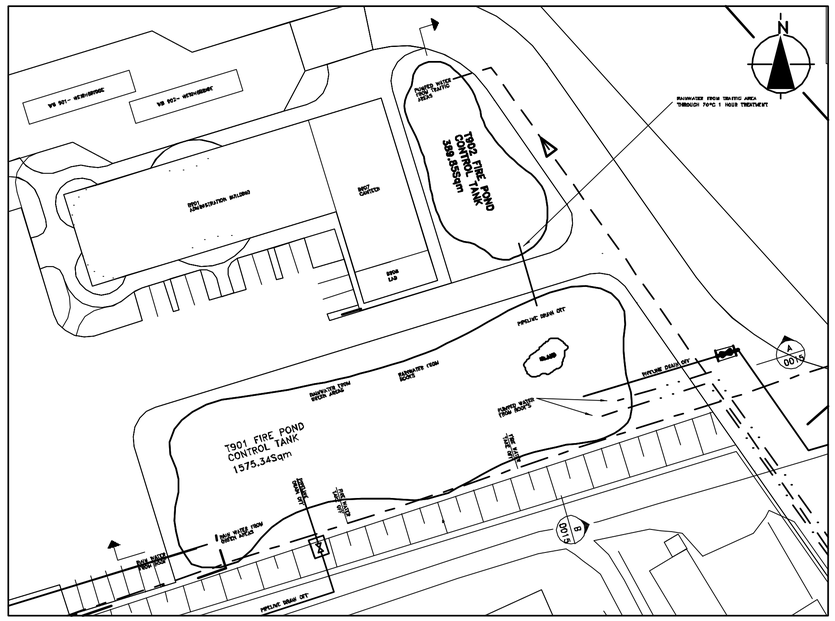
A1 (841 x 594) NOT TO BE MANUALLY ALTERED

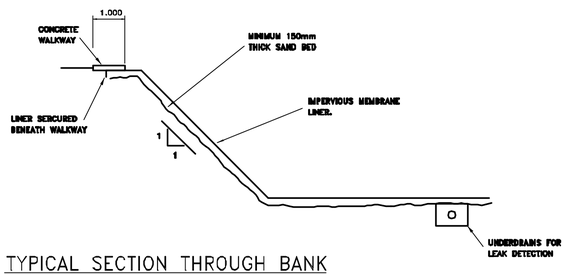


SECTION B



SECTION A

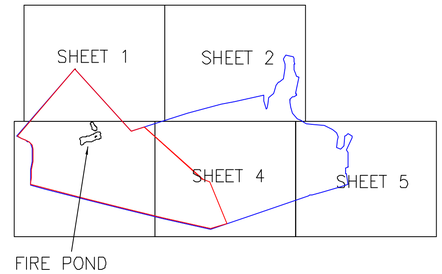




TYPICAL SECTION THROUGH BANK

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING No. 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500-600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	DRAWN BY	DESCRIPTION OF ISSUE	PREP'D	CHKD	APPD
B		APB	UPDATED FOR PLANNING APPROVAL			
A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT: GREENSTAR

TITLE: VALE PROJECT
PLAN AND SECTIONS
FIRE POND

SCALE 1:200, 1:500
DO NOT SCALE PRINT

JOB No. 109035

Shaw Stone & Webster Limited

S & W DRG. No. 109035-A1450-1031

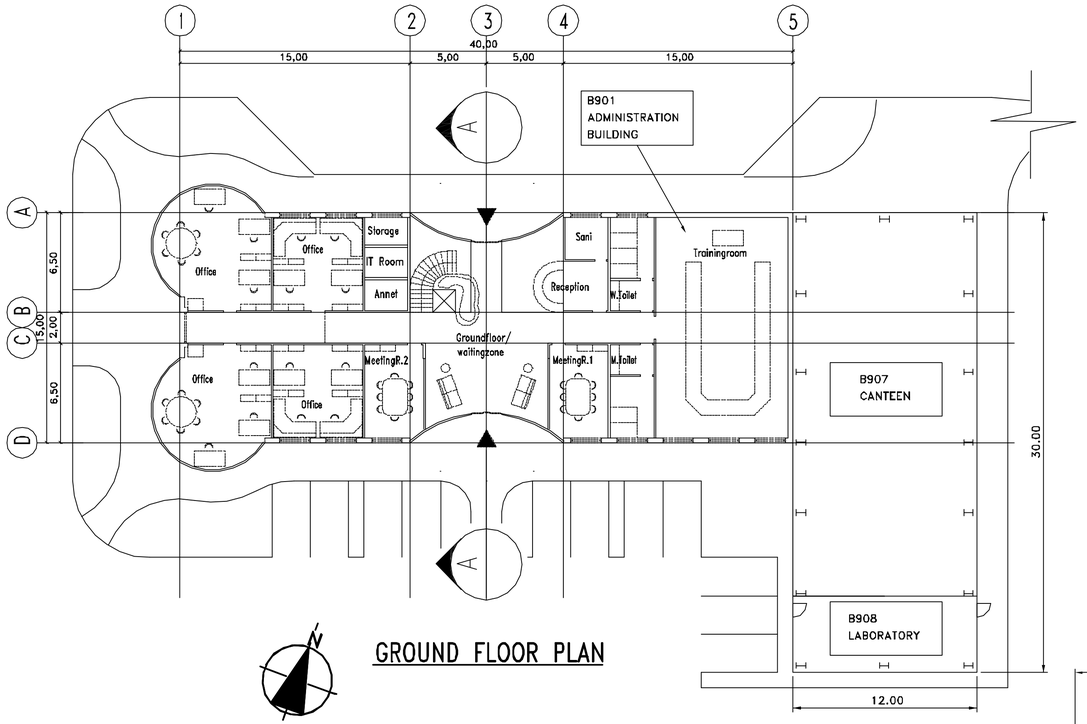
WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

