

## Attachment A: Non-Technical Summary

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## Attachment A: Non-Technical Summary

### Introduction

The EPA issued Cork County Council with a Waste Licence (W0089-01) for the Derryconnell Landfill on 25<sup>th</sup> October 2000 and an Amendment B to the Waste Licence on 28<sup>th</sup> October 2005. The site is licenced to landfill up to a maximum of 14,000 tonnes per annum of waste and also to store leachate for disposal at another licenced facility. The site also includes a small civic amenity area where members of the public can deposit a range of items for recycling.

The remaining landfill cell capacity at the Derryconnell Landfill is approximately 8,900m<sup>3</sup> and it is estimated that the landfill will close in early 2008.

Restoration and aftercare of the landfill will be in accordance with the existing Waste Licence. Cork County Council now wish to apply for a review of the Waste Licence to allow the following:

1. Development of a Waste Transfer Station on previously undeveloped land within the licenced boundary of the Derryconnell site. Operation of the Waste Transfer Station would not commence until after closure of the existing landfill so that all waste delivered to the site would be compacted and transferred to other licenced waste facilities. It is not proposed to request any increase in the licenced tonnage of 14,000 tpa.
2. It is also proposed to develop a larger Civic Amenity Area at the site adjacent to the proposed Transfer Station to allow members of the public to deposit a wide range of materials for recycling. It is estimated that 5,000 tonnes per annum will be accepted from the public for recycling. All of the proposed development will take place within the licenced boundary of the site but outside the area previously utilised for landfilling operations on previously undeveloped land.

### Article 12(1)a: Applicant's Details

The details of the Applicant are as follows:

Cork County Council  
Hume House  
Wolfe Tone Street  
Clonakilty  
Co. Cork  
T: 023-58812

### Article 12(1)b: Planning Authority

The details of the relevant Planning Authority are as follows:

Cork County Council  
Norton House,  
Cork Road,  
Skibereen, Co. Cork  
T: 028 40340  
F: 028 21660

### Article 12(1)c: Sanitary Authority

The details of the relevant Sanitary Authority are as follows:

Cork County Council - Bandon Waste Water Treatment Plant  
Bandon, Co. Cork

**Article 12(1)d: Facility Details**

Address of Facility:

Derryconnell Landfill and Civic Amenity Site  
Derryconnell,  
Schull,  
Co. Cork  
T: 028-37048

NGR of Facility: 9627E 3396N

**Article 12(1)e: Nature of Facility**

The facility currently consists of a landfill which is licenced to accept up to 14,000 tonnes per annum and a Civic Amenity Area together with leachate holding facilities. The proposals for the site relate to the development of a Waste Transfer Station, which would commence operation after the closure of the landfill and construction of a new civic amenity facility for the public.

The proposed Waste Transfer Station will allow for ongoing management of the waste arisings of the region which have been landfilled at Derryconnell to date. The proposed capacity of the Waste Transfer Station will be 14,000 tonnes per annum which is the current licenced quantity for the landfill. The proposed capacity for the Civic Amenity Area is 5,000 tonnes per annum of recyclable material.

**Article 12(1)f: Classes of Activity**

THIRD SCHEDULE Waste Disposal Activities

- Class 1 Deposit on, in or under land (including landfill).  
*This activity is currently licensed.*
- Class 4 Surface impoundment, including placement of liquid or sludge discards into pits, ponds or lagoons.  
*This activity is currently licensed and relates to leachate management which will be an ongoing activity at the site.*
- Class 5 Specially engineered landfill, including placement into lined discrete cells which are capped and isolated from one another and the environment.  
*This activity is currently licensed and is currently the Principal Activity.*
- Class 12 Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.  
*This is a new activity which relates to the compaction of waste into sealed containers in the Transfer Station for disposal at another licensed waste facility. This will be the Principal Activity following closure of the Landfill and commencement of Transfer operations.*
- Class 13 Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced. *This activity is currently licensed.*

FOURTH SCHEDULE Waste Recovery Activities

*These activities all relate to the new Civic Amenity Area which will be developed.*

- Class 2 Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological processes).
- Class 3 Recycling or reclamation of metals and metal compounds.
- Class 4 Recycling or reclamation of other inorganic materials.
- Class 13 Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.

