

Volume 12: Appendices (Summary)

Appendix 38.2

Stage 1 and Stage 2 CEA (Offshore)

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Offshore Stage 1 and Stage 2 Cumulative Assessment

1. Overview

This appendix of the Environmental Impact Assessment Report (EIAR) supports Chapter 38 Cumulative and Inter-Related Effects (hereafter referred to as the Cumulative and Inter-Related Effects Chapter) and presents:

- The detailed methodology for establishing the offshore long list of ‘other projects’ (Stage 1) to be considered in Stage 2 of the cumulative effects assessment, including the data sources consulted;
- The detailed screening methodology (Stage 2) that each of the offshore EIA topic specialists have undertaken to screen in projects to take forward into the cumulative effects assessment (Stage 3); and
- The outcome of the offshore Stage 1 and Stage 2 activities presented in matrices.

The offshore chapters that are relevant to this appendix are:

- Volume 3 (Offshore chapters), Chapters 10 to 20; and
- Volume 5 (wider scheme aspects) Chapter 29 SLVIA and Chapter 35 Offshore Bats.

This appendix should be read with Chapter 38 which provides the overarching methodology for the cumulative effects assessment, including the assessment tiers, and a summary of the final cumulative assessment outcomes (Stage 3) of the onshore, site wide and offshore topics.

The Stage 3 of the cumulative assessment for offshore topics is provided in detail in their respective chapters. This has been undertaken as the zone of influence for each of the topics; the impacts that require assessment; and the methods used to determine the cumulative effects can vary quite considerably between offshore topics and this is better presented alongside the project alone assessment. The screening of onshore projects is captured within Appendix 38.1 and the Stage 3 assessment of onshore topics is contained within Chapter 38.

2. Stage 1: Establishing the Offshore Long List

The offshore list of ‘other projects’ has been grouped into three tiers (Tier 1, Tier 2 and Tier 3 Offshore Projects), and these are further explained in the following sections. The Tier 3 Onshore Projects list has also been considered within the cumulative effects assessment by the offshore topics, and the outcome of this is presented in Section 2.4.

2.2 Tier 1 and Tier 2

The Tier 1 and Tier 2 Projects that have been included within the offshore long list are:

Tier 1: this is the Operation and Maintenance Facility (OMF) which is required for the operation of the proposed development. The OMF does not form part of this planning application and will be developed by others. It is not yet a “permitted/consented” development.

Tier 2: these are the Phase 1 Projects (proposed offshore renewable energy projects) located off the east coast of Ireland. Such projects include Oriel Windfarm, Codling Wind Park, Arklow Bank II and Dublin Array. The proposed development is also a Phase 1 Project.

Sceirde Rocks Windfarm, located off the Connemara coast in County Galway, is also a Phase 1 offshore wind farm however, due to the distance between it and the east coast Phase 1 Projects it is less likely to present cumulative effects for multiple topics and so has been included within Tier 3 (refer to Section 2).

Further information on these tiers is provided in Chapter 38.

2.3 Tier 3 Offshore Projects

2.3.1 Search areas

Due consideration has been given to establishing the maximum suite of projects with potential for connectivity to receptors resulting in a cumulative effect to arise.

Each environmental topic has considered their receptors, their study areas and/or their Zone of Influence (ZoIs) to inform the search area required. Those environmental topics with mobile receptors have also taken into account species range and mobility, as well as the pathways for effects. This has also been informed by expert judgement and understanding of the nature of impacts from projects within the offshore environment, and from precedents set by jurisdictions and countries with an established offshore renewable energy sectors and where comprehensive guidance has been developed.

The Tier 3 offshore project list has then been established by taking this receptor led approach and associated distances into account and then utilising established and documented ecosystem boundaries that encompass the study areas, ZoIs, and ranges of impacts from all topics (not just those that are biodiversity led). This allows for a comprehensive list of projects to be generated using desk-based resources that can be easily filtered per topic prior to applying their screening ranges.

The ecosystem boundaries that have been utilised for the searches (in ascending order of size) were the International Council for the Exploration of the Sea (ICES) Ecoregion subsection 7a; ICES Ecoregion section Celtic Sea (which incorporates 7a); and the Joint Nature Conservation Committee (JNCC) Celtic and Greater North Seas Marine Mammal Management Unit (MMMU).

The Tier 3 offshore projects are organised by development type and following an initial screening process using the topic screening ranges it was identified that the only development type with potential for cumulative impacts outside of the ICES Ecoregion section Celtic Sea was for OWFs. Therefore the long list for OWF's (only) extends to the boundaries of the Greater North Seas MMMU. The search area boundaries were utilised by the topics as a first step to easily filter the long list when going through the steps to screening and considering the potential for physical and effect overlaps (presented in Section 3).

The project search boundaries detailed above are offshore only, with the boundary at the coast typically aligning with the High Water Mark (HWM). Projects identified within the Tier 3 onshore long list (Appendix 38.1) where there is the potential for it to impact on an offshore receptor, or for where a topic receptor traverses the HWM, have also been added to the offshore long list.

2.3.2 Search resources and criteria

The long list of projects is up to date as of March 2024 and includes projects which are:

- Either proposed, submitted, consented or operational; and
- That were within the offshore cumulative search areas; and
- Were either potentially being constructed, operational or decommissioned within a time period of 2021 to 2034, which provides sufficient period either side of the proposed development construction phase to allow sufficient consideration of the temporal overlap criteria with key development phases (see below and Appendix 38.2 for further details); or
- Are the works associated with the OMF upgrade and leasing; or
- Phase One OWFs, which includes those projects that were granted a Maritime Area Consent (MAC) under the Maritime Area Planning (MAP) Act 2021

A full list of data sources that have been accessed to develop the long list is provided in Table 1

Table 1 Offshore Long List data sources

Data Topic	Data Source
Offshore GIS Data	
Aggregate Production Area	The Crown Estate
Disposal Sites (licensed disposal of waste at sea sites win the UK)	Centre for Environment, Fisheries, and Aquaculture Science (CEFAS) (Executive Agency of Defra (the UK Government's Department of Environment, Food and Rural Affairs))
Dumping at Sea Permit Boundaries	Environmental Protection Agency (EPA)
Carbon Capture and Storage Site Agreements	The Crown Estate (UK) Crown Estate Scotland (CES)
Oil and Gas (O&G) Surface Features	O&G Authority / North Sea Transition Authority (NSTA)
O&G Subsurface Features	O&G Authority / NSTA
O&G Pipelines	O&G Authority / NSTA
Ports	World Ports Index (WPI)
Subsea Cables	KISORCA / GoBe Compiled Dataset
Offshore Wave Site Agreements	The Crown Estate / Crown Estate Scotland
Offshore Tidal Site Agreements	The Crown Estate / Crown Estate Scotland
Offshore Wind Farms	The Crown Estate / Crown Estate Scotland / EMODnet / Irish OWFs digitised (4COffshore)/ Isle of Man Government
Shipping	UKHO
Aquaculture	Department of Agriculture, Food and the Marine
Recreation - Watersports	http://mida.ucc.ie/
Offshore Online Resources	
Aggregates	https://data.gov.ie/dataset/irish-sea-marine-aggregates-initiative
	https://epawebapp.epa.ie/terminalfour/DaS/index.jsp
	https://gis.epa.ie/EPAMaps/AAGeoTool
Offshore Wind Farms	https://www.gov.ie/en/collection/f2196-foreshore-applications-and-determinations/
	https://tethys.pnnl.gov/
	https://www.4coffshore.com/windfarms/ireland/
	https://kis-orca.org/map/
	https://infrastructure.planninginspectorate.gov.uk/
	https://marine.gov.scot/marine-licence-applications
	https://naturalresourceswales.gov.uk/
	Individual project websites
Other Offshore Energy	https://tethys.pnnl.gov/
	https://marine.gov.scot/marine-licence-applications
	Individual project websites

Data Topic	Data Source
Subsea Cables	https://kis-orca.org/map/
	https://www.gov.ie/en/foreshore-notices/
	https://www.submarinecablemap.com/
	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwjTg_em2dKEAxV62QIHHeFnBg8QFnoECBkQAQ&url=https%3A%2F%2Fassets.gov.ie%2F265468%2F14606532-28d5-4108-b315-6c4f6327e64d.pdf&usg=AOvVaw3gFTy7vhgzVACTH1KJkN2&opi=89978449
O&G pipelines	https://www.gov.uk/guidance/oil-and-gas-decommissioning-of-offshore-installations-and-pipelines
O&G infrastructure	https://www.gov.ie/en/publication/10d43-acreage-reports-and-concession-maps/#2022
	https://iooa.ie/exploration-activity/#drilling-operations
	https://www.gov.ie/en/policy-information/bf1b50-oil-and-gas-exploration-and-production/
	https://www.gov.uk/guidance/oil-and-gas-decommissioning-of-offshore-installations-and-pipelines
	https://www.gov.ie/en/foreshore-notices/
	https://iooa.ie/exploration-activity/#drilling-operations
Dump Site Boundaries	https://gis.epa.ie/EPAMaps/
Dumping at Sea	https://epawebapp.epa.ie/terminalfour/DaS/index.jsp
	Publicly accessible planning application documents
Shipping and Ports	https://hub.arcgis.com/datasets/1e7dfd86350e4e00b722b943a02cb14c
	https://www.gov.ie/en/foreshore-notices/
	Port websites
Aquaculture	https://www.gov.ie/en/collection/d8ea9-aquacultureforeshore-licence-applications
	https://www.gov.ie/en/collection/794ef-marine-finish-licences/
	https://www.gov.ie/en/collection/ae2ab-shellfish-licences/
CCUS	https://opendata-thecrownestate.opendata.arcgis.com/datasets/8cae2b24b1f6457c8311af3e794246d3
	UK Planning Inspectorate website
	https://www.ccstlm.com/site/system/resources/interfaces/The_East_Irish_Sea_CCS_Cluster_Summary_Brochure2728.pdf?id=16
	https://www.geos.ed.ac.uk/sccs/project-info/2121
	https://www.offshore-energy.biz/uk-awards-storage-licence-for-depleted-gas-field-in-east-irish-sea/
Coastal Assets and Infrastructure	https://www.gov.ie/en/collection/f2196-foreshore-applications-and-determinations/
	https://housinggovie.maps.arcgis.com/apps/webappviewer/index.html?id=d7d5a3d48f104ecbb206e7e5f84b71f1
	https://www.pleanala.ie/
	https://www.pleanala.ie/en-ie/map-search
	https://www.myplan.ie/national-planning-application-map-viewer/
	https://housinggovie.maps.arcgis.com/apps/webappviewer/index.html?id=d7d5a3d48f104ecbb206e7e5f84b71f1
	https://www.maritimeregulator.ie/
	Public notices
	County council planning portals and maps

Data Topic	Data Source
Surveys	https://iooa.ie/exploration-activity/#drilling-operations
	https://www.housing.gov.ie/
	https://www.gov.ie/en/foreshore-notice/
	https://www.maritimeregulator.ie/
	https://www.oireachtas.ie/en/debates/question/2019-10-15/623/

2.4 Tier 3 Onshore Projects

Chapter 38 provides the methodology for development of the onshore long list, and the long list itself.

It is recognised that there is the potential for onshore projects to have cumulative impacts with offshore receptors where there is a pathway for an onshore activity or project to impact on an offshore receptor; or alternatively where there is an offshore receptor that is mobile and may cross the High Water Mark (HWM) into coastal areas.

Each topic has reviewed the onshore long list and determined that there are no pathways for likely cumulative effects with the onshore projects identified, due to their distance from the coast and offshore receptors. Therefore, the onshore projects have been screened out and have not been included within the offshore long list.