LAST REV. DATE:
FILESPEC:

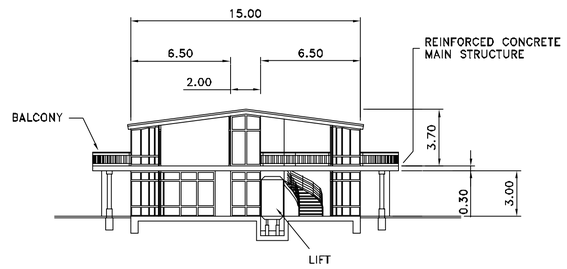
A1 (841 x 594)NOT TO BE MANUALLY ALTERED

WASTE LICENCE APPLICATION ATTACHMENT - D.1.R

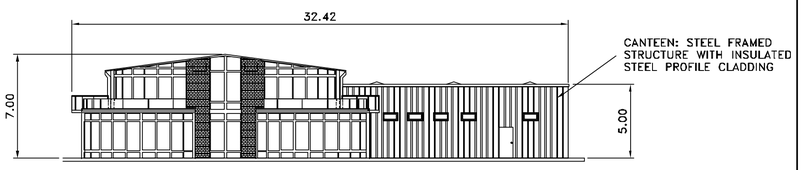
bal.dgn Oct-2003



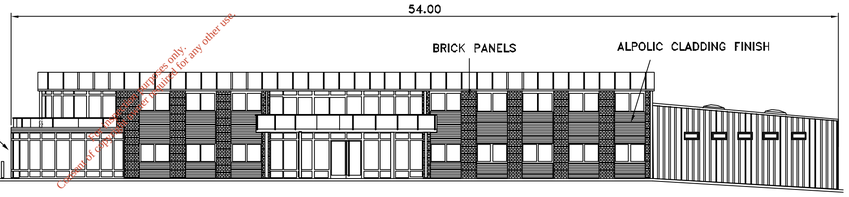
GROUND FLOOR PLAN



SECTION A



WEST ELEVATION



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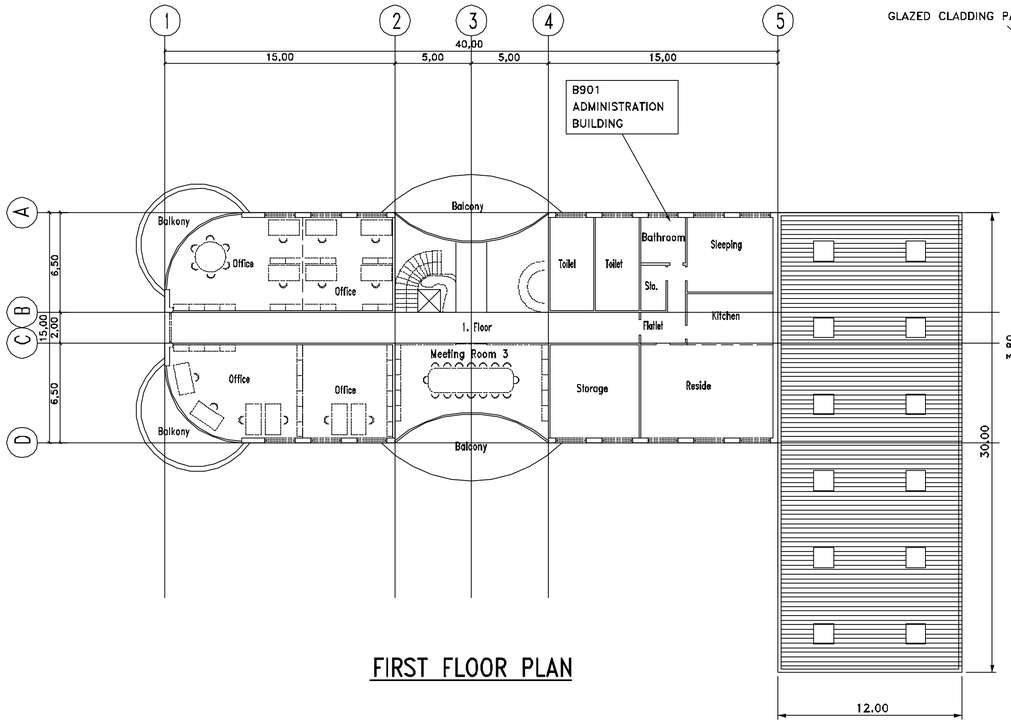
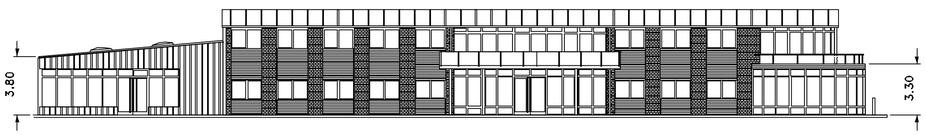
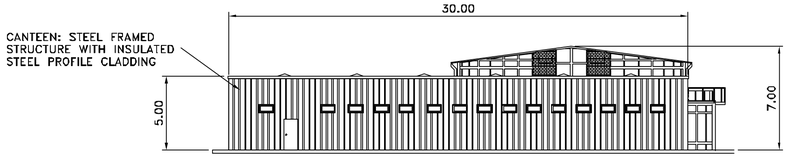


FIRST FLOOR PLAN



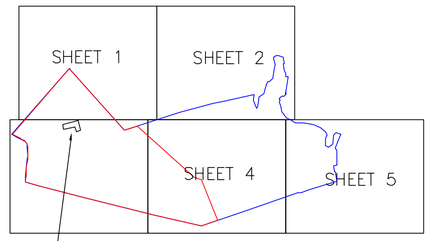
NORTH ELEVATION



EAST ELEVATION

