Awel y Môr Offshore Wind Farm

Category 6: Environmental Statement

Volume 2, Chapter 15: Offshore Conclusions

Date: April 2022

Revision: B

Application Reference: 6.2.15

Pursuant to: APFP Regulation 5(2)(a)

REVISION	DATE	STATUS/ REASON FOR ISSUE	AUTHOR:	CHECKED BY:	APPROVED BY:
A	August 2021	PEIR	GoBe Consultants	RWE	RWE
B	March 2022	ES	GoBe Consultants	RWE	RWE

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Abbreviations and acronyms

TERM	DEFINITION
AoNB	Area of Outstanding Natural Beauty
AyM	Awel y Môr Offshore Wind Farm
AEZ	Archaeological Exclusion Zone
ECC	Export Cable Corridor
EIA	Environmental Impact Assessment
EMF	Electromagnetic Fields
FLP	Fisheries Liaison Plan
FoV	Field of View
IoA	Isle of Anglesey
LDR	Long Distance Route
MCA	Maritime and Coastguard Agency
(M)INNS	(Marine) Invasive and Non-Native Species
MMMP	Marine Mammal Mitigation Protocol
O&M	Operation and Maintenance
OWF	Offshore Wind Farm
PEIR	Preliminary Environmental Information Report
PRoW	Public Right of Way
PTS	Permanent Threshold Shift
SAR	Search and Rescue
SCA	Seascape Character Area
SPA	Special Protection Area

TERM	DEFINITION
SSC	Suspended Sediment Concentration
TTS	Temporary Threshold Shift
UXO	Unexploded Ordnance
VER	Valued Ecological Receptor
VP	Viewpoint
WFD	Water Framework Directive
WSI	Written Scheme of Investigation
WTG	Wind Turbine Generator

15 Offshore conclusions

15.1 Introduction

1 This chapter of the Environmental Statement (ES) presents a summary of the key environmental issues associated with the Awel y Môr Offshore Wind Farm (AyM), as identified in the environmental impact assessment work undertaken. The content of this summary section is taken from the individual topic-specific chapters contained in Volume 2 of the ES.

2 The potential effects of the proposed development were identified and then assessed by considering both the magnitude of the impact (which may include spatial extent, duration, and frequency) and the sensitivity of the receptor (which may consider vulnerability, recoverability, and importance) for each potential impact.

3 The significance of effect was judged according to a matrix such as that illustrated in Table 2 of Volume 1 Chapter 3: Environmental Impact Assessment (EIA) Methodology (application ref: 6.1.3). Effects arising, both adverse and beneficial, were graded on a scale ranging from 'Negligible' to 'Major'. Effects rated as 'Moderate' or 'Major' are considered to be 'significant' in EIA terms and will usually require mitigation. Effects rated as 'Minor' or 'Negligible' are not considered to be significant in EIA terms. However, there are exceptions to this for certain topics such as in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9), where an industry standard risk assessment protocol has been adopted. Where such variations to the standard approach have been adopted, this is clearly set out within the individual topic chapter.

4 In order to provide a full summary of the potential effects to the offshore components of AyM, all impacts have been listed in summary tables below in Section 15.3, Table 1 to Table 13. Where proposed, additional mitigation measures to address the key issues are included and the significance of the residual effect is provided. There are a range of mitigation measures (both embedded and additional) which have been drawn from the impact assessment process, described within the Schedule of Mitigation (application ref: 8.11). The assessment of effects has therefore taken account of all measures that form part of the proposed development process and to which Awel y Môr Offshore Wind Farm Limited (the Applicant) is committed.

15.2 EIA outcomes

5 The EIA process has been carried out with reference to accepted methods covering the approach to defining baseline conditions, methods for assessment, definitions and criteria for identifying potential impacts, and ascribing significance levels to potential effects.

6 Consultation has also played a key role in this, with stakeholders and statutory bodies inputting to the methodologies and scope of assessments to ensure that all relevant issues have been fully considered. This ES is a detailed summary of the assessments carried out to date and the ES clearly identifies significant effects, where these are considered likely to occur, and any necessary mitigation measures to reduce such effects.

15.3 Key conclusions of the assessment

7 Based on the results of the EIA undertaken against the worst-case scenario and reported in this ES, the offshore components of the proposed AyM development are predicted to result in a limited number of significant adverse effects. These are listed in the following tables (Table 1 to Table 13), along with additional proposed mitigation measures, where appropriate, and the residual significance of effect once the proposed mitigation has been applied.

Table 1: Summary of predicted effects on Marine Geology, Oceanography and Physical Processes.

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
CONSTRUCTION				
Potential changes to suspended sediment concentrations, bed levels and sediment type/ character arising from construction related activities including dredging, drilling and cable installation.	(Pathway)	(Pathway)	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	(Pathway)
Potential changes to Constable Bank/ Rhyl Flats and designated sites owing to the combined influence of sediment removal activities e.g. dredging and sandwave clearance.	Low adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor adverse (not significant)
Potential changes to Constable Bank/ Rhyl Flats, designated sites and the adjacent coast, arising from dredging/ disposal induced bed level change and associated modification of waves, tides and sediment transport.	Negligible adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor adverse (not significant)
Potential changes to Constable Bank/ Rhyl Flats, designated sites and the adjacent coast, arising from blockage effects associated with (partially) installed infrastructure.	Low adverse (for Liverpool Bay SPA) Negligible (for all other receptors)	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor adverse (not significant)
Potential changes to the coast arising from HDD (or other	Low adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine	Minor adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
trenchless technique) and trenching at the landfall			Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	
Potential for long-term changes to the coast arising from the use of cable protection at the landfall.	Negligible adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor adverse (not significant)
Potential for long-term changes to the coast arising from cable protection within nearshore areas.	Low adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor adverse (not significant)
OPERATION				
Potential for scour of seabed sediments, including that around scour protection structures.	(Pathway)	(Pathway)	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	(Pathway)
Potential for changes to Constable Bank/ Rhyl Flats and designated sites arising from modification of the tidal regime	Low adverse (for Liverpool Bay SPA) Negligible adverse (for Constable Bank and Rhyl Flats)	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor adverse (not significant)
Potential for changes to Constable Bank/ Rhyl Flats, designated sites and the	Negligible adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and	Minor adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
adjacent coast arising from modification of the wave regime			Physical Processes (application ref: 6.2.2)).	
Potential for changes to Constable Bank/ Rhyl Flats, designated sites and the adjacent coast arising from modification of the sediment transport regime	Negligible adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor (adverse) (not significant)
Potential for changes to the coast arising from any modification of Constable Bank and Rhyl Flats.	Negligible adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor (adverse) (not significant)
DECOMMISSIONING				
Potential changes to suspended sediment concentrations, bed levels and sediment type.	(Pathway)	(Pathway)	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	(Pathway)
Potential changes to the coast arising from cable removal at the landfall.	Minor adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor adverse (not significant)
CUMULATIVE EFFECTS				
Potential for cumulative temporary increases in Suspended Sediment Concentration (SSC) and seabed levels as a result of AyM	(Pathway)	(Pathway)	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and	(Pathway)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
foundation installation and aggregate dredging			Physical Processes (application ref: 6.2.2)).	
Potential for cumulative temporary increases in SSC and seabed levels as a result of AyM foundation installation and dredge spoil disposal at licensed disposal grounds	(Pathway)	(Pathway)	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	(Pathway)
Potential for cumulative changes in hydrodynamics, waves and sediment transport arising from interaction proposed Round 4 OWF projects	[Not assessed; insufficient project information currently available]			
Potential for cumulative changes in hydrodynamics, waves and sediment transport arising from interaction with Flagstaff Tidal Lagoon (also known as the Port of Mostyn Tidal Lagoon).	Negligible adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor adverse (not significant)
Potential for cumulative changes in hydrodynamics, waves and sediment transport arising from interaction with new coastal defence works	[Not assessed; insufficient project information currently available]			

Table 2: Summary of predicted effects on Marine Water and Sediment Quality.

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
CONSTRUCTION				
Deterioration in water quality due to suspension of sediments	Low adverse	Bathing Waters – Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 2: Marine Geology, Oceanography and Physical Processes (application ref: 6.2.2)).	Minor adverse (not significant)
		Water Framework Directive (WFD) waterbodies - Low		Minor adverse (not significant)
		Non-designated waters – negligible		Negligible (not significant)
Release of sediment-bound contaminants from disturbed sediments	Low adverse	Bathing Waters – N/A	No additional mitigation measures identified.	N/A
		WFD waterbodies - Low		Minor adverse (not significant)
		Non-designated waters – negligible		Negligible adverse (not significant)
Deterioration in water clarity due to the release of drilling mud	Low adverse	Bathing Waters – Medium	No additional mitigation measures identified.	Minor adverse (not significant)
		WFD waterbodies - Low		Negligible (not significant)
		Non-designated waters - Negligible		Negligible (not significant)
	Negligible adverse	Bathing Waters – Medium	No additional mitigation measures identified.	Minor adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Accidental releases or spills of materials or chemicals during construction		WFD waterbodies - Low		Minor adverse (not significant)
		Non-designated waters – Negligible		Negligible (not significant)
OPERATION				
Deterioration in water quality due to suspension of sediments from scour	Negligible adverse	Bathing Waters – N/A	No additional mitigation measures identified.	N/A
		WFD waterbodies – Low		Negligible (not significant)
		Non-designated waters – Negligible		Negligible (not significant)
Deterioration in water quality due to suspension of sediments from O&M activities	Low adverse	Bathing Waters – Medium	No additional mitigation measures identified.	Minor adverse (not significant)
		WFD waterbodies – Low		Minor adverse (not significant)
		Non-designated waters – Negligible		Negligible (not significant)
Accidental releases or spills of materials or chemicals during operation	Negligible adverse	Bathing Waters – Medium	No additional mitigation measures identified.	Minor adverse (not significant)
		WFD waterbodies - Low		Negligible (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
		Non-designated waters - Negligible		Negligible (not significant)
DECOMMISSIONING				
Deterioration in water quality due to suspension of sediments	Low adverse	Bathing Waters – Medium	No additional mitigation measures identified.	Minor adverse (not significant)
		North Wales coastal waterbody - Low		Minor adverse (not significant)
		Non-designated waters - Negligible		Negligible (not significant)
Accidental releases or spills of materials or chemicals during decommissioning	Negligible adverse	Bathing Waters – Medium	No additional mitigation measures identified.	Minor adverse (not significant)
		WFD waterbodies - Low		Negligible (not significant)
		Non-designated waters - Negligible		Negligible (not significant)
CUMULATIVE EFFECTS				
Cumulative deterioration in water quality due to suspension of sediments	Low adverse	Bathing Waters – Medium	No additional mitigation measures identified.	Minor adverse (not significant)
		WFD waterbodies - Low		Minor adverse (not significant)
		Non-designated waters - Negligible		Negligible (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Cumulative release of sediment-bound contaminants from disturbed sediments	Low adverse	Bathing Waters – N/A	No additional mitigation measures identified.	N/A
		WFD waterbodies - Low		Minor adverse (not significant)
		Non-designated waters - Negligible		Negligible (not significant)

Table 3: Summary of predicted effects on Offshore Ornithology.

