

KEY

Site Boundary

1km Offsets from Site Boundary

1 Photograph Viewpoint Location
(Refer to Drawing 04 for existing photograph views to site)

5 Photograph Viewpoint Location & Photomontage Location (Refer to Drawings 05 - 08 Photomontage Views)

Anglesey Area of Outstanding Natural Beauty

Conservation Area

Open Country

06/14 Bridleway with Reference Number

06/14 Footpath with Reference Number

06/14 07/16 Reference Number Change Point

Long Distant Route:
Isle of Anglesey Coastal Path

8 Sustrans NCN:
Route 8 (Lon Las Cymru)
Route 5 (North Wales Coastal Route)

Client

Anglesey County Council

Project

Holyhead Breakwater Refurbishment Scheme

Drawing Title

Landscape Constraints

Created by	Reviewer	Sheet Size	Scale	Date Created
CL	MCE	A3	1:20,000	06.03.20
Drawing Nr.				Revision
01				01

DRaW (UK) Ltd

Morwick Hall

York Road

Leeds

LS15 4TA

t: 0113 8232871

www.draw-ltd.com



KEY

- Site Boundary
- 1km Offsets from Site Boundary
- Photograph Viewpoint Location
(Refer to Drawing 04 for existing photograph views to site)
- Photograph Viewpoint Location & Photomontage Location (Refer to Drawings 05 - 08 Photomontage Views)