3. Offshore Stage 2: Screening

3.2 Steps to screening

The below criteria have been considered in order to allow a clear justification for screening projects in/out of the cumulative effects assessment:

- Define whether the project or activity is considered as part of the baseline environment but has ongoing effects which are not part of the baseline
- Identify if there is a potential impact-receptor pathway. There is the potential that a pathway exists whereby an impact from another project could have an effect on a receptor of concern for that particular topic
- Confirm if there is a spatial effect interaction. The impacts on a topic receptor from the proposed development and one or more 'other projects' have a geographical overlap. If there is no spatial interaction, there is considered to be no potential for a cumulative effect; and
- Check if there is a temporal effect interaction. The impacts from the proposed development and one or more other projects have the potential to occur at the same time. If there is no temporal interaction during the key project phases, there is considered to be no potential for a cumulative effect; and
- Is there sufficient confidence in the data available to undertake an assessment. Data confidence is also taken into account when screening projects and activities into or out of the cumulative assessment. The premise here is that projects with a low level of detail publicly available cannot meaningfully contribute to a cumulative assessment and, as such, are screened out. Data confidence categories are presented in Table 2

Only where there is the potential for both spatial and temporal interaction between effects at the proposed development and one or more other projects and there is confidence in the information available, has a cumulative impact been taken forward for consideration in the cumulative effects assessment. If not, the projects are screened out.

The criteria developed for the screening exercise based on the above steps are listed in Table 2 and the categories are applied in the offshore cumulative screening matrices in Section 4. Further explanation of the screening criteria is provided in the following sections.

Table 2 Offshore screening criteria

Ref	Long list screening criteria	Screened in or out
a	Included as part of the topic baseline and hence not considered within the cumulative impact assessment	Screened Out
b	An existing project or activity but has an ongoing impact which is not part of the baseline and is therefore considered relevant to the cumulative impact assessment	Screened In
c	Potential cumulative impact exists	
d	No temporal overlap	Screened out
e	No physical effect-receptor overlap	
f	Low data confidence	
g	No effect-receptor pathway	

This screening has produced EIAR topic-specific short-lists of projects which were considered further within the cumulative effects assessments as part of each offshore EIAR chapter. It should be noted that this process may have screened a project in for one EIAR topic but screened it out for another.

3.2.1 *No temporal overlap*

In order for a cumulative effect to arise from two or more projects, a temporal overlap of impacts arising from each must be established. Some impacts are active only during certain phases of development, such as piling noise during construction. Such a consideration is particularly important for receptors such as marine mammals, where the overlap of impacts during construction, such as noise from the piling activities of several large offshore developments, may be important.

The anticipated construction periods for projects, plans and activities within the offshore project list have been obtained from their relevant planning documents (e.g. Scoping Reports, EIARs etc.). The details provided represent the current understanding of programmes of development though it is recognised that these programmes may be subject to change.

All projects and activities that were built and operational at the time of the data collection (desktop and field surveys etc.) have been screened out of the assessment. This is because the effects of these projects have already been captured within the baselines, and hence their impacts have already been accounted for within the likely significant effects assessment. The exception to this is where projects have an ongoing impact, and this is addressed by the screening criterion ‘existing project or activity but has an ongoing impact which is not part of the baseline’.

3.2.2 *No physical effect-receptor overlap*

The ability for impacts arising from the proposed development to overlap with those from other projects, has been assessed on a receptor basis for each topic and screening distances with justification have been provided in each offshore EIAR chapter.

In most examples, the potential physical extents of the impacts (direct or indirect) arising from the other projects with the physical extent of the proposed developments impacts need to overlap for that receptor for a cumulative impact to arise.

Exceptions to this exist for certain mobile receptors that may move between, and be subject to, two or more separate physical extents of impact from two or more projects where there isn’t an overlap. Mobile receptors which may be affected by non-overlapping physical impacts include birds, marine mammals, offshore bat and fish.

Furthermore, individual receptors from the same population may be subject to physically separate impacts occurring at the same time while the population is separated, leading to an effect upon the population as a whole. Where relevant, these potential eventualities have been noted in the relevant chapter and included in the cumulative assessment.

The physical extent of an impact from another project can be identified from published information, or it can be estimated at a precautionary level based on the topic experts' understanding of the nature of the impacts and the environment.

Screening on the basis of physical extent has been carried out for all topics in consideration of the project option with the greatest potential magnitude of impact (and hence physical extent) that may arise from the proposed development.

Where a project does not have a physical overlap of impacts for a given topic with those of the proposed development, those projects have been screened out.

3.2.3 *No effect-receptor pathway*

For a cumulative effect to occur, it must be established that another project's impact has the potential to directly or indirectly affect the topic's receptor(s) of concern. This is described as an impact-receptor-pathway.

Another project may be within the screening range of a topic, may be within the temporal timeframe of the proposed development, but the specific impacts of that other project(s) do not have a pathway to effect the receptor that the proposed development is effect. An example of this is the Aviation and Radar topic screening out the impacts of the construction of a subsea pipeline as there is no pathway for those impacts to effect radar receptors.

Projects that clearly do not have impacts that present an impact-receptor-pathway overlap are screened out of the assessment. In cases where an impact-receptor-pathway is not clear-cut, a precautionary approach has been taken and the project has been screened into the cumulative assessment.

3.2.4 *Data confidence*

Data confidence is also taken into account when screening projects and activities into or out of the cumulative assessment. The premise here is that projects with a low level of detail publicly available cannot meaningfully contribute to a cumulative assessment and, as such, are screened out. Data confidence categories are presented in Table 3, those projects that fall into the Low category may be screened out on that basis.

Decisions upon whether to screen a project in or out at this stage are taken on a topic by topic basis based on experience and knowledge of technical specialists, and the current guidance and regulations. This allows certain projects to be screened in for certain topics where sufficient detail is present, while the same project, plan or activity may be screened out for another topic.

Table 3 Data confidence categories

Category	Definition
High	Sufficient data exists from a publicly available source where a project is under construction; awarded; or submitted, to enable a meaningful assessment to be undertaken, either quantitatively or qualitatively.
Medium	Sufficient data exists from a publicly available source or from direct engagement with the developer where a project is pre-submission (and the information is subject to change outside of a consenting process), to enable a meaningful assessment to be undertaken, either quantitatively or qualitatively.
Low	Sufficient information or data does not exist and a meaningful assessment cannot be undertaken.

4. Offshore Stage 1 and Stage 2 Cumulative Effects Matrices

Table 4 Stage 1 and Stage 2 offshore ‘Other Existing and/or Approved Projects’

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Offshore Wind

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

a	Included as part of the topic baseline and hence not considered within the cumulative impact assessment
b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to
c	Potential cumulative impact exists: Screened in to assessment.
d	No temporal overlap: Screened out of assessment.
e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Project	Developer	Status	Region	Construction Period (orange outline denotes proposed development offshore construction period)												Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLYA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034													
Oriel	Oriel Windfarm Limited,Parkwind NV,ESB	Pre-planning application	Ireland																e	e	f	c	c	c	c	c	c	c	c	c
Dublin Array	RWE	Pre-planning application	Ireland																e	e	e	c	c	c	c	c	e	c	c	c
Codling Wind Park	Fred. Olsen Seawind, EDF Energies	Pre-planning application	Ireland																e	e	e	c	c	c	c	c	e	c	c	c
Arklow Bank Phase 2	SSE Renewables	Pre-planning application	Ireland																e	e	e	e	c	c	c	c	e	c	c	c
Arklow Bank Phase 1	GE Energy	Operational	Ireland																e	e	e	e	a	b	a	a	b	e	a	e
Morgan	EnBW and BP	Pre-planning application	England/W ales																e	e	e	e	c	c	c	e	e	e	e	e
North Channel Wind 2	North Channel Wind 2	Pre-planning application	Northern Ireland																e	e	e	e	c	e	c	e	e	e	e	e
Mona	EnBW and BP	Planning application submitted	England/W ales																e	e	e	e	c	c	c	e	e	e	e	e
Isle of Man (Moor Vannin)	Orsted & Isle of Man Government	Pre-planning application	Isle of Man																e	e	e	e	c	e	c	e	e	e	e	e
Awel y Môr	RWE Renewables	Consented	England/W ales																e	e	e	e	c	c	c	e	e	e	e	e
Walney Extension 3	Ørsted	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
North Channel Wind 1	North Channel Wind 1	Pre-planning application	Northern Ireland																e	e	e	e	c	e	c	e	e	e	e	e
Walney Extension 4	Walney Extension Limited	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
Morecambe	Cobra & Flotation Energy	Pre-planning application	England/W ales																e	e	e	e	c	c	c	e	e	e	e	e
Gwynt y Mor	RWE	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
Rhyl Flats	RWE Npower	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
Walney 2	Ørsted	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
West of Duddon Sands	Scottish Power Renewables & Ørsted	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
Walney 1	Ørsted	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
North Hoyle	Greencoat	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
Ormonde	Vattenfall	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
Burbo Bank Extension	Ørsted	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
Barrow	Ørsted	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
Burbo Bank	Ørsted	Operational	England/W ales																e	e	e	e	a	b	a	a	e	e	e	e
Robin Rigg West	E.ON UK	Operational	Scotland																e	e	e	e	a	b	a	a	e	e	e	e
Robin Rigg East	E.ON UK	Operational	Scotland																e	e	e	e	a	b	a	a	e	e	e	e
Shearwater One	Shearwater energy limited	Pre-planning application	Scotland																e	e	e	e	c	e	e	e	e	e	e	e
Erebus Floating Wind Demo	Simply Blue Energy & TotalEnergies	Consented	England/W ales																e	e	e	e	c	c	e	e	e	e	e	e
Machair	MachairWind SPR Ltd.	Pre-planning application	Scotland																e	e	e	e	e	e	e	e	e	e	e	e
Valorous	Blue Gem Wind Ltd	Pre-planning application	England/W ales																e	e	e	e	c	e	e	e	e	e	e	e
Llyr 1	Llyr 1 Cierco Ltd.,SBM Offshore N.V.	Pre-planning application	England/W ales																e	e	e	e	c	e	e	e	e	e	e	e
Llyr 2	Llyr 2 Cierco Ltd.,SBM Offshore N.V.	Pre-planning application	England/W ales																e	e	e	e	c	e	e	e	e	e	e	e
Sceirde Rocks	Fuinneamh Scuirde Teoranta / GIG	Pre-planning application	Ireland																e	e	e	e	c	e	e	e	e	e	e	e
White Cross	White Cross Flotation Energy plc,COBRA INSTALACIONES Y SERVICIOS, S.A.	Planning application	England/W ales																e	e	e	e	c	c	e	e	e	e	e	e
Atlantic Marine Energy Test Site	Sustainable Energy Authority of Ireland (SEAI)	Consented	Ireland																e	e	e	e	c	e	e	e	e	e	e	e
Blyth	Blyth Harbor Wind Ltd	Operational	England/W ales																e	e	e	e	a	e	e	e	e	e	e	e
Forthwind	Cierco	Consented	Scotland																e	e	e	e	a	e	e	e	e	e	e	e
Teesside	EDF Energy - Northern Offshore Windfarm Ltd	Operational	England/W ales																e	e	e	e	a	e	e	e	e	e	e	e
Methil Demo/Levenmouth	ORE Catapult Ltd	Operational	Scotland																e	e	e	e	a	e	e	e	e	e	e	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Offshore Wind