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT	IMPACT
CONSTRUCTION					
Disturbance and displacement: array	Common scoter & red-throated diver	Negligible adverse	High	N/A	Negligible to minor adverse (not significant)
	Guillemot	Negligible adverse	Medium	N/A	Minor adverse (not significant)
	Razorbill, gannet & Manx shearwater	Negligible adverse	Medium	N/A	Negligible to minor adverse (not significant)
Disturbance and displacement: offshore ECC	Red-throated diver	Negligible adverse	High	N/A	Negligible to minor (not significant)
	Common Scoter	Negligible adverse	High	N/A	Minor adverse (not significant)
Indirect impacts: array	All receptors	Negligible adverse	Low to High	N/A	Negligible adverse (not significant)
Indirect impacts: offshore ECC	All receptors	Negligible adverse	Low to High	N/A	Negligible adverse (not significant)
OPERATION					
Disturbance and displacement: array	Common Scoter & red-throated diver	Negligible adverse	High	N/A	Negligible to minor adverse (not significant)
	Guillemot	Negligible adverse	Medium	N/A	Minor adverse (not significant)
	Razorbill, gannet & Manx shearwater	Negligible adverse	Medium	N/A	Negligible to minor adverse (not significant)
Disturbance and displacement: operational vessels	All receptors	Negligible adverse	Medium to High	N/A	Negligible adverse (not significant)
Disturbance and displacement: offshore ECC	All receptors	Negligible adverse	Medium to High	N/A	Negligible adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT	IMPACT
Collision risk: array	Kittiwake & gannet	Low adverse	Medium	N/A	Minor adverse (not significant)
	Great black-backed gull & herring gull	Negligible adverse	Medium	N/A	Negligible to minor adverse (not significant)
	Migratory Receptors	Negligible adverse	Low to Medium	N/A	Negligible to minor adverse (not significant)
Cumulative displacement and collision risk: array	Gannet	Low adverse	Medium	N/A	Minor adverse (not significant)
Barrier effects: array	All receptors	Negligible adverse	Low	N/A	Negligible to minor adverse (not significant)
Lighting: array	All receptors	Negligible adverse	Low	N/A	Negligible to minor adverse (not significant)
Indirect impacts: array	All receptors	Negligible adverse	Low to High	N/A	Negligible to minor adverse (not significant)
Indirect impacts: offshore ECC	All receptors	Negligible adverse	Low to High	N/A	Negligible to minor adverse (not significant)
DECOMMISSIONING					
Disturbance and displacement: array	Common Scoter & red-throated diver	Negligible adverse	High	N/A	Negligible to minor adverse (not significant)
	Guillemot	Negligible adverse	Medium	N/A	Minor adverse (not significant)
	Razorbill, gannet & Manx shearwater	Negligible adverse	Medium	N/A	Negligible to minor adverse (not significant)
Disturbance and displacement: offshore ECC	Red-throated diver	Negligible adverse	High	N/A	Negligible to minor adverse (not significant)
	Common Scoter	Negligible adverse	High	N/A	Minor adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT	IMPACT
Indirect impacts: array	All receptors	Negligible adverse	Low to High	N/A	Negligible adverse (not significant)
Indirect impacts: offshore ECC	All receptors	Negligible adverse	Low to High	N/A	Negligible adverse (not significant)
CUMULATIVE EFFECTS					
Disturbance and displacement	Common scoter & red-throated diver	Negligible adverse	High	N/A	Minor adverse (not significant)
	Guillemot, razorbill, gannet & Manx Shearwater	Negligible adverse	Medium	N/A	Minor adverse (not significant)
Collision risk	Kittiwake, great black-backed gull & gannet	Low adverse	Medium	N/A	Minor adverse (not significant)
	Herring gull	Low to Negligible adverse	Medium	N/A	Minor adverse (not significant)
Cumulative displacement and collision risk	Gannet	Low adverse	Medium	N/A	Minor adverse (not significant)
Barrier effects	All receptors	Negligible adverse	Low	N/A	Negligible to minor adverse (not significant)

Table 4 : Summary of predicted effects on Benthic Subtidal and Intertidal Ecology.

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
CONSTRUCTION				
Temporary habitat disturbance (in the AyM array area and offshore ECC).	Low adverse	Low	None proposed beyond existing mitigation measures outlined in(Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
Temporary habitat disturbance (in the intertidal).	Low adverse	Negligible to Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
Temporary increase in SSC and associated sediment deposition (in the ECC and array).	Low adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
Temporary increase in SSC and associated deposition (in the intertidal).	Low adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
Direct and indirect seabed disturbances leading to the release of sediment contaminants.	Negligible adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Negligible adverse (not significant)
Increased risk of introduction or spread of Invasive Non-Native Species (INNS).	Negligible adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic	Negligible adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
			Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	
Long-term habitat loss/ change from the presence of foundations, scour protection and cable protection.	Negligible adverse	High	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
OPERATION				
Colonisation of the WTGs and scour/ cable protection may affect benthic ecology and biodiversity.	Negligible adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
Increased risk of introduction or spread of marine INNS due to presence of infrastructure and vessel movements (e.g. the discharge of ballast water) may affect benthic ecology and biodiversity.	Low adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
Temporary habitat disturbance associated with maintenance.	Negligible adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Negligible adverse (not significant)
Changes to seabed habitats arising from effects on physical processes, including scour effects and changes in the sediment transport and wave regimes resulting in potential effects on benthic communities.	Negligible to Low adverse (as detailed in Volume 2, Chapter 2 application ref: 6.2.2)	Negligible	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Negligible adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Indirect disturbance of benthic species from Electromagnetic Fields (EMF) generated by inter-array and export cables.	Negligible adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Negligible adverse (not significant)
DECOMMISSIONING				
Temporary habitat disturbance from decommissioning of foundations, cables and rock protection.	Low adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
Increased SSC and sediment deposition from removal of foundations, cables and rock protection.	Low adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
Loss of introduced habitat from the removal of foundations and rock protection.	Low adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
CUMULATIVE EFFECTS				
Cumulative temporary habitat loss/disturbance.	Low adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
Cumulative temporary increase in SSC and sediment deposition.	Low adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic	Minor adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
			Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	
Cumulative long-term habitat loss/change from presence of foundations and scour protection and cable protection.	Negligible adverse	Medium	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)
Cumulative colonisation of the WTGs and scour/ cable protection, including by INNS, may affect benthic ecology and biodiversity.	Low adverse	Low	None proposed beyond existing mitigation measures outlined in (Volume 2 Chapter 5: Benthic Subtidal and Intertidal Ecology (application ref: 6.2.5) Table 12).	Minor adverse (not significant)

Table 5: Summary of predicted effects on Fish and Shellfish Ecology.

IMPACT		MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
CONSTRUCTION					
Mortality, injury, behavioural impacts and auditory masking arising from noise and vibration.	Mortality and potential mortal injury	Low adverse	Group 1 – Low Group 2 – Low Group 3 – Medium Eggs and larvae – Medium Shellfish – Medium	N/A	Minor adverse (not significant)
	Recoverable Injury	Low adverse	Group 1 – Low Group 2 – Low Group 3 – Medium Eggs and larvae – Medium Shellfish – Medium	N/A	Minor adverse (not significant)
	Temporary Threshold Shift (TTS)/hearing damage	Low adverse	Group 1 – Low Group 2 – Low Group 3 – Medium Eggs and larvae – Medium Shellfish – Medium	N/A	Minor adverse (not significant)
	Behavioural impacts	Low adverse	Group 1 – Low Group 2 – Low Group 3 – Medium Eggs and larvae – Medium Shellfish – Medium	N/A	Minor adverse (not significant)
Temporary increase in SSC and sediment deposition		Low adverse	Demersal spawners - Low Pelagic spawners – Low VERs of Limited Mobility – Low to medium Mobile VERs - Low	N/A	Minor adverse (not significant)

IMPACT		MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Direct damage (e.g., crushing) and disturbance to mobile, demersal and pelagic fish, and shellfish		Low adverse	Demersal spawners – Negligible to Medium Pelagic spawners – Negligible Valued Ecological Receptor (VERs) of Limited Mobility – Low to medium Mobile VERs – Negligible	N/A	Minor adverse (not significant)
Direct and indirect seabed disturbances leading to the release of sediment contaminants		Negligible adverse	Demersal spawners – Low to Medium Pelagic spawners – Medium VERs of Limited Mobility – Medium Mobile VERs – Low	N/A	Negligible – Minor adverse (not significant)
Impacts on fishing pressure due to displacement		Negligible adverse	All VERs – Negligible	N/A	Negligible adverse (not significant)
OPERATION					
Long term loss of habitat due to the presence of turbine foundations, scour protection and cable protection		Low adverse	Demersal spawners – Negligible to Medium Pelagic spawners – Low VERs of Limited Mobility – Medium Mobile VERs – Low	N/A	Negligible – Minor adverse (not significant)
Increased hard substrate and structural complexity as a result of the introduction of turbine foundations, scour protection and cable protection		Low adverse	Demersal spawners – Negligible to Medium Pelagic spawners – Low VERs of Limited Mobility – Low Mobile VERs – Low	N/A	Minor adverse (not significant)
Impacts on fishing pressure due to displacement	Reduced fishing pressure within the array area	Negligible	Low	N/A	Negligible beneficial (not significant)
	Increased fishing pressure outside the array area		Negligible		Negligible adverse (not significant)

IMPACT		MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
EMF effects arising from cables during operational phase		Low adverse	VERs of Limited Mobility – Low Elasmobranchs – Low Migratory species – Low All other VERs – Low	N/A	Minor adverse (not significant)
DECOMMISSIONING					
Mortality, injury, behavioural changes and auditory masking arising from noise and vibration		As for construction	As for construction	N/A	Negligible – Minor adverse (not significant)
Temporary increase in SSC and sediment deposition		As for construction	As for construction	N/A	Minor adverse (not significant)
Direct and indirect seabed disturbances leading to the release of sediment contaminants		As for construction	As for construction	N/A	Negligible – Minor adverse (not significant)
Direct damage (e.g., crushing) and disturbance to mobile demersal and pelagic fish and shellfish arising from construction activities		As for construction	As for construction	N/A	Negligible – Minor adverse (not significant)
Impacts on fishing pressure due to displacement	Reduced fishing pressure within the array area	As for construction	As for construction	N/A	Negligible beneficial (not significant)
	Increased fishing pressure outside the array area				
CUMULATIVE EFFECTS					
Mortality, injury, behavioural changes and auditory masking arising from noise and vibration		Low adverse	Medium	N/A	Minor adverse (not significant)
Temporary increase in SSC and sediment deposition		Low adverse	Medium	N/A	Minor adverse (not significant)

Table 6: Summary of predicted effects on Marine Mammals.

