

TABLE OF CONTENTS

VOLUME 1 - NON TECHNICAL SUMMARY

VOLUME 2 – ENVIRONMENTAL IMPACT STATEMENT

1. INTRODUCTION

- 1.1 Introduction
- 1.2 Purpose of this Report
- 1.3 Planning Procedure for the Proposed Development
- 1.4 EIS Methodology
- 1.5 Consultation Process
- 1.6 Study and Design Team
- 1.7 Difficulties Encountered during the Study
- 1.8 References

2. PLANNING AND POLICY CONTEXT

- 2.1 Introduction
- 2.2 National Planning Policy Context
- 2.3 Transport Planning Policy Context
- 2.4 Regional Planning Policy Context
- 2.5 Local Planning Policy Context
- 2.6 Conclusion
- 2.7 References

3. NEED FOR THE SCHEME / ALTERNATIVES

- 3.1 Introduction
- 3.2 Need for the Scheme
- 3.3 Consideration of Alternatives
- 3.4 References

4. DESCRIPTION OF THE PROPOSED SCHEME

- 4.1 Introduction
- 4.2 Scheme Objectives
- 4.3 Scheme Description
- 4.4 Scheme Construction
- 4.5 Associated Developments
- 4.6 Sustainability
- 4.7 References

5. TRANSPORTATION

- 5.1 Introduction
- 5.2 Scheme Description
- 5.3 Transport Context
- 5.4 Assessment Methodology
- 5.5 Transportation Operational Assessment
- 5.6 Transportation Construction Impacts
- 5.7 Mitigation Measures
- 5.8 Residual Impacts
- 5.9 References

6. AGRONOMY

- 6.1 Introduction
- 6.2 Methodology
- 6.3 Data Deficiencies/Difficulties Encountered
- 6.4 Existing Agricultural Environment
- 6.5 Predicted Impacts
- 6.6 Mitigation Measures
- 6.7 Residual Impacts
- 6.8 Impacts of the Interim Scheme

7. HUMAN BEINGS

- 7.1 Introduction
- 7.2 Methodology
- 7.3 Existing Environment

7.4 Predicted Impacts on Human Beings

7.5 Mitigation Measures

7.6 Residual Impacts

7.8 References

8. ARCHAEOLOGY AND CULTURAL HERITAGE

8.1 Introduction

8.2 Methodology

8.3 Results and Analysis - Archaeology

8.4 Results and Analysis - Cultural Heritage

8.5 Predicted Impact on Archaeology and Cultural Heritage

8.6 Recommendations and Mitigation Measures

8.7 References

9 ARCHITECTURAL HERITAGE

9.1 Introduction

9.2 Methodology

9.3 Receiving Environment

9.4 Architectural Heritage Impact Assessment

9.5 Mitigation Measures

9.6 Residual Impacts

9.7 References

10 LANDSCAPE AND VISUAL

10.1 Introduction

10.2 Methodology

10.3 Receiving Environment

10.5 Predicted Impacts on Landscape and Visual

10.6 Mitigation Measures

10.7 Residual Impacts

10.8 References

11. NOISE AND VIBRATION

11.1 Introduction

11.2 Methodology

- 11.3 Assessment Criteria
- 11.4 Existing Environment
- 11.5 Predicted Impact on Noise and Vibration
- 11.6 Mitigation Measures
- 11.7 Residual Impacts
- 11.8 Vibration
- 11.9 References

12. AIR QUALITY

- 12.1 Introduction
- 12.2 Methodology
- 12.3 Receiving Environment
- 12.4 Predicted Impacts on Air Quality
- 12.5 Mitigation Measures
- 12.6 Residual Impacts
- 12.7 References

13. CLIMATE

- 13.1 Introduction
- 13.2 Methodology
- 13.3 Receiving Environment
- 13.4 Predicted Impacts on Climate
- 13.5 Mitigation Measures
- 13.6 Residual Impacts
- 13.7 References

14 ECOLOGY

- 14.1 Introduction
- 14.2 Methodology
- 14.3 Receiving Environment
- 14.5 Predicted Impact on Ecology
- 14.6 Mitigation Measures
- 14.7 References

