



**Murphy Environmental
Hollywood Ltd**

MEHL Integrated Waste Management Facility

**Hollywood Great,
Nag's Head,
Naul,
Co Dublin**

EIS Figures

December 2010

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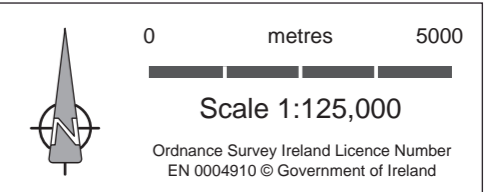
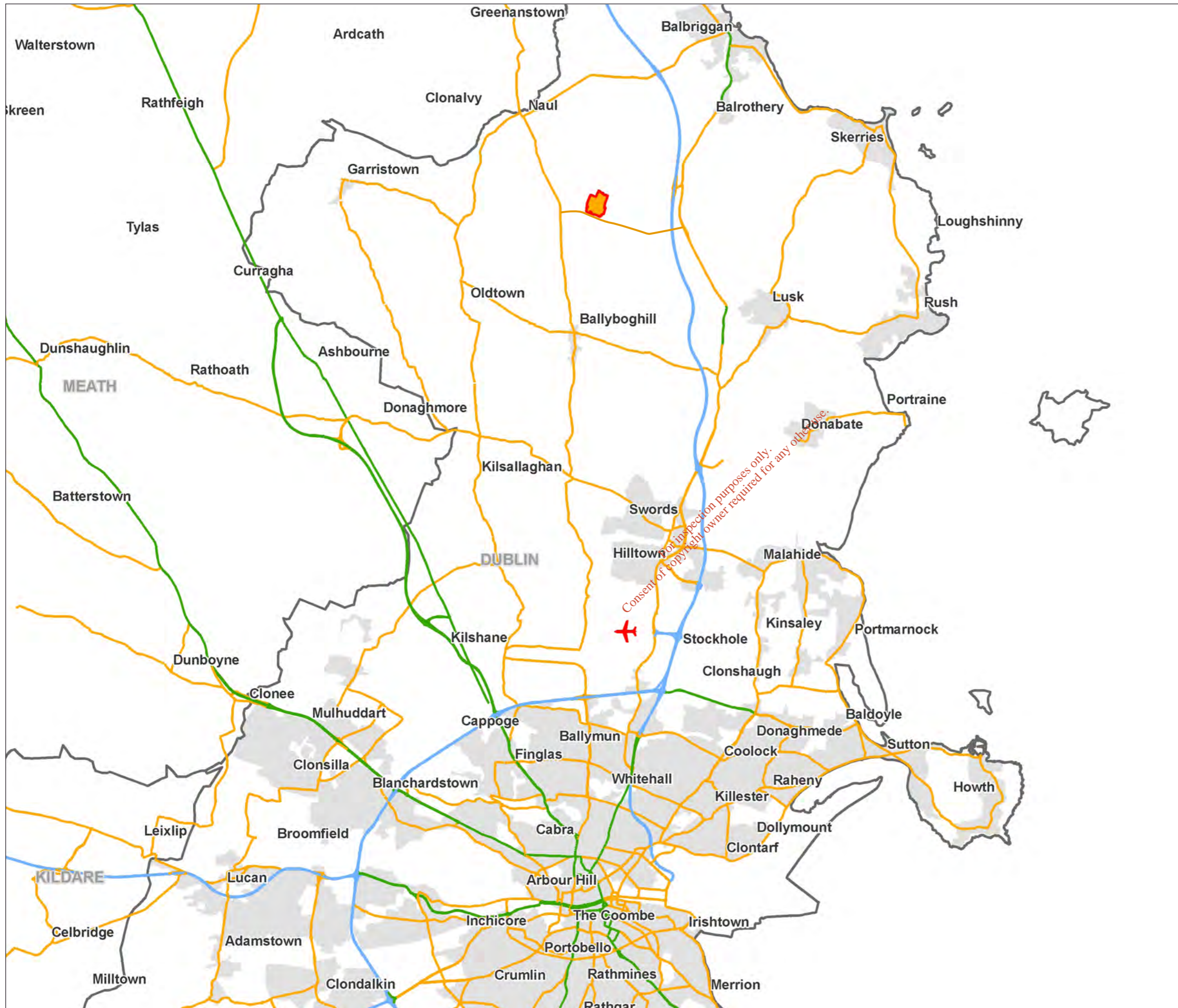
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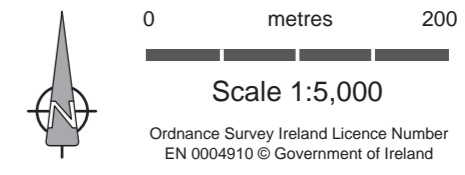
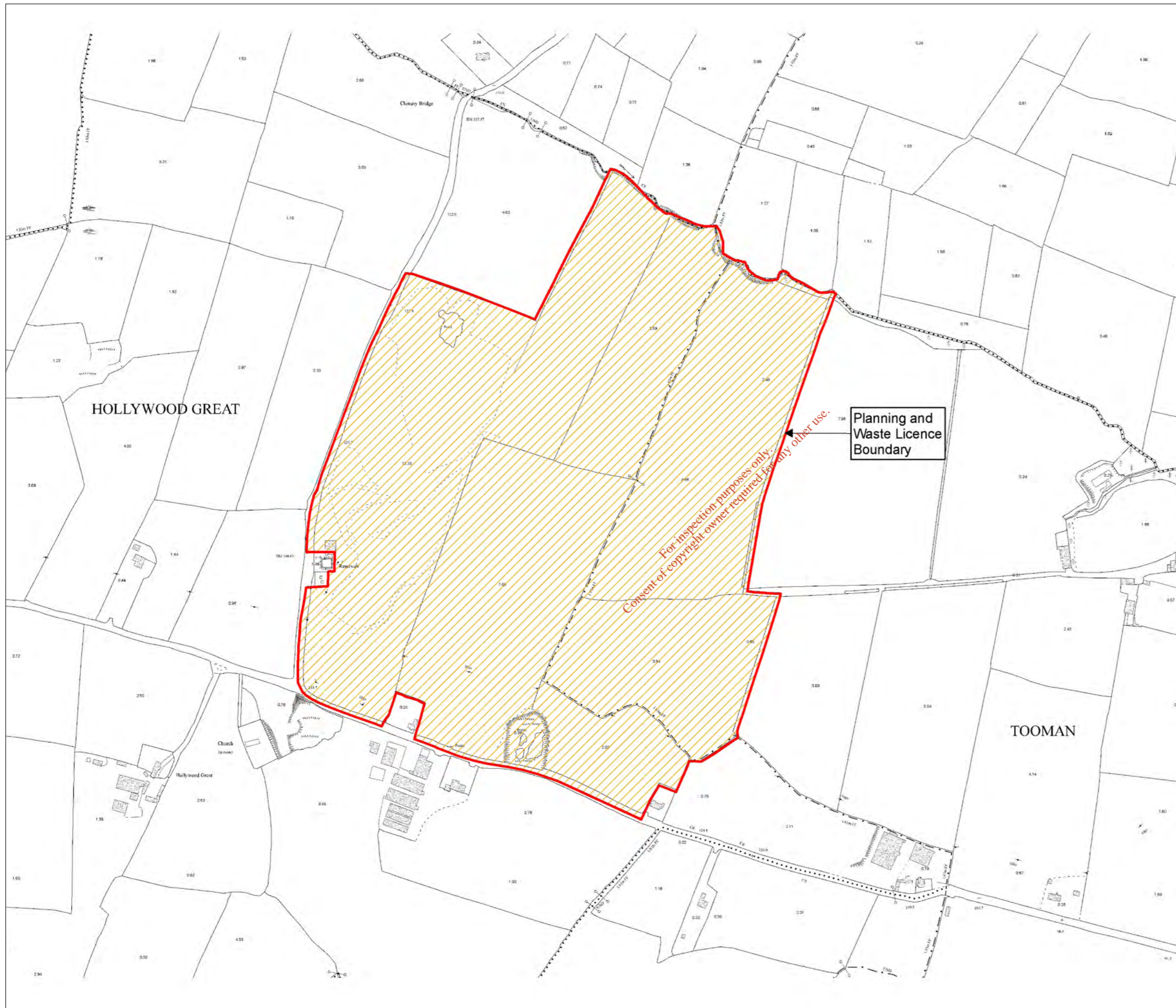
- Legend**
- MEHL Proposed Planning and Waste Licence Boundary
 - Dublin Airport
 - Motorway
 - National Road
 - Regional Road
 - County Boundary
 - Urban Area

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MEHL Integrated Waste Management Facility
 Hollywood Great, Nags Head, Naul, Co Dublin

Site Location Map (1:125,000)

December 2010 Figure 1.1



Legend
 MEHL Proposed Planning and Waste Licence Boundary

Planning and Waste Licence Boundary

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Site Location Map (1:5,000)

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Figure 1.2



Not to Scale

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Legend

- ★ MEHL Facility
- ▲ Waste to Energy Facilities (proposed / under construction)
- Motorway
- National / A Roads

