



Shillelagh Quarries Limited

HEMPSTOWN QUARRY

Environmental Impact Assessment Report



Shillelagh Quarries Limited

HEMPSTOWN QUARRY

Environmental Impact Assessment Report

TYPE OF DOCUMENT (VERSION) PUBLIC

PROJECT NO. IE0037007.4788

OUR REF. NO. IE0037007.4788.R04

DATE: FEBRUARY 2025

WSP

Town Centre House
Dublin Road
Naas
Co Kildare

WSP.com



QUALITY CONTROL



Issue/revision	First issue	Revision 1	Revision 2	Revision 3
Remarks	Final draft			
Date	10/02/2025			
Prepared by	Various			
Signature	N/A			
Checked by	Rhian Llewellyn			
Signature				
Authorised by	Ruth Treacy			
Signature				
Project number	IE0037007.4788			
Report number	IE0037007.4788.R04			
File reference	https://wsponline.sharepoint.com/sites/2024IE274788			



TABLE OF CONTENTS

SECTION TITLE	PAGE
1 INTRODUCTION, SCOPE AND METHODOLOGY	1
1.1 INTRODUCTION	1
1.2 REQUIREMENT FOR EIAR	3
1.3 STRUCTURE AND CONTENT OF THE EIAR	4
1.4 SUMMARY DESCRIPTION OF DEVELOPMENT THE SUBJECT OF EIAR	3
1.5 DESCRIPTION OF SITE BASELINE	4
1.6 LIMITATIONS & DIFFICULTIES IN COMPILING THE SPECIFIED INFORMATION (SCHEDULE 6 OF SI 600 OF 2001, AS AMENDED)	5
1.7 EIAR CONTRIBUTORS AND GUARANTEE OF COMPETENCY AND INDEPENDENCE	6
1.8 EIAR SCOPE & METHODOLOGY - PREDICTION OF IMPACTS AND EFFECTS AND ASSESSMENT OF REMEDIAL MITIGATION MEASURES	2
1.9 THE NEED FOR THE DEVELOPMENT AND CONSIDERATION OF ALTERNATIVES	5
1.10 REFERENCES	7
2 PROJECT DESCRIPTION	1
2.1 INTRODUCTION	1
2.2 LOCATION OF SUBJECT LANDS	3
2.3 PROPOSED DEVELOPMENT SITE ALREADY PART OF AN OPERATIONAL QUARRY	4
2.4 DESCRIPTION OF SUBJECT LANDS	7
2.5 FUTURE EXTRACTION AND RESTORATION	9
2.6 DESCRIPTION OF THE PROJECT	10
2.7 PLANNING AND GUIDANCE POLICY	21
2.8 REFERENCES	29
3 POPULATION AND HUMAN HEALTH	1
3.1 INTRODUCTION	1
3.2 LEGISLATIVE AND POLICY CONTEXT	3
3.3 ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	4
3.4 BASELINE CONDITIONS	7

3.5	CHARACTERISTICS OF THE DEVELOPMENT	15
3.6	POTENTIAL EFFECTS	16
3.7	MITIGATION MEASURES	22
3.8	RESIDUAL EFFECTS	22
3.9	CUMULATIVE EFFECTS	22
3.10	MONITORING	22
3.11	DIFFICULTIES ENCOUNTERED	22
3.12	SUMMARY AND CONCLUSIONS	22
3.13	REFERENCES	22
4	ECOLOGY AND BIODIVERSITY	1
4.1	INTRODUCTION	1
4.2	LEGISLATIVE AND POLICY CONTEXT	4
4.3	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	5
4.4	BASELINE CONDITIONS	15
4.5	EVALUATION OF ECOLOGICAL FEATURES	38
4.6	IMPACT ASSESSMENT	46
4.7	MITIGATION, COMPENSATION AND ENHANCEMENT MEASURES	53
4.8	RESIDUAL EFFECTS	55
4.9	CUMULATIVE EFFECTS	58
4.10	SUMMARY AND CONCLUSIONS	58
4.11	REFERENCES	58
5	LAND, SOILS AND GEOLOGY	1
5.1	INTRODUCTION	1
5.2	LEGISLATIVE AND POLICY CONTEXT	3
5.3	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	5
5.4	BASELINE CONDITIONS	9
5.5	SELECTION OF SENSITIVE RECEPTORS	15
5.6	CHARACTERISTICS OF THE DEVELOPMENT	15
5.7	POTENTIAL EFFECTS	16
5.8	MITIGATION MEASURES	19
5.9	RESIDUAL EFFECTS	19
5.10	CUMULATIVE EFFECTS	19