15 SOILS AND GEOLOGY

- 15.1 Introduction
- 15.2 Methodology
- 15.3 Existing Environment
- 15.4 Predicted Impacts on Soils and Geology
- 15.5 Mitigation Measures
- 15.6 Residual Impacts
- 15.8 References

16 HYDROGEOLOGY

- 16.1 Introduction
- 16.2 Methodology
- 16.3 Existing Environment
- 16.4 Predicted Impacts on Hydrogeology
- 16.5 Mitigation Measures
- 16.6 Residual Impacts
- 16.7 References

17 HYDROLOGY

- 17.1 Introduction
- 17.2 Methodology
- 17.3 Existing Environment
- 17.4 Predicted Impacts on Hydrology
- 17.5 Mitigation Measures
- 17.6 Residual Impacts
- 17.7 References

18 RESOURCE AND WASTE MANAGEMENT

- 18.1 Introduction
- 18.2 Methodology
- 18.3 Existing Environment
- 18.4 Scheme Description
- 18.5 Predicted Impacts on Resource and Waste Management
- 18.6 Mitigation Measures
- 18.7 Residual Impacts

18.8 References

19 NON- AGRICULTURAL MATERIAL ASSETS

19.1 Introduction

19.2 Methodology

19.3 Existing Environment

19.4 Predicted Impacts on Non-agricultural Material Assets

19.5 Mitigation Measures

19.6 Residual Impacts

19.7 References

20 INTERRELATIONSHIPS, INTERACTIONS AND CUMULATIVE IMPACTS

20.1 Methodology

20.2 Interaction of Effects

20.3 Cumulative Impacts

20.4 Interim Scheme

20.4 References

21 SUMMARY OF MITIGATION MEASURES AND RESIDUAL IMPACTS

21.1 Introduction

21.2 Summary of Mitigation Measures

21.3 Summary of Residual Impacts

VOLUME 3 – FIGURES

Figure 1.1: Site Location Plan

Figure 1.2: Scheme Layout

Figure 2.1: Naas IFPLUT ‘Preferred Framework Plan’. Extracted from Naas IFPLUT

Figure 2.2: Extract from Map 7.1 Naas Town Development Plan 2011-2017

Figure 2.3: Extract from Map 14.1 Naas Town Development Plan 2011-2017

Figure 2.4: Extract from the Sallins Local Area Plan 2009 - Roads Objectives Map

Figure 3.1: Alternative Routes Considered

Figure 3.2 Junction Strategy Options

Figure 3.3: Alternative Designs – Dumbbell Interchange

Figure 3.4: Alternative Designs – Rotary Interchange

Figure 3.5: Alternative Designs – Signalised Dumbbell Interchange

Figure 4.1a: Cross-sections Sheet 1 of 2

Figure 4.1b: Cross-sections Sheet 2 of 2

Figure 4.2a: Proposed Cyclist and Pedestrian Facilities Sheet 1 of 2

Figure 4.2b: Proposed Cyclist and Pedestrian Facilities Sheet 2 of 2

Figure 4.3: Interim Scenario

Figure 4.4: M7 Interchange Overbridge General Arrangement

Figure 4.5: Osberstown Road Overbridge General Arrangement

Figure 4.6: Sallins Bypass Railway Bridge General Arrangement

Figure 4.7: Grand Canal Underbridge General Arrangement

Figure 4.8: River Liffey Structure No. 1 General Arrangement

Figure 4.9: River Liffey Structure No. 2 General Arrangement

Figure 4.10: Sallins Link Road Culvert General Arrangement

Figure 4.11: Proposed Outfalls and Attenuation Measures

Figure 4.12: Plot Locations and Accommodation Works

Figure 4.13: Proposed Construction Compounds

Figure 5.1: 2012 Local Area Model Study Area

Figure 5.2: Traffic Count Locations

Figure 5.3: NTM Zoning

Figure 5.4: Zone Disaggregation

Figure 5.5: Road Network Location Plan

Figure 5.6: 2030 M7 Osberstown Interchange AM Do Something – VISSIM Model