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING No. 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. ALL DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500-600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
B		APB	UPDATED FOR PLANNING APPROVAL			
A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT: GREENSTAR

TITLE: VALE PROJECT
SECTION AND ELEVATIONS
ADMINISTRATION BUILDING/CANTEEN

SCALE: 1:200

JOB No. 109035

Shaw Stone & Webster Limited

S & W DRG. No. 109035-A1450-1032

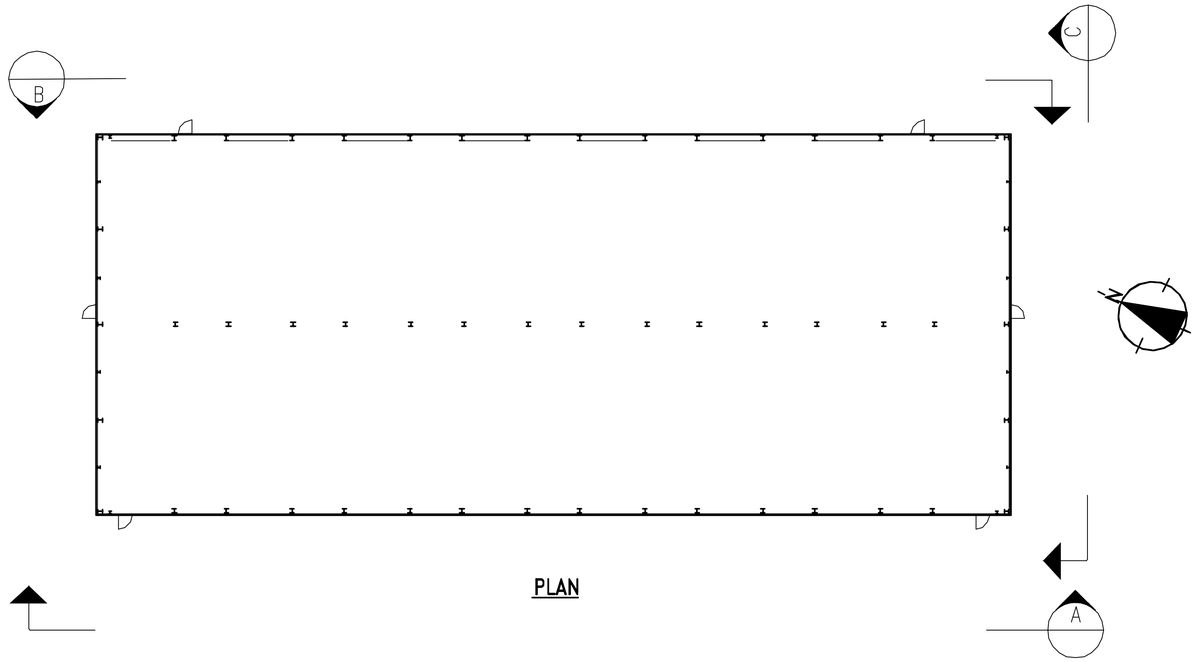
WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

