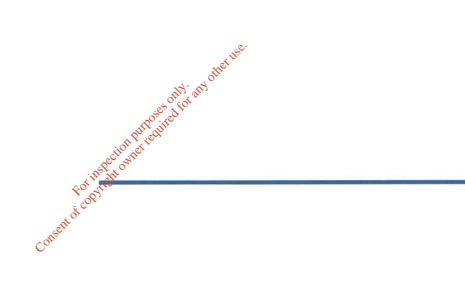
Appendix 7A

Cultural Heritage Report





Impact Assessment on the Potential Archaeology & Architectural Heritage for the

Cork Lower Harbour Drainage Scheme

Including underwater and intertidal dimension by ADCO Ltd

Planning Ref.: PRE-PLANNING ÆGIS Ref: 62-37 NGR (*centred*): 176575/065449



by T. Collins MA MIAI and A. Hayes MA MIAI of

ÆGIS ARCHAEOLOGY LIMITED

32 Nicholas Street, King's Island, Limerick Tel.: 061-634 375 info@aegisarc.com

Client:

Mott MacDonald Pettit,

5 Eastgate Avenue, Eastgate, Little Island, Co. Cork

2007

COPIES OF THIS REPORT HAVE BEEN PRESENTED TO:		
CLIENT:	Mott MacDonald Pettit 5 Eastgate Avenue Eastgate Co. Cork	
STATUTORY BODIES:	N/A	
LOCAL AUTHORITY:	N/A	

PLEASE NOTE

That the archaeological recommendations, mitigation proposals and suggested methodology followed in this report are similar to those used on previous similar projects approved by the Archaeological Planning and Licencing Unit National Monuments Section (formerly Dúchas), Dun Sceine, Harcourt Lane, Dublin 2. The National Monuments Acts 1930-2004, The Planning and Development Act 2002 and the most recent EPA guidelines were consulted. Guidelines and Plans issued from time-to-time by the statutory bodies have been consulted. This study also follows the NRA Guidelines for the Assessment of Archaeological Heritage Impacts of National Road Schemes and Guidelines for the Assessment of Architectural Heritage Impacts of National Road Schemes (NRA n.d.; NRA n.d.a). These are listed in the reference section of this report.

Every effort has been taken in the preparation and submission of this report to provide as complete an assessment as possible within the terms of the bref, and all statements and opinions are offered in good faith. However, ÆGIS cannot accept responsibility for errors of fact or opinion resulting from the data supplied by any third party, for any loss or other consequences arising from decisions made or actions taken on the basis of facts and opinions expressed in this report, (and any supplementary information), howsoever such facts and opinions may have been derived, or as the result of unknown and undiscovered sites or artefacts.

ÆGIS acknowledges the information supplied from the Archaeological Survey of Ireland Files, maintained by the National Monuments Section (formerly Dúchas), and information supplied by the client. The National Monuments Acts 1930-2004 is the current legislation in relation to archaeological projects.

This report is based on a template formulated by ÆGIS. All technical information, mapping and aerial photos were supplied by Mott MacDonald Pettit.

COPYRIGHT NOTE

Please note that the entirety of this report, including any original drawings and photographs, remain the property of the author(s) and ÆGIS ARCHAEOLOGY LIMITED. Any reproduction of the said report thus requires the written permission of ÆGIS. Ordnance Survey of Ireland (OSI) where it has been reproduced in this unpublished report is licenced by the OSI Licence No. AR0095407 © Ordnance Survey of Ireland/Government of Ireland.