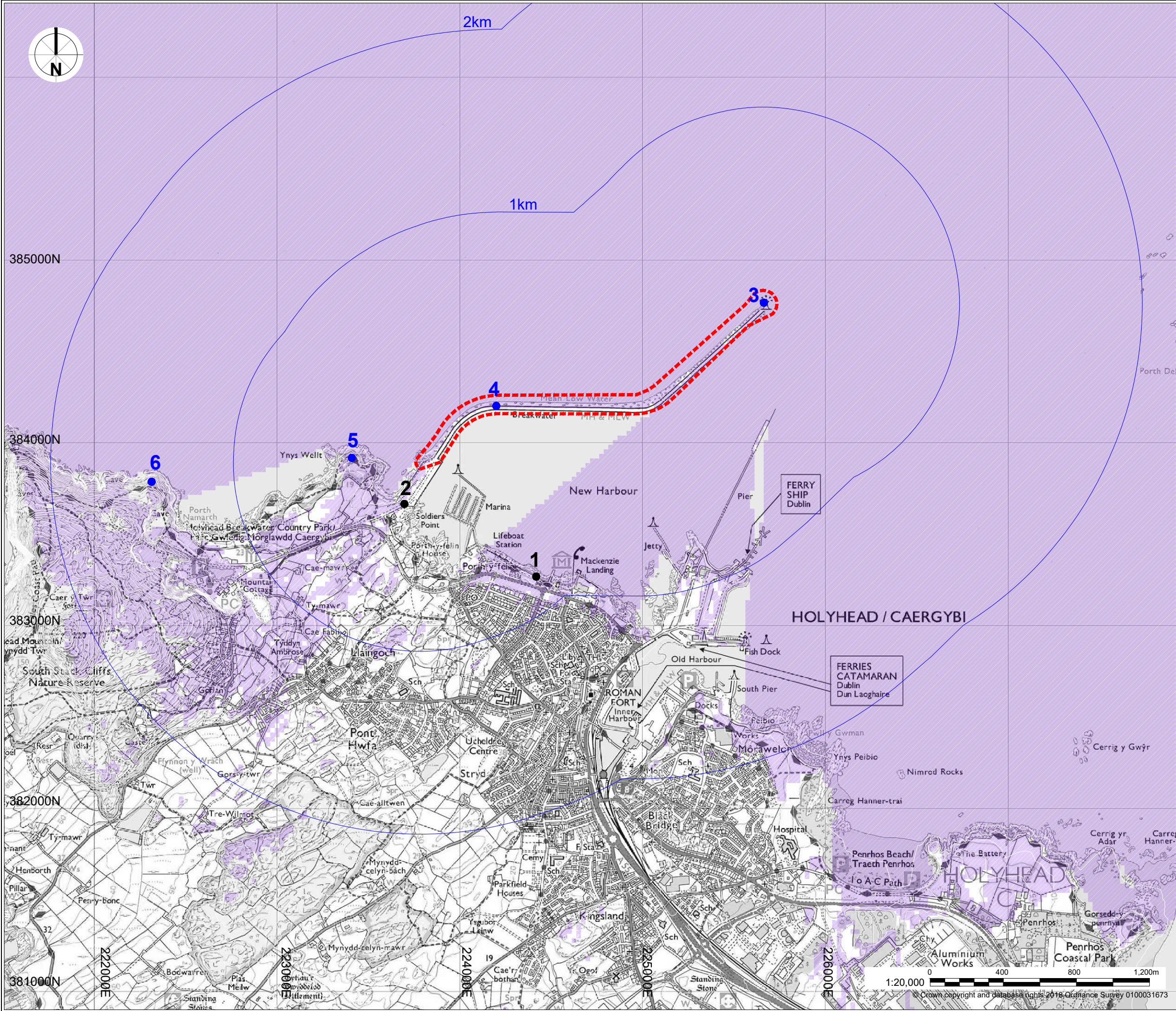
Client
Anglesey County Council

Project
Holyhead Breakwater Refurbishment Scheme

Drawing Title
Aerial Photograph & Photograph Locations

Created by CL	Reviewer MCE	Sheet Size A3	Scale 1:20,000	Date Created 06.03.20
Drawing Nr. 02				Revision 01

DRaW (UK) Ltd
Morwick Hall
York Road
Leeds
LS15 4TA
t: 0113 8232871
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KEY

Site Boundary

1km

1km Offsets from Site Boundary

Zone of Theoretical Visibility

1

Photograph Viewpoint Location
(Refer to Drawing 04 for existing photograph views to site)

5

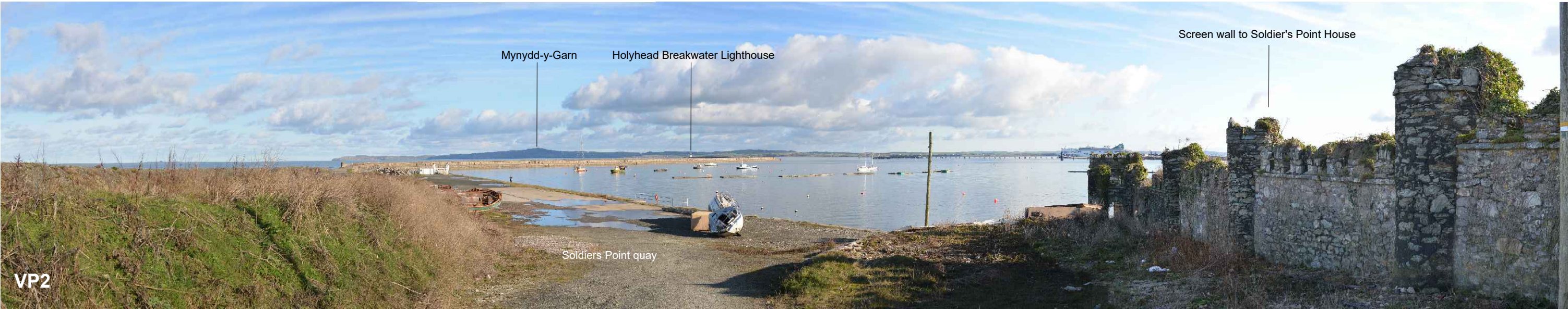
Photograph Viewpoint Location & Photomontage Location (Refer to Drawings 05 - 08 Photomontage Views)


- Notes:
- ZTV analysis:**
- ZTV analysis points set at 30m offset from breakwater at 2.5mAOD (approx 5.5 mCD) vertical height.
 - Existing buildings and selected woodland areas are included in the Digital Terrain Model - building and woodland heights modelled in the DTM are at 10m above ground level.
 - Observers eye level 1.7m.
 - Extent of ZTV limited to 5km distance from analysis points
 - Analysis adjusted for earth curvature / refraction

Client				
Anglesey County Council				
Project				
Holyhead Breakwater Refurbishment Scheme				
Drawing Title				
Visual & Sensory Aspect Areas				
Created by	Reviewer	Sheet Size	Scale	Date Created
CL	MCE	A3	1:20,000	06.03.20
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03				01
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				Project	Holyhead Breakwater Refurbishment Scheme							
				Size	A3	Scale	NTS	Date	20/11/19	Created by	CL	Reviewer
Drawing Nr.									04A	Rev	01	

Existing View



Photomontage view of the proposed refurbishment




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	Viewpoint 3: Looking south west from the head of Holyhead Breakwater towards Holyhead Mountain		<ul style="list-style-type: none">• Date taken: 24/02/20• Camera: Nikon D600 (full frame sensor)• Lens: 50mm prime.• Camera height: 1.5m• Horizontal Field of View: 90°• For photograph locations refer to Drawing 04		Anglesey County Council		Photomontage View 3		
	Project		Holyhead Breakwater Refurbishment Scheme		Size	Scale	Date	Created by	Reviewer
					A3	NTS	27/03/20	CL	MCE
					Drawing Nr.		Rev		
						05		01	