5.11	MONITORING	19
5.12	DIFFICULTIES ENCOUNTERED	19
5.13	SUMMARY AND CONCLUSIONS	19
5.14	REFERENCES	19

6 WATER 1

6.1	INTRODUCTION	1
6.2	LEGISLATIVE AND POLICY CONTEXT	4
6.3	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	8
6.4	BASELINE CONDITIONS	13
6.5	SELECTION OF SENSITIVE RECEPTORS	48
6.6	CHARACTERISTICS OF THE DEVELOPMENT	51
6.7	POTENTIAL EFFECTS	53
6.8	MITIGATION MEASURES	59
6.9	RESIDUAL EFFECTS	59
6.10	CUMULATIVE EFFECTS	64
6.11	MONITORING	64
6.12	DIFFICULTIES ENCOUNTERED	65
6.13	SUMMARY AND CONCLUSIONS	65
6.14	REFERENCES	66

7 AIR QUALITY 1

7.1	INTRODUCTION	1
7.2	LEGISLATIVE AND POLICY CONTEXT	6
7.3	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	10
7.4	BASELINE AND SUBSEQUENT CONDITIONS (2019 TO PRESENT)	13
7.5	SELECTION OF SENSITIVE RECEPTORS	22
7.6	CHARACTERISTICS OF THE PROPOSED DEVELOPMENT	23
7.7	POTENTIAL EFFECTS	23
7.8	REMEDIAL MEASURES	28
7.9	RESIDUAL EFFECTS	30
7.10	CUMULATIVE EFFECTS	30
7.11	MONITORING	30
7.12	DIFFICULTIES ENCOUNTERED	30

7.13	SUMMARY AND CONCLUSIONS	30
7.14	REFERENCES	31

8 CLIMATE 1

8.1	INTRODUCTION	1
8.2	LEGISLATIVE AND POLICY CONTEXT	3
8.3	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	4
8.4	BASELINE CONDITIONS	4
8.5	CHARACTERISTICS OF THE DEVELOPMENT	5
8.6	POTENTIAL EFFECTS	5
8.7	MITIGATION MEASURES	9
8.8	RESIDUAL EFFECTS	10
8.9	CUMULATIVE EFFECTS	10
8.10	DIFFICULTIES ENCOUNTERED	10
8.11	SUMMARY AND CONCLUSIONS	10
8.12	REFERENCES	11

9 NOISE AND VIBRATION 1

9.1	INTRODUCTION	1
9.2	STUDY AREA AND NOISE SENSITIVE RECEPTORS	1
9.3	STATEMENT OF COMPETENCE	2
9.4	LEGISLATIVE AND POLICY CONTEXT	3
9.5	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	7
9.6	BASELINE CONDITIONS	12
9.7	POTENTIAL EFFECTS	13
9.8	MITIGATION MEASURES	14
9.9	RESIDUAL EFFECTS	16
9.10	CUMULATIVE EFFECTS	16
9.11	SUMMARY AND CONCLUSIONS	16
9.12	REFERENCES	16