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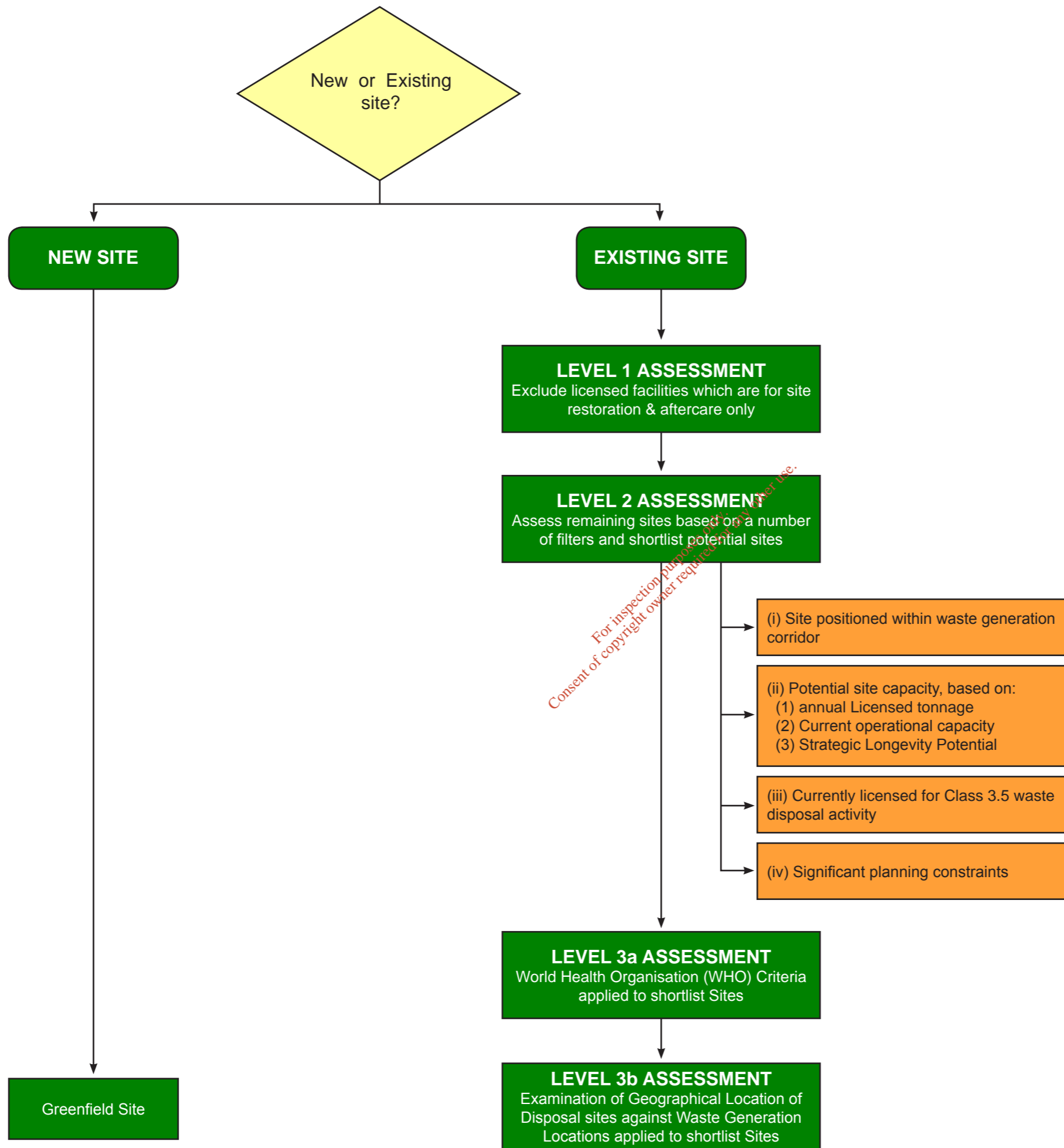


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Location of Proposed Waste to Energy Facilities

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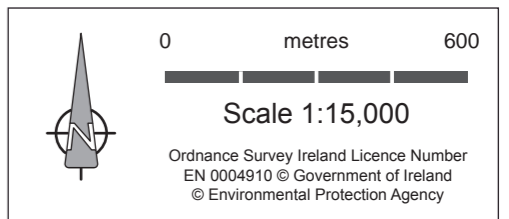
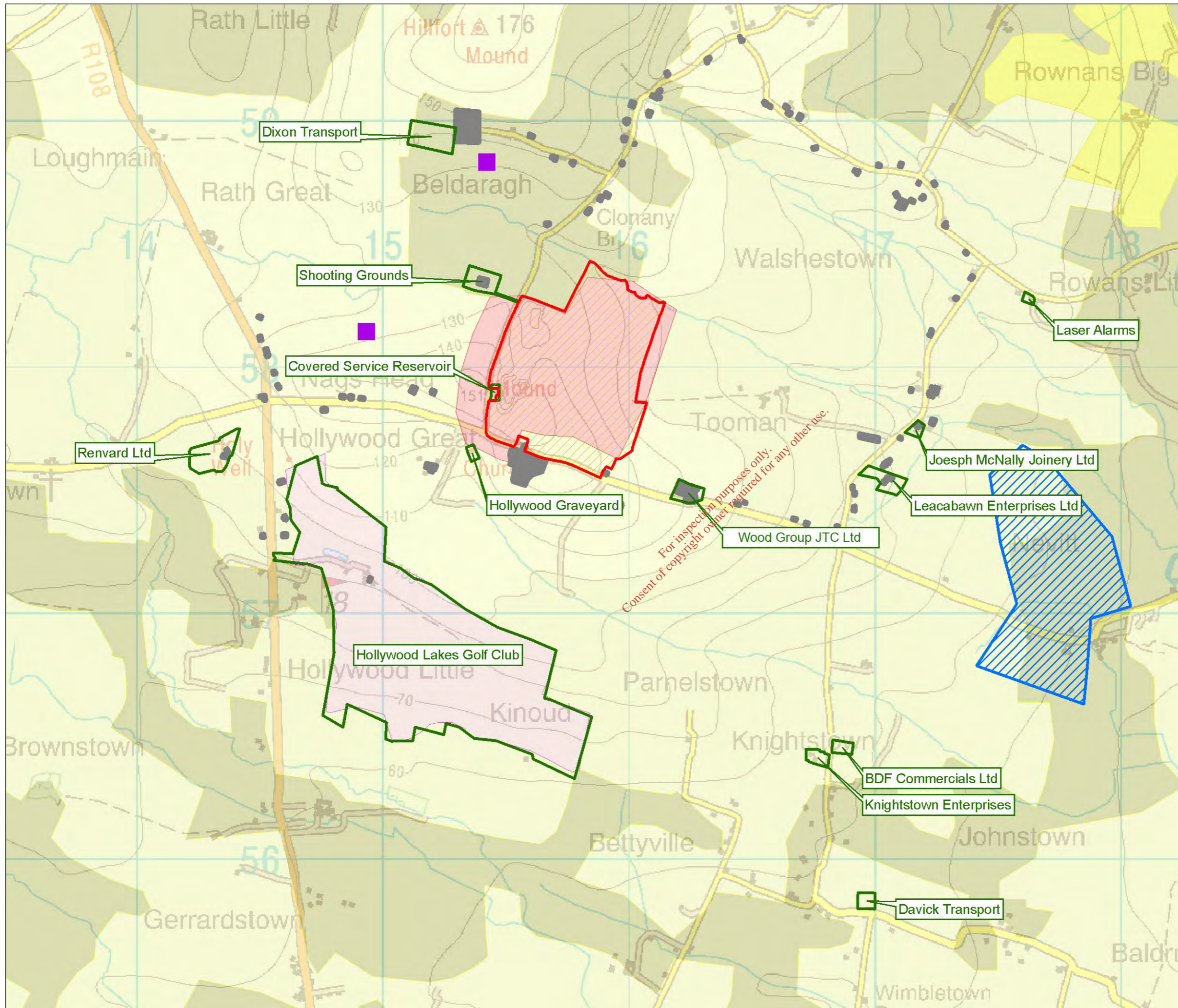
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Overview of Site Suitability Assessment Approach

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Figure 3.1



Legend

- MEHL Proposed Planning and Waste Licence Boundary
- Licensed Fingal County Council Landfill (approx boundary as not yet constructed)
- Permitted Waste Facility
- Neighbouring Businesses
- Residential Dwellings

Landcover Type

- Mineral extraction sites
- Sport and leisure facilities
- Non-Irrigated arable land
- Pastures
- Complex cultivation