IMPACT		MAGNITUDE	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
CONSTRUCTION					
Permanent Threshold Shift (PTS) from piling	Harbour porpoise	Negligible adverse	Low	None beyond mitigation (piling Marine Mammal Mitigation Protocol (MMMP)) outlined in Volume 2 Chapter 7: Marine Mammals (application ref: 6.2.7; Table 19)	Negligible adverse (not significant)
	Bottlenose dolphin	Negligible adverse	Medium		Minor adverse (not significant)
	Common dolphin	Negligible adverse	Medium		Minor adverse (not significant)
	Risso's dolphin	Negligible adverse	Medium		Minor adverse (not significant)
	Minke whale	Negligible adverse	Low		Negligible adverse (not significant)
	Grey seal	Negligible adverse	Low		Negligible adverse (not significant)
Disturbance from piling	Harbour porpoise	Low-Medium adverse	Low	None beyond mitigation (piling MMMP) outlined in Volume 2 Chapter 7; Table 19 (application ref: 6.2.7).	Minor adverse (not significant)
	Bottlenose dolphin	Medium adverse	Low		Minor adverse (not significant)
	Common dolphin	Low adverse	Low		Minor adverse (not significant)
	Risso's dolphin	Low adverse	Low		Minor adverse (not significant)
	Minke whale	Low adverse	Low		Minor adverse (not significant)
	Grey seal	Low adverse	Negligible		Negligible adverse (not significant)
Disturbance from other construction activities	Harbour porpoise	Low adverse	Low	None beyond mitigation measures outlined in Volume 2, Chapter 7: Marine Mammals (application ref: 6.2.7).	Minor adverse (not significant)
	Bottlenose dolphin	Low adverse	Low		Minor adverse (not significant)
	Common dolphin	Low adverse	Low		Minor adverse (not significant)
	Risso's dolphin	Low adverse	Low		Minor adverse (not significant)
	Minke whale	Low adverse	Low		Minor adverse (not significant)
	Grey seal	Low adverse	Negligible		Negligible adverse (not significant)
PTS from UXO	Harbour porpoise	Negligible adverse	Low		Negligible adverse (not significant)
	Bottlenose dolphin	Negligible adverse	Medium		Minor adverse (not significant)

IMPACT		MAGNITUDE	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
	Common dolphin	Negligible adverse	Medium	None beyond mitigation (UXO MMMP) (Volume 2 Chapter 7: Table 19)	Minor adverse (not significant)
	Risso's dolphin	Negligible adverse	Medium		Minor adverse (not significant)
	Minke whale	Negligible adverse	Low		Negligible adverse (not significant)
	Grey seal	Negligible adverse	Low		Negligible adverse (not significant)
Disturbance from UXO	Harbour porpoise	Low adverse	Low	None beyond mitigation (UXO MMMP) (Volume 2 Chapter 7: Table 19)	Minor adverse (not significant)
	Bottlenose dolphin	Low adverse	Low		Minor adverse (not significant)
	Common dolphin	Low adverse	Low		Minor adverse (not significant)
	Risso's dolphin	Low adverse	Low		Minor adverse (not significant)
	Minke whale	Low adverse	Low		Minor adverse (not significant)
	Grey seal	Low adverse	Negligible		Negligible adverse (not significant)
Collision risk from vessels	All	Negligible adverse	High	None beyond mitigation (vessel codes of conduct) (Volume 2 Chapter 7: Table 19)	Minor adverse (not significant)
Disturbance from vessels	Harbour porpoise	Low adverse	Low	None beyond mitigation (vessel codes of conduct) (Volume 2 Chapter 7: Table 19)	Minor adverse (not significant)
	Bottlenose dolphin	Low adverse	Low		Minor adverse (not significant)
	Common dolphin	Low adverse	Low		Minor adverse (not significant)
	Risso's dolphin	Low adverse	Low		Minor adverse (not significant)
	Minke whale	Low adverse	Low		Minor adverse (not significant)
	Grey seal	Low adverse	Negligible		Negligible adverse (not significant)
Change in water quality	All	Negligible adverse	Negligible	None beyond mitigation measures outlined in Volume 2, Chapter 7: Marine Mammals (application ref: 6.2.7).	Negligible adverse (not significant)

IMPACT		MAGNITUDE	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Change in fish abundance/ distribution	All	Negligible adverse	Low	None beyond mitigation measures outlined in Volume 2, Chapter 7: Marine Mammals (application ref: 6.2.7).	Negligible adverse (not significant)
OPERATION					
Barrier effects	All	Negligible adverse	Negligible	None beyond mitigation measures outlined in Volume 2, Chapter 7: Marine Mammals (application ref: 6.2.7).	Negligible adverse (not significant)
Collision risk from vessels	All	Negligible adverse	High	None beyond mitigation (vessel codes of conduct) (Volume 2 Chapter 7: Table 19)	Minor adverse (not significant)
Disturbance from vessels	Harbour porpoise	Low adverse	Low	None beyond mitigation (vessel codes of conduct) (Volume 2 Chapter 7: Table 19)	Minor adverse (not significant)
	Bottlenose dolphin	Low adverse	Low		Minor adverse (not significant)
	Common dolphin	Low adverse	Low		Minor adverse (not significant)
	Risso's dolphin	Low adverse	Low		Minor adverse (not significant)
	Minke whale	Low adverse	Low		Minor adverse (not significant)
	Grey seal	Low adverse	Negligible		Negligible adverse (not significant)
Change in water quality	All	No impact pathway			
Change in fish abundance/ distribution	All	Negligible adverse	Low	None beyond mitigation measures outlined in Volume 2, Chapter 7: Marine Mammals (application ref: 6.2.7).	Negligible adverse (not significant)
DECOMMISSIONING					
PTS & disturbance	All	Assumed similar or lesser extent than piling			

IMPACT		MAGNITUDE	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Collision risk from vessels	All	Negligible adverse	High	None beyond mitigation (vessel codes of conduct) (Volume 2 Chapter 7: Table 19)	Minor adverse (not significant)
Disturbance from vessels	Harbour porpoise	Low adverse	Low	None beyond mitigation (vessel codes of conduct) (Volume 2 Chapter 7: Table 19)	Minor adverse (not significant)
	Bottlenose dolphin	Low adverse	Low		Minor adverse (not significant)
	Common dolphin	Low adverse	Low		Minor adverse (not significant)
	Risso's dolphin	Low adverse	Low		Minor adverse (not significant)
	Minke whale	Low adverse	Low		Minor adverse (not significant)
	Grey seal	Low adverse	Negligible		Negligible adverse (not significant)
Change in water quality	All	Negligible adverse	Negligible	None beyond mitigation measures outlined in Volume 2, Chapter 7: Marine Mammals (application ref: 6.2.7).	Negligible adverse (not significant)
Change in fish abundance/ distribution	All	Negligible adverse	Low	None beyond mitigation measures outlined in Volume 2, Chapter 7: Marine Mammals (application ref: 6.2.7).	Negligible adverse (not significant)
CUMULATIVE EFFECTS					
Disturbance from underwater noise	Harbour porpoise	Low adverse	Low	None beyond mitigation (piling MMMP) (Volume 2 Chapter 7: Table 19)	Minor adverse (not significant)
	Bottlenose dolphin	Medium adverse	Low		Minor adverse (not significant)
	Common dolphin	Medium adverse	Low		Minor adverse (not significant)
	Risso's dolphin	Low adverse	Low		Minor adverse (not significant)
	Minke whale	Medium adverse	Low		Minor adverse (not significant)
	Grey seal	Medium adverse	Negligible		Negligible adverse (not significant)
	Harbour porpoise	Negligible adverse	Low		Negligible adverse (not significant)

IMPACT		MAGNITUDE	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Disturbance from vessels	Bottlenose dolphin	Screened Out		None beyond mitigation (vessel codes of conduct) (Volume 2 Chapter 7: Table 19)	Screened out
	Common dolphin	Negligible adverse	Low		Negligible adverse (not significant)
	Risso's dolphin	Negligible adverse	Low		Negligible adverse (not significant)
	Minke whale	Low adverse	Low		Minor adverse (not significant)
	Grey seal	Negligible adverse	Low		Negligible adverse (not significant)

Table 7: Summary of potential effects on Commercial fisheries.

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
CONSTRUCTION				
AyM array area construction activities and physical presence of constructed wind farm infrastructure leading to reduction in access to, or exclusion from established fishing grounds	Potting fleet: medium adverse	Potting fleet: medium	Additional mitigation: Development of the Fisheries Liaison Plan (FLP), including cooperation agreements and associated payments.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: negligible	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Netting fleet: negligible (not significant)
	Dredging fleet: medium adverse	Dredging fleet: low		Dredging fleet: minor adverse (not significant)
AyM offshore export cable construction activities and physical presence of constructed wind farm infrastructure leading to reduction in access to, or exclusion from established fishing grounds	Potting fleet: medium adverse	Potting fleet: medium	Additional mitigation: Development of the FLP, including cooperation agreements and associated payments.	Potting fleet: minor adverse (not significant)
	Netting fleet: medium adverse	Netting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
Displacement from AyM array area leading to gear conflict and increased fishing pressure on adjacent grounds	Potting fleet: low adverse	Potting fleet: medium	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: negligible adverse	Netting fleet: negligible		Netting fleet: negligible (not significant)
	Dredging fleet: negligible adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
Displacement from AyM offshore ECC leading to gear conflict and	Potting fleet: low adverse	Potting fleet: low-medium		Potting fleet: minor adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
increased fishing pressure on adjacent grounds	Netting fleet: low adverse	Netting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Netting fleet: minor adverse (not significant)
	Dredging fleet: negligible adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
AyM array area and offshore ECC construction activities leading to disturbance of commercially important fish and shellfish resources leading to displacement or disruption of fishing activity	Potting fleet: low adverse	Potting fleet: low	See measures set out in Volume 2, Chapter 6: Fish and shellfish ecology (application ref: 6.2.6).	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: low		Dredging fleet: minor adverse (not significant)
Increased vessel traffic associated with AyM within fishing grounds leading to interference with fishing activity	Potting fleet: low adverse	Potting fleet: low-medium	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
Additional steaming to alternative fishing grounds for vessels that would otherwise fish within the AyM area	Potting fleet: low adverse	Potting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
OPERATION				
Physical presence of AyM array area infrastructure leading to reduction in access to, or	Potting fleet: medium adverse	Potting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: negligible adverse	Netting fleet: negligible		Netting fleet: negligible (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
exclusion from established fishing grounds	Dredging fleet: medium adverse	Dredging fleet: low		Dredging fleet: minor adverse (not significant)
Physical presence of offshore export cable and infrastructure within the AyM offshore ECC leading to reduction in access to, or exclusion from established fishing grounds	Potting fleet: low adverse	Potting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: negligible adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
Displacement from AyM array area and offshore ECC leading to gear conflict and increased fishing pressure on adjacent grounds	Potting fleet: low adverse	Potting fleet: medium	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: negligible-low		Netting fleet: negligible-minor adverse (not significant)
	Dredging fleet: negligible adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
AyM operation and maintenance activities leading to displacement or disruption of commercially important fish and shellfish resources	Potting fleet: low adverse	Potting fleet: low	See measures set out in Volume 2, Chapter 6: Fish and shellfish ecology (application ref: 6.2.6).	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: low		Dredging fleet: minor adverse (not significant)
Increased vessel traffic within fishing grounds as a result of changes to shipping routes and maintenance vessel traffic from AyM leading to interference with fishing activity	Potting fleet: low adverse	Potting fleet: low-medium	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low-medium		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Additional steaming to alternative fishing grounds for vessels that would otherwise fish within the AyM area	Potting fleet: low adverse	Potting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
Physical presence of AyM array area infrastructure leading to gear snagging	Potting fleet: low adverse	Potting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: medium		Dredging fleet: minor adverse (not significant)
Physical presence of the export cable and associated infrastructure leading to gear snagging	Potting fleet: low adverse	Potting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: low		Dredging fleet: minor adverse (not significant)
DECOMMISSIONING				
AyM array area decommissioning activities leading to reduction in access to, or exclusion from, potential and/or established fishing grounds	Potting fleet: medium adverse	Potting fleet: medium	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: negligible		Netting fleet: negligible (not significant)
	Dredging fleet: low adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
AyM offshore ECC decommissioning activities	Potting fleet: medium adverse	Potting fleet: low		Potting fleet: minor adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
leading to reduction in access to, or exclusion from established fishing grounds	Netting fleet: medium adverse	Netting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
Displacement from AyM array area leading to gear conflict and increased fishing pressure on adjacent grounds	Potting fleet: low adverse	Potting fleet: medium	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: negligible adverse	Netting fleet: negligible		Netting fleet: negligible (not significant)
	Dredging fleet: negligible adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
Displacement from the AyM offshore ECC leading to gear conflict and increased fishing pressure on adjacent grounds	Potting fleet: low adverse	Potting fleet: low-medium	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: negligible adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
Decommissioning activities leading to displacement or disruption of commercially important fish and shellfish resources	Potting fleet: low adverse	Potting fleet: low	See measures set out in Volume 2, Chapter 6: Fish and shellfish ecology.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: low		Dredging fleet: minor adverse (not significant)
Increased vessel traffic within fishing grounds as a result of changes to shipping routes and transiting decommissioning vessel traffic from AyM array area and AyM offshore ECC leading to interference with fishing activity	Potting fleet: low adverse	Potting fleet: low-medium	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low-medium		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Additional steaming to alternative fishing grounds for vessels that would otherwise fish within the AyM area	Potting fleet: low adverse	Potting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: negligible		Dredging fleet: negligible (not significant)
Physical presence of any infrastructure left in situ leading to gear snagging	Potting fleet: low adverse	Potting fleet: low	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: minor adverse (not significant)
	Netting fleet: low adverse	Netting fleet: low		Netting fleet: minor adverse (not significant)
	Dredging fleet: low adverse	Dredging fleet: low-medium		Dredging fleet: minor adverse (not significant)
CUMULATIVE EFFECTS				
Reduction in access to, or exclusion from established fishing grounds	Potting fleet: negligible adverse	Potting fleet: negligible	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: negligible (not significant)
	Netting fleet: negligible adverse	Netting fleet: negligible		Netting fleet: negligible (not significant)
	Dredging fleet: medium adverse	Dredging fleet: low		Dredging fleet: minor adverse (not significant)
Displacement leading to gear conflict and increased fishing pressure on established fishing grounds	Potting fleet: negligible adverse	Potting fleet: negligible	None proposed beyond existing commitments set out in Volume 2 Chapter 8: Section 8.9.	Potting fleet: negligible (not significant)
	Netting fleet: negligible adverse	Netting fleet: negligible		Netting fleet: negligible (not significant)
	Dredging fleet: medium adverse	Dredging fleet: low		Dredging fleet: minor adverse (not significant)