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

a	Included as part of the topic baseline and hence not considered within the cumulative impact assessment
b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to
c	Potential cumulative impact exists: Screened in to assessment.
d	No temporal overlap: Screened out of assessment.
e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Project	Developer	Status	Region	Construction Period (orange outline denotes proposed development offshore construction period)															Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA	
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																	
Blyth Demo Phase I	EDF Energy Renewables	Operational	England/Wales															326.8	335.2	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Blyth Demonstration Site	EDF Energy Renewables	Consented	England/Wales															330.5	338.9	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Neart Na Gaoithe	Mainstream Renewable Power	Consented	Scotland															357.9	366.0	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
TwinHub	Hexicon	Consented	England/Wales															358.5	362.5	e	e	e	e	c	c	e	e	e	e	e	e	e	e	e
Berwick Bank	Scottish Southern Energy Renewables	Planning application submitted	Scotland															373.3	381.5	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Inch Cape	Red Rock Power (ICOL)	Under construction	Scotland															377.4	385.4	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Westernmost Rough	Ørsted	Operational	England/Wales															390.8	398.3	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Seagreen Phase 1	SSE / Seagreen Wind Energy Ltd	Operational	Scotland															396.6	404.7	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Humber Gateway	E.ON Humber Wind Ltd / Balfour Beatty Investments and Equitix	Operational	England/Wales															402.1	409.4	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Inner Dowsing	XceCo	Operational	England/Wales															418.9	426.6	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Lynn	XceCo	Operational	England/Wales															419.9	427.7	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Lincs	Ørsted	Operational	England/Wales															420.1	427.7	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Triton Knoll	Innogy	Operational	England/Wales															432.5	439.9	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Kincardine	Grupo Cobra	Operational	Scotland															439.3	447.2	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Race Bank	Ørsted / Macquarie Group	Operational	England/Wales															439.6	447.1	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Morven	Morven BP E1	Consented	Scotland															444.1	452.2	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Bowdun	Cluaran Deas Ear DEME E3	Pre-planning ap	Scotland															449.6	457.6	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Hornsea Project Four	Ørsted	Consented	England/Wales															449.9	457.9	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Outer Dowsing	Green Investment Group - Total	Planning application submitted	England/Wales															452.3	459.7	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Aberdeen (EOWDC)	Vattenfall	Operational	Scotland															453.4	461.2	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Sheringham Shoal Extension	Equinor	Planning applic	England/Wales															459.2	466.8	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Sheringham Shoal	Equinor	Operational	England/Wales															462.3	469.9	e	e	e	e	a	e	e	e	e	e	e	e	e	e	e
Ossian	SSE Renewables-Marubeni-CIP E1	Pre-planning ap	Scotland															464.5	472.6	e	e	e	e	e	e	e	e	e	e	e	e	e	e	e
Dudgeon Extension	Equinor	Planning application submitted	England/Wales															465.7	473.1	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Dogger Bank South (West)	RWE Renewables	Pre-planning ap	England/Wales															470.8	479.2	e	e	e	e	c	e	e	e	e	e	e	d	e	e	e
Dudgeon	Statoil / Statkraft	Operational	England/Wales															476.3	483.8	e	e	e	e	a	e	e	e	e	e	e	d	e	e	e
Hornsea Project Two	Ørsted	Operational	England/Wales															479.7	487.4	e	e	e	e	a	e	e	e	e	e	e	d	e	e	e
Rampion 2	Rampion 2 OWF	Planning application submitted	England/Wales															484.2	494.2	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Dogger Bank - Creyke Beck B	SSE / Equinor	Under construc	England/Wales															492.6	501.0	e	e	e	e	c	e	e	e	e	e	e	d	e	e	e
Hornsea Project One	Ørsted	Operational	England/Wales															493.7	501.2	e	e	e	e	a	e	e	e	e	e	e	d	e	e	e
Bellrock	Bellrock Falck Renewables E1	Pre-planning ap	Scotland															494.9	503.1	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e
Rampion	E.ON UK	Operational	England/Wales															495.1	505.2	e	e	e	e	a	e	e	e	e	e	e	d	e	e	e
Dogger Bank South (East)	RWE Renewables	Pre-planning ap	England/Wales															498.8	507.0	e	e	e	e	c	e	e	e	e	e	e	d	e	e	e
Dogger Bank - Creyke Beck A	SSE / Equinor	Under construc	England/Wales															499.9	508.3	e	e	e	e	c	e	e	e	e	e	e	d	e	e	e
Hywind	Statoil	Operational	Scotland															500.3	508.2	e	e	e	e	a	e	e	e	e	e	e	d	e	e	e
Moray West	EDPR	Under construc	Scotland															501.8	508.9	e	e	e	e	c	e	e	e	e	e	e	d	e	e	e
BP	BP Alternative Energy Investments	Pre-planning ap	Scotland															507.3	515.2	e	e	e	e	e	e	e	e	e	e	e	d	e	e	e
Spiorad na Mara	Northland Power N4	Pre-planning ap	Scotland															513.3	518.2	e	e	e	e	c	e	e	e	e	e	e	e	e	e	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
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Project	Developer	Status	Region	Construction Period (orange outline denotes proposed development offshore construction period)															Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																
Moray East	Diamond Green Limited, CTG & Ocean Winds	Operational	Scotland															514.7	522.0	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Salamander	Simply Blue Energy (Scotland)	Pre-planning ap	Scotland															517.2	525.1	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Gunfleet Sands I	Ørsted	Operational	England/W ales															518.3	527.5	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Gunfleet Sands Demo	Ørsted	Operational	England/W ales															519.1	528.3	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Caledonia	Caledonia Offshore Wind Farm Ocean WInds NE4	Pre-planning ap	Scotland															519.4	526.8	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Scroby Sands	E.ON UK	Operational	England/W ales															519.7	527.9	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Muir Mhòr	Muir Mhòr Fred Olsen, Vattenfall	Pre-planning ap	Scotland															519.7	527.8	e	e	e	e	c	e	e	e	e	e	e	d	rg	e
Gunfleet Sands II	Ørsted	Operational	England/W ales															520.1	529.4	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Kentish Flats Extension	Vattenfall	Operational	England/W ales															522.9	532.3	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Kentish Flats	Vattenfall	Operational	England/W ales															524.0	533.5	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Beatrice	Scottish & Southern Energy (SSE) / Repsol / CIP	Operational	Scotland															524.1	531.3	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Dogger Bank - Teesside B (Sofia)	RWE Renewables UK Limited	Under construc	England/W ales															526.0	534.5	e	e	e	e	c	e	e	e	e	e	e	d	rg	e
Campion	CampionWind Shell Wind Energy SPR E2	Pre-planning ap	Scotland															528.1	536.2	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Hornsea Project Three	Ørsted	Consented	England/W ales															529.4	537.1	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Parc eolien pose au large de la Normandie (AO4)	EDF and Maple Power	Consented	France																	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Centre-Manche 1	EDF and Maple Power	Consented	France															530.5	540.6														
London Array	Siemens Gamesa Renewable Energy	Operational	England/W ales															533.6	543.7	e	e	e	e	c	e	e	e	e	e	e	d	rg	e
Centre-Manche 2	TBC	Pre-planning application	France															536.6	545.9	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Cedar	Cerulean Winds	Pre-planning ap	Scotland															539.6	549.7	e	e	e	e	c	e	e	e	e	e	e	d	rg	e
Broadshore	Broadshore BlueFloat, Falck Renewables Ltd. NE6	Pre-planning ap	Scotland															542.1	550.3	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Norfolk Vanguard West	RWE (formerly Vattenfall / Scottish Power Renewables)	Consented	England/W ales															546.2	553.8	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
North Falls	North Falls Offshore Wind Farm Limited	Pre-planning ap	England/W ales															548.3	556.0	e	e	e	e	c	e	e	e	e	e	e	d	rg	e
Greater Gabbard	Airtricity / Fluor Ltd	Operational	England/W ales															549.0	557.9	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Green Volt	Flotation Energy	Pre-planning ap	Scotland															551.2	560.1	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Talisk	Magnora-Technip N3	Pre-planning ap	Scotland															554.4	562.3	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
East Anglia Two	Scottish Power Renewables	Consented	England/W ales															554.5	559.7	e	e	e	e	c	e	e	e	e	e	e	d	rg	e
Galloper	RWE Npower Renewables	Operational	England/W ales															556.0	563.2	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Aspen	Cerulean Winds	Pre-planning ap	Scotland															555.4	564.3	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Thamet	Vattenfall	Operational	England/W ales															555.8	563.8	e	e	e	e	e	e	e	e	e	e	e	d	rg	e
Pentland Floating	Hexicon AB / COP	Consented	Scotland															556.8	566.2	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
																		557.7	564.4	e	e	e	e	c	e	e	e	e	e	e	d	rg	e
Scaraben	Bluefloat Energy/Renanis Partnership	Pre-planning ap	Scotland															559.2	566.8	e	e	e	e	e	e	e	e	e	e	e	d	rg	e
Sinclair	Bluefloat Energy/Renanis Partnership	Pre-planning ap	Scotland															560.4	567.9	e	e	e	e	e	e	e	e	e	e	e	d	rg	e
East Anglia One North	Scottish Power Renewables	Consented	England/W ales															560.5	568.8	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Havbredey	Northland Power N2	Pre-planning ap	Scotland															560.7	566.3	e	e	e	e	a	e	e	e	e	e	e	d	rg	e
Dogger Bank C - Teesside A	SSE / Equinor	Under construc	England/W ales															564.0	572.4	e	e	e	e	c	e	e	e	e	e	e	d	rg	e
Five Estuaries	Five Estuaries Offshore Wind Farm Limited	Planning applic	England/W ales															564.6	573.4	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Stromar	Stromar BlueFloat Energy,Falck Renewables Limited,Ørsted A/S NE3	Pre-planning ap	Scotland															566.4	573.8	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
West of Orkney	West of Orkney Total Energies N1	Pre-planning ap	Scotland															566.7	573.0	e	e	e	e	c	e	e	e	e	e	e	e	rg	e
Saint-Brieuc	Iberdrola	Under construc	France															567.8	577.3	e	e	e	e	c	e	e	e	e	e	e	d	rg	e
Marram	Maram Wind SPR Shell Wind Ltd. NE7	Pre-planning ap	Scotland															570.6	578.5	e	e	e	e	c	e	e	e	e	e	e	d	rg	e

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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																		
East Anglia ONE	Scottish Power Renewables	Operational	England/Wales															575.5	584.0	e	e	e	e	a	e	e	e	e	e	e	d	12	e		
Buchan	Floating Energy Alliance Elicio nv, Baywar r.e., BW Ideol NE8	Pre-planning and consent	Scotland															576.8	584.6	e	e	e	e	c	e	e	e	e	e	e	e	12	e		
Norfolk Vanguard East	RWE (formerly Vattenfall / Scottish Power Renewables)	Consented	England/Wales															578.6	586.3	e	e	e	e	c	e	e	e	e	e	e	e	12	e		
East Anglia Three	Scottish Power Renewables	Under construction	England/Wales															582.2	590.1	e	e	e	e	c	e	e	e	e	e	e	d	12	e		
Courseulles-sur-mer	Éolien Maritime France	Under construction	France															582.6	592.6	e	e	e	e	c	e	e	e	e	e	e	d	12	e		
Cenos	Flotation Energy	Pre-planning and consent	Scotland															582.8	591.0	e	e	e	e	c	e	e	e	e	e	e	e	12	e		
Fécamp	Éolien Maritime France	Under construction	France															583.1	593.1	e	e	e	e	c	e	e	e	e	e	e	d	12	12	e	
Ayre	Cluaran Ear-Thuath NE2	Pre-planning and consent	Scotland															601.6	608.9	e	e	e	e	c	e	e	e	e	e	e	e	12	12	e	
Harbour Energy South	Harbour Energy	Pre-planning and consent	Scotland															608.6	617.0	e	e	e	e	e	e	e	e	e	e	e	d	12	12	e	
Dieppe Le Tréport	Ocean Winds	Consented	France															609.1	619.1	e	e	e	e	c	e	e	e	e	e	e	d	12	12	e	
IJmuiden Ver	TenneT	Pre-planning and consent	Netherlands															613.7	621.7	e	e	e	e	c	e	e	e	e	e	e	e	12	12	e	
Dunkerque	EDF	Pre-planning and consent	France															614.7	624.1	e	e	e	e	c	e	e	e	e	e	e	e	12	12	e	
Northwester 2	Parkwind	Operational	Belgium															616.8	625.7	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Borssele	Orsted	Operational	Netherlands															617.5	626.4	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Borssele Kavel IV	Blauwwind	Operational	Netherlands															617.5	626.4	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
OWF Borssele IV	Blauwwind	Operational	Netherlands															617.5	626.4	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Culzean	TotalEnergies E&P UK	Pre-planning and consent	Scotland															620.6	628.7	e	e	e	e	e	e	e	e	e	e	e	e	d	12	12	e
Belwind phase 2 (Nobelwind)	Belwind Offshore Energy	Operational	Belgium															620.7	629.6	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Belwind phase 1	Belwind Offshore Energy	Operational	Belgium															621.6	630.6	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Seamade	Otary	Operational	Belgium															624.1	633.0	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
OWF Borssele III	Blauwwind	Operational	Netherlands															628.0	636.9	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Northwind	Colruyt Group and Aspiravi Offshore	Operational	Belgium															629.4	638.4	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Hollandse Kust F	Vattenfall	Under construction	Netherlands															630.4	638.9	e	e	e	e	c	e	e	e	e	e	e	e	d	12	12	e
OWF Borssele I	Orsted	Operational	Netherlands															630.6	639.4	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Rentel	Otary	Operational	Belgium															631.7	640.7	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Borssele Kavel V	Blauwwind	Operational	Netherlands															633.2	642.0	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
C-Power (Zone A)	Blue Cluster	Operational	Belgium															633.5	642.5	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
OWF Borssele II	Orsted	Operational	Netherlands															637.2	646.0	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Harbour Energy North	Harbour Energy	Pre-planning and consent	Scotland															638.3	646.4	e	e	e	e	e	e	e	e	e	e	e	e	d	12	12	e
Norther	Elicio NV, Eneco Wind Belgium SA and Diamond Generating Europe BV	Operational	Belgium															638.4	647.4	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Hollandse Kust (West)	Ecowende	Consented	Netherlands															646.2	654.5	e	e	e	e	e	e	e	e	e	e	e	e	d	12	12	e
Beech	Cerulean Winds	Pre-planning and consent	Scotland															649.3	657.4	e	e	e	e	c	e	e	e	e	e	e	e	e	12	12	e
Hollandse Kust (Zuid)	Vattenfall	Under construction	Netherlands															670.4	678.5	e	e	e	e	c	e	e	e	e	e	e	e	d	12	12	e
Hollandse Kust (Noord)	Eneco	Operational	Netherlands															675.9	683.8	e	e	e	e	c	e	e	e	e	e	e	e	d	12	12	e
OWF Prinses Amalia	Eneco	Operational	Netherlands															680.7	688.5	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
OWF Luchterduinen	Eneco	Operational	Netherlands															682.0	690.0	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
OWF Egmond aan Zee	Shell	Operational	Netherlands															690.4	698.2	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Groix et Belle-Île	Eolfi	Operational	France															696.8	704.7	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
Sud de la Bretagne	tbc	Pre-planning and consent	France															706.1	713.6	e	e	e	e	c	e	e	e	e	e	e	e	e	12	12	e
Ten Noorden van de Wadden	TenneT	Pre-planning and consent	Netherlands															728.6	736.4	e	e	e	e	c	e	e	e	e	e	e	e	e	12	12	e
Saint-Nazaire	Éolien Maritime France	Operational	France															745.6	754.3	e	e	e	e	a	e	e	e	e	e	e	e	d	12	12	e
N-9.3	TBC	Pre-planning and consent	Germany															747.8	756.0	e	e	e	e	c	e	e	e	e	e	e	e	e	12	12	e
N-9.1	TBC	Pre-planning and consent	Germany															754.1	762.1	e	e	e	e	c	e	e	e	e	e	e	e	e	12	12	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Offshore Wind