Contents

	Page
I. List of Figures, Plates and Tables	4
II. Glossary of Terms Used	6
1. Introduction to Study Area	8
1.1 Scope of Study	0
1.2 Definition of Archaeological & Architectural Heritage	
1.3 Protection of Heritage: The Legislative Frameworks	
2. Method of Study	14
2.1 Limitations to the Study	- -
2.2 Assessment Dates	
3. Existing Environment	16
3.1 The Proposed Development	
3.2 The Archaeological Inspection	
3.2.1 Passage West & Monkstown	
3.2.2 Carrigaline & Environs	
3.2.3 Waste Water Treatment Plant (WWTP) 3.2.4 Ringaskiddy & Environs	
3.2.5 Cobh & Environs	
 3.2.4 Ringaskiddy & Environs 3.2.5 Cobh & Environs 3.2.6 Intertidal & Underwater Zones (assessment carried out by ADCO) 	
4. Archaeological & Historical Background	49
4.1 Background	
4.2 Previous Archaeological Work	
 4. Archaeological & Historical Background 4.1 Background 4.2 Previous Archaeological Work 4.3 Townland and Barony Boundaries 4.4 Protected Structures 5. Constraints Inventor Verifier 	
4.4 Protected Structures	
5. Constraints Inventory	
Predicted Impacts & Suggested Mitigation	86
5.1 Archaeological Monuments Constraints Inventory	
5.2 Architectural Constraints Inventory5.3 Further Potential Archaeological & Architectural Constraints	
6. Discussion & Overview	106
6.1 Cultural Heritage	200
6.2 Other Designations	
7. Conclusions & Suggested Mitigation Summary	109
7.1 Predicted Impacts	
7.2 Suggested Mitigation	
7.3 Non-Technical Summary	
8. Signing-Off Statement	115
9. Project References	116
10. Appendix: ADCO Report	119

I. List of Figures, Plates and Tables

FIGURES:	Page
Figure 1. Discovery Series map Nos 81, 87 showing collection system & WWTP locations (OSI 1997)	16
Figure 2. Collection system, pumping station locations and WWTP location (supplied by client)	17
Figure 3. Master map showing section description areas (Discovery Series map with additions)	18
Figure 4. Location of pipeline routes within the Passage West, Monkstown, Raffeen/Strawhill (detail map no. 1)	21
Figure 5. Location and detail of Monkstown Pumping Station	23
Figure 6. Location and detail of Raffeen/Strawhill pumping station	24
Figure 7. Location of pipeline routes within Carrigaline and its environs (map detail no. 2)	26
Figure 8. Location of pipeline routes and WWTP (in yellow) around Shanbally area (map detail no. 3)	29
Figure 9. Location of pipeline routes within the Ringaskiddy area (map detail no. 3)	32
Figure 10. Location of pipeline routes around Cobh and its environs (map detail no. 5)	34
Figure 11. Location and detail of major pumping station at West Beach, Cobh	36
Figure 12. Location and detail of major pumping station at Carrigator Cobh	37
Figure 13. RMP map sheets 75, 87 and 99 with study area in bloc (ASI 1997 with additions)	53
Figure 14. 1st edition six-inch map, showing location of green field pipelines (in green) & townland boundaries	80
Figure 15. 1st edition six-inch map, showing location of green field pipelines (in green) & townland boundaries	81
Figure 16 1st edition six-inch map, showing location of green field pipelines (in green) & townland boundaries	81
Figure 17. 1 st edition six-inch map, showing location of green field pipelines (in green) & townland boundaries	82
Figure 18. 1 st edition six-inch map, showing location of green field pipelines (in green) & townland boundaries	82
Figure 19. Aerial photo showing CH locations along pipeline routes in the Monkstown area	101
Figure 20. Aerial photo with CH locations in Cobh and environs (north to top not to scale, for indication only)	101
Figure 21. Aerial photo showing CH locations along pipeline routes in the WWTP site area (in yellow)	102
Figure 22. Aerial photo showing CH locations along pipeline routes in the WWIT she area (in yenow)	103
Figure 23. Aerial photo showing CH locations along pipeline routes in the Carrigaline area	104
· · · · · · · · · · · · · · · · · · ·	103
Figure 24. Other designations in study area (after CCC as varied, with additions)	108
PLATES:	
Plate 3.1. Proposed route along roadway north of Passage West, from northwest	39
Plate 3.2. C of I church on Church Hill west of Passage West, from southwest	39
Plate 3.3. View along R610, Monkstown, from south	39
Plate 3.4. Road within ZAP of CH1 and CH16 in Rathanker, from southeast	39
Plate 3.5. Route of pipe along road within ZAP of CH3 in Parkgarriff, from northeast	40
Plate 3.6. Pipe route within ZAP of CH4, in Ballyfouloo, from northeast	40
Plate 3.7. Pipe route flanked by CH5 along Monkstown Creek road, from south	40
Plate 3.8. Pipeline route in the Carrigaline area, north of CH6, from west	40
Plate 3.9. CH 6 in Carrigaline, from south	40
Plate 3.10. Millrace of mill to southeast of CH6, Carrigaline, from west	40
Plate 3.11. Proposed piping along grass verge, northeast of Carrigaline village centre	41
Plate 3.12. View southward over 'Dandy bridge' Kilnaglery	41
Plate 3.13. Pipeline route within ZAP of CH19, from northeast	41
Plate 3.14. Pipeline route along roadway within ZAP of CH8, from northeast	41
Plate 3.15 View of proposed pipeline from Coolmore cross roads at south	41
Plate 3.16. View from south across N28 near Raffeen Bridge, from south	41
Plate 3.17. Pipeline route along Carrigaline to Raffeen bridge road to northwest of WWTP, from south	42
Plate 3.18. Pipeline route to northeast of WWTP site, from east	42
Plate 3.19. CH9 at northeast extent of WWTP, from west (bank arrowed)	42
Plate 3.20. Field b, from northeast	42
Plate 3.21. Field a, from southeast	43
Plate 3.22. Proposed pipeline route (arrowed) to southeast of WWTP, from northwest	43
Plate 3.23. General location of CH10 to east of WWTP, from northwest	43