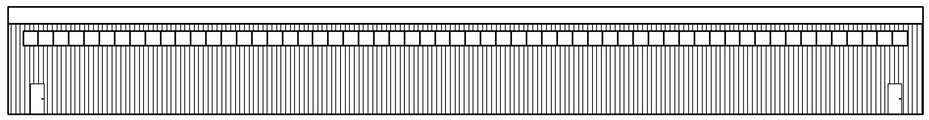
LAST REV. DATE:
FILESPEC:

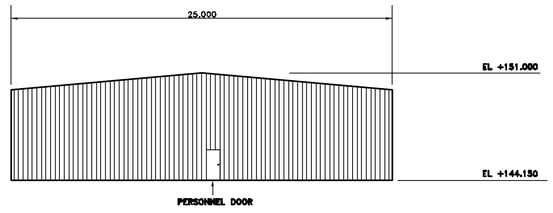
WASTE LICENCE APPLICATION - D.1.R

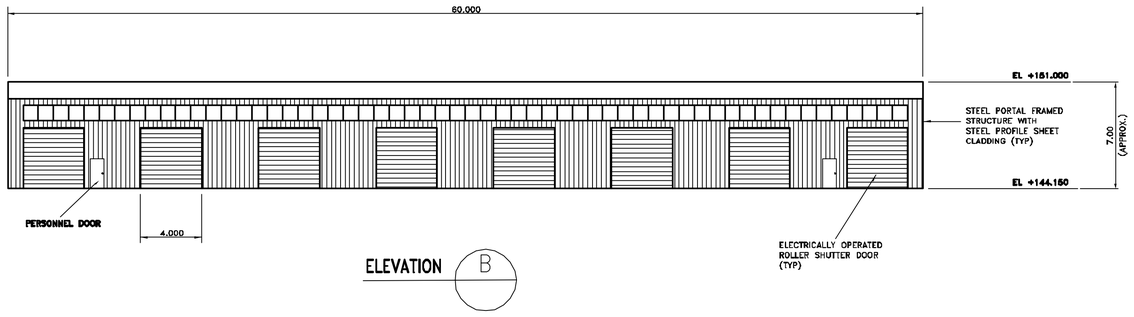
DO NOT MANUALLY ALTER OR SCALE PRINT

A1 (841 x 594)



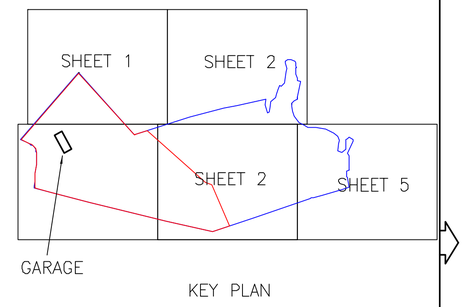






GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING No. 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. ALL DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500–600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	DRAWN BY	DESCRIPTION OF ISSUE	PREP'D	CHKD	APPD
B		APB	UPDATED FOR PLANNING APPROVAL			
A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT