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

a	Included as part of the topic baseline and hence not considered within the cumulative impact assessment
b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to
c	Potential cumulative impact exists: Screened in to assessment.
d	No temporal overlap: Screened out of assessment.
e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Project	Developer	Status	Region	Construction Period (orange outline denotes proposed development offshore construction period)															Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA	
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																	
N-9.4	TBC	Pre-planning a	Germany															756.4	764.6	e	e	e	e	c	e	e	e	e	e	e	d	12	e	
N-6.7	TBC	Pre-planning a	Germany															760.1	768.2	e	e	e	e	c	e	e	e	e	e	e	e	12	e	
Deutsche Bucht	Northland Power	Operational	Germany															761.7	769.8	e	e	e	e	c	e	e	e	e	e	e	e	12	e	
N-9.2	TBC	Pre-planning a	Germany															765.4	773.6	e	e	e	e	c	e	e	e	e	e	e	e	12	e	
Nordsren III vest	RWE	Pre-planning a	Denmark															766.1	774.6	e	e	e	e	c	e	e	e	e	e	e	e	12	e	
ZeeEnergie / Gemini II	Northland Power	Operational	Netherlands															766.8	774.6	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
Veja Mate	Veja Mate Offshore Project	Operational	Germany															767.2	775.2	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
N-6.6	TBC	Pre-planning a	Germany															767.5	775.5	e	e	e	e	c	e	e	e	e	e	e	e	12	e	
N-10.2	TBC	Pre-planning a	Germany															770.3	778.5	e	e	e	e	c	e	e	e	e	e	e	d	12	e	
BARD Offshore 1	Ocean Breeze Energy	Operational	Germany															774.5	782.5	e	e	e	e	c	e	e	e	e	e	e	d	12	e	
Iles d'Yeu et de Noirmoutier	Eoliennes en Mer des îles d'Yeu et de Noirmoutier	Consented	France															776.2	784.9	e	e	e	e	c	e	e	e	e	e	e	e	12	e	
Buitengaats / Gemini I	northland Power	Operational	Netherlands															778.2	786.0	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
N-10.1	TBC	Pre-planning a	Germany															780.8	789.0	e	e	e	e	c	e	e	e	e	e	e	d	12	e	
Arven	Mainstream Renewable Power / OceanWinds	Pre-planning a	Scotland															780.9	788.3	e	e	e	e	c	e	e	e	e	e	e	e	12	e	
Borkum Riffgrund 3	Orsted	Under construction	Germany															783.6	791.4	e	e	e	e	c	e	e	e	e	e	e	d	12	e	
N-7.2		Pre-planning a	Germany															786.6	794.7	e	e	e	e	c	e	e	e	e	e	e	e	12	e	
EnBW He Dreiht	EnBW	Consented	Germany															787.2	795.2	e	e	e	e	c	e	e	e	e	e	e	d	12	e	
Nordsren II vest	Equinor	Pre-planning a	Denmark															791.0	799.4	e	e	e	e	c	e	e	e	e	e	e	d	12	e	
Albatros	EnBW	Operational	Germany															791.9	800.1	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
EnBW Hohe See	EnBW	Operational	Germany															795.5	803.7	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
GlobalTech I	Global Tech I Offshore Wind GmbH	Operational	Germany															799.4	807.6	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
Trianel Windpark Borkum Phase 1	Trianel	Operational	Germany															806.2	814.0	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
Trianel Windpark Borkum Phase 2	Trianel	Operational	Germany															806.4	814.2	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
Borkum Riffgrund 2	Orsted	Operational	Germany															807.1	814.9	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
Riffgat	EWE	Operational	Germany															810.4	817.9	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
Borkum Riffgrund 1	Orsted	Operational	Germany															811.6	819.4	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
Merkur Offshore (MEG Offshore 1)	GE Renewable Energy	Operational	Germany															812.2	820.0	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
Alpha Ventus	Deutsche Offshore-Testfeld und Infrastruktur-GmbH & Co. KG	Operational	Germany															818.2	826.0	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
Stoura Wind Farm (Sealtainn)	ESB Asset Development	Pre-planning a	Scotland															819.1	826.6	e	e	e	e	e	e	e	e	e	e	e	d	12	e	
Nordsren III		Pre-planning a	Denmark															824.6	833.1	e	e	e	e	e	c	e	e	e	e	e	e	d	12	e
N-3.6		Pre-planning a	Germany															827.9	835.8	e	e	e	e	e	c	e	e	e	e	e	e	d	12	e
Nordsee One	GmbH	Operational	Germany															828.5	836.3	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
N-3.5		Pre-planning a	Germany															832.1	840.0	e	e	e	e	e	c	e	e	e	e	e	e	e	12	e
N-3.8		Pre-planning a	Germany															832.8	840.7	e	e	e	e	e	c	e	e	e	e	e	e	e	12	e
Sandbank	Vattenfall	Operational	Germany															836.4	844.8	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Gode Wind 02	Orsted	Operational	Germany															840.7	848.6	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Gode Wind 01	Orsted	Operational	Germany															840.9	848.8	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Nordsren I		Pre-planning a	Denmark															845.6	854.1	e	e	e	e	e	e	e	e	e	e	e	d	12	e	
N-3.7		Pre-planning a	Germany															846.0	853.8	e	e	e	e	e	c	e	e	e	e	e	e	e	12	e
Gode Wind 3	Orsted	Consented	Germany															849.2	857.0	e	e	e	e	e	c	e	e	e	e	e	e	e	12	e
Jyske Banke	Jyske Bank	Operational	Denmark															851.8	860.3	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Dan Tysk		Operational	Germany															857.9	866.2	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Kaskasi II	RWE	Operational	Germany															885.5	893.7	e	e	e	e	e	c	e	e	e	e	e	e	d	12	e
Nordsee Ost	RWE	Operational	Germany															885.5	893.6	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Amrumbank West	E.ON Climate & Renewables	Operational	Germany															885.5	893.7	e	e	e	e	a	e	e	e	e	e	e	d	12	e	
Meerwind Sued/Ost	WindMW	Operational	Germany															885.6	893.7	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Horns Rev II	Orsted	Operational	Denmark															887.4	895.8	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Thor	RWE	Pre-planning a	Denmark															889.9	898.4	e	e	e	e	e	c	e	e	e	e	e	e	d	12	e
Horns Rev III	Vattenfall	Operational	Denmark															890.5	898.9	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Butendiek	WPD	Operational	Germany															893.6	901.9	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Sud Atlantique	TBC	Pre-planning a	France															897.9	906.8	e	e	e	e	e	e	e	e	e	e	e	e	d	12	e
Horns Rev I	Vattenfall	Operational	Denmark															902.3	910.7	e	e	e	e	e	a	e	e	e	e	e	e	d	12	e
Vesterhav Syd	Vattenfall	Operational	Denmark															920.6	929.1	e	e	e	e	e	c	e	e	e	e	e	e	d	12	e
Nordergruende	WPD	Operational	Germany																															

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Offshore Wind

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

a	Included as part of the topic baseline and hence not considered within the cumulative impact assessment
b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to
c	Potential cumulative impact exists: Screened in to assessment.
d	No temporal overlap: Screened out of assessment.
e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Project	Developer	Status	Region	Construction Period (orange outline denotes proposed development offshore construction period)												Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment and Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLYA		
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032																2033	2034
Vesterhav Nord	Vattenfall	Construction	Denmark														936.7	945.2	e	e	e	e	c	e	e	e	e	e	e	d	g	e
Rønland	Harboøre Møllelaug I/S	Operational	Denmark														952.0	960.5	e	e	e	e	c	e	e	e	e	e	e	d	g	e
Nisum Bredning	Jysk Energy & Nisum Brednings	Operational	Denmark														953.2	961.7	e	e	e	e	a	e	e	e	e	e	e	d	g	e
Jammerland Bay Nearshore Windfarm	European Energy	Pre-planning at	Denmark														1018.8	1027.3	e	e	e	e	e	e	e	e	e	e	e	d	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Aggregates

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

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b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
c	Potential cumulative impact exists: Screened in to assessment.
d	No temporal overlap: Screened out of assessment.
e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Area	Area number	Company	Status of Development	Construction Period (orange outline denotes proposed development offshore construction period)												Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032															
Liverpool Bay	457	Westminster Gravels Ltd	Closed													145.5	152.9	e	e	e	e	a	a	a	e	a	e	e	e	e
Liverpool Bay	1808	Hanson Aggregates Marine Ltd	Closed													152.9	160.5	e	e	e	e	a	a	a	e	a	e	e	e	e
Hilbre Swash	393	Mersey Sand Suppliers	Open													153.6	161.4	e	e	e	e	a	a	a	e	a	e	e	e	e
Nobel Banks	476	Llanelli Sand Dredging Ltd	Open													245.9	254.9	e	e	e	e	a	a	a	e	a	e	e	e	e
North Middle Ground	455	Severn Sands Ltd	Open													305.7	315.7	e	e	e	e	a	a	a	e	a	e	e	e	e
North Bristol Deep	1602	Hanson Aggregates Marine Ltd	Open													306.5	316.5	e	e	e	e	a	a	a	e	a	e	e	e	e
North Bristol Deep	1602	Tarmac Marine Ltd	Open													306.5	316.5	e	e	e	e	a	a	a	e	a	e	e	e	e
Culver Extension	526	Cemex UK Marine Ltd	Open													307.0	316.9	e	e	e	e	a	a	a	e	a	e	e	e	e
Culver Extension	526	Hanson Aggregates Marine Ltd	Open													307.0	316.9	e	e	e	e	a	a	a	e	a	e	e	e	e
Culver Extension	526	Tarmac Marine Ltd	Open													307.0	316.9	e	e	e	e	a	a	a	e	a	e	e	e	e
North Bristol Deep	1601	Hanson Aggregates Marine Ltd	Open													307.0	317.0	e	e	e	e	a	a	a	e	a	e	e	e	e
North Bristol Deep	1601	Tarmac Marine Ltd	Open													307.0	317.0	e	e	e	e	a	a	a	e	a	e	e	e	e
North Middle Ground	459	Severn Sands Ltd	Open													307.2	317.2	e	e	e	e	a	a	a	e	a	e	e	e	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices