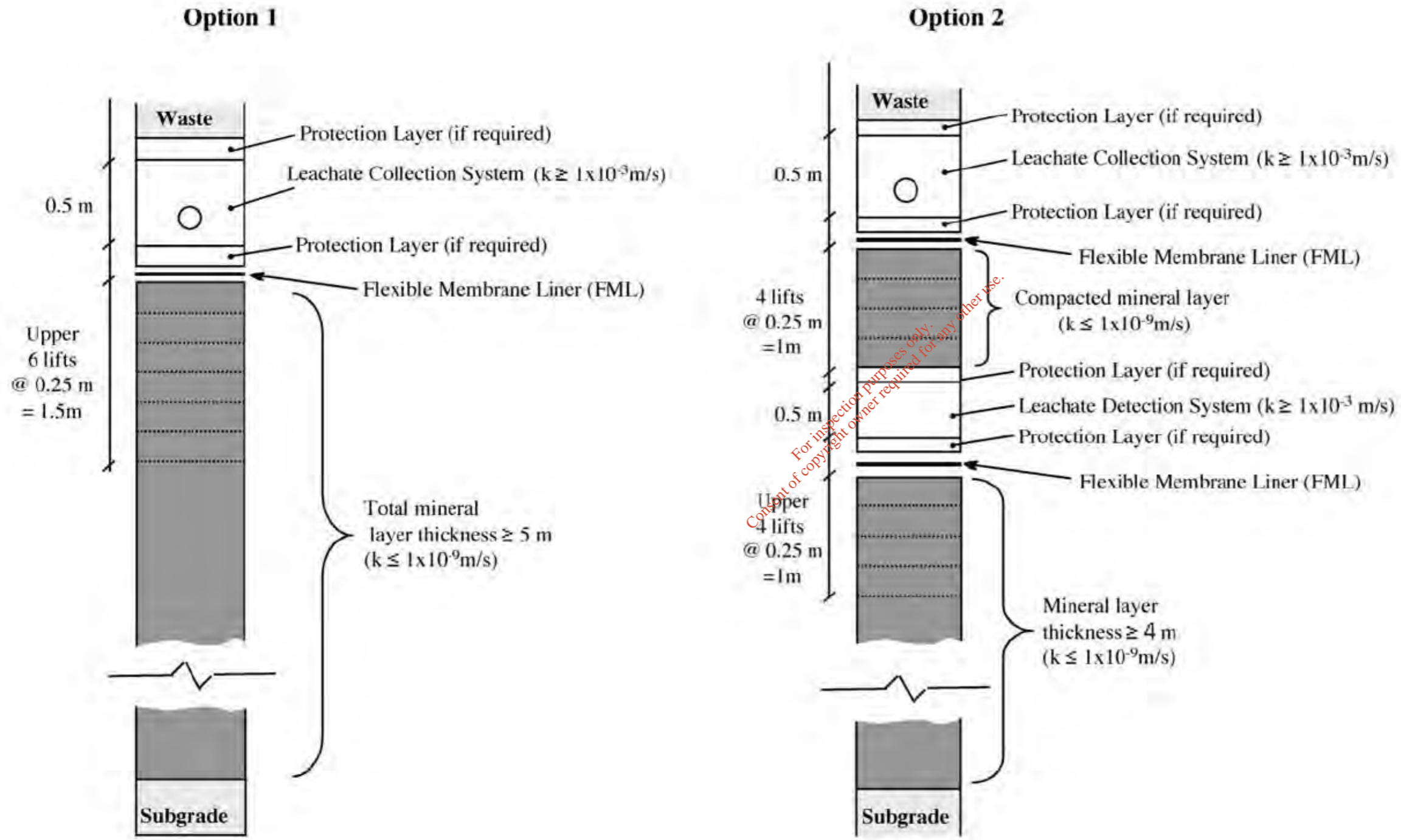
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Land uses in the vicinity of the MEHL site

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Hazardous Waste Landfill



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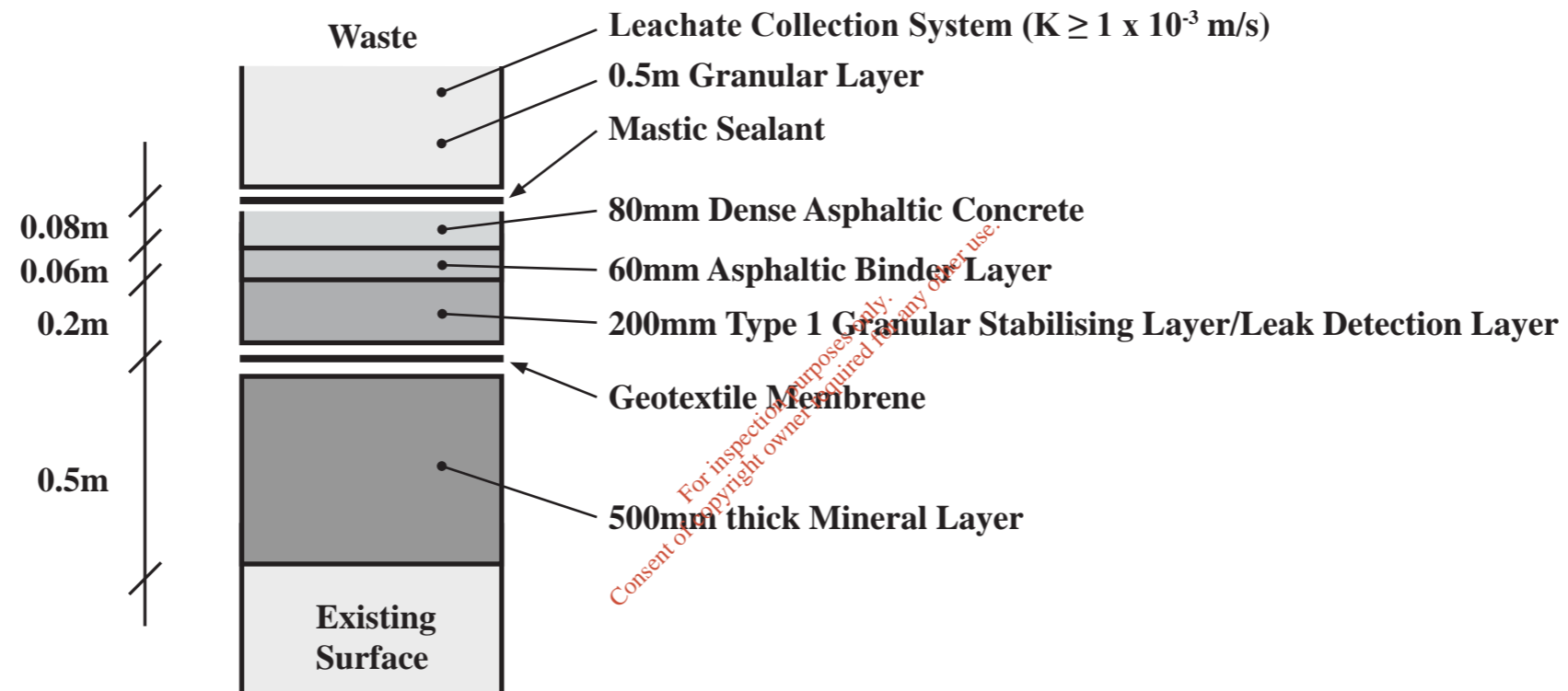

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Lining System for Hazardous Waste Landfills

DAC Lining System



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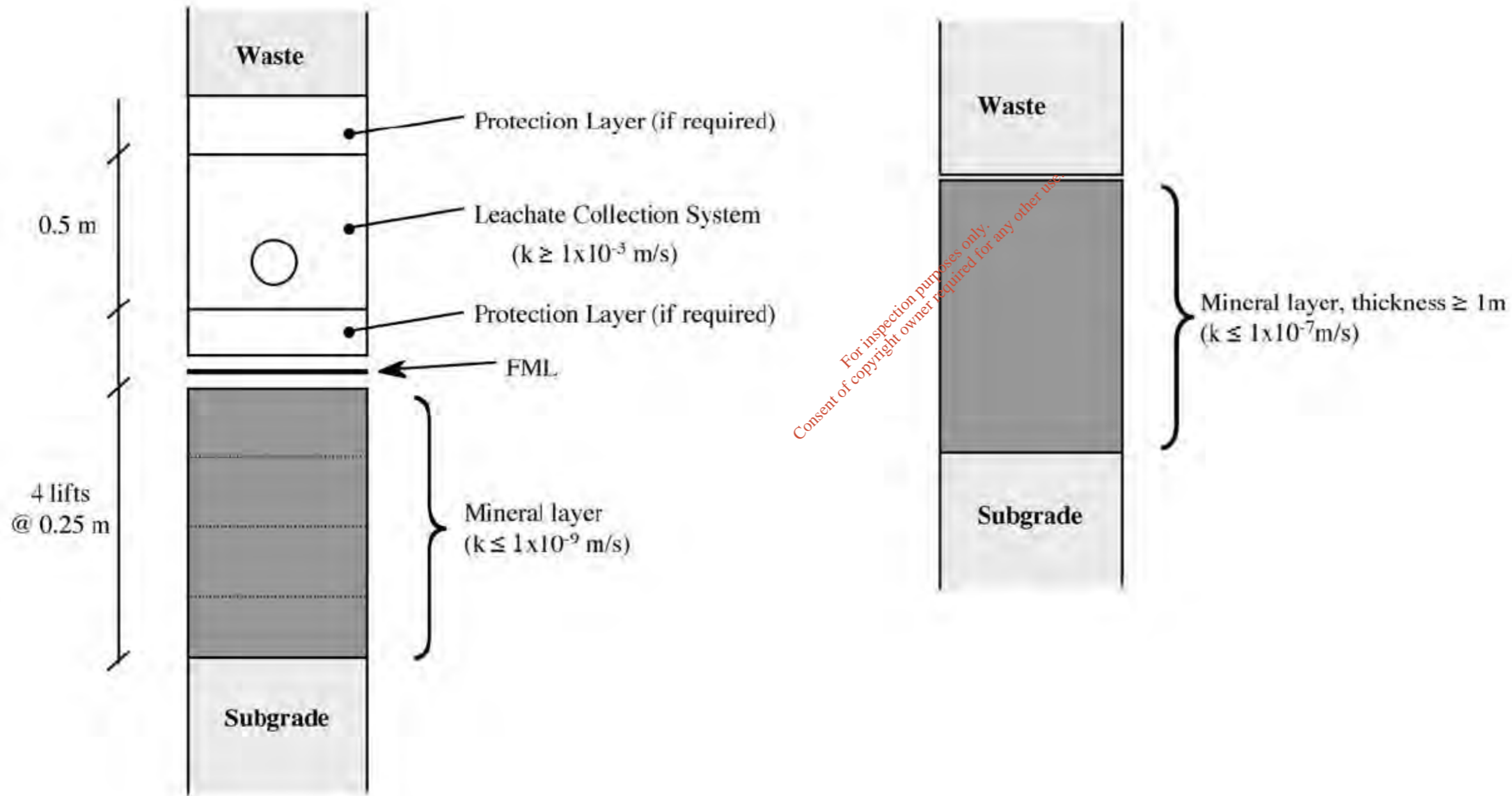
DAC lining System

