

TABLE OF CONTENTS

NON TECHNICAL SUMMARY

SECTION 1. INTRODUCTION

1.1	Overview of the Proposed Development	1-1
1.2	Location and Setting	1-1
1.3	Site Facilities	1-2
1.4	Infrastructure	1-2
1.5	Planning Context	1-3
1.6	Waste Strategies	1-3
1.6.1	EU Policy	1-4
1.6.2	EU Legislation	1-4
1.6.3	National Strategy Context	1-4
1.6.4	Regional Strategy	1-5
1.7	Alternatives	1-6
1.7.1	Alternative Waste Management Practices	1-6
1.7.2	Alternative Sites	1-6
1.7.3	The Do Nothing Alternative	1-7
1.8	Requirement for an EIS	1-8
1.9	Structure of the EIS	1-8
1.10	Contributors to the EIS	1-8
1.11	Scoping of the EIS	1-9
1.12	Data Necessary to identify and Assess Environmental Effects of Development	1-9
1.13	Difficulties Compiling Specified Information	1-10

**1.14 Forecasting Methods used to Assess the
Effects on the Environment**

1-10

SECTION 2. DESCRIPTION OF RECEIVING ENVIRONMENT

2.1	Climate	2-1
2.1.1	Rainfall	2-1
2.1.2	Wind	2-1
2.1.3	Temperature	2-2
2.2	Air Quality	2-3
2.2.1	General	2-3
2.2.2	Aerosol Emissions	2-3
2.2.3	Decomposition Gas Emissions	2-3
2.2.4	Odour Emissions	2-3
2.2.5	Dust Emissions	2-4
	2.2.5.1 Methodology	2-4
	2.2.5.2 Results	2-4
2.3	Noise	
2.3.1	Introduction	2-6
2.3.2	Noise Sources	2-6
2.3.3	Data Acquisition	2-6
2.3.4	Ambient Noise Level Measurements	2-7
2.3.4.1	Short Term Noise Level Measurements	2-7
2.4	Soils & Geology	2-10
2.4.1	Regional Geology	2-10
2.4.1.1	Solid Geology	2-11
2.4.1.2	Unconsolidated Geology	2-11
2.4.2	Local Geology	2-11
2.4.2.1	Solid Geology	2-11
2.4.2.2	Unconsolidated Geology	2-11
2.5	Groundwater	2-12
2.5.1	Regional Hydrogeology	2-12
2.5.2	Overburden Hydrogeology	2-12
2.5.3	Bedrock Hydrogeology	2-12
2.5.4	Vulnerability of Aquifers	2-13

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

2.6	Surface Water	2-15
2.6.1	Surface Water Features	2-15
2.6.2	Surface Water Discharge	2-15
2.6.2.1	Nature of Discharges	2-15
2.6.2.2	Quantity and Rate of Discharges	2-16
2.6.2.3	Composition and Level of Discharges	2-16
2.7	Flora And Fauna	2-18
2.7.1	Survey Scope and Methodology	2-18
2.7.2	Survey Constraints	2-18
2.7.3	Designated Sites Database	2-18
2.7.4	Consultation	2-20
2.7.5	Site Description	2-20
2.7.6	Phase 1 Habitat Assessment	2-20
2.7.7	Buildings and Artificial Surfaces	2-20
2.7.8	Adjacent Habitats	2-21
2.7.9	Fauna	2-21
2.7.10	Water Quality/Fisheries Potential	2-22
2.7.11	Evaluation	2-22
2.8	Human Beings / Local Population	2-24
2.8.1	Receiving Environment	2-24
2.8.2	Population Statistics	2-24
2.9	Roads and Traffic	2-25
2.9.1	Introduction	2-25
2.9.2	Road Access	2-25
2.9.3	Existing Conditions	2-25
2.9.3.1	Quantification of Current Traffic Flows	2-25
2.9.3.2	Traffic Flows	2-25
2.10	Landscape and Visual Assessment	2-29
2.10.1	Introduction	2-29
2.10.2	Scope and Methodology	2-29
2.10.3	Landscape Character	2-29
2.10.4	The Site	2-30
2.10.4.1	Site Boundaries	2-31
2.10.5	Visibility	2-31
2.10.6	Site Vegetation	2-31
2.10.7	Landscape Planning	2-31
2.10.8	Photographic Record	2-32