Table 8: Summary of predicted effects on Shipping and Navigation.

IMPACT	FREQUENCY OF OCCURRENCE	SEVERITY OF CONSEQUENCE	MITIGATION MEASURES	RESIDUAL EFFECT (SEE METHODLOGY OUTLINED IN VOLUME 2, CHAPTER 9: SHIPPING AND NAVIGATION (APPLICATION REF: 6.2.9)
CONSTRUCTION				
Increased vessel-to-vessel collision risk between third-party vessels resulting from displacement and proximity to routeing measures	Reasonably probable	Negligible	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Restriction of adverse weather routeing	Extremely unlikely	Moderate	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Increased vessel-to-vessel collision risk between a third-party vessel and a project vessel	Frequent	Minor	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Tolerable (not significant in EIA terms)
Vessel-to-structure powered allision risk	Extremely unlikely	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Tolerable (not significant in EIA terms)
Vessel-to-structure drifting allision risk	Extremely unlikely	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Tolerable (not significant in EIA terms)
Reduced access to local ports	Extremely unlikely	Minor	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Reduction of Search and Rescue (SAR) capability due to increased	Negligible	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9:	Broadly acceptable (not significant in EIA terms)

IMPACT	FREQUENCY OF OCCURRENCE	SEVERITY OF CONSEQUENCE	MITIGATION MEASURES	RESIDUAL EFFECT (SEE METHODLOGY OUTLINED IN VOLUME 2, CHAPTER 9: SHIPPING AND NAVIGATION (APPLICATION REF: 6.2.9)
incident rates and reduced access for surface / air responders			Shipping and Navigation (application ref: 6.2.9).	
OPERATION				
Increased vessel-to-vessel collision risk between third-party vessels resulting from displacement and proximity to routeing measures	Reasonably probable	Negligible	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Restriction of adverse weather routeing	Extremely unlikely	Moderate	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Increased vessel-to-vessel collision risk between a third-party vessel and a project vessel	Reasonably probable	Minor	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Vessel-to-structure powered allision risk	Extremely unlikely	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Tolerable (not significant in EIA terms)
Vessel-to-structure drifting allision risk	Extremely unlikely	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Tolerable (not significant in EIA terms)
Reduced access to local ports	Extremely unlikely	Minor	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)

IMPACT	FREQUENCY OF OCCURRENCE	SEVERITY OF CONSEQUENCE	MITIGATION MEASURES	RESIDUAL EFFECT (SEE METHODLOGY OUTLINED IN VOLUME 2, CHAPTER 9: SHIPPING AND NAVIGATION (APPLICATION REF: 6.2.9)
Reduction of SAR capability due to increased incident rates and reduced access for surface / air responders	Extremely unlikely	Serious	Agreement of layout with Maritime and Coastguard Agency (MCA) post consent informed by pre consent discussions.	Tolerable with mitigation (not significant in EIA terms assuming implementation of additional mitigations)
Reduction in under keel clearance resultant of cable protection	Extremely unlikely	Moderate	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Anchor interaction with subsea cables	Extremely unlikely	Moderate	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
DECOMMISSIONING				
Increased vessel-to-vessel collision risk between third-party vessels resulting from displacement and proximity to routeing measures	Reasonably probable	Negligible	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Restriction of adverse weather routeing	Extremely unlikely	Moderate	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Increased vessel-to-vessel collision risk between a third-party vessel and a project vessel	Reasonably probable	Minor	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Vessel-to-structure powered allision risk	Negligible	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)

IMPACT	FREQUENCY OF OCCURRENCE	SEVERITY OF CONSEQUENCE	MITIGATION MEASURES	RESIDUAL EFFECT (SEE METHODLOGY OUTLINED IN VOLUME 2, CHAPTER 9: SHIPPING AND NAVIGATION (APPLICATION REF: 6.2.9)
Vessel-to-structure drifting allision risk	Negligible	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Reduced access to local ports	Extremely unlikely	Minor	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Reduction of SAR capability due to increased incident rates and reduced access for surface / air responders	Negligible	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
CUMULATIVE EFFECTS				
Increased vessel-to-vessel collision risk between third-party vessels resulting from displacement and proximity to routeing measures	Reasonably probable	Negligible	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Restriction of adverse weather routeing	Extremely unlikely	Moderate	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Increased vessel-to-vessel collision risk between a third-party vessel and a project vessel	Extremely unlikely	Major	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Vessel-to-structure powered allision risk	Negligible	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)

IMPACT	FREQUENCY OF OCCURRENCE	SEVERITY OF CONSEQUENCE	MITIGATION MEASURES	RESIDUAL EFFECT (SEE METHODLOGY OUTLINED IN VOLUME 2, CHAPTER 9: SHIPPING AND NAVIGATION (APPLICATION REF: 6.2.9)
Vessel-to-structure drifting allision risk	Negligible	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Reduced access to local ports	Extremely unlikely	Minor	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Reduction of SAR capability due to increased incident rates and reduced access for surface / air responders	Negligible	Serious	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Reduction in under keel clearance resultant of cable protection	Extremely unlikely	Moderate	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)
Anchor interaction with subsea cables	Extremely unlikely	Moderate	None proposed beyond mitigation proposed in Volume 2, Chapter 9: Shipping and Navigation (application ref: 6.2.9).	Broadly acceptable (not significant in EIA terms)

Table 9: Summary of potential effects on Seascape, Landscape and Visual receptors (MDS A).

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
Direct impacts on Seascape character						
Seascape Character Area (SCA) F - North Wales Open Waters	Medium-low	Low to Medium-low adverse	Fewer WTGs proposed within it since PEIR.	Minor adverse (not significant),	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant),
SCA 28 - North-east of Anglesey	Medium increasing to Medium-High closer to the coast	Low to Medium adverse	Array area has been reduced within this SCA. Fewer WTGs proposed within it since PEIR.	Minor adverse (not significant)	Moderate adverse (significant), in the eastern part of the SCA in and around the AyM array area and southwards towards the Great Orme and Puffin Island.	Moderate adverse (significant) in the eastern part of the SCA in and around the AyM array area and southwards towards the Great Orme and Puffin Island. Moderate-minor (non-significant), elsewhere within the SCA.
Impacts resulting from visibility of aym within the seascape						
VP1: Bull Bay near Amlwch – Wales Coast Path	High	Negligible to Low adverse	Array area reduced in size increasing the separation distance from this VP since PEIR.	Minor adverse (not significant),	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
VP2: Point Lynas Public right of way(PRoW) to north of lighthouse	High	Negligible to Low adverse	Array area reduced in size increasing the separation distance from this VP since PEIR.	Minor adverse (not significant),	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
VP3: Mynydd Eilian - near trig point	Medium-high	Negligible to Low adverse	Array area reduced in size increasing the separation distance from this VP since PEIR.	Minor adverse (not significant),	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
VP 4: Moelfre Headland at sculpture (Daytime)	High	Negligible to Medium-low adverse	Array area reduced in size increasing the separation distance from this VP since PEIR.	Minor adverse (not significant	Moderate adverse (significant)	Moderate adverse (significant)
VP 4: Moelfre Headland at sculpture (Night-time)	Medium-high	Negligible adverse	Array area reduced in size increasing the separation distance and the Horizontal FoV from this VP since PEIR. Lighting mitigation as described in Volume 2, Chapter 10; application ref: 6.2.10.	N/A	Minor adverse (not significant),	Minor adverse (not significant)
VP5: Red Wharf Bay	High	Negligible to Medium-low adverse	Array area reduced in size increasing the separation distance and reducing the Horizontal Field of view (FoV) from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP6: Bwrdd Arthur - north of trig point	High	Negligible to Medium adverse	Array area reduced in size increasing the separation distance and reducing the	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
			Horizontal FoV from this VP since PEIR.			
VP 7: Penmon Point - north-east of parking	High	Low to Medium adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Moderate-minor adverse (not significant)	Major-moderate adverse (significant)	Major-moderate adverse (significant)
VP 8: Beaumaris - Wales Coast Path	High	Negligible to Medium adverse	Density of WTGs reduced across the array area since PEIR.	Minor adverse (not significant)	Major-moderate adverse (significant)	Major-moderate adverse (significant)
VP 9: Bangor Pier (Southern End)	Medium-high	Negligible to Medium-low adverse	Density of WTGs reduced across the array area since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP 10: Carnedd Llewelyn	High	Negligible to Medium-low adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP 11: Llanfairfechan	Medium-high	Negligible to Medium adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP 12: Conwy Mountain	Medium-high	Negligible to Medium adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Major-moderate adverse (significant)	Major-moderate adverse (significant)
VP 13: Great Orme - near summit complex	Medium-high	Low to Medium-high adverse	Array area reduced in size reducing the	Moderate-minor adverse effect (not significant)	Major-moderate adverse (significant)	Major-moderate adverse (significant)