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Figure 3.4

Non-Hazardous Biodegradable Waste Landfill

Inert Waste Landfill



Source :
EPA Landfill Manual
Landfill site Design 2000

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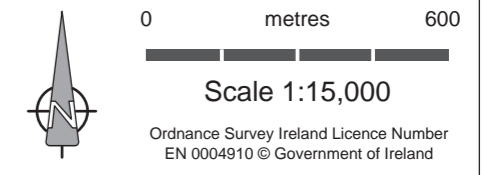
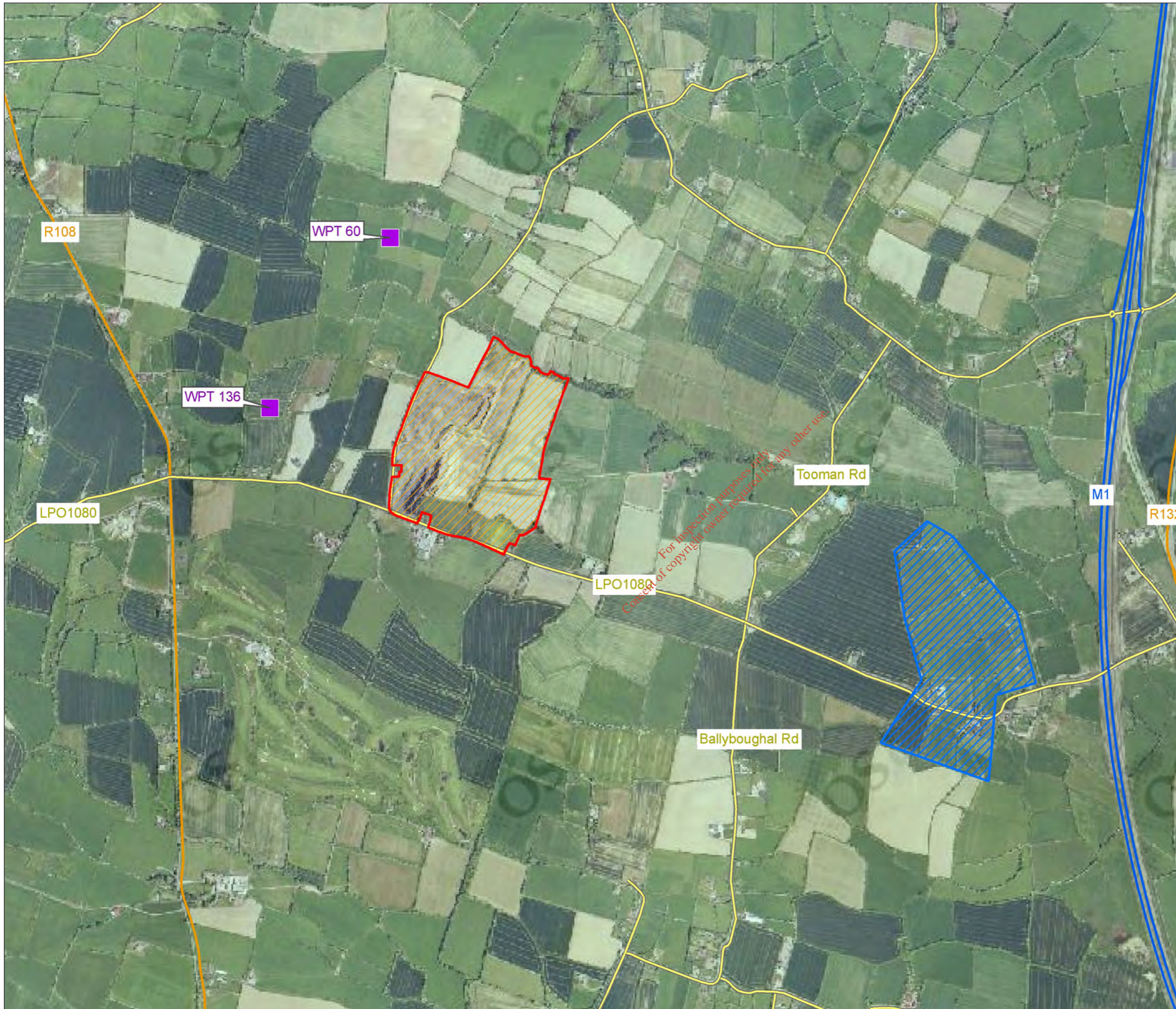
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Lining Systems for Non-Hazardous and Inert Waste Landfills

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Figure 3.5



Legend

- MEHL Proposed Planning and Waste Licence Boundary
- Licensed Fingal County Council landfill (approx boundary as not yet constructed)
- Permitted Waste Facility
- Motorway
- National Secondary
- Regional

Aerial Photography: 2005

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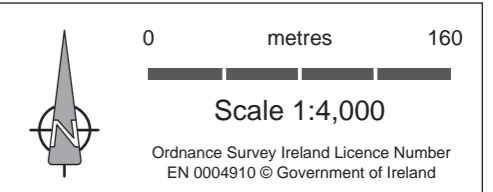
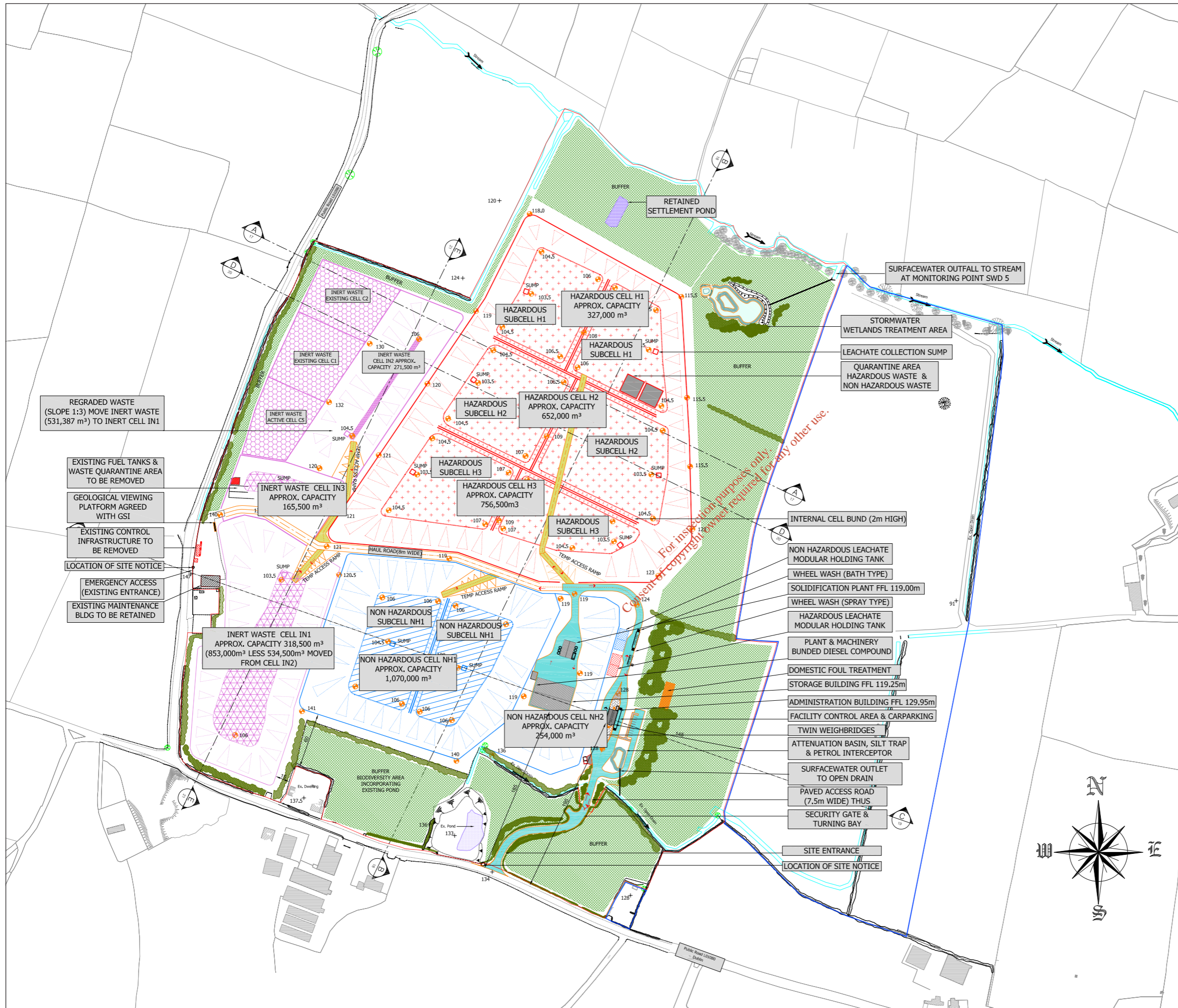
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Site in Context (Aerial)