Plate 3.24. Pipe route along N20, from northwest	44
Plate 3.25. Pipe route along roadway in Loughbeg, from east	44
Plate 3.26. WWTP outfall in existing IDA outfall area, within ZAP of CH12, from north	44
Plate 3.27. CH20 (arrowed) along N20 grass verge, from southeast	44
Plate 3.28. CH 20, memorial, from northeast	44
Plate 3.29. CH21, commemorative plaque, from southwest	45
Plate 3.30. Pipeline along roadway at east side of Cobh, from east	45
Plate 3.31. Pipeline route north of Cobh town centre, from north	45
Plate 3.32. Route of pipe along road in Ballyvoloon area, from east	45
Plate 3.33. Route of pipe west of Clonmel church graveyard wall, from south	45
Plate 3.34. Green field pipe location at south of White Point area, from east	45
Plate 3.35. Pipeline route within ZAP of CH2 (location arrowed), from east	46
Plate 3.36. CH2, from east	46
Plate 3.37. Interior CH18 to south of pipeline route, from west	46
Plate 3.38. View to green field pipe locations from CH18 at west	46
Plate 3.39. Montage showing pipeline along road from east	46
Plate 3.40. CH22, in white point Cobh, from northeast	47
Plate 3.41. Pipeline route along roadway in White Point, from south	47
Plate 3.42. Proposed location for major pumping station at Monkstown, from east	47
Plate 3.43. Proposed location for major pumping station at Raffeen/Strawhill, from northwest	47
Plate 3.44. Detail of proposed location of Raffeen/Strawhill major pumping station, from west (modern fill)	47
Plate 3.45. Proposed location of major pumping station at West Beach Cobh, viewed from southwest	
Plate 3.46. Location of major pumping station at West Beach Cobh, from south	
Plate 3.47. View of Spike Island (arrowed) from proposed location of major pumping station at West Beach Cobh Plate 3.48. View of The Dandy Bridge (CH24), parapets arrowed, from west	
Plate 3.49. View of paving beneath bridge, marking fording point, from east	48
Plate 3.50. View of The Dandy Bridge Arch, modern pipes and concrete, from east	48
Plate 3.51. Location of proposed outfall at Kilnaglery Bridge, near Carrigaline, CH25 arrowed, from southeast	48
TABLES:	
TABLES: Table 1. Relevant legislation in relation to the protection of the archaeological and architectural heritage	10
Table 2. Detail of Townlands within Study Area (from Index to the Soundards 1992)	50
Table 3. List of finds from townlands along the pipeline (National Museum of Ireland Topographical Files)	74
Table 4. List of protected structures in vicinity of pipeline, excluding Cobh Town	83
Table 5. Archaeological constraints inventory of recorded monuments immediately outside the study area	94
Table 6. Architectural constraints inventory of recorded structures within study area	96
Table 7. Further potential architectural constraints within study area	100
Table 8. Summary of Cultural Heritage Constraints 3	107
	107
Table 10. Mitigation Summary	111
N ^O	
Table 9. Other Designations in study area (after CCC 2006 with additions) Table 10. Mitigation Summary	
Cor	