10 ARCHAEOLOGY AND CULTURAL HERITAGE 1

10.1	INTRODUCTION	1
------	--------------	---

10.2	LEGISLATIVE AND POLICY CONTEXT	3
10.3	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	6
10.4	BASELINE CONDITIONS	9
10.5	SELECTION OF SENSITIVE RECEPTORS	14
10.6	POTENTIAL EFFECTS	14
10.7	REMEDIAL MEASURES REQUIRED	15
10.8	RESIDUAL EFFECTS	15
10.9	CUMULATIVE EFFECTS	15
10.10	DIFFICULTIES ENCOUNTERED	15
10.11	SUMMARY AND CONCLUSIONS	15
10.12	REFERENCES	15

11 LANDSCAPE AND VISUAL 1

11.1	INTRODUCTION	1
11.2	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	14
11.3	BASELINE CONDITIONS	22
11.4	SELECTION OF SENSITIVE VISUAL RECEPTORS	28
11.5	CHARACTERISTICS OF THE DEVELOPMENT	30
11.6	POTENTIAL EFFECTS	30
11.7	MITIGATION MEASURES	42
11.8	RESIDUAL EFFECTS	42
11.9	CUMULATIVE EFFECTS	42
11.10	MONITORING	43
11.11	DIFFICULTIES ENCOUNTERED	43
11.12	SUMMARY AND CONCLUSIONS	43
11.13	REFERENCES	44

12 TRAFFIC AND TRANSPORTATION 1

12.1	INTRODUCTION	1
12.2	GUIDANCE AND PRIMARY SOURCES OF INFORMATION	1
12.3	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	2
12.4	BASELINE AND SUBSEQUENT CONDITIONS	3
12.5	POTENTIAL EFFECTS	16
12.6	REMEDIAL MEASURES REQUIRED	20

12.7	RESIDUAL EFFECTS	21
12.8	CUMULATIVE EFFECTS	21
12.9	NON-TECHNICAL SUMMARY	21

13 MATERIAL ASSETS 1

13.1	INTRODUCTION	1
13.2	LEGISLATIVE AND POLICY CONTEXT	3
13.3	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	4
13.4	BASELINE CONDITIONS	5
13.5	CHARACTERISTICS OF THE DEVELOPMENT	7
13.6	POTENTIAL EFFECTS	7
13.7	MITIGATION MEASURES	11
13.8	RESIDUAL EFFECTS	11
13.9	CUMULATIVE EFFECTS	11
13.10	MONITORING	11
13.11	DIFFICULTIES ENCOUNTERED	11
13.12	SUMMARY AND CONCLUSIONS	11
13.13	REFERENCES	11

14 MAJOR ACCIDENTS AND DISASTERS 1

14.1	INTRODUCTION	1
14.2	LEGISLATIVE AND POLICY CONTEXT	3
14.3	ASSESSMENT METHODOLOGY AND SIGNIFICANCE CRITERIA	5
14.4	BASELINE CONDITIONS	6
14.5	SELECTION OF SENSITIVE RECEPTORS	6
14.6	CHARACTERISTICS OF THE DEVELOPMENT	7
14.7	POTENTIAL EFFECTS	8
14.8	MITIGATION MEASURES	12
14.9	RESIDUAL EFFECTS	12
14.10	CUMULATIVE EFFECTS	12
14.11	MONITORING	12
14.12	DIFFICULTIES ENCOUNTERED	12
14.13	SUMMARY AND CONCLUSIONS	12

14.14	REFERENCES	13
-------	------------	----

15	INTERACTIONS, CUMULATIVE AND COMBINED EFFECTS	1
-----------	------------------------------------------------------	----------

15.1	INTRODUCTION	1
15.2	TECHNICAL SCOPE	1
15.3	METHODOLOGY	1
15.4	DEVELOPMENT DESCRIPTION	2
15.5	METHODOLOGY	3
15.6	INTERACTIONS	3
15.7	CUMULATIVE AND COMBINED EFFECTS	7
15.8	CONCLUSIONS	15
15.9	REFERENCES	15

16	MITIGATION AND MONITORING	1
-----------	----------------------------------	----------

16.1	INTRODUCTION	1
16.2	MITIGATION MEASURES	1
16.3	MONITORING MEASURES	1