Industry - Alternative Offshore Renewable Energy (Wave/Tidal)

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

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c	Potential cumulative impact exists: Screened in to assessment.
d	No temporal overlap: Screened out of assessment.
e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Project	Developer	Type	Status	Construction Period (orange outline denotes proposed development offshore construction period)															Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																
Strangford Lough	Minesto UK Limited	Tidal	Operational															73.3	80.4	e	e	e	e	a	ja	a	e	ja	e	d	e	e	
Holyhead Deep	Minesto UK Limited	Tidal	Operational															75.6	75.6	e	e	e	e	a	ja	a	e	ja	e	d	e	e	
Holyhead Deep 0.5MW Site	Minesto UK Limited	Tidal	Operational															76.5	86.1	e	e	e	e	a	ja	a	a	ja	e	d	e	e	
West Anglesey Demonstration Zone	Menter Môn Morlais Limited	Tidal	Under construction															78.3	87.7	e	e	e	e	c	ja	c	e	ja	e	d	e	e	
Mull of Galloway	Atlantis Resources Ltd	Tidal	Lease withdrawn															118.8	126.8	e	e	e	e	d	ja	e	e	ja	e	d	e	e	
North Wales Tidal Energy	North Wales Tidal Energy & Coastal Protection (NWTE)	Tidal	Pre-planning application															135.1	143.6	e	e	e	e	d	ja	e	e	ja	e	d	e	e	
Northern Tidal Power Gateways/Morecambe Bay Tidal Lagoon	North West Energy Squared	Tidal	Pre-planning application															180.3	188.6	e	e	e	e	d	ja	e	e	ja	e	d	e	e	
Wyre Barrage	Wyre Tidal Energy	Tidal	Pre-planning application															188.0	195.9	e	e	e	e	e	ja	e	e	ja	e	d	e	e	
West Cumbrian Tidal Lagoon	Tidal Lagoon Power Ltd	Tidal	Pre-planning application															188.0	196.3	e	e	e	e	e	ja	e	e	ja	e	d	e	e	
Mersey Tidal Power	Mersey Tidal Power	Tidal	Pre-planning application															192.0	200.1	e	e	e	e	c	ja	e	e	ja	e	e	e	e	
Fair Head Phase 1	Fair Head Tidal Energy Park Ltd	Tidal	Planning application submitted															199.7	204.8	e	e	e	e	a	ja	e	e	ja	e	e	e	e	
Fair Head Phase 2	Fair Head Tidal Energy Park Ltd	Tidal	Planning application submitted															199.7	204.8	e	e	e	e	c	ja	e	e	ja	e	e	e	e	
Milford Haven Estuary (META Phase 2) - Dale Roads	Pembrokeshire Coastal Forum Community Interest Company	Tidal	Operational															215.5	223.3	e	e	e	e	a	ja	e	e	ja	e	d	e	e	
Wave Dragon Project - Milla Fjord Site	Wave Dragon Wales Ltd	Wave	Pre-planning application															217.7	225.2	e	e	e	e	d	ja	e	e	ja	e	d	e	e	
West Islay Tidal Energy Park	Bluepower	Tidal	Consented															218.8	223.5	e	e	e	e	a	ja	e	e	ja	e	d	e	e	
Milford Haven Estuary (META Phase 2) - Warrior Way	Pembrokeshire Coastal Forum Community Interest Company	Tidal	Operational															219.9	228.4	e	e	e	e	c	ja	e	e	ja	e	d	e	e	
Milford Haven Estuary (META Phase 2) - East Pickard Bay	Pembrokeshire Coastal Forum Community Interest Company	Tidal	Operational															220.7	228.5	e	e	e	e	c	ja	e	e	ja	e	d	e	e	
Sound of Islay	Previously ScottishPower Renewables UK Ltd, now Atlantis (2016 purchase)	Tidal	Consented															230.8	236.0	e	e	e	e	d	ja	e	e	ja	e	d	e	e	
Oran na Mara	Oran na Mara Ltd	Tidal	Pre-planning application															235.3	240.6	e	e	e	e	d	ja	e	e	ja	e	d	e	e	
Pembrokeshire Demonstration Zone	Celtic Sea Power Ltd	Wave	Pre-planning application															242.0	249.1	e	e	e	e	d	ja	e	e	ja	e	d	e	e	
WestWave Demonstration Project	ESB	Wave	Pre-planning application															266.3	256.7	e	e	e	e	e	ja	e	e	ja	e	d	e	e	
Connel	Sustainable Marine Energy Ltd	Tidal	Decommissioning															302.5	308.7	e	e	e	e	c	ja	e	e	ja	e	d	e	e	
Severn Barrage	REUK Renewable Energy UK	Tidal	Pre-planning application															304.1	314.1	e	e	e	e	d	ja	e	e	ja	e	d	e	e	
Cardiff Bay Tidal Lagoon	Cardiff Tidal Lagoon	Tidal	Pre-planning application															306.9	316.9	e	e	e	e	c	ja	e	e	ja	e	d	e	e	
Newport Tidal Lagoon	Tidal Lagoon Power Ltd	Tidal	Withdrawn															306.9	316.9	e	e	e	e	e	ja	e	e	ja	e	d	e	e	
West Somerset Tidal Lagoon	Longbay Seapower	Tidal	Pre-planning application															311.0	320.8	e	e	e	e	c	ja	e	e	ja	e	e	e	e	
Bridgewater Bay Tidal Lagoon	Tidal Lagoon Power Ltd	Tidal	Pre-planning application															324.5	334.5	e	e	e	e	d	ja	e	e	ja	e	d	e	e	
Isle of Muck	Albatern WaveNET Albatern and Marine Harvest Scotland	Wave	Operational															337.3	348.0	e	e	e	e	a	ja	e	e	ja	e	d	e	e	
Wave Hub	Wave Hub Ltd.	Wave	Operational															365.4	369.9	e	e	e	e	a	ja	e	e	ja	e	d	e	e	
Falmouth Bay Test Site (FaBTest)	Falmouth Harbour Comissioners	Wave	Operational															391.6	397.9	e	e	e	e	a	ja	e	e	ja	e	d	e	e	
Portland Bill	Marine Current Turbines Limited	Tidal	Pre-planning application															415.6	425.5	e	e	e	e	e	ja	e	e	ja	e	d	e	e	
Perpetuus Tidal Energy Centre (PTEC)	Isle of Wight Council	Tidal	Consented															459.8	469.8	e	e	e	e	c	ja	e	e	ja	e	d	e	e	
Raz Blanchard	SIMEC Atlantic	Tidal	In planning															510.0	519.8	e	e	e	e	a	ja	e	e	ja	e	d	e	e	
Inner Sound	MeyGen Limited	Tidal	Operational															571.5	578.5	e	e	e	e	a	ja	e	e	ja	e	d	e	e	
Ness of Duncansby	Orbital Projects 6 Limited	Tidal	Pre-planning application															573.2	580.2	e	e	e	e	d	ja	e	e	ja	e	d	e	e	
EMEC Scapa Flow	The European Marine Energy	Wave	Operational															599.3	606.4	e	e	e	e	c	ja	e	e	ja	e	e	e	e	
EMEC Bilia Croo	The European Marine Energy	Wave	Operational															599.6	606.4	e	e	e	e	c	ja	e	e	ja	e	d	e	e	
Deer Sound	Orbital Marine Power (Orkney)	Tidal	Operational															610.1	617.2	e	e	e	e	c	ja	e	e	ja	e	d	e	e	
EMEC Shapinsay Sound	The European Marine Energy	Tidal	Operational															612.5	619.5	e	e	e	e	a	ja	e	e	ja	e	d	e	e	
EMEC Fall of Warness	The European Marine Energy	Tidal	Operational															627.4	634.4	e	e	e	e	a	ja	e	e	ja	e	d	e	e	
Morlais Orbital O2	Orbital Marine Power	Tidal	Consented															627.8	634.9	e	e	e	e	c	ja	e	e	ja	e	d	e	e	
Westray South	Orbital Projects 5 Limited	Tidal	Pre-planning application															629.9	636.9	e	e	e	e	c	ja	e	e	ja	e	d	e	e	
Yell Sound Array	Nova Innovation Ltd	Tidal	Pre-planning application															801.6	808.8	e	e	e	e	e	ja	e	e	ja	e	d	e	e	

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry - Subsea Cables

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

a	Included as part of the topic baseline and hence not considered within the cumulative impact assessment
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c	Potential cumulative impact exists: Screened in to assessment.
d	No temporal overlap: Screened out of assessment.
e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Name	Company	Type	Status	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA	
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																
Havhingsten Telecoms Cable (CeltixConnect-2)	Aqua Comms	Telecom	Active															0.7	9.7														
Rockabill Telecoms Cable	euNetworks	Telecom	Active															4.9	13.0														
East West Interconnector	Eirgrid Interconnector Ltd	Power	Active															5.0	11.4														
Hibernia 'C'	Hibernia Atlantic	Telecom	Active															7.7	17.0														
Sirius South	Virgin Media	Telecom	Active															9.4	18.7														
BT-TE1	BT	Telecom	Disused															11.0	19.7														
CeltixConnect - Sea Fibre Networks	aquacomms	Telecom	Active															11.3	20.1														
Zayo Emerald Bridge One	Zayo	Telecom	Active															12.1	20.2														
ESAT 2	BT	Telecom	Active															14.4	24.2														
Hibernia Atlantic	Hibernia Atlantic	Telecom	Active															28.9	26.7														
Mares Connect	Foresight Group's energy transition fund, Foresight Energy Infrastructure Partners and Etchea Energy	Power	Proposed															33.2	41.5														
Western HVDC Link	National Grid and Scottish Power	Power	Active															54.1	62.6														
Hibernia 'A'	Hibernia Atlantic	Telecom	Active															56.0	64.5														
Manx-N.Ireland	BT	Telecom	Active															64.2	71.7														
Lanis 2	Vodafone	Telecom	Active															84.3	92.3														
Arklow Phase 1 Power Cable	SSE	Power	Active															87.6	89.8														
Lanis 1	Vodafone	Telecom	Active															92.8	101.3														
Scotland-N.Ireland 1	BT	Telecom	Active															99.8	106.6														
IOM/UK Interconnector	Manx Electricity Authority	Power	Active															101.5	110.0														
Sirius North	Virgin Media	Telecom	Active															103.3	109.0														
BT-MT1	BT	Telecom	Active															105.7	114.2														
Lanis 3	Vodafone	Telecom	Active															112.0	118.2														
LirC	Unknown	Power	Proposed															112.0	118.2														
Moyle Interconnector South	Moyle Interconnector Ltd	Power	Active															122.1	128.3														
Moyle Interconnector South	Moyle Interconnector Ltd	Power	Active															122.4	128.5														
Scotland-NI 2	BT	Telecom	Active															125.5	131.4														
Walney Extension OFTO	Diamond Transmission Partners	Wind Export	Active/In Operation															138.1	146.5														
UK-Ireland 2 Crossing	CenturyLink	Telecom	Active															138.2	136.2														
Rhyl Flats	Rhyl Flats Wind Farm Limited	Wind Export	Active/In Operation															146.2	154.5														
Gwynt y Môr OFTO	Gwynt-y-Môr OFTO plc	Wind Export	Active/In Operation															148.9	157.0														
Walney 2 OFTO	Blue Transmission Walney	Wind Export	Active/In Operation															155.0	163.4														
North Hoyle	North Hoyle Wind Farm Limited	Wind Export	Active/In Operation															157.9	166.4														
Burbo Bank Extension OFTO	Diamond Transmission Partners	Wind Export	Active/In Operation															158.5	166.8														
Walney 1 OFTO	Blue Transmission Walney	Wind Export	Active/In Operation															158.6	166.9														
West of Duddon Sands OFTO	WoDS Transmission Plc	Wind Export	Active/In Operation															162.7	170.9														
Ormonde OFTO	TC Ormonde OFTO Limited	Wind Export	Active/In Operation															164.2	172.5														
UK-Ireland Crossing 1	CenturyLink	Telecom	Active															165.3	162.1														
ESAT 1	BT	Telecom	Active															166.5	162.9														
Celtic	BT	Telecom	Disused															166.6	163.0														
Solas	Vodafone	Telecom	Active															166.6	163.0														
Barrow OFTO	TC Barrow OFTO Limited	Wind Export	Active/In Operation															171.8	180.0														
Greenlink Interconnector	Eirgrid	Power	In Construction															172.4	166.8														
Burbo Bank	Ørsted Burbo (UK) Limited	Wind Export	Active/In Operation															176.7	184.5														
Robin Rigg OFTO	TC Robin Rigg OFTO Limited	Wind Export	Active/In Operation															179.9	188.1														
BT-HIE Seg1.5	BT	Telecom	Active															192.7	199.0														
Arran - Holy Island	SSEN	Power	Active															202.6	209.5														
BT-HIE Seg1.8	BT	Telecom	Active															205.0	211.0														
Carradale Arran South	SSEN	Power	Active															206.9	213.3														
Carradale Arran North	SSEN	Power	Active															207.2	213.5														
Aquacomms AE Connect Cable	aquacomms	Telecom	Active															215.0	206.6														
BT-HIE Seg1.6	BT	Telecom	Active															215.3	222.1														