II. Glossary of Terms Used

ASI	Archaeological Survey of Ireland, a division of the DoEHLG		
Barony, Parish,	These terms refer to land divisions in Ireland. The barony is the largest land division in a		
Townland	county, which is formed from a number of parishes. These parishes are in turn made up of		
	several townlands, which are the smallest land division in the country. The origins of these		
	divisions are believed to be in the Early Medieval/Christian period (AD500-AD1000), or may		
	date earlier in the Iron Age (500BC-AD500).		
CCC	Cork County Council		
CH	Cultural Heritage Feature Number		
CLH	Cork Lower Harbour Cobh Town Council Department of Environment, Heritage and Local Government East		
CTC	Cobh Town Council		
DoEHLG	Department of Environment, Heritage and Local Gevernment		
E	East Environmental Protection Agency This relates to editions of the OS 6 incharage for each county. The first edition map completed		
EPA	Environmental Protection Agency		
First Edition	This relates to editions of the OS 6 inchemans for each county. The first edition map completed		
	for the area dates to the early 1840s and this is referred to in the text as the "First Edition".		
Inventory	Published archaeological inventory for County Cork.		
KM	Kilometre		
Μ	Metres, all dimensions are given metres or part of a metre, unless otherwise stated		
MMP	Mott MacDonald Pettit (lead consultants to the project)		
N	North		
n.d.	No Date (of publication of unpublished report)		
NGR	National Grid Reference		
NIAH	National Inventors of Architectural Heritage		
NMI	National Museum of Ireland		
NMS	National Monuments Section. Regulatory body within the DoEHLG with responsibility for		
	archaeological heritage		
NRA	National Roads Authority		
OS	Ordnance Survey		
OSI	Ordnance Survey of Ireland		
Pers. Comm.	Personal Communication		
PO	Preservation Order		
PS	Protected Structure		
Refs	References		
RMP	Record of Monuments and Places. An update of the older SMR, (sites and monuments		
	record), on which all known archaeological sites are marked and listed in an accompanying		
	list. The sites marked afford legal protection under the National Monuments Acts 1930-2004.		
	The record is based on the 6-inch map series for the country and is recorded on a county		
	basis. Each archaeological monument on the RMP has a unique code known as the RMP		
RMP Number CO-	number (see below) This code is the number of the site on the RMR constraint man. It begins with the country		
Kivit Tulliber CO-	This code is the number of the site on the RMP constraint map. It begins with the county code, here CO for Cork, the 6-inch sheet number, followed by the number of the		
	archaeological monument on that sheet.		
RPS	Record of Protected Structures		
S	South		
Sheet	This relates to the 6-inch map for each county, which is divided into sheets.		
SMR	Sites and Monuments Record. The precursor of the RMP, the SMR now commonly relates to		
OIMAN	the archive paper files of known archaeological monuments maintained by the		
	Archaeological Survey of Ireland (ASI). These files are arranged according to RMP number.		
ТВ	Townland Boundary		
W	West		

WWTP Waste Water Treatment Plant

ZAP Zone of archaeological potential. This refers to the area indicated around a recorded archaeological monument on the RMP constraint map. This zone is for indication purposes only and is usually circular in shape or more irregular depending on nature of the archaeological monument is it indicating.

Consent of conviction purposes only any other use.

1. Introduction to the Study Area

1.1 Scope of Study (figs 1 & 2)

A full description of the proposed development project was supplied by the lead consultants Mott MacDonald Pettit.

This report details the archaeological and architectural cultoral heritage assessment of the proposed upgrade of the existing waste water system and the provision of a waste water treatment plant (WWTP) and sludge treatment centre of the Cork Lower Harbour and environs, as detailed in the preceding paragraphs. The report is a pre-planning assessment report and fulfils the criteria of an impact assessment and follows the most recent EPA guidelines on the compilation of an ES (2002). NRA guidelines have also been used in this regard (n.d.; n.d.a). The objective of any cultural heritage (architecture and archaeology) assessment study includes the identification of all recorded archaeological monuments within the study area including the legal status, if any, of these features (NRA n.d., 16). For architectural heritage the study is to identify structures and features of known architectural merit. This study collates information from readily available sources that will be used to inform the later stages of the planning process (NRA, n.d.a, 13). For both archaeological and architectural heritage at assessment stage data collection is based on a desk study to identify all features and structures of known architectural merit and all known and recorded archaeological monuments, from published sources (NRA n.d., 16; NRA n.d.a, 13). Fieldwork is also undertaken. In the case of this study, the historical integrity of some of the locations in the study area, is also very important and must be considered. Cobh town being a particular case in point. The entire town's entity being perhaps greater than the sum of its parts, due to its location and its rich maritime history associated with voyages of the *Titanic* and the *Sirius*.