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Figure 4.1



- Legend**
- Adjoining Lands in control of MEHL
 - MEHL Proposed Planning and Waste Licence Boundary
 - Proposed Paved Hardstanding
 - Proposed Location for Hazardous Cells
 - Proposed Location for Non-Hazardous Cells
 - Existing Inert Cells
 - Proposed Location for Inert Cells
 - Buffer Zone

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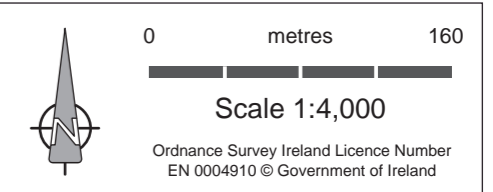
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Proposed Site Layout

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OVERALL PHASING PLAN



Legend

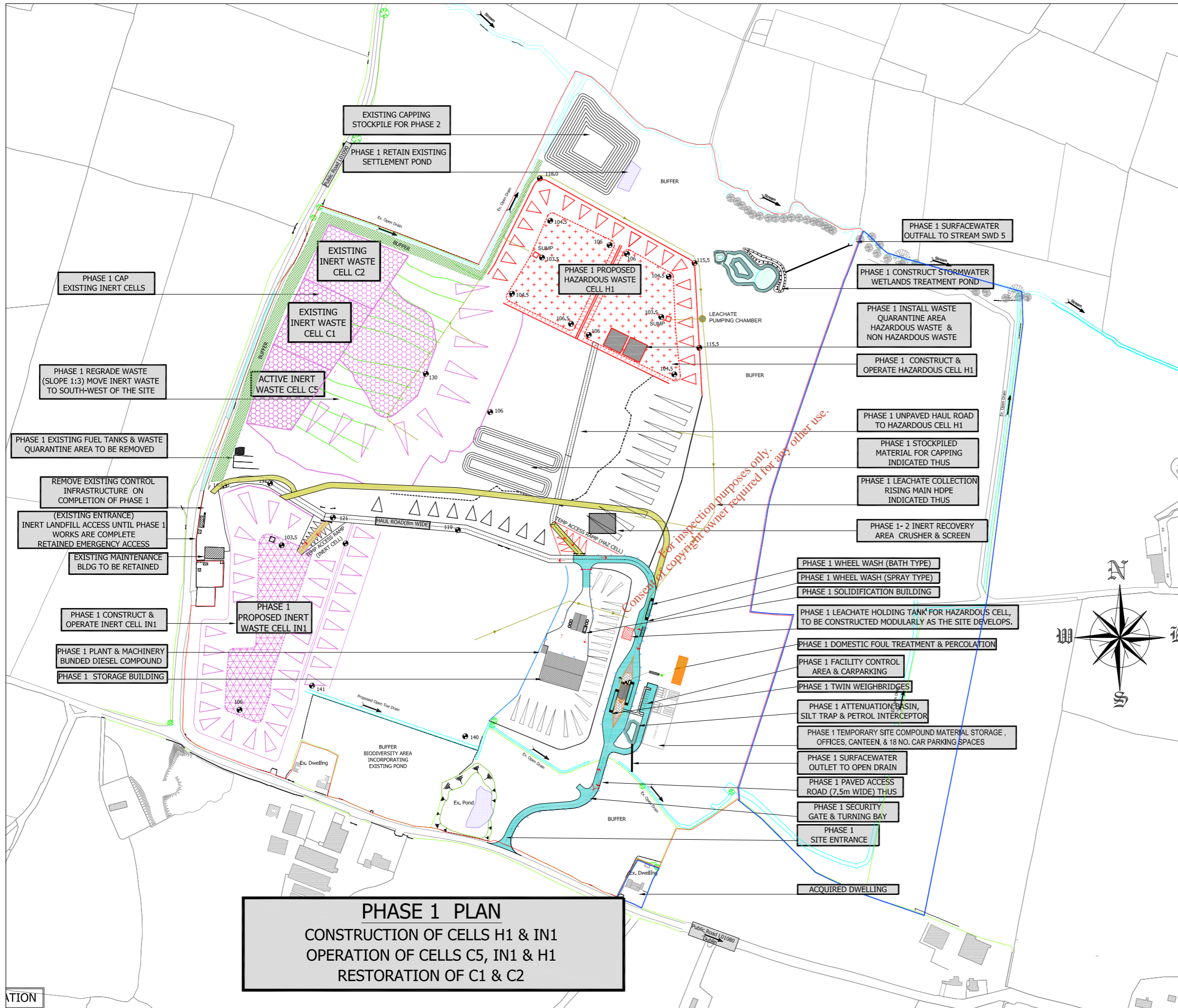
- Adjoining Lands in control of MEHL
- MEHL Proposed Planning and Waste Licence Boundary
- Proposed Paved Hardstanding
- Proposed Location for Hazardous Cells
- Proposed Location for Non-Hazardous Cells
- Existing Inert Cells
- Proposed Location for Inert Cells
- Buffer Zone
- Phase 1 Site Development Works
- Phase 2 Site Development Works
- Phase 3 Site Development Works
- Phase 4 Site Development Works

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Overall Construction Phasing Plan

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0 metres 160

Scale 1:4,000

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LEGEND

- Adjoining Lands in control of MEHL
- Proposed Planning & EPA Waste Licence Boundary
- Proposed Paved Hardstanding
- Proposed Location for Hazardous Cells
- Proposed Location for Non-Hazardous Cells
- Existing Inert Cells
- Proposed Location for Inert Cells
- Proposed Landscaped Buffer Zone
- Traffic flow
- Embankment (Slope Direction)
- Proposed Level / Top of Liner
- Existing Ground Level Contour
- Existing Spot Level
- Existing Surface Water
- Existing Public Watermain Sluice Valve
- Existing Public Watermain Hydrant
- Existing Road Sign
- Existing Telephone Pole
- Existing Electrical Pole
- Existing Electrical Duct & Access Chamber
- Existing Access Gate
- Existing Fence (Various Types)
- Existing Masonary Wall
- Existing Hedgerow