**Article 12(1)g: Quantity and Nature of Waste****Table A-1: Quantity and Nature of Waste Accepted onsite**

Waste material	EWC Code	Quantity (Tonnes per annum)
Mixed Municipal Waste	20 03 01	12000
Cardboard & Cardboard Packaging	15 01 01	770
Clean Plastic Bags	15 01 02	200
Mixed Paper	20 01 01	700
Plastic Bottles	15 01 02	100
Tetra-Paks	15 01 05	50
Newsprint/ Magazines	20 01 01	450
Garden Waste	20 02 01	150
Scrap Metal	20 01 40	200
Timber (untreated Only)	20 01 38	600
Electrical Goods	20 01 36	100
White Goods	20 01 36	100
Drinks and Food Cans	15 01 04	25
Glass Bottles & Jars	15 01 07	50
Flat Glass	20 01 02	150
Furniture	20 03 07	200
Household C&D Waste	17 01 07	2000
Household Gas Cylinders	16 01 16	8
Waste Oil	20 01 25 and 13 01 00	10
Oil filters	13 02 00	5
Paint and Ink	20 01 27	20
Batteries	20 01 33 and 16 06 00	100
Fluorescent Light Bulbs	20 01 21	4
Plastic Oil Containers	16 01 99	8

**Article 12(1)h: Materials**

The list of raw materials and intermediates that are utilised in the facility is minimal.

The machinery currently onsite comprises of a weighbridge, an excavator, compactor, forklift and a site dumper. The onsite equipment, lighting and all other ancillaries consume electrical energy. Small quantities of pesticides and insecticides are also used for the control and eradication of vermin and fly infestations at the facility.

**Article 12(1)i: Plant Methods and Operating Procedures****Existing Facility**

The existing landfill which was licenced in 2000 operates as follows:

- Waste is brought in by Local Authority vehicles or licenced collectors
- The vehicles are weighed and the waste tipped onto the working face of the landfill
- Waste is brought in by the public to a skip in the civic amenity area
- The public are charged on a weight basis
- This waste is transferred to the landfill working face once the skip is full
- The working face is covered daily

There is also a small civic amenity area where members of the public deposit a range of recyclable items.

**Proposed Waste Transfer Station**

The plant at the Transfer Station will consist of a weighbridge, waste compacting equipment, a forklift, a site dumper and a skid steer loader or similar.

The Operating Procedure at the Waste Transfer Station will be as follows:

- Waste will continue to be brought to the site by local authority refuse collection vehicles or by permitted private operators
- All vehicles will be weighed at the weighbridge
- Waste will be tipped inside the Transfer Building into the compactor
- Waste will be compacted into an ejector trailer for transport to a licenced waste facility
- The existing site waste inspection and waste quarantine areas will be used as required

The operating procedure at the Civic Amenity Area will be as follows:

- Members of the public will have access to public areas only and truck movements will be kept separate.
- Clear signposting will be in place on site to direct members of the public to the appropriate location for deposition of recyclable items or bags of household refuse and parking or stopping zones will be provided throughout the site.
- Household refuse deposited by members of the public will be weighed and charged accordingly. This refuse will then be put through a hatch in the transfer building where it will be stored in a 3 tonne dumper vehicle prior to being tipped into the compactor for municipal refuse.
- The public will place cardboard, paper, plastics and cans into hatches in the Transfer Building. These materials will pass along chutes leading to a dedicated compactor for recyclable materials. Cardboard, paper, plastics and cans will all be compacted together into an ejector trailer for transfer to a licenced recovery facility.
- Reusable items of furniture will be deposited in a reusable materials building for collection by other members of the public.
- A number of dedicated containers will be provided in the civic amenity area for the deposition of flat glass, waste electrical goods and glass bottles.
- A split level area will be provided at the eastern end of the site where bulky recyclable materials such as green wastes, metals, timber and household diy waste can be deposited by the public.