GREENSTAR

TITLE

VALE PROJECT
ELEVATIONS AND PLAN
GARAGE

SCALE 1:200
DO NOT SCALE PRINT

JOB No. 109035

Shaw™ Stone & Webster Limited

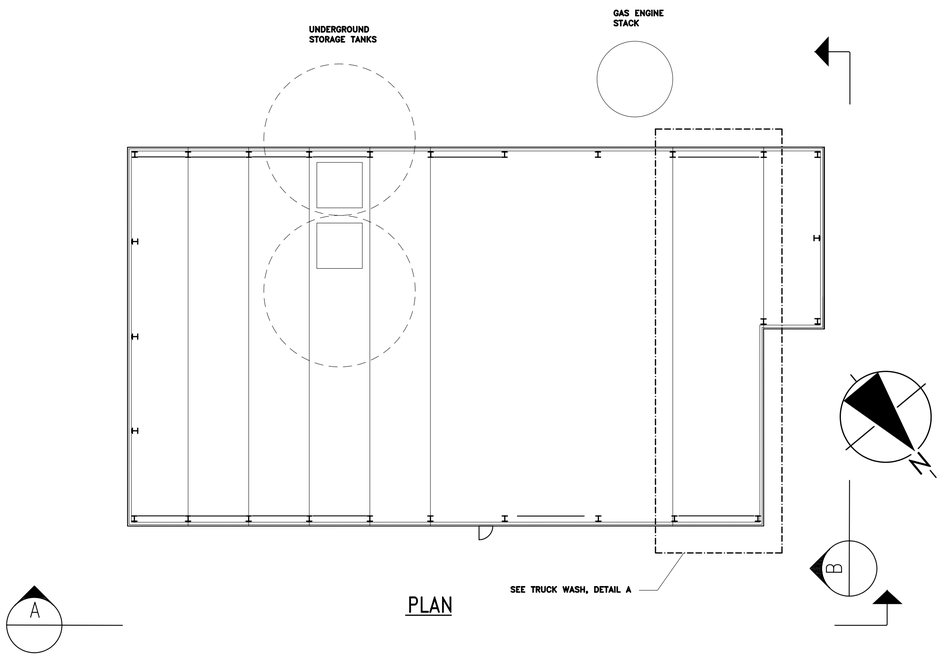
S & W DRG. No. 109035-A1450-1033

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

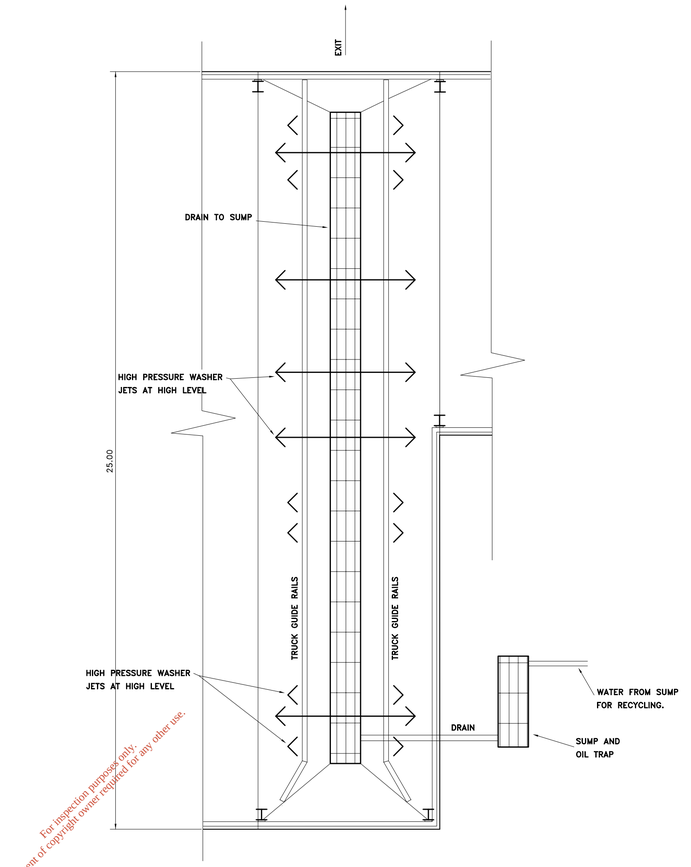
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION ATTACHMENT - D.1.R

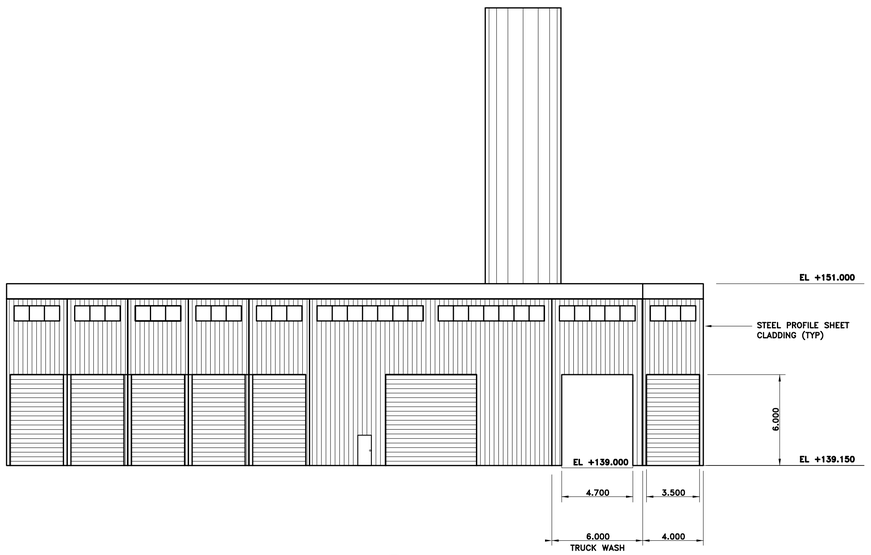
A1 (841 x 594) NOT TO BE MANUALLY ALTERED