Existing View



Photomontage view of the proposed refurbishment




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	Viewpoint 4: Looking north east from Holyhead Breakwater, approximately 800m from shore		<ul style="list-style-type: none">• Date taken: 24/02/20• Camera: Nikon D600 (full frame sensor)• Lens: 50mm prime.• Camera height: 1.5m• Horizontal Field of View: 90°• For photograph locations refer to Drawing 04		Anglesey County Council		Photomontage View 4			
					Project		Holyhead Breakwater Refurbishment Scheme			
							Size	Scale	Date	Created by
				A3			NTS	27/03/20	CL	MCE
				Drawing Nr.			Rev			
				06			01			

Existing View



Photomontage view of the proposed refurbishment

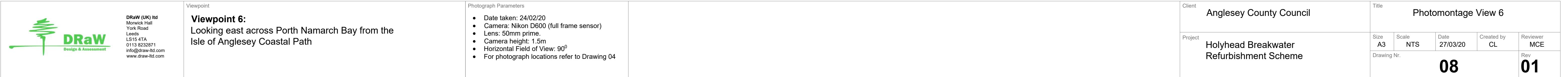


<div><div><div>DRaW (UK) Ltd</div><div>Morwick Hall</div><div>York Road</div><div>Leeds</div><div>LS15 4TA</div><div>0113 8232871</div><div>info@draw-uk.com</div><div>www.draw-uk.com</div></div></div>	Viewpoint		Photograph Parameters		Client		Title	
	Viewpoint 5: Looking north east from headland near Ynys Wellt on the Isle of Anglesey Coastal Path		<ul style="list-style-type: none">• Date taken: 24/02/20• Camera: Nikon D600 (full frame sensor)• Lens: 50mm prime.• Camera height: 1.5m• Horizontal Field of View: 90°• For photograph locations refer to Drawing 04		Anglesey County Council		Photomontage View 5	
	Project		Holyhead Breakwater Refurbishment Scheme		Size	Scale	Date	Created by
Drawing Nr.		07		Rev		01		

Existing View

A wide panoramic photograph of a coastal landscape. The foreground is dominated by a large body of blue water. In the middle ground, a long pier or breakwater extends into the water, with a small building and some structures at its end. To the right, a rocky coastline with green grass and some buildings is visible. The background shows a distant shoreline with hills and a clear blue sky with scattered clouds.

Photomontage view of the proposed refurbishment

A wide panoramic view of a coastal area. In the foreground, the sea is a deep blue-grey with gentle ripples. A long, dark pier or breakwater extends from the shore into the water. To the right, a small town or village is visible, with a prominent white building and a tall, thin chimney. The land is a mix of green grass and brown, rocky terrain. The sky is a clear blue with scattered, light-colored clouds. The overall scene is a photomontage showing the proposed refurbishment of the coastal area.

Appendix 15

Cultural Heritage

Contents	
15.1	Desk Based Assessment and Heritage Statement

15.1 Desk Based Assessment and Heritage Statement

REPORT

Appendix 15.1 Desk Based Assessment and Heritage Statement

Holyhead Breakwater Refurbishment Scheme

Client: Isle of Anglesey County Council

Reference: PB9014-RHD-BW-XX-RP-C-0161

Status: S0/P01.01

Date: 17 December 2020

HASKONINGDHV UK LTD.

Rightwell House
Rightwell East
Bretton
Peterborough
PE3 8DW
Industry & Buildings
VAT registration number: 792428892

+44 1733 334455 **T**
+44 1733 262243 **F**
info@uk.rhdhv.com **E**
royalhaskoningdhv.com **W**

Document title: Appendix 15.1 Desk Based Assessment and Heritage Statement

Document short title: Holyhead Breakwater DBA and HS
Reference: PB9014-RHD-BW-XX-RP-C-0161
Status: P01.01/S0
Date: 17 December 2020
Project name: Holyhead Breakwater Refurbishment Scheme
Project number: PB9014
Author(s): Victoria Cooper

Drafted by: Victoria Cooper

Checked by: Jamie Gardiner

Date: 21/12/2021

Approved by: Jamie Gardiner

Date: 21/12/2021

Classification

Project related

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1 Introduction

The Port of Holyhead is a strategically important international ferry port, providing the main transport link between Ireland and mainland UK. Constructed between 1848 and 1873, Holyhead Breakwater (“the Breakwater”) forms part of the essential infrastructure for the operation of the Port, providing sheltered waters for berthing ferries and other vessels and providing protection to the surrounding coastline from coastal erosion and flooding. The Breakwater is a Grade II* listed Victorian structure and, at a total length of 2.4km, is the longest Breakwater in the UK. At the end of the Breakwater (the roundhead) sits the Grade II-listed Holyhead Breakwater Lighthouse. The Breakwater is formed by a wide rubble mound with a crest around the waterline and a vertical blockwork-walled superstructure on top.