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
			Horizontal FoV from this VP since PEIR.			
VP 13: Great Orme - near summit complex (Night-time)	Medium-high	Medium-low adverse (operation)	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR. Lighting mitigation as described in Volume 2, Chapter 10; application ref: 6.2.10.	N/A	Moderate adverse (significant)	Moderate adverse (significant)
VP 14: Wales Coast Path near Penrhyn (Traeth yr Ora)	High	Negligible to Medium-low adverse	Array area reduced in size increasing the separation distance and reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP 15: Great Orme - Cafe	Medium-high	Low to Medium-high adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Moderate-minor adverse (not significant)	Moderate-major adverse (significant)	Moderate-major adverse (significant)
VP 16: Benlech Bay View Road	Medium-highHigh	Negligible to Medium-low adverse	Array area reduced in size increasing the separation distance and reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
VP 17: Penrhyn Castle terrace	Medium-high	Negligible to Medium-low adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP 18: Llandudno paddling pool	Medium-high	Low to Medium-high adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Moderate-minor adverse (not significant)	Moderate-major adverse (significant)	Moderate-major adverse (significant)
VP 20: Bryn Euryn	Medium-high	Low to Medium adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Moderate-minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP 21: Mynydd Marian	Medium-high	Negligible to Medium adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant
VP 22: Abergele promenade	Medium-high	Negligible to Medium-low adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (not significant)	Moderate adverse (not significant)
VP 22: Abergele promenade (Night-time)	Medium	Low adverse (operation)	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR. Lighting mitigation as described in Volume 2,	N/A	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
			Chapter 10; application ref: 6.2.10.			
VP 23: Rhyl Aquarium	Medium-high	Negligible to Low adverse	Array Area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
VP 24: Graig Fawr	High	Negligible to Low adverse	Array Area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor (not significant)	Moderate-minor (not significant)	Moderate-minor (not significant)
VP 25: Prestatyn Nova Centre	Medium-high	Negligible to Low adverse	Array Area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
VP 27: Point of Ayr	Medium-high	Negligible to Low adverse	Array Area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
VP 28: Trwyn y Penrhyn parking layby	Medium-high	Negligible to Medium adverse	No change	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP 29: Colwyn Bay promenade	Medium-high	Negligible to Medium-high adverse	Array Area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate-major adverse (significant)	Moderate-major adverse (significant)
VP 30: Snowdon (Yr Wyddfa) summit	High	Negligible to Low adverse	Array area reduced in size reducing the	Minor adverse (not significant)	Minor adverse (not significant)	Minor adverse (not significant)

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
			Horizontal FoV from this VP since PEIR.			
VP 36: Tal y Fan	Medium-high	Negligible to Medium-low adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (not significant)	Moderate adverse (not significant)
VP 37: Cefn Coch Stone Circle	Medium-high	Negligible to Medium-low adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP 38: Foel Fras	High	Medium-low adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP 40: Above Capelulo – North Wales Path	High	Negligible to Medium adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Major-moderate adverse (significant)	Major-moderate adverse (significant)
VP 42: Mynydd Bodafon - Trig Point	High	Negligible to Low adverse	Array area reduced in size increasing the separation distance and reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
VP 44: Beaumaris Castle	Medium-high	Negligible to Medium-Low adverse	No change	Minor adverse (not significant)	Moderate adverse (not significant)	Moderate adverse (not significant)

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
VP 59: Llandundo promenade - lifeboat slipway	Medium-high	Low to Medium adverse	No change	Moderate-minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
VP 60: Foel Lus (Night-time)	Medium	Medium-low adverse (operation)	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR. Lighting mitigation as described in Volume 2, Chapter 10; application ref: 6.2.10.	N/A	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
VP 66: Offshore - Liverpool to Dublin Ferry route north of Great Orme	Medium-low	Low to Medium-high adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Moderate-minor adverse (not significant),	Moderate adverse (not significant),	Moderate adverse (not significant),
VP 67: Offshore - Liverpool to Dublin Ferry route north of Conwy Bay	Medium-low	Low to Medium-high adverse	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Moderate-minor adverse (not significant),	Moderate adverse (not significant),	Moderate adverse (not significant),
Amlwch	Medium	Negligible to Low adverse	Array area reduced in size increasing the separation distance from this VP since PEIR.	Minor adverse (not significant)	Minor adverse (not significant)	Minor adverse (not significant)
Moelfre	Medium-high	Negligible to Medium-low adverse	Array area reduced in size increasing the separation distance from this VP since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant). From the majority of properties moderate (significant) on views from a	Moderate-minor adverse (not significant), from the majority of properties

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
					small number of properties along the coastal edge where they have open, undeveloped views towards the AyM array area.	moderate (significant) on views from a small number of properties along the coastal edge where they have open, undeveloped views towards the AyM array area.
Benllech	Medium-high	Negligible to Medium-low adverse	Array area reduced in size increasing the separation distance and reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant from the majority of properties. Moderate effect (significant) on views from a small number of properties along the coastal edge where they have open, undeveloped views towards the AyM array area.	Moderate-minor adverse (not significant from the majority of properties. Moderate effect (significant) on views from a small number of properties along the coastal edge where they have open, undeveloped views towards the AyM array area.
Llanddona	Medium-high	Negligible to Medium-low adverse	Array area reduced in size increasing the separation distance and reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (not significant)	Moderate adverse (not significant)

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
Beaumaris	Medium-high	Negligible to Medium-low adverse	None	Minor adverse (not significant)	Moderate or lower adverse (not significant)	Moderate or lower adverse (not significant)
Bangor	Medium	Negligible to Medium-low adverse	None	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
Llanfairfechan	Medium-high for seaside properties, low for those without direct views across the sea.	Negligible to Medium adverse for seaside properties, low or negligible adverse for those without direct views across the sea.	Array area reduced in size increasing the separation distance from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant) for seaside properties Minor (not significant) elsewhere within the settlement.	Moderate adverse (significant) for seaside properties Minor (not significant) elsewhere within the settlement.
Penmaenmawr	Medium-high	Negligible to Medium adverse	Array area reduced in size increasing the separation distance from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
Dwygfylchi	Medium-high	Negligible to Medium-low adverse	Array area reduced in size increasing the separation distance from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
Llandudno	Medium-high	Negligible to Medium-high adverse in the east of the bay and Medium reducing to no change in the west of the bay. Elsewhere in Llandudno the	Array Area reduced in size increasing the separation distance from this VP since PEIR.	Minor adverse (not significant)	Moderate to moderate-major adverse (significant), along the bay frontage minor (not significant) elsewhere	Moderate to moderate-major adverse (significant), along the bay frontage minor (not significant) elsewhere

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
		magnitude of change would be low adverse or no change.				
Penrhyn Bay	Medium-high	Negligible to Medium-high adverse adverse along the sea front properties and from those immediately inland in Penrhyn Bay. Elsewhere in Penrhyn Bay the magnitude of change would be low adverse or no change.	No change	Minor adverse (not significant) not significant elsewhere.	Moderate to moderate-major adverse (significant) along the bay frontage and from those immediately inland in Penrhyn Bay. Minor (not significant) elsewhere.	Moderate to moderate-major adverse (significant) along the bay frontage and from those immediately inland in Penrhyn Bay. Minor (not significant) elsewhere.
Rhos-on-Sea	Medium-high	Negligible to Medium-high adverse from the north facing sea front properties in Rhos-on-Sea. From the properties that gain elevated or open views of AyM from within the urban area Medium or Medium-low adverse.	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate or moderate-major adverse (significant), along the north facing Rhos-on-Sea frontage and from the properties that gain elevated or open views of AyM from within the urban area. Minor (not significant) elsewhere.	Moderate or moderate-major adverse (significant), along the north facing Rhos-on-Sea frontage and from the properties that gain elevated or open views of AyM from within the urban area. Minor (not significant) elsewhere.
Colwyn Bay	Medium-high	Negligible to Medium-high adverse from the sea facing properties along the promenades	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate or moderate-major adverse (significant) from the sea facing properties along the promenades in Colwyn Bay and	Moderate or moderate-major adverse (significant) from the sea facing

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
		in Colwyn Bay and from the properties that gain elevated or open views of the AyM from within the urban area the magnitude of change would be Medium or Medium-low. Elsewhere in Colwyn Bay the magnitude of change would be lower or no change.			from the properties that gain elevated or open views of AyM from within the urban area of Colwyn Bay. Minor (not significant) elsewhere	properties along the promenades in Colwyn Bay and from the properties that gain elevated or open views of AyM from within the urban area of Colwyn Bay. Minor (not significant) elsewhere
Llanddulas	Medium	Negligible to Medium-low adverse from the sea facing properties on elevated high ground. Elsewhere the magnitude of change low or negligible adverse.	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Moderate adverse effect (significant) from the properties orientated to the north over the seascape on elevated high ground. Minor (not significant) elsewhere.	Moderate adverse effect (significant) from the properties orientated to the north over the seascape on elevated high ground. Minor (not significant) elsewhere.
Abergele and Pensarn	Medium or low/ negligible.	Negligible to Medium-low adverse for seaside properties/ amenities, low or negligible adverse for those without direct views across the sea.	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant).	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
Towyn and Kinmel Bay	Medium or low/ negligible.	Negligible to Medium-low adverse for seaside properties/ amenities, low or negligible adverse for those without direct views across the sea.	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Minor adverse (not significant)	Minor adverse (not significant)
Rhyl	Medium or low/negligible.	Negligible to Low adverse for seaside properties/ amenities, low or negligible adverse for those without direct views across the sea.	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Minor adverse (not significant)	Minor adverse (not significant)
Prestatyn	Medium	Negligible to Low adverse for a limited area of seaside properties/ amenities, low or negligible adverse for those without direct views across the sea or where visibility is across the intervening urban area.	Array area reduced in size reducing the Horizontal FoV from this VP since PEIR.	Minor adverse (not significant)	Minor adverse (not significant)	Minor adverse (not significant)
WCP: Section A Llanlleiana Head	Medium-high	Negligible to Low adverse	Array Area reduced in size increasing the separation distance	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)

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			from this Section since PEIR.			
WCP Section B Amlwch	Medium-high	Negligible to Low adverse	Array Area reduced in size increasing the separation distance from this Section since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
WCP Section C Dulas Bay	High	Negligible to Medium-low adverse	Array Area reduced in size increasing the separation distance and the Horizontal FoV from this Section since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse (significant)
WCP Section D Moelfre	High	Negligible to Medium-low adverse	Array Area reduced in size increasing the separation distance and the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate adverse effect (significant)	Moderate adverse (significant)
WCP Section E Red Wharf Bay/Penmon	High	Negligible to Medium-low adverse west of Bwrydd Arthur and Medium adverse to the east of Bwrydd Arthur.	Array Area reduced in size increasing the separation distance and reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate adverse (significant), west of Bwrydd Arthur and major-moderate effect (significant) to the east of Bwrydd Arthur.	Moderate adverse (significant), west of Bwrydd Arthur and major-moderate effect (significant) to the east of Bwrydd Arthur.