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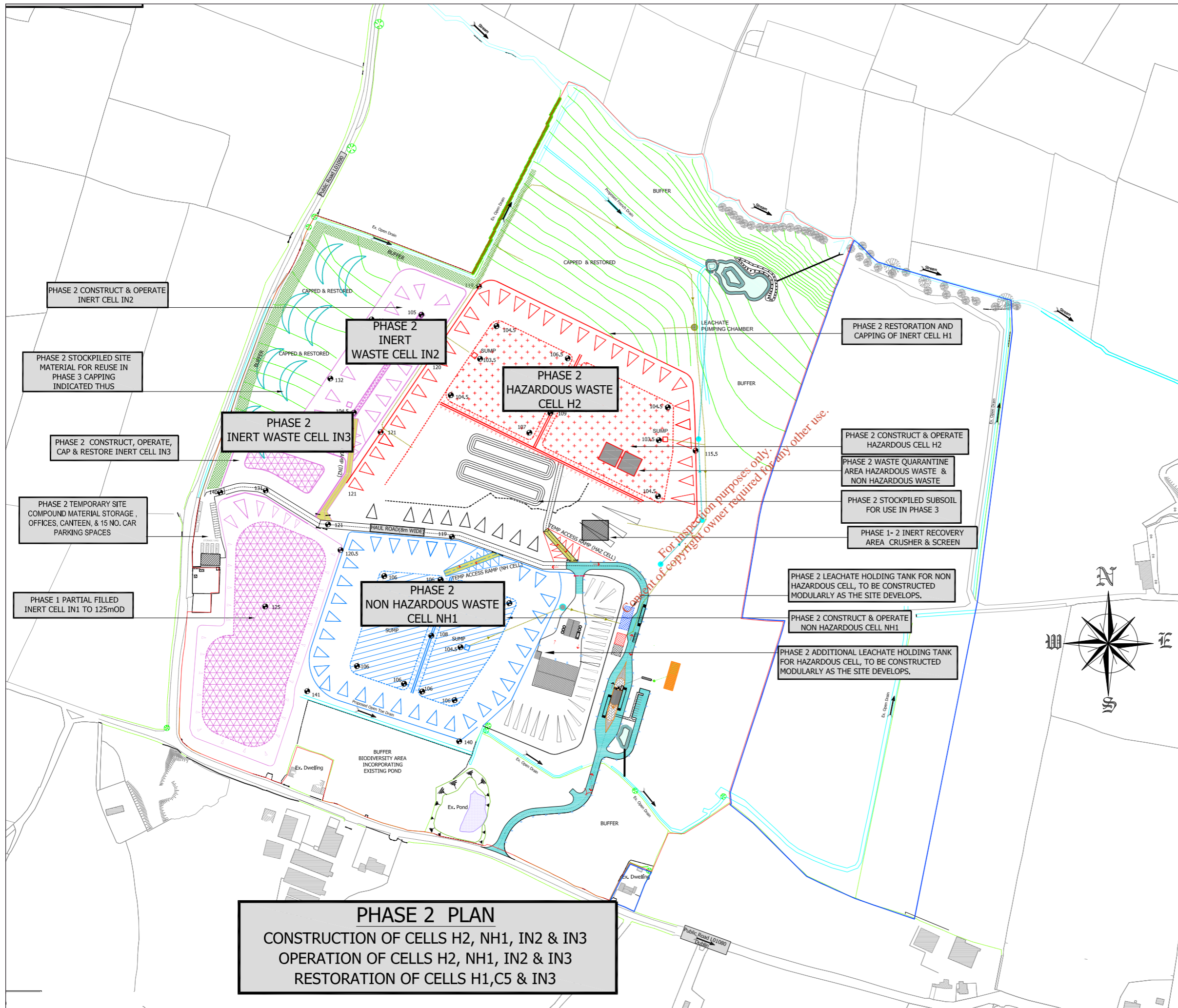
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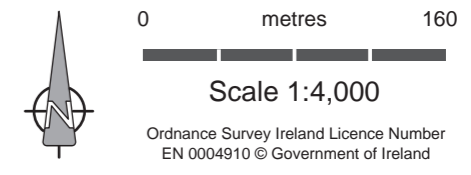
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Construction Phasing Phase 1

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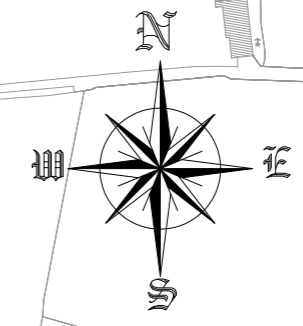


PHASE 2 PLAN
 CONSTRUCTION OF CELLS H2, NH1, IN2 & IN3
 OPERATION OF CELLS H2, NH1, IN2 & IN3
 RESTORATION OF CELLS H1, C5 & IN3



LEGEND

	Adjoining Lands in control of MEHL
	Proposed Planning & EPA Waste Licence Boundary
	Proposed Paved Hardstanding
	Proposed Location for Hazardous Cells
	Proposed Location for Non-Hazardous Cells
	Existing Inert Cells
	Proposed Location for Inert Cells
	Proposed Landscaped Buffer Zone
	Traffic flow
	TOP
	BOTTOM
	Proposed Level / Top of Liner
	Existing Ground Level Contour
	Existing Spot Level
	Existing Surface Water
	Existing Public Watermain Sluice Valve
	Existing Public Watermain Hydrant
	Existing Road Sign
	Existing Telephone Pole
	Existing Electrical Pole
	Existing Electrical Duct & Access Chamber
	Existing Access Gate
	Existing Fence (Various Types)
	Existing Masonry Wall
	Existing Hedgerow



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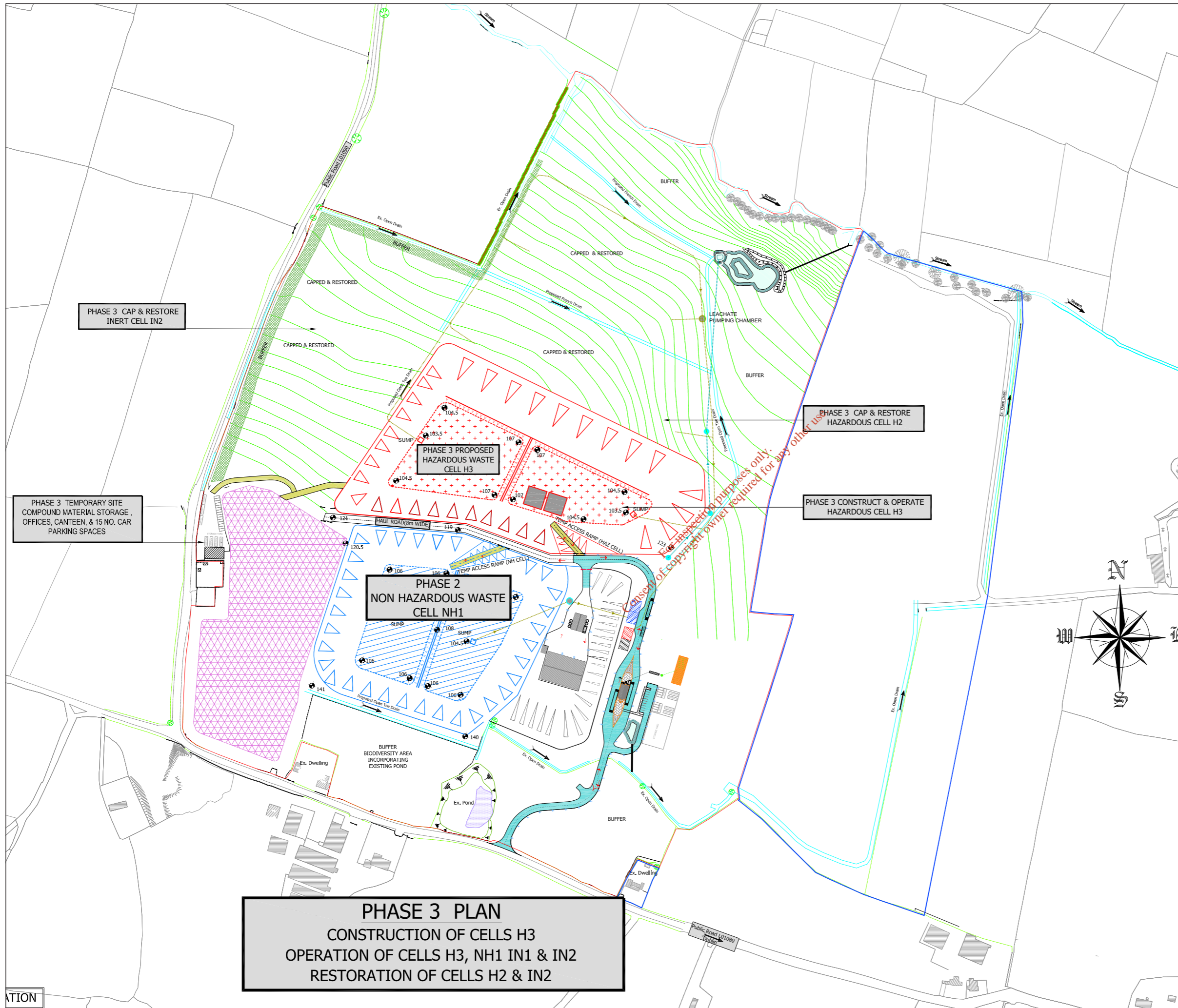
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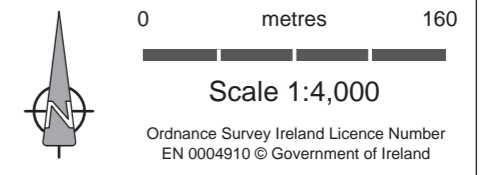
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Construction Phasing
Phase 2

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PHASE 3 PLAN
 CONSTRUCTION OF CELLS H3
 OPERATION OF CELLS H3, NH1 IN1 & IN2
 RESTORATION OF CELLS H2 & IN2