The report details the recorded and potential archaeological and cultural heritage features within the study area and in its vicinity and discusses the proposed impact of the development on that archaeology and/or cultural heritage.

The following brief has been fulfilled by this report:

- The identification of all recorded archaeological monuments within the pipeline areas and pumping stations, including the legal status, if any, of these monuments;
- The identification of structures and features of architectural merit within the study area based on published sources;
- A report on the archaeological walkover inspection of the proposed pipeline and waste water treatment lands;
- A general account of the historical and archaeological background of the study area, including examination of RMP maps, SMR files and the topographical files, as well as a concise summary of the historical background of the study area;
- The predicted impact(s) (if any) of the proposed development on the known and potential archaeology and architecture is discussed;
- Suggested mitigation procedures for addressing those predicted impacts (if any).

No intrusive archaeological investigations (test-trenching for excavation) have been undertaken at this stage. Suggested further archaeological (and/or cultural heritage) mitigation is stated at end of the report.

1.2 Definition of Archaeological & Architectural Heritage

The archaeological heritage may be defined as

a finite non-renewable physical and material resource. Archaeology is the study of past human societies through their material remains and artefactual assemblages. The study of archaeological remains increases our understanding and knowledge of the structure and culture of the past and ancient societies that are not recorded by any other means (NRA n.d., 8).

Every archaeological monument is unique and contains valuable information on the individual site as well as evidence for a wider cultural framework. As a group, archaeological monuments can contribute information on cultural evolution and important changes over time, while providing insights into communications, trade, and growth of past human societies (*ibid*.).

Architectural heritage is defined by the Architectural Heritage (National Inventory) and Historic Monuments Act 1999 as all

structures and buildings together with their settings and attendant grounds, fixtures and fittings... groups of such structures and buildings and sites, which are of architectural, historic, archaeological, artistic, cultural, scientific, social or technical interest (NRA n.d.a, 7).

It is important to note that not all archaeological or architectural heritage is known or recorded at present and "new" sites are constantly being identified, by a variety of methods.

1.3 Protection of Heritage: The Legislative Frameworks

The current relevant legislation in relation to the protection of the archaeological and architectural heritage is detailed below, (there is some overlap in the legislation at present, and this accounts for the repetition in the list below, from NRA n.d., 9; n.d.a 8, with additions):

Level of Legislation	Archaeological Heritage Legislation	Architectural Heritage Legislation
National		1999 Local Government (Planning and Development) Act 2000 Architectural Heritage Protection Guidelines for Planning Authorities (DoEHLG 2004) Action on Architecture 2002-2005 Government Policy on Architecture Advice notes on current practice (in the preparation Sofenvironmental impact statements (EPA 2003) Solidelines on the information to be contained in Environmental Impact Statements (EPA 2002) Code of Practice between the NRA and the Department of Arts, Heritage, Gaeltacht and the Islands (2000) NIAH Handbook (National Inventory of Architectural Heritage DoEHLG June 2006)
European	European Convention on the Protection of the Archaeological Heritage ratified by the ROI 1997 ("The Valetta Convention") Council of Europe Convention on the Protection of the Architectural Heritage of Europe ratified by the ROI 1997 ("The Granada Convention")	ROI 1997 ("The Granada Convention") European Council Directive on Environmental Impact assessment (85/337/EEC) 1985 and amending
International	International Council on Monuments and Sites (ICOMOS) advisory body to UNESCO concerning the protection of sites and recommendation of World Heritage sites ratified by the ROI 1992	Convention for the Protection of World Cultural and

Table 1. Relevant legislation in relation to the protection of the archaeological and architectural heritage

Using the above legislative framework, there are a number of methods can be applied to secure the protection of archaeological/architectural monuments. These include National Monument designation (ownership and guardianship by the State including local authorities), the Register of Historic Monuments, The Record of Monuments and Places (RMP), the placing of Preservation Orders and temporary Preservation Orders on endangered archaeological monuments. The government department with responsibility for the archaeological heritage is the Department of the Environment, Heritage and Local Government and its Minister. Protected Structure legislation is currently in place to protect the architectural heritage of the country. The work of the NIAH (National inventory of architectural heritage) informs the compilation of lists of Protected Structures by local authorities. The NIAH's work is ongoing. The NIAH has yet to undertake fieldwork in the study area, though this is scheduled for later in 2007 (W. Cummins NIAH pers. comm.).