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

2.11	Cultural Heritage	2-33
2.11.1	Introduction	2-33
2.11.1.1	Site Location	2-33
2.11.1.2	Characteristics of the proposed development	2-33
2.11.2	Baseline Survey	2-33
2.11.2.1	Recorded archaeological sites and monuments	2-33
2.11.2.2	Recorded archaeological finds	2-33
2.11.2.3	Cartographic sources	2-33
2.11.2.4	Previous Excavations	2-34
2.11.2.5	Historical Research	2-34
2.11.3	Archaeological and Historical Background	2-34
2.11.3.1	Prehistory (700 BC – AD 500)	2-34
2.11.3.2	Early Medieval Period	2-35
2.11.3.3	Late medieval and post medieval period	2-35
2.11.3.4	Archaeological significance of the site	2-36
2.11.4	Field Assessment	2-36
2.12	Material Assets	2-37
2.12.1	Introduction	2-37
2.12.2	Industry	2-37
2.12.3	Infrastructure	2-37
2.12.4	Tourism	2-37

SECTION 3. DESCRIPTION OF SITE

3.1	General	3-1
3.1.1	Current Position	3-1
3.1.2	Proposed Development	3-2
3.2	Infrastructure	3-3
3.2.1.	Site Security	3-3
3.2.2	Specifications for Access Roads	3-3
3.2.3	Design of Hardstanding Areas	3-3
3.2.4	Weighbridge	3-3
3.2.5	Wheel Wash	3-3
3.2.6	Laboratory Facilities	3-4
3.2.7	Fuel Storage Areas	3-4
3.2.8	Waste Quarantine Areas	3-4
3.2.9	Waste Inspection Areas	3-4
3.2.10	Traffic Control	3-4
3.2.11	All Services	3-4
3.2.12	Sewerage and Surface Water Drainage Infrastructure	3-4
3.2.14	Plant, Sheds, Garages and Equipment Compound	3-5

3.2.15	Site Accommodation	3-6
3.2.16	Fire Control System including a Water Supply	3-6
3.2.17	Plant and Machinery	3-6
3.2.18	Open Yard Areas	3-7
3.3	Facility Operation	3-8
3.3.1	Introduction	3-8
3.3.2	Waste Inflows	3-8
3.4	Materials Management	3-10
3.4.1	Quantities of Materials	3-10
3.4.2	Commercial Waste	3-11
3.4.3	Cardboard Waste	3-11
3.4.4	Construction & Demolition Waste	3-12
3.4.5	Plastics	3-12
3.4.6	Ferrous and Non-ferrous Metals	3-12
3.4.7	Lumber and Wood	3-12
3.5	Waste Acceptance and Handling	3-13
3.5.1	Existing Waste Types and Quantities	3-13
3.5.2	Proposed Quantities of Materials	3-13
3.5.3	Hours of Operation	3-14
3.5.4	Waste Acceptance Procedures	3-14
3.5.5	Current Waste Handling Procedures	3-15
3.5.5.1	Cardboard	3-15
3.5.5.2	Timber	3-15
3.5.5.3	Construction & Demolition Waste	3-15
3.5.5.5	Plastics	3-16
3.5.5.6	Gas Bottles	3-16
3.5.5.7	Batteries	3-16
3.5.6	Proposed Waste Handling Procedures	3-16
3.5.7	Raw Materials & Energy	3-16
3.6	Environmental Nuisances	3-18
3.6.1	Aerosol Control	3-18
3.6.2	Bird Control	3-18
3.6.3	Dust Control	3-18
3.6.4	Litter Control	3-18
3.6.5	Odour Control	3-19
3.6.6	Vermin Control	3-19
3.7	Potential Emissions	3-20
3.7.1	Air Emissions	3-20
3.7.2	Emissions to Groundwater	3-20

3.7.3	Emissions to Surface Water	3-20
3.7.4	Noise Emissions	3-21
3.8	Environmental Monitoring	3-22
3.8.1	Dust Monitoring	3-22
3.8.2	Ecological Monitoring	3-22
3.8.3	Groundwater Monitoring	3-22
3.8.4	Air Monitoring	3-22
3.8.5	Sewer Discharge Monitoring	3-22
3.8.6	Meteorological Monitoring	3-22
3.8.7	Noise Monitoring	3-23
3.8.8	Odour Monitoring	3-23
3.8.9	Surface Water Monitoring	3-23
3.9	Decommissioning and Aftercare	3-24
3.10	Contingency Arrangements	3-25
3.10.1	Health and Safety	3-25
3.10.2	Oil Spill/Leachate Spill	3-25
3.10.3	Air Pollution	3-26
3.10.4	Breakdown of Equipment	3-26
3.10.5	Fire	3-26