LEGEND

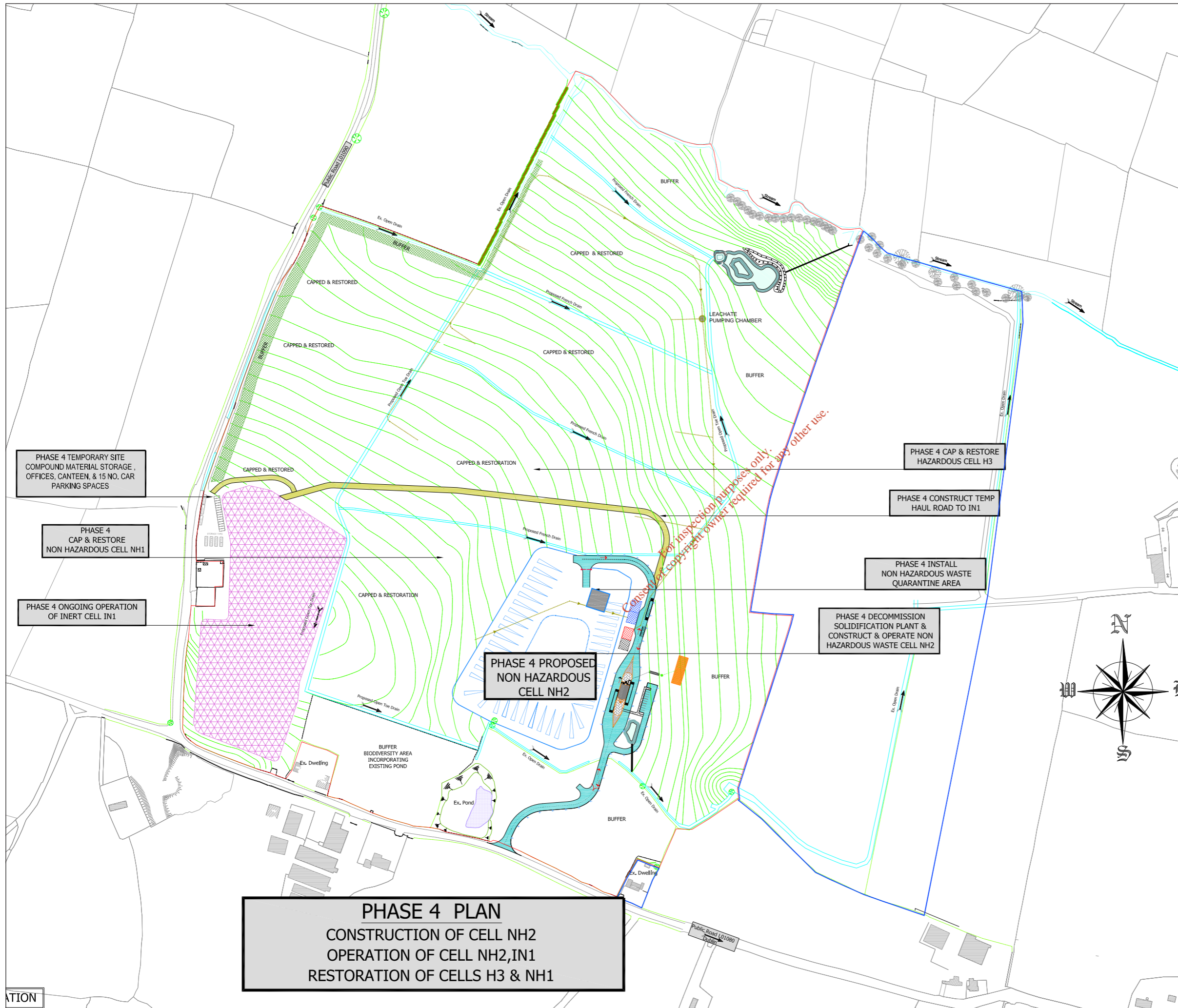
- Adjoining Lands in control of MEHL
- Proposed Planning & EPA Waste Licence Boundary
- Proposed Paved Hardstanding
- Proposed Location for Hazardous Cells
- Proposed Location for Non-Hazardous Cells
- Existing Inert Cells
- Proposed Location for Inert Cells
- Proposed Landscaped Buffer Zone
- Traffic flow
- Embankment (Slope Direction)
- Proposed Level / Top of Liner
- Existing Ground Level Contour
- Existing Spot Level
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- Existing Public Watermain Hydrant
- Existing Road Sign
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- Existing Access Gate
- Existing Fence (Various Types)
- Existing Masonry Wall
- Existing Hedgerow

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Construction Phasing
Phase 3

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0 metres 160
 Scale 1:4,000
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- Adjoining Lands in control of MEHL
- Proposed Planning & EPA Waste Licence Boundary
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- Proposed Location for Non-Hazardous Cells
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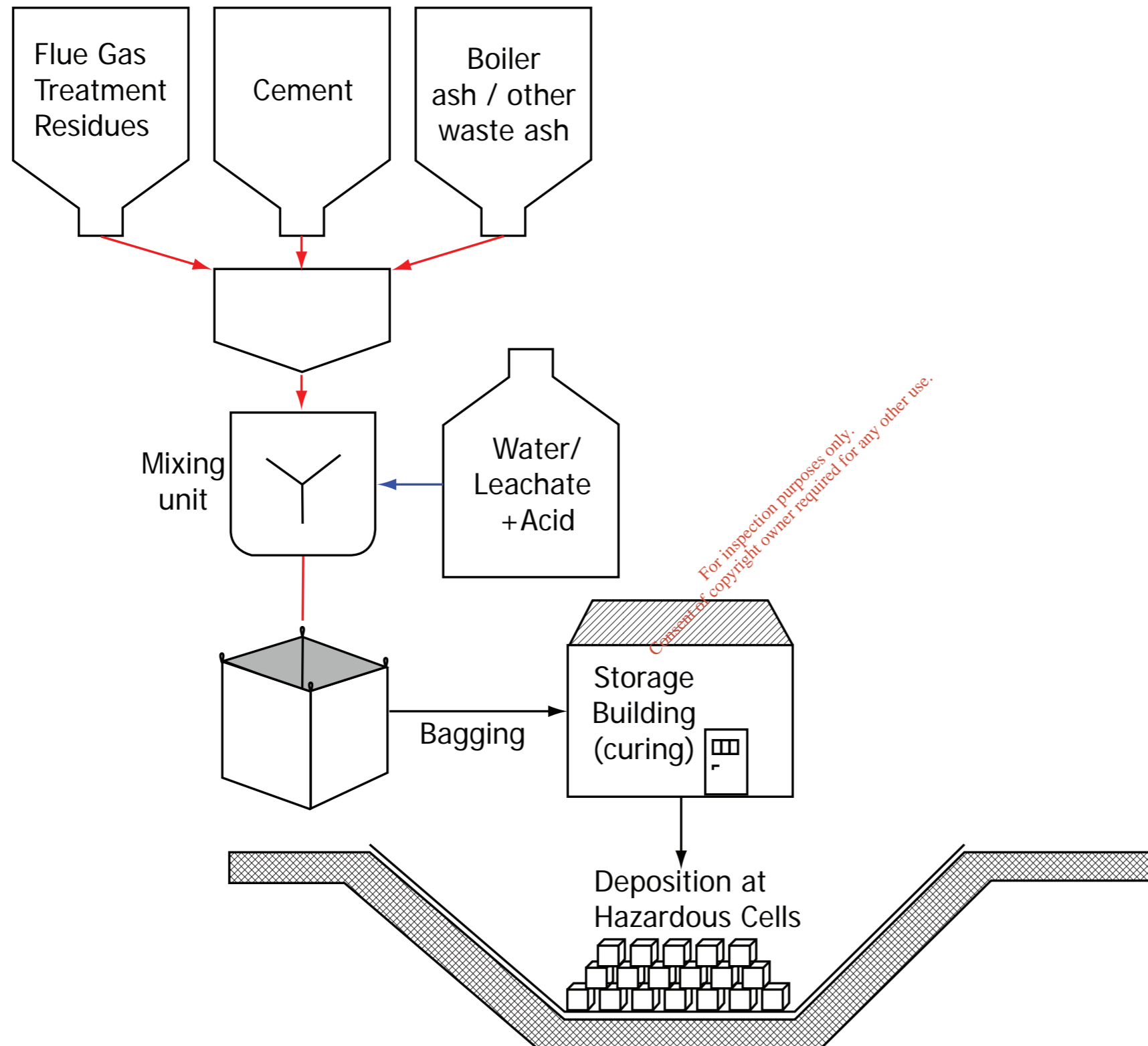
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Construction Phasing Phase 4

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Proposed Solidification Process Flowsheet

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Figure 4.8



Construction of Dense Asphaltic Concrete (DAC) Liner on base of Waste Cell



Construction of Dense Asphaltic Concrete (DAC) Liner on side Wall of Waste Cell

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Typical Construction of DAC Liner

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Figure 5.1

Source:
Landfill Site, UK
Rye loaf Landfill, Bingley, UK



Construction of Waste Cell to Formation Level



Construction of High-density Polyethylene (HDPE) Liner

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Typical Construction of a
Non – Hazardous Liner