Proposed development offshore construction phase

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c	Potential cumulative impact exists: Screened in to assessment.
d	No temporal overlap: Screened out of assessment.
e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Appendix 38.2 Offshore Cumulative Screening and Stage 1 and 2 Assessment

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

a	Included as part of the topic baseline and hence not considered within the cumulative impact assessment
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d	No temporal overlap: Screened out of assessment.
e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Name	Company	Type	Status	Construction Period (orange outline denotes proposed development offshore construction period)																Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																	
South Uist - Eriskay (SSE)	SSE	Power	Active															382.3	386.9	e	e	e	e	a	e	e	e	e	e	d	e	e		
TAT 12	BT	Telecom	Active															382.7	384.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
Isle of Scilly - Western Power Distribution	Unknown	Power	Active															390.1	393.3	e	e	e	e	a	e	e	e	e	e	d	e	e		
Lochalsh (SSE)	SSEN	Power	Active															390.8	396.7	e	e	e	e	a	e	e	e	e	e	d	e	e		
Atlantic Crossing 1	Century Link	Telecom	Active															391.3	394.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
Kyle - Skye 2 (SOUTH) (SSE)	SSEN	Power	Active															391.8	397.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
Kyle - Skye East (SSE)	SSEN	Power	Active															391.9	397.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
Kyle - Skye West (SSE)	SSEN	Power	Active															392.0	397.8	e	e	e	e	a	e	e	e	e	e	d	e	e		
Skye - Scalpay (SSE)	SSEN	Power	Active															392.0	397.5	e	e	e	e	a	e	e	e	e	e	d	e	e		
UK/CH.Islands 7	BT / Guernsey Telecoms	Telecom	Active															395.8	405.1	e	e	e	e	a	e	e	e	e	e	d	e	e		
FLAG Atlantic Interlink	Global Cloud Xchange	Telecom	Active															396.0	399.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
TAT12-13	BT	Telecom	Active															396.0	399.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
FLAG	Global Cloud Xchange	Telecom	Active															396.0	399.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
Rioja 1	BT	Telecom	Disused															396.0	399.6	e	e	e	e	d	e	e	e	e	e	d	e	e		
HUGO	Vodafone	Telecom	Active															396.0	399.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
Rioja 2	BT	Telecom	Disused															396.0	399.6	e	e	e	e	d	e	e	e	e	e	d	e	e		
BT IOS1	BT	Telecom	Active															396.1	399.7	e	e	e	e	a	e	e	e	e	e	d	e	e		
Liberty	Jersey Telecoms	Telecom	Active															396.2	405.5	e	e	e	e	a	e	e	e	e	e	d	e	e		
Loch sligaghan - Skye 2 (SSE)	SSEN	Power	Active															397.1	402.5	e	e	e	e	a	e	e	e	e	e	d	e	e		
Skye Raasay (SSE)	SSEN	Power	Active															399.4	404.8	e	e	e	e	a	e	e	e	e	e	d	e	e		
SEA-ME WE 3	BT	Telecom	Disused															402.6	408.1	e	e	e	e	d	e	e	e	e	e	d	e	e		
UK-CH.Islands 8	BT / Jersey Telecoms	Telecom	Active															402.6	408.2	e	e	e	e	a	e	e	e	e	e	d	e	e		
SEA-ME-WE3	BT	Telecom	Active															402.7	408.2	e	e	e	e	a	e	e	e	e	e	d	e	e		
UK- Spain 4	BT	Telecom	Disused															403.5	409.1	e	e	e	e	d	e	e	e	e	e	d	e	e		
Skye - S Uist	SSE	Power	Active															409.7	414.4	e	e	e	e	a	e	e	e	e	e	d	e	e		
BT - HIE Seg 1.15	BT	Telecom	Active															411.9	416.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
Gemini South	Vodafone	Telecom	Disused															414.4	417.1	e	e	e	e	d	e	e	e	e	e	d	e	e		
Lynn	Lynn Wind Farm Limited	Wind Export	Active/In Operation															414.6	422.3	e	e	e	e	a	e	e	e	e	e	d	e	e		
TAT 9	BT	Telecom	Disused															420.0	424.5	e	e	e	e	d	e	e	e	e	e	d	e	e		
North Uist - Benbecula West	SSE	Power	Active															425.1	429.7	e	e	e	e	a	e	e	e	e	e	d	e	e		
North Uist - Benbecula East	SSE	Power	Active															425.1	429.8	e	e	e	e	a	e	e	e	e	e	d	e	e		
North Uist - Benbecula Centre 2	SSE	Power	Active															425.1	429.8	e	e	e	e	a	e	e	e	e	e	d	e	e		
North Uist - Benbecula Centre	SSE	Power	Active															425.6	430.3	e	e	e	e	a	e	e	e	e	e	d	e	e		
Skye - Uist Skye Shore End (SSE)	SSEN	Power	Active															426.5	431.4	e	e	e	e	a	e	e	e	e	e	d	e	e		
Skye - Harris (SSE)	SSEN	Power	Active															426.5	431.5	e	e	e	e	a	e	e	e	e	e	d	e	e		
BT - HIE Seg 1.14	BT	Telecom	Active															435.7	440.4	e	e	e	e	a	e	e	e	e	e	d	e	e		
North Uist - Berneray	SSEN	Power	Active															447.1	451.8	e	e	e	e	a	e	e	e	e	e	d	e	e		
Designated Area for cable route Aberdeen Offshore W/F	Unknown	Wind Export	Lease Marine															454.6	462.4	e	e	e	e	a	e	e	e	e	e	d	e	e		
Western Isles Link	SSE	Power	Proposed															457.4	463.5	e	e	e	e	d	e	e	e	e	e	d	e	e		
Harris - Scalpay 2 (SSE)	SSEN	Power	Active															462.3	467.3	e	e	e	e	a	e	e	e	e	e	d	e	e		
Harris - Scalpay 1 (SSE)	SSEN	Power	Active															462.8	467.7	e	e	e	e	a	e	e	e	e	e	d	e	e		
BT - HIE Seg 1.13	BT	Telecom	Active															466.7	472.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
Designated Area for cable route Beatrice Substation	Unknown	Wind Export	Lease Marine															470.9	478.3	e	e	e	e	d	e	e	e	e	e	d	e	e		
Designated Area for cable route Buchan Deep Demo	Unknown	Wind Export	Lease Marine															476.2	484.0	e	e	e	e	d	e	e	e	e	e	d	e	e		
SHEFA 2	Faroese Telecom	Telecom	Active															483.6	491.1	e	e	e	e	a	e	e	e	e	e	d	e	e		
Laxay Kershader (SSE)	SSEN	Power	Active															485.3	490.4	e	e	e	e	a	e	e	e	e	e	d	e	e		
Apollo South	Vodafone	Telecom	Active															502.4	504.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
TAT 14(K)	Telia Carrier	Telecom	Disused															509.4	504.9	e	e	e	e	d	e	e	e	e	e	d	e	e		
Flag Atlantic South	Global Cloud Xchange	Telecom	Active															512.4	516.2	e	e	e	e	a	e	e	e	e	e	d	e	e		
IceLink (Interco Iceland-UK)	Unknown	Power	Proposed															537.2	543.6	e	e	e	e	d	e	e	e	e	e	d	e	e		
Atlantic Super Connection	Unknown	Power	Proposed															543.6	550.0	e	e	e	e	d	e	e	e	e	e	d	e	e		
Orkney Caithness	SSE	Power	Proposed															551.4	558.2	e	e	e	e	d	e	e	e	e	e	d	e	e		
Orkney Interconnector	Unknown	Power	Proposed															553.0	559.7	e	e	e	e	c	e	e	e	e	e	d	e	e		
Shetland HVDC Link	Unknown	Power	Proposed															553.3	560.4	e	e	e	e	c	e	e	e	e	e	d	e	e		
Pentland Firth New	SSE	Power	Active															560.9	567.8	e	e	e	e	a	e	e	e	e	e	d	e	e		
Farice	Farice ehf	Telecom	Active															561.1	568.0	e	e	e	e	a	e	e	e	e	e	d	e	e		
Peatland Firth East (SSE)	SSEN	Power	Active															561.5	568.5	e	e	e	e	a	e	e	e	e	e	d	e	e		
Pentland Firth West (SSE)	SSEN	Power	Active															561.7	568.6	e	e	e	e	a	e	e	e	e	e	d	e	e		
Northern Lights (BT)	BT	Telecom	Active															563.1	570.0	e	e	e	e	a	e	e	e	e	e	d	e	e		
HOY Flotta (SSE)	SSEN	Power	Active															589.1	596.0	e	e	e	e	a	e	e	e	e	e	d	e	e		
Shefa 2 (Faroese Telecom)	Faroese Telecom	Telecom	Active															595.1	602.2	e	e	e	e	a	e	e	e	e	e	d	e	e		
Mainland - Orkney Hoy (SSE)	SSEN	Power	Active															595.5	602.4	e	e	e	e	a	e	e	e	e	e	d	e	e		
Hoy - Orkney 2 (SSE)	SSEN	Power	Active															595.5	602.4	e	e	e	e	a	e	e	e	e	e	d	e	e		