**Article 12(1)j: Section 40(4) of WMA**

This information is contained in Attachment L.1

**Article 12(1)k: Nature of Emissions**

Noise emissions may arise from operational plant as well as traffic to and from the site. Compaction operations and traffic movements to and from the site will be limited to normal opening hours and so operations at the facility will not be expected to have a significant impact on existing background noise levels. A noise emission limit of 55 dB(A)L (daytime) and 45 dB(A)L (night time) at locations on the boundary will be used. Monitoring results will be compared against these standards.

An odour assessment was conducted in 1999. The model determined that the worst case condition would arise in 2003 at a point 165 metres from the landfill. The predicted odours levels were all below the odour detection limits under this worst case scenario with a minimum safety factor of 2. It identified that the most significant odour problems were likely to arise from three landfill gas pollutants; ethyl mercaptan, hydrogen sulphide and methyl mercaptan which are likely to be emitted from the leachate lagoon. Following this report, a gas flare was installed which reduced the odours emitted from the site. The closure and capping of the landfill will result in a reduction of odour emissions. It is unlikely that there will be any additional generation of odours as a result of the proposed waste transfer operations onsite. Recyclable waste received at the facility is unlikely to cause odours.

Ambient dust monitoring is carried out annually under the current Waste Licence and a further noise survey was carried out in April 2007 to obtain background information in the area now to be developed. Further monitoring points were added to measure the effect of the waste recovery facility. A 30-day average dust deposition rate of 350 mg/m<sup>2</sup>/day is recommended at the boundary of the site. All the results from the latest period of monitoring were found to be below the recommended deposition rate except for D9(585 mg/m<sup>2</sup>/day),

possibly due to drilling for site investigation which was taking place on site. Further dust monitoring will be carried out as per the Agency's recommendations.

Surface water run-off from the site, will be collected in the surface water drainage system and diverted via a Class 1 full retention interceptor before discharging to the adjacent stream. Constant monitoring will ensure that no emission limits are breached. If this occurs, the flow will be diverted to the leachate lagoon.

There will be no emissions to groundwater from the Waste Transfer Station and Civic Amenity Facility to be developed at the site.

#### **Article 12(1)l: Impact of Emissions**

Noise emissions may arise from operational plant onsite as well as from traffic to and from the site. However, these traffic movements will be limited to normal opening hours and so operations at the facility will not be expected to have a significant impact on existing background noise levels.

Due to the nature of the waste streams accepted on the site and with the implementation of efficient site operating procedures, it is unlikely that there will be any additional significant impacts on air quality due to dust or odour as a result of operations at the facility.

Storm water will be collected and will pass through a full retention separator (Oil Interceptor) prior to being discharged to the adjacent stream. It is not expected that storm water discharged to surface water will have an impact on the environment.

There are no emissions to groundwater from the 3 no. lined cells. Reports indicate that the old portion of the landfill is not affecting the groundwater quality. There will be no emissions to groundwater from the proposed developments at the site. For these reasons the facility is not expected to have any impact on groundwater.

Foul sewage from the office accommodation will be treated in a new package treatment system before being pumped to the Leachate lagoon. It will be transferred to Bandon Waste Water Treatment Plant for treatment with leachate and is therefore not expected to impact the environment.

#### **Article 12(1)m: Monitoring and Sampling**

Surface water, ground water, leachate, landfill gas, dust and noise monitoring are carried out on a regular basis as per Licence W0089-01 at a number of locations on or near the proposed site. Further monitoring points have been added, as required, to take into account the development of the Waste Transfer Station and Civic Amenity Facility. The results of this monitoring has and will provide the basis for the continuous assessment of the impact of the facility on all aspects of the environment.

#### **Article 12(1)n, o: Recovery and Treatment of Waste**

There is a small Civic Amenity Area on site at present where a range of recyclable materials are accepted from the general public. Household refuse is also accepted from the public on a pay by weight basis before being disposed of at the existing landfill.

As part of this review application the development of a larger Civic Amenity Facility is proposed where all materials listed in Article 12.1(e) will be accepted from the public. Approved operators will be used to remove recyclable materials from the site for processing.

Mixed municipal waste which is currently disposed of at the landfill will in the future be compacted into containers and transferred to another licensed site.