National monuments may be acquired by the Minister by agreement or by compulsory purchase order. The State or the local authority may assume the guardianship of any national monument (apart from dwellings). The owners of national monuments may also appoint the Minister or local authority as guardian of that monument, should they be in agreement. Once in the ownership or guardianship of the State, the site cannot be interfered with without the written consent of the Minister. At the time of writing there are no National Monuments being directly impacted by the proposed development.

The **Register of Historic Monuments** was enacted under the 1987 amendment to the National Monuments Act. It required that the Minister established and maintained a Register of Historic Monuments and archaeological areas, which once on the register, would be afforded statutory protection under the 1987 Act. Two months police in writing is required to be provided to the Minister, prior to any works being undertaken on or in the vicinity of a registered monument. With the establishment of the RMPs (under the 1994 amendment Act) the Register became somewhat redundant. At the time of writing, there were no Registered Monuments being directly impacted by the proposed development.

The **Record of Monuments and Places** (RMP) was established under the 1994 amendment to the Act. It was the duty of the Minister to establish and maintain such a record where the Minister believes such monuments may exist. The record comprises a list of monuments and places and a constraint map indicating the location of such monuments and places. The RMP is maintained on a county basis. Sites on the RMP all received statutory protection under the National Monuments Act 1994. (The current protective legislation at the time of writing is the National Monuments Act 1930-2004.) The **black line or circle** on the RMPs (figure 4.6) indicates the zone of archaeological potential (ZAP) either around an individual archaeological site (usually a circle) or around a town or archaeological complex (usually an irregular shape). This line provides a protective zone of archaeological potential, which is a zone that is protected under The National Monuments (amendment) Acts 1930-2004 legislation.

According to section 12 of the National Monuments Acts 1930-2004, where "the owner or occupier (other than the Minister for Environment and Local Government) of a monument or place included in the Record, or any other person, proposes to carry out, or cause or permit the carrying out of any work at or in relation to such a monument or place, he or she shall give notice in writing to the Minister for the Environment and local Government to carry out work and shall not, except in the case of urgent necessity and with the consent of the Minister, commence the work until two months after giving the notice". The **Sites and Monuments Record (SMR)** was the precursor to the RMP and now commonly refers to the paper archive housed in the Archaeological Survey of Ireland, which details pertinent information on each individual archaeological monument.

In the event that archaeological sites are deemed to be in immediate danger of destruction or damage a **Preservation Order** can be issued under the provisions of the 1930 (principal) National Monuments Act. These Orders make any interference with the site illegal. Under the 1954 Act, Temporary Preservation Orders can also be issued, while having the same function as a Preservation Order, have a time limit of six months. after which the case must be reviewed. Again, work on or in the vicinity of archaeological monuments under temporary or full Preservation Orders require Ministerial written consent. At the time of writing, it appeared that there were no Preservation Orders on archaeological monuments being directly impacted by the proposed development.

There are also a number of methods in which the architectural heritage may be protected. The Heritage Council was established by The Heritage Act 1995. Its main objective seeks to promote the interest in, knowledge and protection of all Irish heritage, which includes the archaeological and architectural resource. The 1995 Act, protects all heritage buildings owned by local authorities from damage or destruction. The Architectural Heritage Act 1999 requires the Minister to establish a survey in order to identify record and evaluate the architectural heritage of the State. The body established to undertake this work is known as the NIAH, National Inventory of Architectural Heritage, which is undertaking the survey at present. The NIAH has not yet undertaken the inventory for this area of Cork and there are no structures included in the survey for the study area at the time of writing. Inclusion of structures on this inventory does not provide statutory protection; however, local authorities are encouraged to use the NIAH surveys as a baseline in creating their Record of Protected Structures (RPS). The RPS is an obligation of local authorities under the Local Government (Planning and Development) Act 2000. This record should list structures of special architectural, historical, archaeological, artistic, cultural, scientific, social or technical interest. The Record of Protected Structures for County Cork is included in the Cork County Development Plan 2003, (Cork

12

County Council). Cobh town also has a Development Plan (Cobh Town Council 2005), which lists all the Protected Structures in the town. Cobh is also important on a wider level due to its historical importance, particularly its maritime history.

"Cultural heritage" is the loose collective term applied to both archaeological and architectural heritage (Buttimer *et al* 2000). However, as a rule of thumb the archaeological resource covers sites and monuments from the prehistoric to the post medieval period, while the architectural resource includes standing structures and sites dating from the post-medieval to the modern period.

Consent of copyright owner required for any other use.