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry - Subsea Cables

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	Decommissioning
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Name	Company	Type	Status	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
Hoy - Orney 3 (SSE)	SSEN	Power	Active															595.6	602.5	e	e	e	e	a	g	e	e	e	e	e	e	e
Hoy - Orkney 1 (SSE)	SSEN	Power	Active															595.6	602.5	e	e	e	e	a	g	e	e	e	e	e	e	e
Mainland - Orkney - Hoy North (SSE)	SSEN	Power	Active															595.6	602.5	e	e	e	e	a	g	e	e	e	e	e	e	e
Mainland Orkney - Graemsay (SSE)	SSEN	Power	Active															599.0	605.9	e	e	e	e	a	g	e	e	e	e	e	e	e
Holm of Grimbister (SSE)	SSEN	Power	Active															609.2	616.1	e	e	e	e	a	g	e	e	e	e	e	e	e
Orkney Mainland - Shapinsay (SSE)	SSEN	Power	Active															612.9	619.9	e	e	e	e	a	g	e	e	e	e	e	e	e
Shapinsay - Stronsay (SSE)	SSEN	Power	Active															618.7	625.7	e	e	e	e	a	g	e	e	e	e	e	e	e
Rousay - Orkney Mainland (SSE)	SSEN	Power	Active															621.4	628.4	e	e	e	e	a	g	e	e	e	e	e	e	e
Rousay - Orkney Mainland (Disused (SSE)	SSEN	Power	Disused															621.5	628.4	e	e	e	e	d	g	e	e	e	e	e	e	e
BT - HIE SEG 1.19	BT	Telecom	Active															621.6	628.6	e	e	e	e	a	g	e	e	e	e	e	e	e
Rousay - Wyre (SSE)	SSEN	Power	Active															623.6	630.6	e	e	e	e	a	g	e	e	e	e	e	e	e
Rousay - Egilsay	SSEN	Power	Active															626.7	633.6	e	e	e	e	a	g	e	e	e	e	e	e	e
Rousay - Westray (SSE)	SSE	Power	Active															629.9	636.9	e	e	e	e	a	g	e	e	e	e	e	e	e
Rousay Westray	SSE	Power	Disused															629.9	636.9	e	e	e	e	d	g	e	e	e	e	e	e	e
Sanday to Stronsay (SSE)	SSEN	Power	Active															632.7	639.8	e	e	e	e	a	g	e	e	e	e	e	e	e
Stronsay - Sanday (SSE)	SSEN	Power	Disused															632.9	640.0	e	e	e	e	d	g	e	e	e	e	e	e	e
Eday - Westray	SSE	Power	Active															633.5	640.5	e	e	e	e	a	g	e	e	e	e	e	e	e
Eday - Westray Disused	SSE	Power	Disused															633.5	640.6	e	e	e	e	d	g	e	e	e	e	e	e	e
Eday - Sanday (SSE)	SSEN	Power	Active															635.1	642.1	e	e	e	e	a	g	e	e	e	e	e	e	e
Westray - Papa Westray (SSE)	SSEN	Power	Active															643.7	650.6	e	e	e	e	a	g	e	e	e	e	e	e	e
Sanday - North Ronaldsay (SSE)	SSEN	Power	Active															651.6	658.7	e	e	e	e	a	g	e	e	e	e	e	e	e
Atlantic Crossing 1 (AC1) Seg A	CenturyLink	Telecom	Active															679.4	685.4	e	e	e	e	a	g	e	e	e	e	e	e	e
TAT 10B West Section	Deutsche Telekom AG	Telecom	Disused															691.9	698.5	e	e	e	e	d	g	e	e	e	e	e	e	e
Quad 204 FPSO (Power from Shore)	Unknown	Power	Proposed															746.5	753.6	e	e	e	e	d	g	e	e	e	e	e	e	e
Cambo (FPSO (Power from Shore)	Unknown	Power	Proposed															747.3	754.4	e	e	e	e	d	g	e	e	e	e	e	e	e
Rosebank FPSO (Power from Shore)	Unknown	Power	Proposed															747.7	754.8	e	e	e	e	c	g	e	e	e	e	e	e	e
Clair Oil Field (Power from Shore)	Unknown	Power	Proposed															756.9	764.1	e	e	e	e	d	g	e	e	e	e	e	e	e
Clift Sound (SSE)	SSEN	Power	Active															758.6	765.9	e	e	e	e	a	g	e	e	e	e	e	e	e
Shetland - Papa Stour (SSE)	SSEN	Power	Active															772.3	779.4	e	e	e	e	a	g	e	e	e	e	e	e	e
Papa Stour - Shetland (SSE)	SSEN	Power	Disused															772.3	779.4	e	e	e	e	d	g	e	e	e	e	e	e	e
CANTAT-3	Faroese Telecom	Telecom	Active															777.7	786.2	e	e	e	e	a	g	e	e	e	e	e	e	e
Magnus field (Power from Shore)	Unknown	Power	Proposed															782.5	789.8	e	e	e	e	d	g	e	e	e	e	e	e	e
DANICE SEG1 (Farice EHF)	Farice ehf	Telecom	Active															796.0	804.4	e	e	e	e	a	g	e	e	e	e	e	e	e
Shetland - Yell 1 (SSE)	SSEN	Power	Active															798.8	806.0	e	e	e	e	a	g	e	e	e	e	e	e	e
Shetland - Yell 2 (SSE)	SSEN	Power	Active															798.9	806.1	e	e	e	e	a	g	e	e	e	e	e	e	e

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Industry: O&G Pipelines

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g	No effect-receptor pathway: Screened out of assessment.

Pipeline name	Infrastructure Type	Representative group	Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033															
INTERCONNECTOR 2 SCOTLAND TO IRELAND IC2	PIPELINE	GAS NETWORKS IRELAND														0.5	2.7	b	b	e	a	a			a	a				
INTERCONNECTOR 1 SCOTLAND TO IRELAND IC1	PIPELINE	GAS NETWORKS IRELAND														4.2	10.6	b	b	e	a	a			a	a				
ISLE OF MAN CONTROL UMBILICAL (IOMCU)	UMBILICAL	GAS NETWORKS IRELAND														98.4	106.6	e	e	e	a	a			a	e				
ISLE OF MAN SPUR (IOMS)	PIPELINE	GAS NETWORKS IRELAND														98.9	107.0	e	e	e	a	a			a	e				
BELFAST LOUGH CROSSING (BLC)	PIPELINE	MUTUAL ENERGY LIMITED														98.9	104.8	e	e	e	a	a			a	e				
LARNE LOUGH CROSSING (LLC)	PIPELINE	MUTUAL ENERGY LIMITED														121.1	127.1	e	e	e	e	a			a	e				
SCOTLAND TO N IRELAND PIPELINE (SNIP)	PIPELINE	MUTUAL ENERGY LIMITED														123.1	129.1	e	e	e	e	a			a	e				
MILLOM PLEM TO MILLOM WEST	PIPELINE	HARBOUR ENERGY PLC														134.3	142.7	e	e	e	e	a			a	e				
MILLOM WEST TO MILLOM PLEM	PIPELINE	HARBOUR ENERGY PLC														134.3	142.7	e	e	e	e	a			a	e				
MILLOM PLEM TO MILLOM WELLHEAD Q1	UMBILICAL	HARBOUR ENERGY PLC														139.6	147.9	e	e	e	e	a			a	e				
MILLOM WELLHEAD Q1 TO MILLOM PLEM	PIPELINE	HARBOUR ENERGY PLC														139.6	147.9	e	e	e	e	a			a	e				
MILLOM PLEM TO MILLOM WELLHEAD Q3 CHEM	UMBILICAL	HARBOUR ENERGY PLC														139.6	147.9	e	e	e	e	a			a	e				
MILLOM WELLHEAD Q3 TO MILLOM PLEM	PIPELINE	HARBOUR ENERGY PLC														139.6	147.9	e	e	e	e	a			a	e				
MILLOM WELLHEAD Q2 TO MILLOM PLEM	PIPELINE	HARBOUR ENERGY PLC														139.6	147.9	e	e	e	e	a			a	e				
MILLOM PLEM TO MILLOM WELLHEAD Q2 CHEM	UMBILICAL	HARBOUR ENERGY PLC														139.6	147.9	e	e	e	e	a			a	e				
MILLOM PLEM TO DPPA	PIPELINE	HARBOUR ENERGY PLC														139.6	147.9	e	e	e	e	a			a	e				
MORECAMBE DPPA TO MILLOM PLEM	UMBILICAL	HARBOUR ENERGY PLC														139.6	147.9	e	e	e	e	a			a	e				
WELLHEAD R2 TO DALTON PLEM	PIPELINE	HARBOUR ENERGY PLC														140.6	148.6	e	e	e	e	a			a	e				
DALTON PLEM TO DALTON WELLHEAD R2	UMBILICAL	HARBOUR ENERGY PLC														140.6	148.6	e	e	e	e	a			a	e				
DALTON PLEM TO DALTON WELLHEAD R1	UMBILICAL	HARBOUR ENERGY PLC														140.8	148.9	e	e	e	e	a			a	e				
DALTON WELLHEAD R1 TO DALTON PLEM	PIPELINE	HARBOUR ENERGY PLC														140.8	148.9	e	e	e	e	a			a	e				
MORECAMBE DPPA TO DALTON PLEM	UMBILICAL	HARBOUR ENERGY PLC														140.8	148.9	e	e	e	e	a			a	e				
DALTON PLEM TO DPPA	PIPELINE	HARBOUR ENERGY PLC														140.9	148.9	e	e	e	e	a			a	e				
CONWY TO DOUGLAS OIL EXPORT	PIPELINE	ENI UK LIMITED														143.0	150.4	e	e	e	e	a			a	e				
DOUGLAS TO CONWY CONDENSATE INJECTION	PIPELINE	ENI UK LIMITED														143.0	150.4	e	e	e	e	a			a	e				
DOUGLAS TO CONWY UMBILICAL	UMBILICAL	ENI UK LIMITED														143.0	150.4	e	e	e	e	a			a	e				
DOUGLAS TO CONWY WATER INJECTION	PIPELINE	ENI UK LIMITED														143.0	150.4	e	e	e	e	a			a	e				
CALDER TO RIVERS ONSHORE TERMINAL	PIPELINE	HARBOUR ENERGY PLC														143.9	151.5	e	e	e	e	a			a	e				
RIVERS ONSHORE TERMINAL TO CALDER	PIPELINE	HARBOUR ENERGY PLC														143.9	151.5	e	e	e	e	a			a	e				
RHYL-DPPA IMPORT PRODUCTION FLEX PIPE	PIPELINE	SPIRIT ENERGY														145.0	153.3	e	e	e	e	a			a	e				
RHYL-DPPA CONTROL/CHEM INJ UMBILICAL	UMBILICAL	SPIRIT ENERGY														145.1	153.3	e	e	e	e	a			a	e				
NMT METHANOL	PIPELINE	SPIRIT ENERGY														145.1	153.3	e	e	e	e	a			a	e				
NMT TRUNKLINE	PIPELINE	SPIRIT ENERGY														145.1	153.3	e	e	e	e	a			a	e				
MORECAMBE CPP1 TO DP8	PIPELINE	SPIRIT ENERGY														147.1	155.1	e	e	e	e	a			a	e				
MORECAMBE DP8 TO CPP1	PIPELINE	SPIRIT ENERGY														147.2	155.2	e	e	e	e	a			a	e				
MORECAMBE CPP1 TO DP6	PIPELINE	SPIRIT ENERGY														147.3	155.1	e	e	e	e	a			a	e				
MORECAMBE DP6 TO CPP1	PIPELINE	SPIRIT ENERGY														147.3	155.2	e	e	e	e	a			a	e				
DOUGLAS TO CACM	PIPELINE	ENI UK LIMITED														149.2	156.8	e	e	e	e	a			a	e				
DOUGLAS TO HAMILTON NORTH	PIPELINE	ENI UK LIMITED														149.3	156.8	e	e	e	e	a			a	e				
HAMILTON NORTH TO DOUGLAS GAS LINE	PIPELINE	ENI UK LIMITED														149.3	156.8	e	e	e	e	a			a	e				
LENNOX TO DOUGLAS GAS LINE	PIPELINE	ENI UK LIMITED														149.3	156.9	e	e	e	e	a			a	e				
LENNOX TO DOUGLAS OIL LINE	PIPELINE	ENI UK LIMITED														149.4	156.9	e	e	e	e	a			a	e				
DOUGLAS TO LENNOX CHEM LINE	PIPELINE	ENI UK LIMITED														149.4	157.0	e	e	e	e	a			a	e				
MORECAMBE CPP1 TO DP4	PIPELINE	SPIRIT ENERGY														149.4	157.2	e	e	e	e	a			a	e				
DOUGLAS TO LENNOX CHEM LINE	PIPELINE	ENI UK LIMITED														149.5	157.0	e	e	e	e	a			a	e				
DOUGLAS TO LENNOX GAS LINE	PIPELINE	ENI UK LIMITED														149.5	157.0	e	e	e	e	a			a	e				
MORECAMBE DP4 TO CPP1	PIPELINE	SPIRIT ENERGY														149.5	157.2	e	e	e	e	a			a	e				
MORECAMBE CPP1 TO DP3	PIPELINE	SPIRIT ENERGY														149.5	157.2	e	e	e	e	a			a	e				
HAMILTON TO DOUGLAS GAS LINE	PIPELINE	ENI UK LIMITED														149.5	157.0	e	e	e	e	a			a	e				
SMT TRUNKLINE	PIPELINE	SPIRIT ENERGY														149.5	157.2	e	e	e	e	a			a	e				
DOUGLAS TO HAMILTON	PIPELINE	ENI UK LIMITED																												