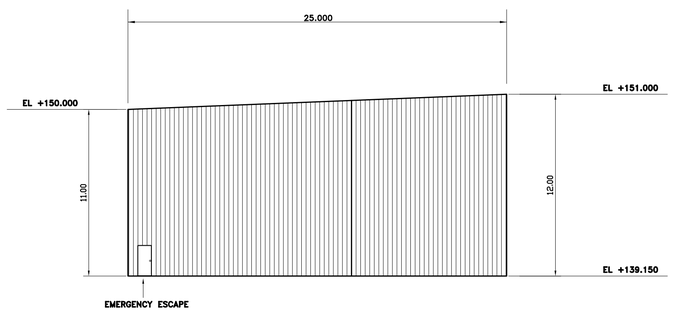
PLAN



TRUCK WASH DETAIL A
1:100



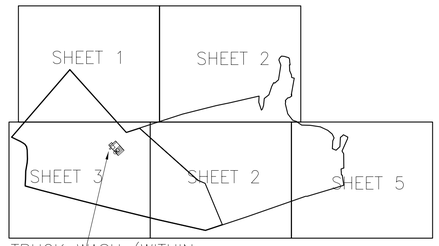
ELEVATION A



ELEVATION B

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING No. 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. DIMENSIONS SHOWN ARE IN METRES



TRUCK WASH (WITHIN RECEPTION BUILDING)

KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500–600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	DRAWN BY	DESCRIPTION OF ISSUE	PREP'D	CHKD	APPD
A		RMBS	FOR PLANNING APPROVAL			