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
WCP Section F Penmon Point	High	Negligible to Medium adverse	Array Area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Major-moderate adverse (significant)	Major-moderate adverse (significant)
WCP Section G Menai Strait	High	Negligible to Low adverse	None	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
WCP Section H Lavan Sands	Medium-high	Negligible to Medium to medium-low adverse	Array Area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate adverse (significant), along the 8 km, open coastal section of the route to the east of Penrhyn Castle east to Llanfairfechan. Moderate (not significant) elsewhere along the route.	Moderate adverse (significant), along the 8 km, open coastal section of the route to the east of Penrhyn Castle east to Llanfairfechan. Moderate (not significant) elsewhere along the route.
WCP Section I Conwy Mountain	High	Negligible to Medium adverse along the 1.5 km section of the route at Foel Lus and Medium along the 1.5 km section at Conwy Mountain. Medium-low adverse or no change elsewhere.	Array Area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Major-moderate adverse (significant) over a combined length of approximately 3 km across the side slopes of Foel Lus and along the ridge of Conwy Mountain. Moderate-minor (not significant) along the other parts of this route.	Major-moderate adverse (significant) over a combined length of approximately 3 km across the side slopes of Foel Lus and along the ridge of Conwy Mountain. Moderate-minor (not significant)

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						along the other parts of this route.
WCP Section J Conwy Bay	Medium	Negligible to Medium adverse at Llanfairfechan reducing to Low-medium adverse.	Array Area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate to moderate-minor adverse (not significant)	Moderate to moderate-minor adverse (not significant)
WCP Section K Conwy/ Creuddyn peninsula	Medium-high	Negligible to Medium adverse for 0.8 km section at north-western extent of Great Orme. Low adverse magnitude to no change elsewhere along the route.	Array Area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate adverse (significant) adverse, long term, reversible along 0.8 km section at north-western extent of Great Orme. Minor (not significant) elsewhere along the route.	Moderate adverse (significant) adverse, long term, reversible along 0.8 km section at north-western extent of Great Orme. Minor (not significant) elsewhere along the route.
WCP Section L Great Orme	Medium-high	Low to Medium-high adverse for 2.5 km section along northern edge of Great Orme. Low magnitude adverse to no change elsewhere along the route.	Array Area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate-major adverse (significant)	Moderate-major adverse (significant)
WCP Section M Llandudno	Medium-high	Low to Medium-high adverse for 2.5 km section along Llandudno	Array Area reduced in size reducing the Horizontal FoV from this section since PEIR.	Moderate-minor adverse (not significant)	Moderate-major adverse effect (significant) along 2.5 km section of Llandudno promenade and 200 m section	Moderate-major adverse effect (significant) along 2.5 km section of

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		promenade, Colwyn Road and northern edge of Great Orme. Low adverse magnitude to no change elsewhere along the route.			of, Colwyn Road (a total of 2.7 km of this 4.5 km section) and northern edge of Great Orme. Moderate-minor (not significant) for the western 0.5 km section of the route and no change not significant elsewhere along the route.	Llandudno Promenade and 200m section of, Colwyn Road (a total of 2.7 km of this 4.5 km section) and northern edge of Great Orme. Moderate-minor (not significant) for the western 0.5 km section of the route and no change not significant elsewhere along the route.
WCP Section N Penrhyn Bay	Medium-high	Low to Medium-high adverse for 3.5 km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point. Lower magnitude to no change elsewhere along the route.	No change	Moderate-minor adverse (not significant)	Moderate-major adverse effect (significant) for 3.5 km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point. Moderate minor to minor effect (not significant) elsewhere along the route (1.5 km primarily to the south of Little Orme and Rhos Point).	Moderate-major adverse effect (significant) for 3.5 km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point. Moderate minor to minor effect (not significant) elsewhere along the route (1.5 km primarily to the south of Little Orme and Rhos Point).

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WCP Section O Colwyn Bay	Medium-high	Low to negligible to Medium-high adverse for the 5 km section from Colwyn Bay to 0.5 km west of Llandulas. Medium to low adverse from 0.5 km west of Llandulas to Pensarn.	Array Area reduced in size reducing the Horizontal FoV from this section since PEIR.	Moderate-minor adverse (not significant)	Moderate-major adverse (significant) adverse, long term, reversible for the 5 km section from Colwyn Bay to 0.5 km west of Llandulas. Moderate (significant), adverse, long term, reversible from 0.5 km west of Llandulas to Pensarn.	Moderate-major adverse (significant) adverse, long term, reversible for the 5 km section from Colwyn Bay to 0.5 km west of Llandulas. Moderate (significant), adverse, long term, reversible from 0.5 km west of Llandulas to Pensarn
WCP Section P Pensarn to Prestatyn	Medium	Negligible to Medium-low to low adverse at Rhyl	Array Area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate-minor to minor adverse (not significant)	Moderate-minor to minor adverse (not significant)
WCP Section Q Gronant Dunes/Point of Ayr	Medium-high	Negligible to Low adverse	Array Area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
Offa's Dyke Long Distance Route (LDR)	Not assessed in detail	Not assessed in detail	Array area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
NCR 5 Isle of Anglesey (IOA)	Medium	Negligible to Low adverse	Array area reduced in size increasing the separation distance and reducing the	Minor adverse (not significant)	Minor adverse (not significant)	Minor adverse (not significant)

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			Horizontal FoV from this section since PEIR.			
NCR 5 - Gwynedd	Medium to low	Negligible to Medium-low or negligible adverse	Array area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
NCR 5 – Conwy	Medium to low	Low to Negligible to Medium-high adverse for 0.5 km section along Llandudno Bay, medium-high adverse for 2 km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point and along Colwyn Bay to 0.5 km west of Llandulas. Medium to low adverse from Llandulas to Abergele. Low from Abergele to the boundary of Conwy at the River Clwyd crossing. Lower magnitude to no change elsewhere along the route.	Array area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate adverse effect (significant) for 0.5 km section along Llandudno Bay, for 2 km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point and along Colwyn Bay to 0.5 km west of Llandulas. Minor (not significant) along all other sections of NCR 5 through Conwy.	Moderate adverse effect (significant) for 0.5 km section along Llandudno bay, for 2 km section where there are open views from along the Penrhyn and Rhos Bays and headland at Rhos Point and along Colwyn Bay to 0.5 km west of Llandulas. Minor (not significant) along all other sections of NCR 5 through Conwy.

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NCR 5- Denbighshire	Not assessed in detail	Not assessed in detail	Array area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Minor adverse (not significant)	Minor adverse (not significant)
NCR 5 - Flintshire	Not assessed in detail	Not assessed in detail	Array area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Minor adverse (not significant)	Minor adverse (not significant)
A55, North Wales Expressway - Gwynedd	Medium to low	Medium-low or negligible adverse	Array area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
A55, North Wales Expressway - Conwy	Medium to low	Medium to negligible adverse along 7.5 km of the route from east of Llanfairfechan to east of the Penmaen-bach tunnel. Medium-low for a total of approximately 4 km of the route between the east of Colwyn Bay and Abergele. Low to negligible adverse magnitude of change along other parts of the A55.	Array area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Moderate-minor to minor adverse (not significant) from approximately 11.5 km of the route and minor (not significant) or no effect from the remainder.	Moderate-minor to minor adverse (not significant) from approximately 11.5 km of the route and minor (not significant) or no effect from the remainder.

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A55, North Wales Expressway - Denbighshire	Not assessed in detail	Not assessed in detail	Array area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Minor adverse (not significant)	Minor adverse (not significant)
A55, North Wales Expressway - Flintshire	Not assessed in detail	Not assessed in detail	Array area reduced in size reducing the Horizontal FoV from this section since PEIR.	Minor adverse (not significant)	Minor adverse (not significant)	Minor adverse (not significant)
IoA LCA 6: Amlwch and Environs	Medium	Medium-low adverse to no change	Array Area reduced in size increasing the separation distance from this LCA since PEIR.	Minor adverse (not significant)	Minor-moderate adverse to no change (not significant)	Minor-moderate adverse to no change (not significant)
IoA LCA 8: Dulas Bay Hinterland	Medium-high along the immediate coastal edge to a maximum of 1 km where there is a direct association with the seascape to the north-east and Medium elsewhere.	Negligible to Medium-low adverse to No change	Array Area reduced in size increasing the separation distance and the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate adverse effect (significant) along the coastal edge extending to a maximum of approximately 1 km inland where there may be a direct association with the seascape to the north-east. Moderate-minor effect (not significant) elsewhere.	Moderate adverse effect (significant) along the coastal edge extending to a maximum of approximately 1 km inland where there may be a direct association with the seascape to the north-east. Moderate-minor effect (not significant) elsewhere.

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IoA LCA 9: Red Wharf Bay	Medium inland Medium-high along coastal areas with a strong association with the seascape to the north-east.	Negligible to Medium-low adverse to No change	Array area reduced in size increasing the separation distance and reducing the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate adverse effect (significant) along the coastal edge extending to a maximum of approximately 1 km between Moelfre headland and Benllech and south of Benllech and round Red Wharf Bay to a point level with Ty-Mawr north of Pentraeth Forest where there may be a direct association with the seascape to the north-east. Moderate-minor (not significant), elsewhere.	Moderate adverse effect (significant) along the coastal edge extending to a maximum of approximately 1 km between Moelfre headland and Benllech and south of Benllech and round Red Wharf Bay to a point level with Ty-Mawr north of Pentraeth Forest where there may be a direct association with the seascape to the north-east. Moderate-minor adverse (not significant), elsewhere.
IoA LCA 10: Penmon and Puffin Island	Medium-high	Negligible to Medium adverse magnitude of change relates to the coastal, northerly exposed areas of the LCA, extending inland by 0.5 to 0.75 km and excluding the settled inland and former quarry area to the	Array area reduced in size reducing the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate adverse effect (significant) in the coastal, northerly exposed areas of the LCA, extending inland to a maximum of 0.5 to 0.75 km.	Moderate adverse effect (significant) in the coastal, northerly exposed areas of the LCA, extending inland to a maximum of 0.5 to 0.75 km.