Figure 5.7: 2030 M7 Osberstown Interchange PM Do Something – VISSIM Model

Figure 7.1: Electoral Divisions in Study Area

Figure 8.1: Sites of Archaeological and Cultural Heritage Sheet 1 of 2

Figure 8.2: Sites of Archaeological and Cultural Heritage Sheet 2 of 2

Figure 9.1: Architectural Heritage Sites Sheet 1 of 2

Figure 9.2: Architectural Heritage Sites Sheet 2 of 2

Figure 10.1a: Landscape and Visual Maps

Figure 10.1b: Landscape and Visual Maps

Figure 10.1c: Landscape and Visual Maps

Figure 10.1d: Landscape and Visual Maps

Figure 10.1e: Landscape Sections

Figure 10.2: Landscape and Visual View Location Map

Figure 10.3a: View 01 As Existing

Figure 10.3b: View 01 Pre Establishment

Figure 10.3c: View 01 Post Establishment

Figure 10.4a: View 02 As Existing

Figure 10.4b: View 02 Pre Establishment

Figure 10.4c: View 02 Post Establishment

Figure 10.5a: View 03 As Existing

Figure 10.5b: View 03 No Mitigation

Figure 10.5c: View 03 Pre Establishment

Figure 10.5d: View 03 Post Establishment

Figure 10.6a: View 04 As Existing

Figure 10.6b: View 04 No Mitigation

Figure 10.6c: View 04 Pre Establishment

Figure 10.6d: View 04 Post Establishment

Figure 10.7a: View 05 As Existing

Figure 10.7b: View 05 Pre Establishment

Figure 10.7c: View 05 Post Establishment

Figure 10.8a: View 06 As Existing

Figure 10.8b: View 06 Pre Establishment

Figure 10.8c: View 06 Post Establishment

Figure 10.9a: View 07 As Existing

Figure 10.9b: View 07 Pre Establishment

Figure 10.9c: View 07 Post Establishment

Figure 11.1: Noise Survey Locations

Figure 11.2 Noise Assessment Locations

Figure 11.3 Noise Barrier Locations

Figure 12.1: Air Quality Receptor Points

Figure 14.1: Grand Canal pNHA in vicinity of proposed R407 Sallins Bypass

Figure 14.2a: Habitats Map Classification Sheet 1 of 2

Figure 14.2b: Habitats Map Classification Sheet 2 of 2

Figure 15.1: Drift Geology in Area

Figure 15.2: Bedrock Geology in Area

Figure 15.3: A to E: Borehole Locations A: E

Figure 16.1: Aquifer Classification

Figure 16.2: Groundwater Vulnerability

Figure 16.3 Hydrogeological Features

Figure 17.1: EPA Monitoring Stations and Gauges

Figure 17.2: Hydrology Existing Environment

VOLUME 4 – APPENDICES

A1.1: List of Consultees for Scoping

A3.1: FTG Route Selection Report

A3.2: M7 Osberstown Interchange / R407 Sallins Bypass Route Selection Report

A3.3: M7 Osberstown Interchange / R407 Sallins Bypass Incremental Analysis Report

A5.1: Traffic Modelling Report

A5.2: Detailed Junction Analysis

A6.1: Farm Impacts

A6.2: Farm Reports

A8.1: RMP sites within the surrounding area

A8.2: Stray finds within the surrounding area

A8.3: Legislative Framework protecting the archaeological resource

A8.4: Impact Assessment and the Cultural Heritage Resource

A8.5: Mitigation Measures and the Cultural Heritage Resource

A11.1: Unattended Noise Monitoring Results

A14.1: Ecological Site Evaluation Scheme

A14.2: Site Synopsis for the Grand Canal pNHA

A16.1: Well Survey

A18.1: Resource and Waste Management - Legislation and Policy

A18.2: Resource and Waste Management - CDWMP Guidance

A18.3: Resource and Waste Management - ICE Demolition Protocol