CLIENT: GREENSTAR

TITLE: VALE PROJECT
PLAN AND ELEVATIONS
TRUCK WASH

SCALE 1:200
DO NOT SCALE PRINT

JOB No. 109035

Shaw™ Stone & Webster Limited

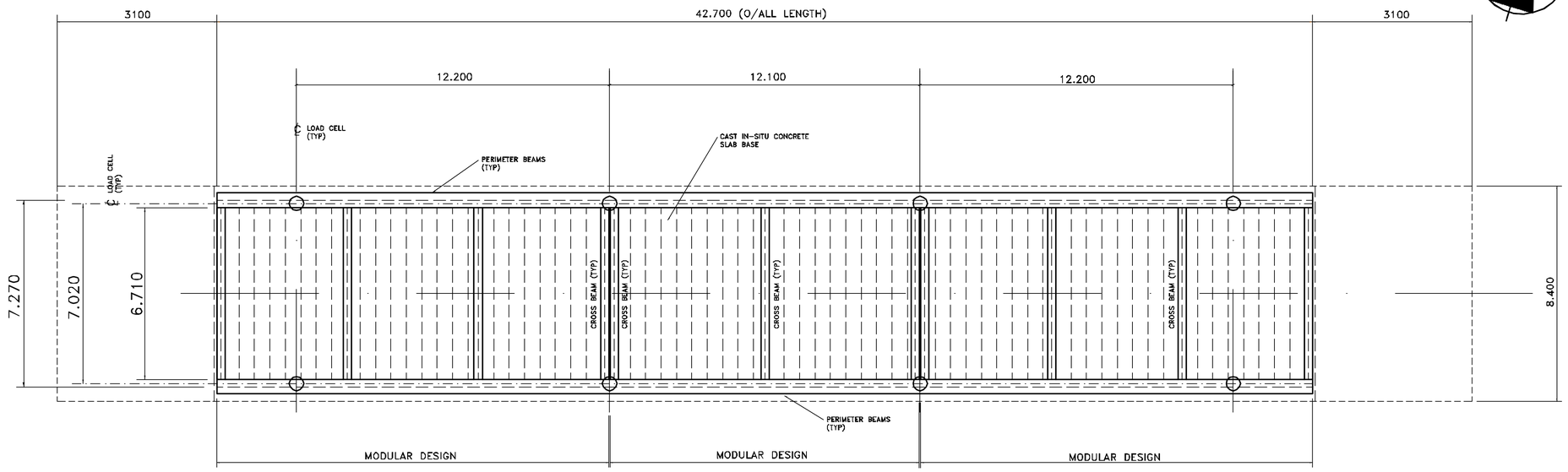
S & W DRG. No. 109035-A1450-1034

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		A

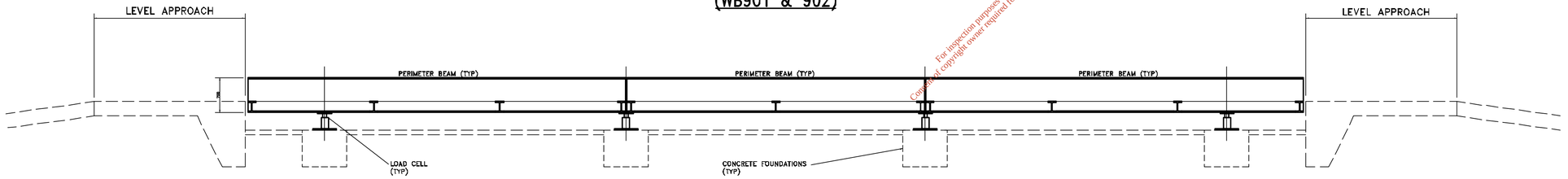
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION ATTACHMENT - D.1.R

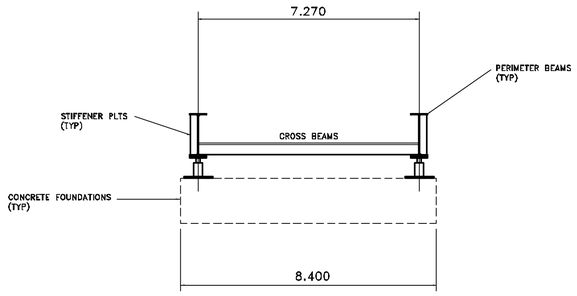
A1 (841 x 594) NOT TO BE MANUALLY ALTERED



PLAN ON WEIGHBRIDGE (WB901 & 902)



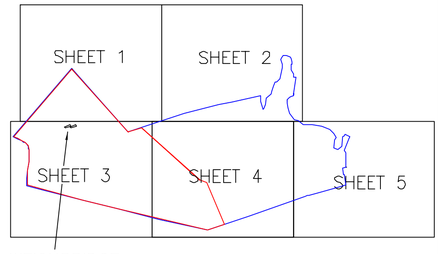
LONGITUDINAL SECTION ON WEIGHBRIDGE (WB901 & WB902)



TRANSVERSE SECTION ON WEIGHBRIDGE

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING No. 109035-A1450-1001
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755
3. ALL DIMENSIONS SHOWN ARE IN METRES



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500–600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	DRAWN BY	DESCRIPTION OF ISSUE	PREP'D	CHKD	APPD
B		APB	UPDATED FOR PLANNING APPROVAL			
A	30/03/06	RMBS	FOR PLANNING APPROVAL	PJP	PJP	GF

CLIENT

GREENSTAR

TITLE

VALE PROJECT
PLAN AND SECTIONS
WEIGHBRIDGE

SCALE 1:100
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Shaw Stone & Webster Limited