#### **Article 12(1)p: Unauthorised or Unexpected Emissions**

Emergency response procedures are in place to prepare in the case of unexpected or unauthorised emissions to all environmental media. In the unlikely event of an emission, the operators will ensure that:

- The spill is contained and cleaned up immediately
- The incident is recorded
- The EPA are notified

- Samples are taken and sent for external analysis

**Article 12(1)q: Closure and Restoration**

A Residuals Management Plan was prepared and submitted to the Agency as part of the Environmental Management System in October 2001. The Plan follows the guidelines of the EPA's Landfill Manual on 'Restoration and Aftercare'.

The landfilling of waste at the facility is likely to continue until early 2008 with the restoration of the site commencing then. Following the filling of cells, they will be capped according to EPA recommendations.

Monitoring of groundwater, surface water, leachate and gas will continue onsite following closure based on the frequencies agreed in the restoration plan. Regular inspection (minimum biannually) of the site equipment will be conducted.

Once the landfill portion of the site is closed, the site will commence operation as a waste transfer station where waste will be compacted into sealed ejector trailers for transfer to another licensed landfill.

There are no plans to decommission the Transfer Station and Civic Amenity Facility in the foreseeable future. However, in the event of cessation of activities at the site, Cork County Council proposes the following closure and restoration measures:

- The equipment used at the site will be removed by Cork County Council
- Portable structures, such as recycling receptacles, will be removed from the site
- Street sweeper vehicles will be used to clean the site
- Office equipment will be removed
- Cork County Council will provide the EPA with at least six months written notice of any intention to close the facility.

**Article 12(1)r: Financial Provisions**

Cork County Council is a local authority and is committed to the provision of funds for the management, development and restoration of Derryconnell Landfill site and the development of the Waste Transfer Station and Civic Amenity Facility.

**Article 12(1)s: S.I. 476 of 2000**

Not applicable – The activity is not for the purposes of an establishment to which the European Communities (Control of Major Accident Hazards Involving Dangerous Substances) Regulations 2000 apply.