Over time the Breakwater has been subject to considerable wave action, which has led to the displacement and erosion of the rock that makes up the rubble mound and, consequently, a loss of integrity of the rubble mound itself. As a result, the rubble mound has been subject to regular, expensive maintenance through the partial replacement of lost material. The vertical blockwork wall superstructure is subject to periodic damage, which is repaired on an ongoing basis.

In 2017, the Isle of Anglesey County Council (IoACC) commissioned Royal HaskoningDHV to provide an Outline Business Case (OBC) (Royal HaskoningDHV, 2017), the aim of which was to identify a cost-effective, long-term and sustainable solution to the erosion of the rubble mound so that it can continue to provide a stable foundation for the superstructure in order to:

- Maintain Holyhead as a viable commercial centre and support opportunities for regeneration; and,
- Maintain Holyhead as a functioning port.

Following Environmental Impact Assessment (EIA) screening, it was determined that an EIA was required in order to gain Planning Permission for the Holyhead Breakwater Refurbishment Scheme (“the proposed scheme”) from the IoACC. Additionally, in consultation with Natural Resources Wales (NRW) it was determined that an EIA was to be submitted, by agreement, in order to obtain the marine licence. In addition, Listed Building Consent (LBC) will be required from the IoACC.

This report presents the results of a desk based assessment (DBA) (**Section 5**), and settings assessment (**Section 6**) to inform the EIA, and also includes a separate heritage impact statement for the Holyhead Breakwater and Lighthouse (**Section 7**) in support of the LBC application. In 2017, a Level 4 Building Record of the Breakwater was completed by Gwynedd Archaeological Trust (GAT) in accordance with the descriptions of recording levels set out in *Understanding Historic Buildings: A guide to good recording practice* (Historic England, 2016). The Level 4 Building Record is included in full in **Appendix A1**.

2 Description of the Proposed Scheme

In summary, the proposed scheme comprises the following:

- Seaward side – installation of concrete armour onto the existing rubble mound along the length of the Breakwater, in the form of 18.1m³ Tetrapod units and reinforcing 120-tonne Z-shaped concrete units to prevent displacement;
- Breakwater roundhead (i.e. the terminal section of the Breakwater on which the Lighthouse stands) – rock placement to widen the existing rubble mound, with installation of Tetrapod units and reinforcing Z-shaped blocks on top; and,

- Leeward side – restoration of the existing rubble mound along sections of the Breakwater through the installation of an articulated concrete block mattress (ACBM), and a rock revetment where the existing rubble mound is too steep to accommodate the ACBM.

Two options have been considered with regards to the provision of the concrete armour units:

1. a concrete batching plant and casting yard located on Salt Island; and,
2. Offsite production of the units at a licenced facility to be delivered to site by sea.

3 Study Area

The study area for the DBA comprises the maximum working area for the planned works to the Breakwater plus a 1km buffer. With regard to potential impacts upon the setting of designated historic assets, the study area has been expanded to include a 3km buffer. This area was considered sufficient to encapsulate historic assets that may subject to impact, either directly (physically) or indirectly (physically and non-physical changes to the setting of historic assets), as a result of the proposed scheme. The study area is illustrated on **Figure 4.1**.

4 Consultation

Full details of the scoping responses and pre-application consultation relevant to heritage considerations are set out in Chapter 6 of the EIA Report. A summary of this consultation is presented below.

The local planning authority for Holyhead is the IoACC while NRW is the regulatory authority for marine licensing in Welsh inshore and offshore waters. An EIA Scoping Report was submitted to the IoACC and NRW on 20th April 2020, and formal scoping opinions were issued on 20th August 2020 and 23rd July 2020, respectively.

The responsibilities of the Ministers of the Welsh Government with regard to archaeological and built heritage matters, which extend offshore to the 12nm territorial limit, are administered by Cadw. In addition, there are four regional archaeological trusts in Wales which provide advice on the historic environment across Wales and Anglesey is covered by the GAT; however, it is important to note that archaeological advice to the Local Planning Authorities of North-West Wales, and to others engaged in development in the public and private sectors, is provided by the Gwynedd Archaeological Planning Service (GAPS), a separate and autonomous section of GAT. Consenting authorities will also consult the Royal Commission on the Ancient and Historical Monuments of Wales (RCAHMW) about underwater sites affected by applications for consents and marine licences.

A stakeholder pre-application meeting was held on the 24th of April 2019. Heritage attendees included Keith Williams (Senior Planning Officer (Conservation), IoACC) and Jenny Emmet (GAPS). Following the meeting, pre-application advice was provided by GAPS via email.