JOB No. 109035

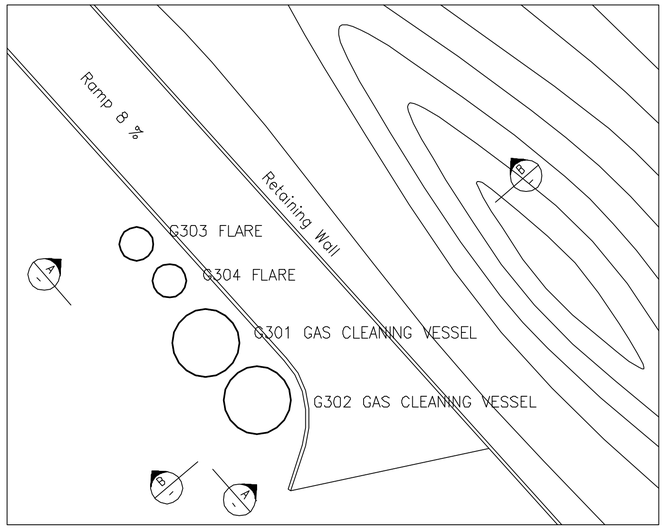
S & W DRG. No. 109035-A1450-1035

WORK PACKAGE No.	SYSTEM	CLASS	STATUS
	DIST. CODE		B

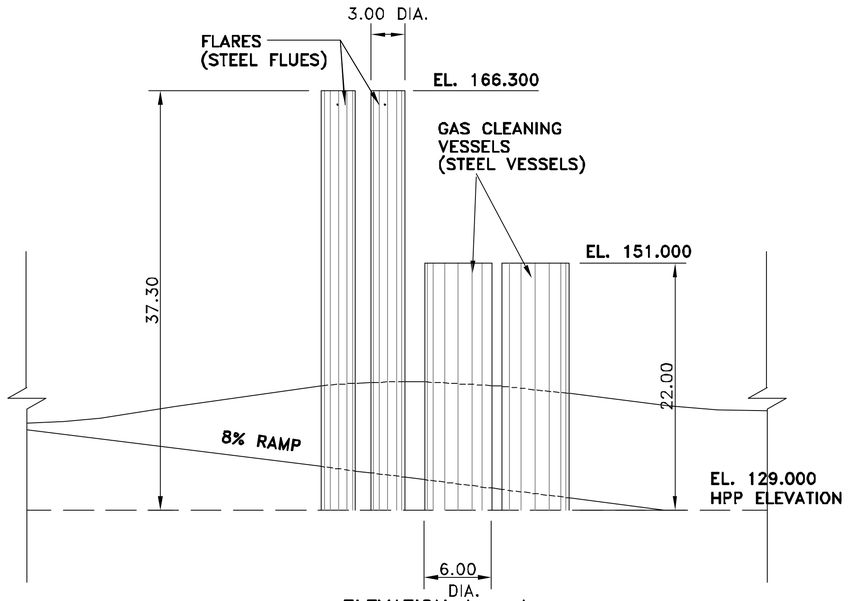
LAST REV. DATE:
FILESPEC:

WASTE LICENCE APPLICATION ATTACHMENT - D.1.R

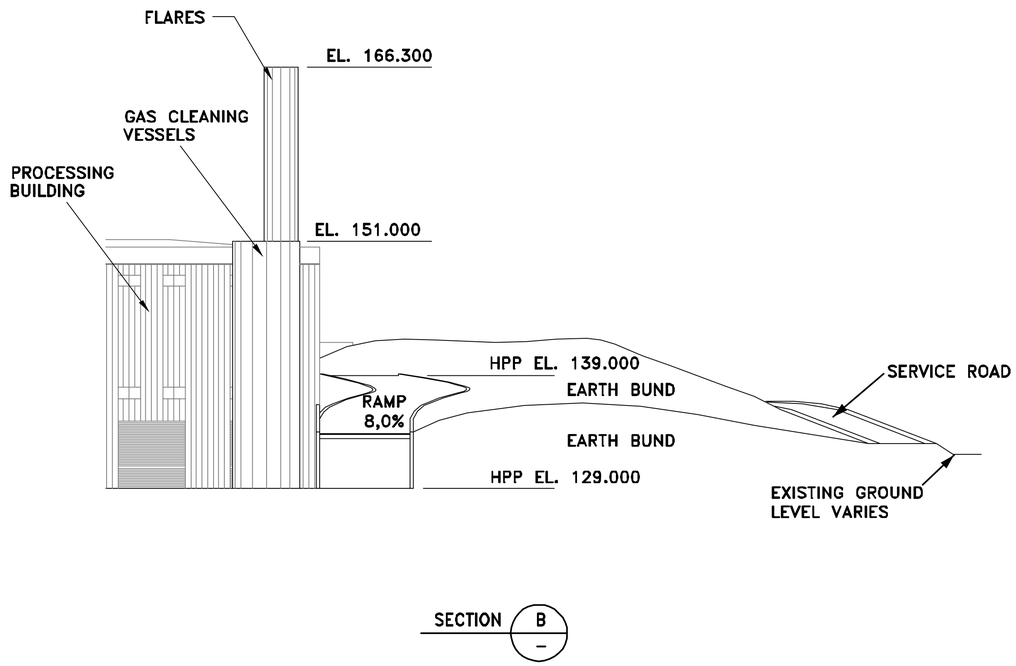
A1 (841 x 594) NOT TO BE MANUALLY ALTERED



PLAN



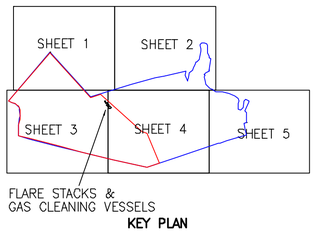
ELEVATION A – A



SECTION B –

GENERAL NOTES

1. FOR GENERAL NOTES SEE DRAWING No. 109035-A1450-1001.
2. ORDNANCE SURVEY DIGITAL MAP No. 5754/5755.
3. DIMENSIONS SHOWN ARE IN METRES.



KEY PLAN

SHAW STONE & WEBSTER
Witan Gate House
500–600 Witan Gate West
Milton Keynes MK9 1BA
England, UK

ISSUE	DATE	PREP'D	DESCRIPTION OF ISSUE	CHK'D	TECH. APP'D	APP'D
A		APB	FOR PLANNING APPROVAL			

CLIENT: GREENSTAR

TITLE: VALE PROJECT
PLAN AND ELEVATIONS
FLARE STACKS AND GAS CLEANING VESSELS

SCALE: 1:200

JOB No. 109035

Shaw Stone & Webster Limited

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FILESPEC:

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