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		east. No change elsewhere.				
IoA LCA 11: Eastern Menai Strait	Medium-high (Beaumaris and south-west) to high (north-east of Beaumaris)	Negligible to Medium adverse in the coastal, north-easterly exposed areas to the north of Beaumaris and south of Viewpoint 28 – Trwyn y Penrhyn parking layby, extending inland by 0.3-0.5 km.	None	Minor adverse (not significant)	Moderate-major adverse (significant) in the coastal, north-easterly exposed areas to the north of Beaumaris, and south of viewpoint 28 – Trwyn y Penrhyn parking layby, extending inland by 0.3-0.5 km.	Minor adverse (not significant)
Gwynedd LCA G01: Bangor Coastal Plain	Medium within Bangor and to the south and south-west of it. Medium-high along the coastal edge to the north-east and east of Bangor and including the mudflats.	Negligible to Medium adverse in the coastal, north-easterly exposed areas to the north-east of Bangor extending inland by approximately 0.3-1 km to the edge of the rail line.	Array area reduced in size increasing the separation distance from this LCA as well as the reducing the Horizontal FoV in views from parts of this LCA since PEIR.	Minor adverse (not significant)	Moderate effect adverse (significant) in the coastal, exposed areas to the north-east of Bangor, extending inland by 0.3-1 km.	Moderate adverse effect (significant) in the coastal, exposed areas to the north-east of Bangor, extending inland by 0.3-1 km.
SNP LCA 01: Northern Uplands	Medium-high	Negligible to Medium-low adverse to no change	Array area reduced in size reducing the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate adverse (not significant),	Moderate adverse (not significant),

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SNP LCA 02: Carneddau Range	High	Negligible to Low adverse to no change	Array area reduced in size reducing the Horizontal FoV from this LCA since PEIR.	Minor (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
Conwy/Denbighshire LCA C4: Limestone Farmlands (Abergele to Denbigh Coastal/Vale Hills)	Medium	Negligible to Medium-low adverse at the coastal edge and elevated locations where inland from the coast by approximately 1-1.5 km with views out to sea. Reducing to Low or No change further inland.	Array area reduced in size reducing the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate-minor to minor adverse (not significant)	Moderate-minor to minor adverse (not significant)
Conwy/Denbighshire LCA C9: Limestone Escarpment and Hills	Medium-high	Negligible to Medium-low adverse	Array area reduced in size reducing the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate adverse (not significant)	Moderate adverse (not significant)
Conwy/Denbighshire LCA C10: Great Orme and Creuddyn Peninsula	Medium-high	Low to Medium at adverse the coastal edge between the north-west point of the Great Orme and Little Orme and from elevated locations on the Great Orme (extending inland from the north by approximately 1 km)	Array area reduced in size reducing the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate adverse (significant) at the coastal edge between the north-west point of Great Orme and Little Orme and from elevated locations on the Great Orme (extending inland from the north by approximately 1 km) and the north face of Little Orme. Moderate-minor to	Moderate adverse (significant) at the coastal edge between the north-west point of Great Orme and Little Orme and from elevated locations on the Great Orme (extending inland from the north by approximately 1

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		and the north face of Little Orme. Reducing to Low or No change further inland where views are restricted or have a developed foreground.			minor (not significant) elsewhere within the LCA.	km) and the north face of Little Orme. Moderate-minor to minor (not significant) elsewhere within the LCA.
Clwydian Hills and Dee Valley AONB LCT 2: Hills, Lower Plateau & Scarp Slopes	Medium-high	Negligible to Low adverse	Array area reduced in size reducing the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
Clwydian Hills and Dee Valley AONB LCT 5: Rolling Lowland	Medium-high.	Negligible to Low adverse	Array area reduced in size reducing the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
SCA 2: Conwy Bay	Medium-high	Negligible to Medium adverse in vicinity of the Great Orme. Medium-low adverse across the upland area between Foel Lus and Conwy Mountain, the low lying coastal areas and rising land around Penmaenmawr and in the seascape to the north-west.	Array area reduced in size increasing the separation distance and reducing the Horizontal FoV from this SCA since PEIR.	Minor adverse (not significant)	Moderate adverse (significant) on the upper and northerly slopes of the Great Orme across the upland area between Foel Lus and Conwy Mountain, the low lying coastal areas and rising land around Penmaenmawr and in the seascape to the north-west.	Moderate adverse (significant) on the upper and northerly slopes of the Great Orme across the upland area between Foel Lus and Conwy Mountain, the low lying coastal areas and rising land around Penmaenmawr and in the seascape to the north-west.

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		All other parts of the SCA - no change or low adverse				Minor to moderate-minor (not significant) elsewhere in the sca.
SCA 3: Traeth Lafan	Medium-high	Negligible to Medium adverse at coastal, north-easterly exposed areas to the north of Beaumaris and south of Viewpoint 28 – Trwyn y Penrhyn parking layby, extending inland by 0.3-0.5 km and the section of the immediate coast between a point north of Aber Farm to west of Llanfairfachan. Elsewhere lower or there will be no change.	Array area reduced in size reducing the Horizontal FoV from this SCA since PEIR.	Minor adverse (not significant)		Moderate adverse (significant) in the coastal, north-easterly exposed areas to the north of Beaumaris and south of viewpoint 28 – Trwyn y Penrhyn parking layby, extending inland by 0.3-0.5 km and the immediate coastal area between a point north of Aber Farm to the west of Llanfairfachan.
SCA 5: Penmon	Medium-high	Negligible to Medium adverse at the coastal, northerly exposed areas of the LCA, extending inland by 0.5 to 0.75 km and excluding the settled inland and former quarry area to the	Array area reduced in size reducing the Horizontal FoV from this SCA since PEIR.	Minor adverse (not significant)	Moderate adverse (significant) in the coastal, northerly exposed areas of the LCA, extending inland to a maximum of by 0.5 to 0.75 km.	Medium-high adverse

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		east. Lower to no change elsewhere.				
SCA 6: Red Wharf Bay to Moelfre	Medium inland and in areas of open seascape. Medium-high along the immediate coastal areas and within the contained areas of sea located between Moelfre headland and level with Bwrdd Arthur to the east where there is a strong association with the wider seascape to the north-east.	Negligible to Medium-low adverse to No change.	Array area reduced in size increasing the separation distance and reducing the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate adverse (significant)	Moderate adverse effect (significant)
SCA 7: Dulas Bay	Medium-high along the immediate coastal edge and within the sea area to the west of and lying	Negligible to No change to Medium-low adverse.	Array area reduced in size increasing the separation distance and the Horizontal FoV from this LCA since PEIR.	Minor adverse (not significant)	Moderate adverse (significant) along the immediate coastal edge and within the sea area to the west of and lying between the islet of Ynas Dulas and Moelfre headland where there is a direct association with	Medium-high adverse along the immediate coastal edge and within the sea area to the west of and lying between the islet of Ynas Dulas and

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	between the Islet of Ynys Dulas and Moelfre headland where there is a direct association with the seascape to the north and north-east and Medium elsewhere.				the seascape to the north and north-east.	Moelfre headland where there is a direct association with the seascape to the north and north-east and medium elsewhere.
SCA A - Llandudno Bay	Medium-high.	Low to Medium adverse	Array area reduced in size reducing the Horizontal FoV from this SCA since PEIR.	Minor adverse (not significant).	Moderate adverse effect (significant)	Moderate adverse effect (significant)
SCA B - Colwyn Bay	Medium	Negligible to Medium adverse	Array area reduced in size reducing the Horizontal FoV from this SCA since PEIR.	Minor adverse (not significant)	Moderate adverse effect (not significant)	Moderate adverse effect (not significant)
SCA C - Vale of Clwyd	Medium	Negligible to Medium adverse	Array area reduced in size reducing the Horizontal FoV from this SCA since PEIR.	Minor adverse (not significant)	Moderate adverse effect (not significant)	Moderate adverse effect (not significant)
IoA AONB Special Quality: Expansive Views	High	Negligible adverse Medium-low adverse from south of Point Lynas to west of Bwrdd Arthur and Medium	Array Area reduced in size increasing the separation distance and the Horizontal FoV	Minor adverse (not significant)	Moderate or major moderate adverse (significant) from some limited coastal areas and higher vantage points within the AONB between point Lynas in the	Moderate or major moderate adverse (significant) from some limited coastal areas and higher vantage

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
		east of Bwrydd Arthur to Penmon Point and north of Beaumaris in views from immediate coastal areas and vantage points set back from the coast. Elsewhere low or negligible/ no change.	in views from the AONB since PEIR.		north and Beaumaris in the south. Represented by viewpoint (VP) 7: Penmon Point towards Puffin Island and Great Orme; VP 4: Moelfre headland, VP 6: Bwrdd Arthur, VP 14: Wales Coast Path near Penrhyn (Traeth yr Ora) from VP 16: Benllech Bay, VP 5 Red Wharf Bay, VP 28: Trwyn y Penrhyn parking to Penmon Point and Great Orme, VP 8: Beaumaris to Puffin Island and the Great Orme; and views from sections c: Dulas Bay, d: Moelfre, e: Red Wharf Bay/ Penmon, and f: Penmon Point of the Wales Coast Path. These would specifically relate to views over the Irish Sea and in some instances will affect local views to other landscape features such as the Great Orme and Puffin Island. From some of these locations there may in turn be effects on the perceptions of the sense of openness as a result of the introduction of the AyM to views over the seascape.	points within the AONB between Point Lynas in the north and Beaumaris in the south. Represented by viewpoint (VP) 7: Penmon Point towards Puffin Island and Great Orme; VP 4: Moelfre headland, VP 6: Bwrdd Arthur, VP 14: Wales Coast Path near Penrhyn (Traeth yr Ora) from VP 16: Benllech Bay, VP 5 Red Wharf Bay, VP 28: Trwyn y Penrhyn parking to Penmon Point and Great Orme, VP 8: Beaumaris to Puffin Island and the Great Orme; and views from sections C: Dulas Bay, D: Moelfre, E: Red Wharf Bay/ Penmon, and F: Penmon Point of the Wales Coast Path.