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Figure 5.2



Construction of Inert Cell with Clay Liner



Construction of Inert Liner on Base of Waste Cell

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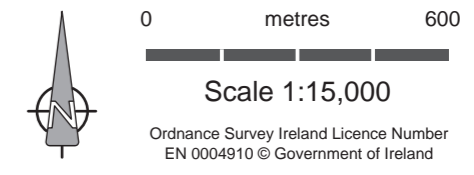
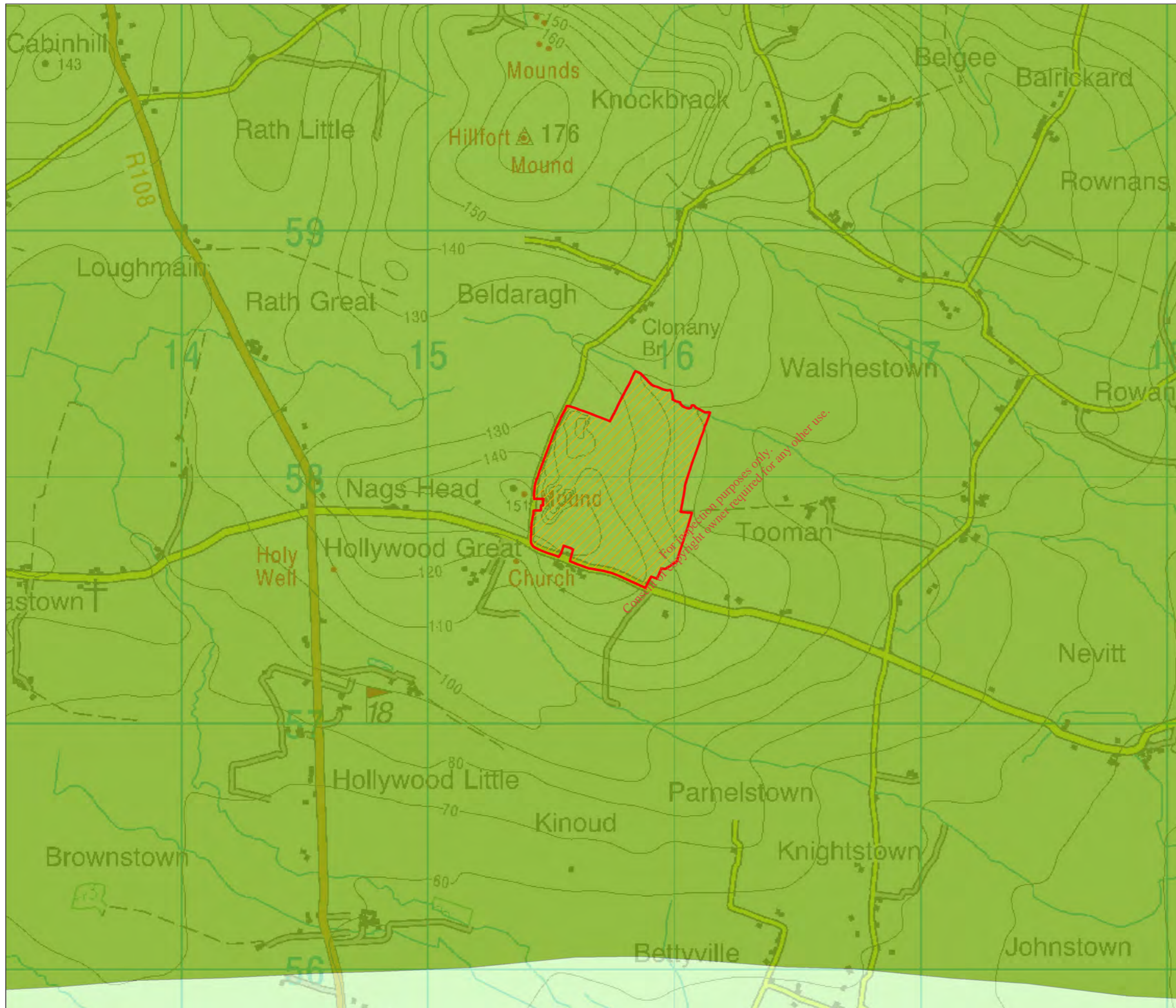
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Typical Construction of an Inert
Liner

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Figure 5.3



- Legend**
- MEHL Proposed Planning and Waste Licence Boundary
 - High Lying Agricultural
 - Low Lying Agricultural

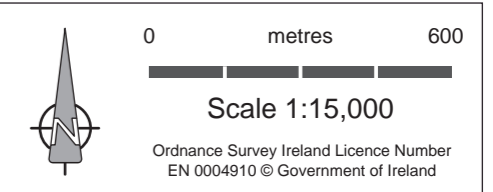
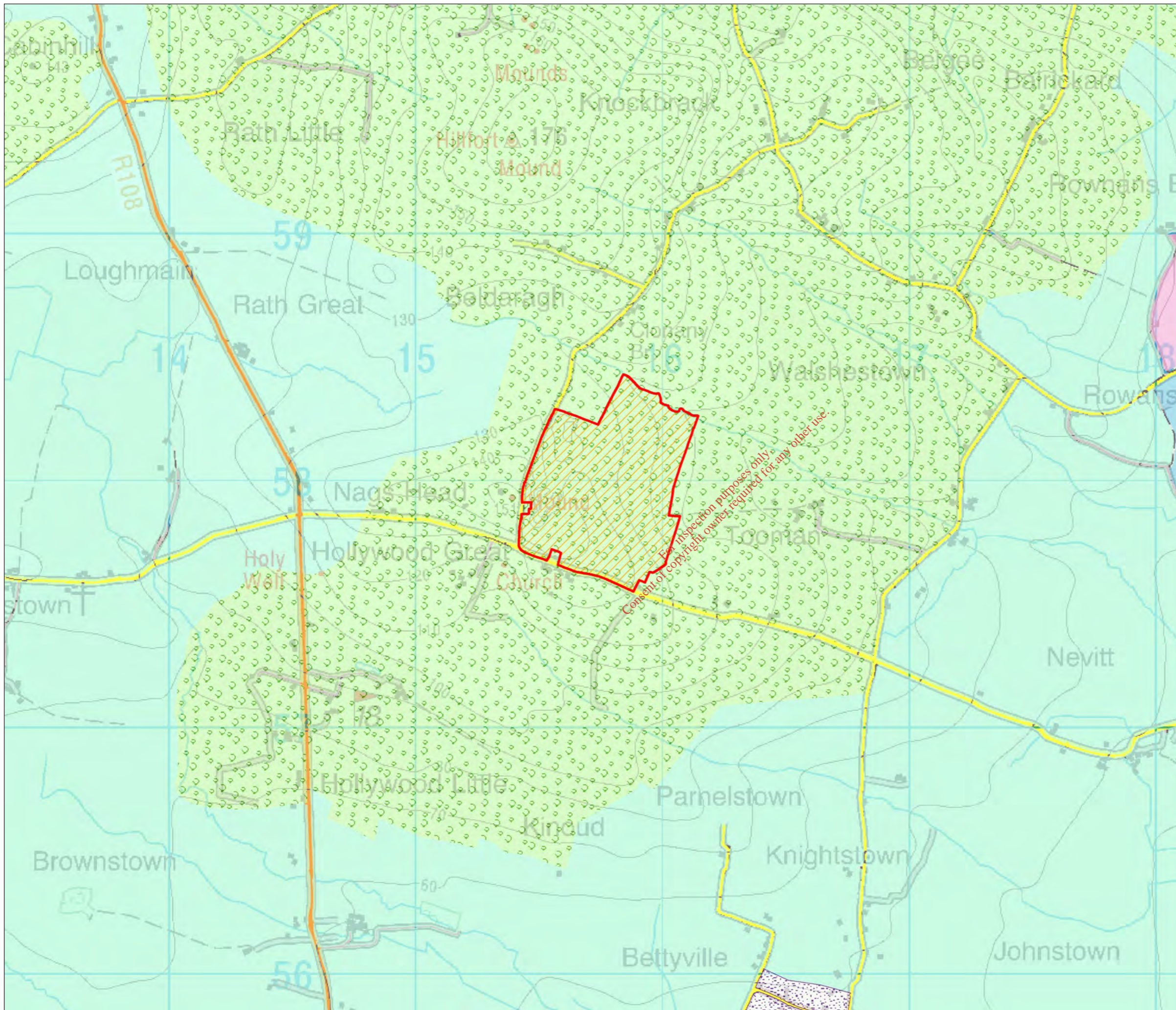
Source:
Fingal County Development Plan
2005 - 2011

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Landscape Characterisation Area

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- Legend**
- MEHL Proposed Planning and Waste Licence Boundary
 - To facilitate opportunities for general industrial employment and related uses in new industrial areas
 - To facilitate opportunities for science and technology based employment
 - To protect and improve high amenity areas
 - To protect and provide for the development of agriculture and rural amenity
 - To protect residential amenity and the character of settlement clusters and provide for small scale infill

Source:
Fingal County Development Plan
2005 - 2011

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Site Zoning Map

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Legend
 MEHL Proposed Planning and Waste Licence Boundary
 Local Water Network

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Local Road Network
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