SECTION 4. POTENTIAL IMPACTS AND MITIGATION MEASURES

4.1	Climate	4-1
4.2	Air Quality	4-2
4.2.1	General	4-2
4.2.2	Decomposition Gases	4-2
4.2.3	Odours	4-2
4.2.4	Dust Deposition	4-2
4.3	Noise	4-3
4.3.1	Specific Characteristics of the Proposal	4-3
4.3.2.	Noise Emissions from the Facility	4-3
4.3.2.2	External Noise Sources	4-4
4.3.2.3	Traffic Noise	4-4
4.4.4	Mitigation Measures	4-5
4.3.4	Likely Significant Effects	4-5
4.3.5	Monitoring	4-7
4.4	Soils & Geology	4-8
4.4.1	Potential Impacts	4-8

4.4.2	Mitigation Measures	4-8
4.4.3	Likely Significant Effects	4-8
4.5	Groundwater	4-9
4.5.1	Sources of Contamination	4-9
4.5.2	Mitigation	4-9
4.6	Surface Water	4-10
4.6.1	Sources of Contamination	4-10
4.6.2	Potential Surface Water Receptors	4-10
4.6.3	Mitigation	4-10
4.6.4	Likely Significant Effects	4-11
4.7	Flora and Fauna	4-12
4.7.1	Potential Impacts	4-12
4.7.2	Mitigation Measures	4-12
4.8	Impact on Human Beings	4-14
4.8.1	Potential Impacts	4-14
4.8.1.1	Vermin	4-14
4.8.1.2	Human Health	4-14
4.8.1.3	Litter Control	4-15
4.8.2	Likely Significant Effects	4-15
4.9	Roads and Traffic	4-17
4.9.1	Proposed Development	4-17
4.10	Landscape Character	4-17
4.10.1	Specific Characteristics of the Proposal	4-17
4.10.2	Potential Impacts	4-17
4.10.2.1	Landscape Character	4-17
4.10.2.2	Visual Impacts	4-17
4.10.3	Mitigation Measures	4-18
4.10.4	Likely Significant Effects	4-18
4.11	Cultural Heritage	4-19
4.11.1	Potential Impact of the Proposed Development	4-19
4.11.2	Recommended Avoidance, Remedial or Reductive Measures	4-19
4.12	Material Assets	4-20
4.12.1	Potential Impacts	4-20
4.13	Interactions	4-34

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

LIST OF FIGURES

Figure 1.1.1	Site Location Map
Figure 1.1.2	Site Ownership
Figure 2.2.1	Dust Monitoring Locations
Figure 2.3.1	Noise Monitoring Locations
Figure 2.4.1	Geology
Figure 2.6.1	Site Drainage
Figure 2.7.1	Habitat Map
Figure 2.9.1	Traffic Count Locations
Figure 2.9.2	Traffic Survey Location 1
Figure 2.9.3	Traffic Survey Location 2
Figure 2.10.1	Land Use within 0.5km of site
Figure 2.10.2	Photopoint Locations
Figure 3.1.1	Site Layout
Figure 3.3.1	Waste Flow Chart

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

LIST OF TABLES

Table 2.1.1	Wind Direction at Rosslare
Table 2.2.1	Total Dust Levels
Table 2.5.1	Hydrogeological Characteristics of Ordovician Volcanics in the Carlow-Wexford Area
Table 2.5.2	Vulnerability Classification
Table 2.6.1	Foul Water Emissions.
Table 2.7.1	Sites of Nature Conservation Interest within 5km of the proposed site.
Table 2.8.1	Population Statistics.
Table 2.9.1	Location 1: Vehicle movements a.m.and p.m.
Table 2.9.2	Location 2: Vehicle movements a.m.and p.m.
Table 3.4.1	Waste Categories – EWC Codes.
Table 3.5.1	Existing Waste Types and Quantities
Table 3.5.2	Proposed Waste Types and Quantities
Table 4.13.1	Impacts and Effects on Interactions between Environmental Media.

LIST OF ENGINEERING DRAWINGS

Elevations
Site Layout Plan

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

LIST OF APPENDICES

Appendix 2.3.1	Noise Related Terms
Appendix 2.7.1	Site Synopsis
Appendix 2.7.2	Correspondence
Appendix 2.10.1	Photographic Record
Appendix 2.11.1	Recorded Archaeological sites and Monuments
Appendix 2.11.2	Archaeological Finds
Appendix 2.11.3	Recorded Archaeological Excavations