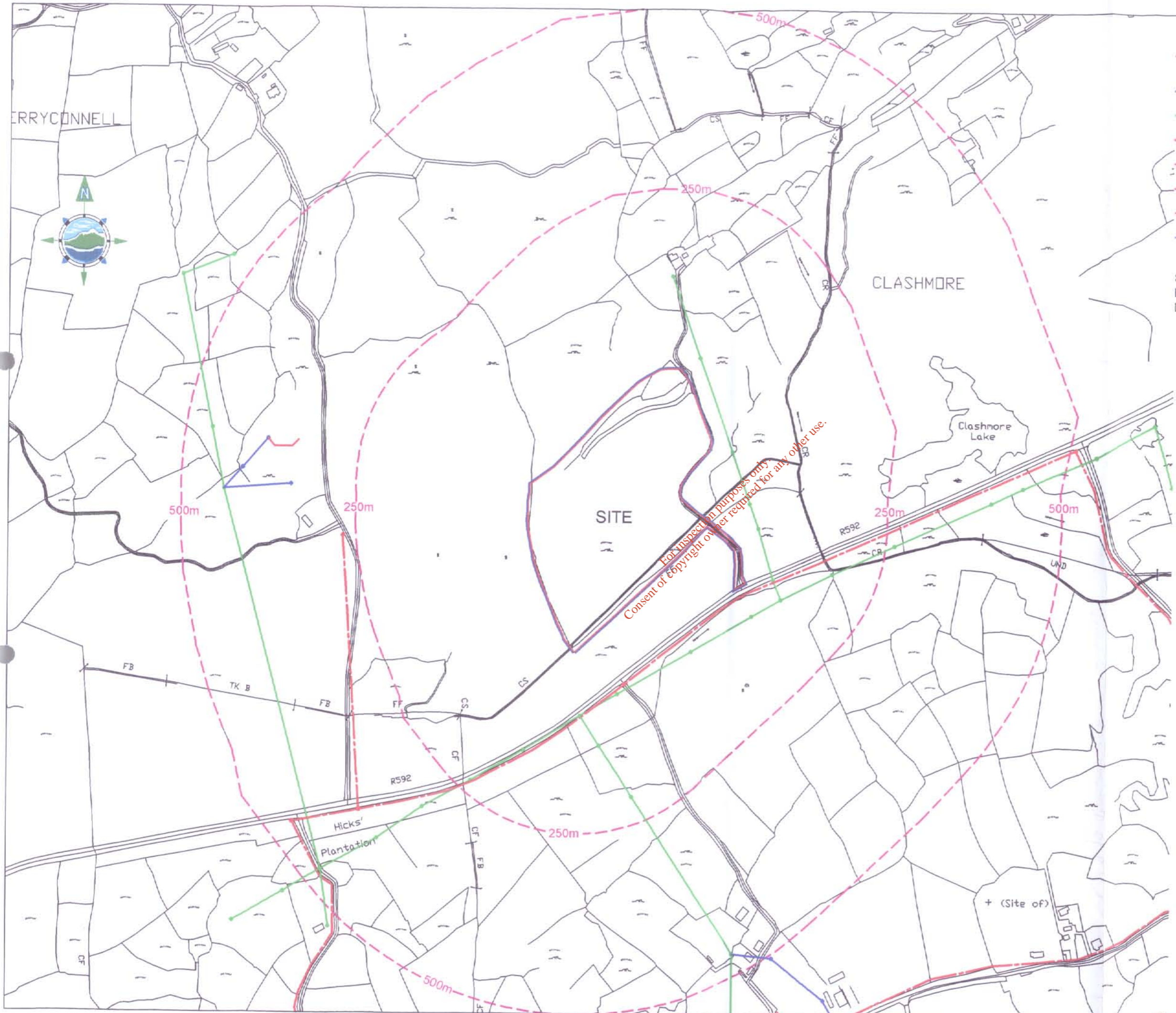
**Article 12(1)t: Directive 80/68/EEC**

The landfill will comply with the Directive.

Inserts here

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**LEGEND**

- ESB UNDERGROUND CABLE ROUTES
- ESB L.V. OVERHEAD LINES
- ESB M.V. OVERHEAD LINES
- TELEPHONE OVERHEAD LINES
- - - 250m FROM BOUNDARY
- - - 500m FROM BOUNDARY
- LICENCED BOUNDARY
- LAND OWNERSHIP BOUNDARY

SERVICES WITHIN THE LICENCED BOUNDARY ARE SHOWN ON DRAWINGS 2528-2613 & 2614

**NOTES**

1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING
2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
3. ENGINEER TO BE INFORMED BY THE CONTRACTOR OF ANY DISCREPANCIES BEFORE ANY WORK COMMENCES
4. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