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
					Moderate to major-moderate (significant) on relative wilderness and the feeling of isolation (from human intervention) would apply in views from the sections of the coast between Moelfre and Point Lynas and along the coast between Penmon Point and Bwrdd Arthur. There would be no change to the perception of exposure as a result of the introduction of AyM to views. Elsewhere the effects would be not significant	These would specifically relate to views over the Irish Sea and in some instances will affect local views to other landscape features such as the Great Orme and Puffin Island. From some of these locations there may in turn be effects on the perceptions of the sense of openness as a result of the introduction of the AyM to views over the seascape. Moderate to major-moderate adverse (significant) on relative wilderness and the feeling of isolation (from human intervention) would apply in views from the sections of the coast between Moelfre and Point

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
						Llynas and along the coast between Penmon Point and Bwrdd Arthur. There would be no change to the perception of exposure as a result of the introduction of AyM to views. Elsewhere the effects would be not significant. Views across the Menai Strait or towards more distant borrowed landscapes of Snowdonia, the Isle of Man, the Llyn Peninsula and the mountains of the Lake District would not generally be affected.
IoA AONB Special Quality: Peace and Tranquillity	High for areas classified as 'Undisturbed'. Medium to high elsewhere	Medium-low or medium adverse from limited locations within the AONB.	Array area reduced in size increasing the separation distance and the Horizontal FoV in views from the AONB since PEIR.	Minor (not significant)	Moderate to moderate-major adverse effect (significant), identified at: • VP 14: Wales Coast Path near Pennrhyn (Traeth yr Pra);	Moderate to moderate-major adverse effect (significant), identified at:

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
					• VP 28: Trwyn y Penrhyn parking layby; • VP 42: Mynydd Bodafon – trig point; • the northerly section of WCP section c: Dulas Bay; • the northerly section of WCP section e: Red Wharf bay/ Penmon; and • WCP section f Penmon Point in part. Effects on other receptors assessed not significant, adverse, short-term, temporary.	• VP 14: Wales Coast Path near Pennrhyn (Traeth yr Ora); • VP 28: Trwyn y Penrhyn parking layby; • VP 42: Mynydd Bodafon – trig point; • the northerly section of WCP section c: Dulas Bay; • the northerly section of WCP section e Red Wharf Bay/ Penmon; and • WCP section f Penmon Point in part. Effects on other receptors assessed not significant, adverse, short-term, temporary.
IoA AONB Special Quality: Islands around Anglesey	High	26 islands no change Puffin Island-Medium adverse Ynys Moelfre – Medium-low adverse	Array area reduced in size increasing the separation distance and the Horizontal FoV in views from the AONB since PEIR.	Minor adverse (not significant)	Major to major-moderate adverse (significant) on the visual interaction between the landscape/ seascape where the AyM would form part of the backdrop to the islands of Ynys	Major to major-moderate adverse (significant) on the visual interaction between the landscape/ seascape

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
		Ynys Dulas- Medium-low adverse East Mouse (Ynys Amlwch) - Low adverse			Moelfre, Ynys Dulas and Puffin Island. Elsewhere minor to moderate-minor (not significant)	where the AyM would form part of the backdrop to the islands of Ynys Moelfre, Ynys Dulas and Puffin Island. Elsewhere minor to moderate-minor (not significant)
SNP Special Quality: Diverse landscapes	Medium-high	Negligible to Low to Medium-low adverse	Array area reduced in size reducing the Horizontal FoV in views forming part of the experience of this Special Quality since PEIR.	Minor adverse (not significant)	Moderate-minor to moderate (not significant)	Moderate-minor to moderate adverse (not significant)
SNP Special Quality: Tranquility & solitude – Peaceful Areas.	Medium-high	Negligible to Low adverse	Array area reduced in size reducing the Horizontal FoV in views forming part of the experience of this Special Quality since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)
Clwydian Range and Dee Valley AONB Special Quality: Landscape Character and Quality – Tranquillity	Medium-high	Negligible to Low adverse	Array area reduced in size reducing the Horizontal FoV from this SCA since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING EARLY STAGES OF CONSTRUCTION AND LATTER STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING LATTER STAGES OF CONSTRUCTION AND EARLY STAGES OF DECOMMISSIONING (ADVERSE, SHORT-TERM, TEMPORARY EFFECT)	RESIDUAL EFFECT DURING OPERATION (ADVERSE, LONG TERM, REVERSIBLE EFFECT)
Clwydian Range and Dee Valley AONB Special Quality: Landscape Character and Quality – Remoteness and Wildness/Wilderness	Medium-high	Negligible to Low adverse	Array area reduced in size reducing the Horizontal FoV from this SCA since PEIR.	Minor adverse (not significant)	Moderate-minor adverse (not significant)	Moderate-minor adverse (not significant)

Table 10: Summary of potential effects on Seascape, Landscape and Visual representative viewpoints (MDS B).

IMPACT	SENSITIVITY OF RECEPTOR	MAGNITUDE DURING CONSTRUCTION, OPERATION AND DECOMMISSIONING	MITIGATION MEASURES	RESIDUAL EFFECT DURING CONSTRUCTION AND DECOMMISSIONING	RESIDUAL EFFECT DURING OPERATION
The effects of MDS B on the representative viewpoints are assessed to be the same as those assessed for MDS A.					

Table 11: Summary of predicted effects on Offshore Archaeology and Cultural Heritage.

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
CONSTRUCTION				
Removal of sediment containing undisturbed archaeological contexts leading to total loss of the receptor during preparation of the seabed for WTGs and offshore substation foundations.	High adverse	High to negligible sensitivity	Implementation of WSI. Implementation of Archaeological Exclusion Zone (AEZs). Archaeological investigation of seabed anomalies (A2s) prior to impact. Implementation of a PAD.	Minor to negligible adverse (not significant) or minor to moderate beneficial (not significant to significant)
Penetration and compression effects of jack-up legs and anchoring of construction vessels during turbine, sub-station or cable installation leading to total or partial loss of archaeological receptors.	High adverse	High to negligible sensitivity	Implementation of WSI. Implementation of AEZs. Archaeological investigation of seabed anomalies (A2s) prior to impact. Implementation of a PAD. Archaeological assessment of any geotechnical data.	Minor to negligible adverse (not significant) or minor to moderate beneficial (not significant to significant)
Intrusion of piling foundations disturbing archaeological contexts leading to a partial or total loss of the receptor.	High adverse	High sensitivity	Implementation of WSI. Archaeological assessment of any geotechnical work for any palaeogeographic sites or material. Implementation of a PAD.	Minor to negligible adverse (not significant) or major beneficial (significant)
Disturbance of sediment containing potential archaeological receptors (material and contexts) during inter-array and export cable laying operations.	High adverse	High to negligible sensitivity	Implementation of WSI. Implementation of AEZs, Further assessment of A2 anomalies, and implementation of a PAD.	Minor to negligible adverse (not significant) or minor to moderate beneficial (not significant to significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Indirect effects upon known and potential marine archaeological receptors as a result of changes to sedimentation and erosion patterns.	High adverse	High to negligible sensitivity	Scour protection. Review of monitoring data to assess whether AEZs have been impacted or whether buried material has been exposed (archaeological assessment of survey data and/or implementation of PAD)	Minor to negligible adverse (not significant) or minor to moderate beneficial (not significant to significant)
Compression of stratigraphic contexts containing archaeological material from combined weight of foundation, transition piece, tower, and wind turbine.	High adverse	High to negligible sensitivity	Implementation of WSI. Archaeological assessment of geotechnical data.	Minor to negligible adverse (not significant) or minor to moderate beneficial (not significant to significant)
Operation				
Total or partial loss of archaeological receptors during the operation and maintenance phase due to penetration and compression effects.	High adverse	High to negligible sensitivity	Implementation of WSI. Retention of AEZs. Avoidance of A2 anomalies. Archaeological assessment of geoarchaeological data pre-construction.	Minor to negligible adverse (not significant) or minor to moderate beneficial (not significant to significant)
Total or partial loss of archaeological receptors during the operation and maintenance phase due to scour effects.	High adverse	High to negligible sensitivity	Assignment and monitoring of potential scour in AEZs. Scour protection. Review of monitoring data to assess whether buried material has been exposed (archaeological assessment of survey data and/or implementation of PAD)	Minor to negligible adverse (not significant) or minor beneficial (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
DECOMMISSIONING				
Total or partial loss of archaeological receptors during the decommissioning phase due to penetration and compression effects.	High adverse	High to negligible sensitivity	Implementation of WSI. Retention of AEZs. Avoidance of A2 anomalies.	Minor to negligible adverse (not significant) or minor to moderate beneficial (not significant to significant)
Total or partial loss of archaeological receptors during the decommissioning phase due to the draw-down of sediments.	High adverse	High to negligible sensitivity	Implementation of WSI. Reviewing AEZs to ensure modeled draw-down of sediments will not occur within AEZ. Review of monitoring data to assess whether buried material has been exposed (archaeological assessment of survey data and/or implementation of PAD)	Minor to negligible adverse (not significant) or minor beneficial (not significant)
CUMULATIVE EFFECTS				
Effects on known and potential archaeological receptors.	High adverse. Combined impact of a number of projects on the same receptor and incremental changes over time and over a wide area	High to negligible sensitivity	Impact from other projects unlikely due to distance, and indirect impacts from AyM are localised. Incremental changes over time managed through standard mitigation measures across the EIA process.	Minor to negligible adverse (not significant) or minor to moderate beneficial (not significant to significant)

Table 12: Summary of potential effects on Infrastructure and Other Users.

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
CONSTRUCTION				
Impacts on other offshore wind farms	Negligible adverse	Low - High	None beyond the mitigation measures proposed in Volume 2, Chapter 12: Other Marine Users and Activities (application ref: 6.1.12).	Minor adverse (not significant)
Potential impacts on non-OWF cables and pipelines.	Negligible adverse	High	None beyond the mitigation measures proposed in Volume 2, Chapter 12: Other Marine Users and Activities (application ref: 6.1.12).	Minor adverse (not significant)
Potential impact on recreational	Low adverse	Low	N/A	Minor adverse (not significant)
OPERATION				
Potential impacts on cables	Negligible adverse	Low	None beyond the mitigation measures proposed in Volume 2, Chapter 12: Other Marine Users and Activities (application ref: 6.1.12).	Minor adverse (not significant)
Potential impact on recreational	Negligible adverse	Low	N/A	Minor adverse (not significant)
DECOMMISSIONING				
Impacts from decommissioning are expected to be similar to those listed for construction, if the project's infrastructure is removed from the seabed at the end of the development's operational life. If, closer to the time of decommissioning, it is deemed removal of certain aspects of the development (for example cables) would have a greater environmental impact than leaving in situ, it may be preferable to leave those aspects in situ. In this case, the impacts for decommissioning would be similar to those described for the O&M, except where effects are dependent on the maintenance of the project.				
CUMULATIVE EFFECTS				

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Potential impact on recreational	Low adverse	Medium	N/A	Minor adverse (not significant)

Table 13: Summary of effects on Aviation and Radar.

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
CONSTRUCTION				
Creation of an aviation obstacle	Low adverse	Medium	None beyond the mitigation measures proposed in Volume 2, Chapter 13: Military and Civil Aviation (application ref: 6.1.13).	Minor adverse (not significant)
OPERATION				
Creation of an aviation obstacle	Low adverse	Medium	None beyond the mitigation measures proposed in Volume 2, Chapter 13: Military and Civil Aviation (application ref: 6.1.13).	Minor adverse (not significant)
Wind turbines causing permanent interference on civil and military radar systems	Medium adverse	High	NATS – Radar blanking and infill. With agreed mitigation in place impact will be negligible	Minor adverse (not significant)
Wind turbines creating an impact to Instrument Flight Rules offshore helicopter operations to oil and gas platforms	Medium adverse	Low	None beyond the mitigation measures proposed in Volume 2, Chapter 13: Military and Civil Aviation (application ref: 6.1.13).	Minor adverse (not significant)
DECOMMISSIONING				
Creation of an aviation obstacle	Low adverse	Medium	None beyond the mitigation measures proposed in Volume 2, Chapter 13: Military and Civil Aviation (application ref: 6.1.13).	Minor adverse (not significant)
CUMULATIVE EFFECTS				
Creation of an aviation obstacle	Low adverse	Medium	None beyond the mitigation measures proposed in Volume 2, Chapter 13: Military and Civil Aviation (application ref: 6.1.13).	Minor adverse (not significant)

IMPACT	MAGNITUDE OF IMPACT	SENSITIVITY OF RECEPTOR	MITIGATION MEASURES	RESIDUAL EFFECT
Wind turbines causing permanent interference on civil and military radar systems	Medium adverse	High	NATS – Radar blanking and infill. With agreed mitigation in place impact will be negligible	Minor adverse (not significant)

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