No.	Date	Description	By	Chkd.
A	JUNE 07	WASTE LICENCE APPLICATION	JOB	CD

Client: **CORK COUNTY COUNCIL**

Project: **WEST CORK WASTE MANAGEMENT FACILITIES**  
**WASTE LICENCE APPLICATION**

Title: **DERRYCONNELL**  
**LOCATION MAP & SERVICES PLAN WITHIN 500m OF SITE**

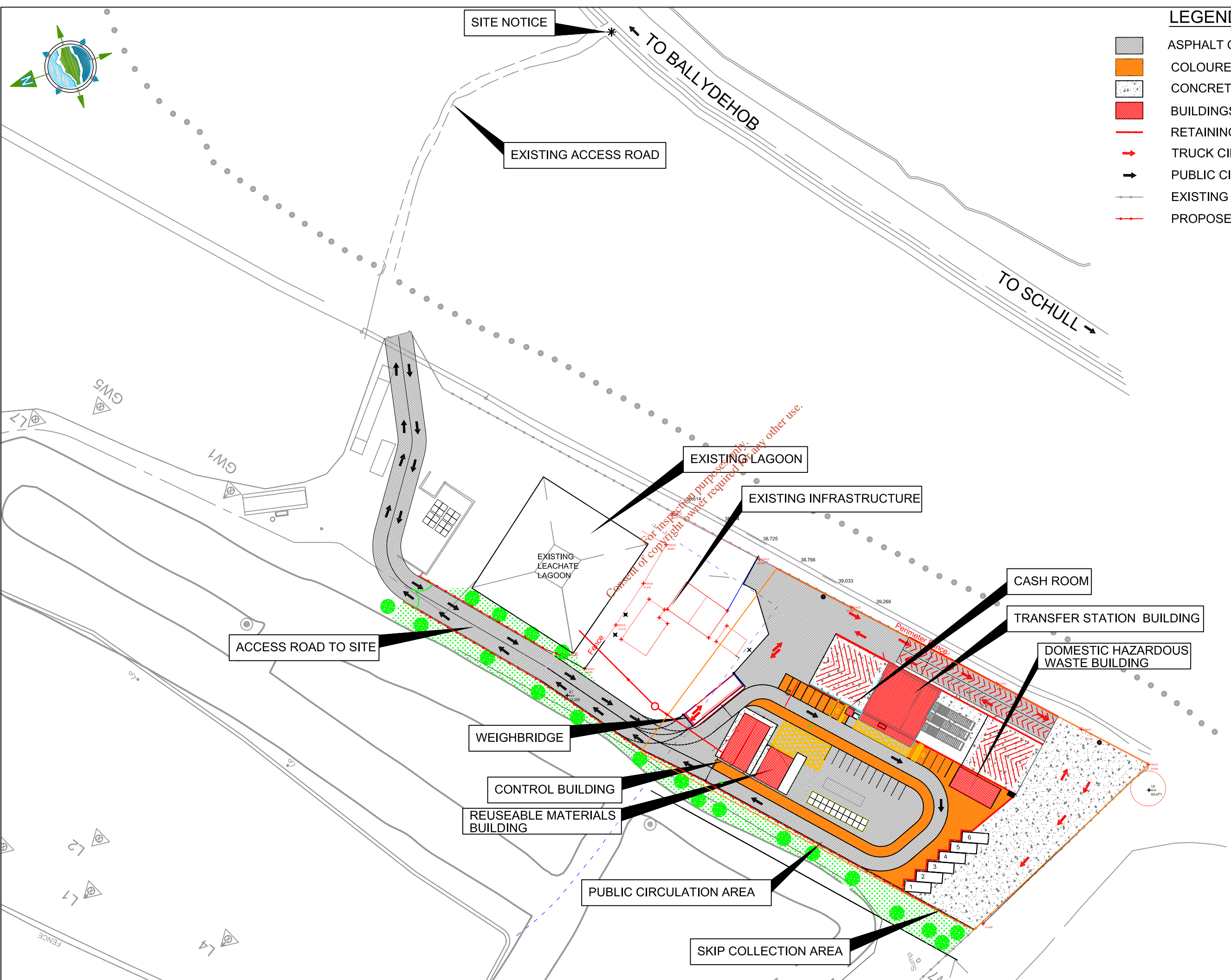
Scale @ A3: **1:5,000**

Prepared by: **JOB**      Checked: **O.D.**      Date: **JUNE 07**

Project Director: **B. DOWNES**

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Drawing No: **2528-2611**      Revision: **A**



- ### LEGEND
- ASPHALT CIRCULATION AREA
  - COLOURED ASPHALT STOPPING ZONE
  - CONCRETE HARDSTAND
  - BUILDINGS
  - RETAINING WALL
  - TRUCK CIRCULATION ROUTE
  - PUBLIC CIRCULATION ROUTE
  - EXISTING FENCING
  - PROPOSED FENCING

- ### NOTES
1. FIGURED DIMENSIONS ONLY TO BE TAKEN FROM THIS DRAWING
  2. ALL DRAWINGS TO BE CHECKED BY THE CONTRACTOR ON SITE
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  4. ALL LEVELS SHOWN RELATE TO ORDNANCE SURVEY DATUM AT MALIN HEAD

Issue	Date	Description	By	Ct
A	JUNE '07	WASTE LICENCE APPLICATION	JOB	C

Client: **CORK COUNTY COUNCIL**

Project: **WEST CORK WASTE MANAGEMENT FACILITIES**  
**WASTE LICENCE APPLICATION**

Title: **DERRYCONNELL OVERALL SITE LAYOUT PLAN**

Scale @ A3: **1:1000**

Prepared by: **JO'B**      Checked:      Date: **JUNE '07**

Project Director: **B. DOWNES**



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Drawing No.: **2528-2612**      Issue: **A**