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Pipeline name	Infrastructure Type	Representative group	Construction Period (orange outline denotes proposed development offshore construction period)														Distan ce to array area (km)	Distan ce to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
PRODUCTION B CEN-FPSO	PIPELINE	BP EXPLORATION														741.5	747.9	e	e	e	e	a	a	e		e	e	e	e		
UFS-15403	PIPELINE	BP EXPLORATION														741.5	747.9	e	e	e	e	a	a	e		e	e	e	e		
PL3246	PIPELINE	BP EXPLORATION														741.5	747.9	e	e	e	e	a	a	e		e	e	e	e		
UFS-18705	PIPELINE	BP EXPLORATION														741.6	747.9	e	e	e	e	a	a	e		e	e	e	e		
SCHIEHALLION FPSO TO CENTRAL GAS LIFT	PIPELINE	BP EXPLORATION														741.6	747.9	e	e	e	e	a	a	e		e	e	e	e		
PL3244	PIPELINE	BP EXPLORATION														741.6	747.9	e	e	e	e	a	a	e		e	e	e	e		
PL3241	PIPELINE	BP EXPLORATION														741.6	748.0	e	e	e	e	a	a	e		e	e	e	e		
SCHIEHALLION CENTRAL TO FPSO (U191921)	UMBILICAL	BP EXPLORATION														741.6	748.0	e	e	e	e	a	a	e		e	e	e	e		
PL3243	PIPELINE	BP EXPLORATION														741.6	748.0	e	e	e	e	a	a	e		e	d	e	e		
UUM-19701	PIPELINE	BP EXPLORATION														743.0	749.4	e	e	e	e	a	a	e		e	d	e	e		
UUM-19102	PIPELINE	BP EXPLORATION														743.0	749.4	e	e	e	e	a	a	e		e	d	e	e		
U101 - DUTA D30 TO ALLIGIN (UUM-14701)	UMBILICAL	BP EXPLORATION														743.1	749.4	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION FPSO TO NORTHWEST CTRL UMB	UMBILICAL	BP EXPLORATION														743.1	749.4	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION FPSO INFIELD (U193921)	UMBILICAL	BP EXPLORATION														743.3	749.7	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION FPSO INFIELD (U190921)	UMBILICAL	BP EXPLORATION														743.5	749.9	e	e	e	e	a	a	e		e	d	e	e		
UUM-19202	PIPELINE	BP EXPLORATION														743.6	749.9	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION FPSO TO NORTHWEST W1	PIPELINE	BP EXPLORATION														743.6	749.9	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION LOYAL TO FPSO GAS LIFT	PIPELINE	BP EXPLORATION														743.6	750.0	e	e	e	e	a	a	e		e	d	e	e		
UFS-11007	PIPELINE	BP EXPLORATION														743.8	750.1	e	e	e	e	a	a	e		e	d	e	e		
UFS-11016	PIPELINE	BP EXPLORATION														743.8	750.1	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION NORTH TO FPSO W1	PIPELINE	BP EXPLORATION														743.8	750.2	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION NORTHWEST TO FPSO	PIPELINE	BP EXPLORATION														743.8	750.2	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION LOYAL TO FPSO OIL PROD TEST	PIPELINE	BP EXPLORATION														743.8	750.2	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION LOYAL TO FPSO OIL PROD	PIPELINE	BP EXPLORATION														743.9	750.2	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION NORTH TO FPSO (U195921)	UMBILICAL	BP EXPLORATION														743.9	750.2	e	e	e	e	a	a	e		e	d	e	e		
PL3506	PIPELINE	BP EXPLORATION														743.9	750.3	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION FPSO TO NORTHWEST GAS LIFT	PIPELINE	BP EXPLORATION														743.9	750.3	e	e	e	e	a	a	e		e	d	e	e		
UFS-16305	PIPELINE	BP EXPLORATION														744.0	750.3	e	e	e	e	a	a	e		e	d	e	e		
UUM-19501	UMBILICAL	BP EXPLORATION														744.0	750.3	e	e	e	e	a	a	e		e	d	e	e		
PL3507	PIPELINE	BP EXPLORATION														744.0	750.3	e	e	e	e	a	a	e		e	d	e	e		
L103 - NORTH WEST TO ALLIGIN (UFS-14601)	PIPELINE	BP EXPLORATION														744.2	750.5	e	e	e	e	a	a	e		e	d	e	e		
L102 - NORTH WEST TO ALLIGIN (UFS-14501)	PIPELINE	BP EXPLORATION														744.2	750.5	e	e	e	e	a	a	e		e	d	e	e		
L101 - ALLIGIN TO LOYAL (UFS-14404)	PIPELINE	BP EXPLORATION														744.3	750.6	e	e	e	e	a	a	e		e	d	e	e		
UUM-13301	UMBILICAL	BP EXPLORATION														744.7	751.0	e	e	e	e	a	a	e		e	d	e	e		
PLU3504	UMBILICAL	BP EXPLORATION														744.7	751.0	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION LOYAL TO NORTH W1	PIPELINE	BP EXPLORATION														745.3	751.7	e	e	e	e	a	a	e		e	d	e	e		
SCHIEHALLION LOYAL TO NORTH (U195922)	UMBILICAL	BP EXPLORATION														745.4	751.7	e	e	e	e	a	a	e		e	d	e	e		
CLAIR GAS EXPORT	PIPELINE	BP EXPLORATION														791.1	798.0	e	e	e	e	a	a	e		e	d	e	e		
PL3184 CLAIR RIDGE 6INCH GAS EXPORT	PIPELINE	BP EXPLORATION														791.1	798.0	e	e	e	e	a	a	e		e	d	e	e		
NINIAN SHORT WATER CROSSING (PL10)	PIPELINE	ENQUEST PLC														793.6	800.8	e	e	e	e	a	a	e		e	d	e	e		
CORMORANT A TO SULLOM VOE	PIPELINE	TAQA EUROPA B.V.														796.6	803.8	e	e	e	e	a	a	e		e	d	e	e		
CLAIR TO SULLOM VOE	PIPELINE	BP EXPLORATION														798.2	805.0	e	e	e	e	a	a	e		e	d	e	e		
PL3183 CLAIR RIDGE BUNDLE	PIPELINE	BP EXPLORATION														798.4	805.2	e	e	e	e	a	a	e		e	d	e	e		
EOS	PIPELINE	ENQUEST PLC														798.6	805.8	e	e	e	e	a	a	e		e	d	e	e		
LAGGAN-TORMORE 2" SERVICE LINE	PIPELINE	TOTALENERGIES UPSTREAM UK LIMITED														799.2	806.3	e	e	e	e	a	a	e		e	d	e	e		
LAGGAN-TORMORE 8" MEG LINE	PIPELINE	TOTALENERGIES UPSTREAM UK LIMITED														799.2	806.3	e	e	e	e	a	a	e		e	d	e	e		
LAGGAN-TORMORE 18" FLOWLINE 2	PIPELINE	TOTALENERGIES UPSTREAM UK LIMITED														799.2	806.3	e	e	e	e	a	a	e		e	d	e	e		
LAGGAN-TORMORE 18" FLOWLINE 1	PIPELINE	TOTALENERGIES UPSTREAM UK LIMITED														799.2	806.3	e	e	e	e	a	a	e		e	d	e	e		
LAGGAN-TORMORE UMBILICAL	UMBILICAL	TOTALENERGIES UPSTREAM UK LIMITED														799.2	806.3	e	e	e	e	a	a	e		e	d	e	e		
EDRADOUR UMBILICAL (from LAGGAN)	UMBILICAL	TOTALENERGIES UPSTREAM UK LIMITED							</																						

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			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
LYELL WELL B1(BC) PRODUCTION JUMPER	PIPELINE	CNR INTERNATIONAL															903.4	911.0	e	e	e	e	a		a	e		e	e	e	
LYELL WELL B2(BA) PRODUCTION JUMPER	PIPELINE	CNR INTERNATIONAL															903.4	911.0	e	e	e	e	a		a	e		e	e	e	
CHEMICAL UMBILICAL JUMPER TO LYELL WELL B4(BD)	UMBILICAL	CNR INTERNATIONAL															903.4	911.0	e	e	e	e	a		a	e		e	e	e	
GAS LIFT JUMPER TO LYELL WELL B4(BD)	PIPELINE	CNR INTERNATIONAL															903.4	911.0	e	e	e	e	a		a	e		e	e	e	
POWER UMBILICAL JUMPER TO LYELL WELL B4(BD)	UMBILICAL	CNR INTERNATIONAL															903.4	911.0	e	e	e	e	a		a	e		e	e	e	
LYELL WELL B4(BD) PRODUCTION JUMPER	PIPELINE	CNR INTERNATIONAL															903.4	911.0	e	e	e	e	a		a	e		e	e	e	
LYELL METHANOL INJECTION SPOOLS (MANIFOLD B TO MANIFOLD A)	PIPELINE	CNR INTERNATIONAL															903.5	911.1	e	e	e	e	a		a	e		e	d	e	
MANIFOLD A TO MANIFOLD B SERVICE UMBILICAL	UMBILICAL	CNR INTERNATIONAL															903.5	911.1	e	e	e	e	a		a	e		e	d	e	
LYELL PRODUCTION MANIFOLD B TO MANIFOLD A	PIPELINE	CNR INTERNATIONAL															903.5	911.1	e	e	e	e	a		a	e		e	d	e	
LYELL PRODUCTION MANIFOLD B TO MULTIPHASE BOOSTER PUMP	PIPELINE	CNR INTERNATIONAL															903.5	911.1	e	e	e	e	a		a	e		e	d	e	
LYELL PRODUCTION MANIFOLD B TO METERING SKID	PIPELINE	CNR INTERNATIONAL															903.5	911.1	e	e	e	e	a		a	e		e	d	e	
LYELL MULTIPHASE BOOSTER PUMP TO MANIFOLD B UMBILICAL	UMBILICAL	CNR INTERNATIONAL															903.5	911.1	e	e	e	e	a		a	e		e	e	e	
LYELL TEST PIPELINE MANIFOLD SPOOLS	PIPELINE	CNR INTERNATIONAL															903.5	911.1	e	e	e	e	a		a	e		e	d	e	
MAGNUS TO NINIAN	PIPELINE	ENQUEST PLC															905.2	912.8	e	e	e	e	a		a	e		e	d	e	
CORMORANT A - P1 ROCK DUMP	ROCK DUMP	TAQA EUROPA B.V.															910.6	918.2	e	e	e	e	a		a	e		e	d	e	
TERN - CLADHAN MANIFOLD CONTROL UMBILICAL	UMBILICAL	TAQA EUROPA B.V.															914.4	921.9	e	e	e	e	a		a	e		e	d	e	
TERN - CLADHAN MANIFOLD CONTROL UMBILICAL	ROCK DUMP	TAQA EUROPA B.V.															914.4	921.9	e	e	e	e	a		a	e		e	d	e	
10 INCH CLADHAN PRODUCTION PIPELINE	PIPELINE	TAQA EUROPA B.V.															914.4	921.9	e	e	e	e	a		a	e		e	d	e	
10 INCH CLADHAN PRODUCTION PIPELINE	ROCK DUMP	TAQA EUROPA B.V.															914.4	921.9	e	e	e	e	a		a	e		e	d	e	
10 INCH CLADHAN WATER INJECTION PIPELINE	PIPELINE	TAQA EUROPA B.V.															914.4	921.9	e	e	e	e	a		a	e		e	d	e	
10 INCH CLADHAN WATER INJECTION PIPELINE	ROCK DUMP	TAQA EUROPA B.V.															914.4	921.9	e	e	e	e	a		a	e		e	d	e	
4 INCH CLADHAN GAS LIFT PIPELINE	PIPELINE	TAQA EUROPA B.V.															914.5	921.9	e	e	e	e	a		a	e		e	d	e	
4 INCH CLADHAN GAS LIFT PIPELINE	ROCK DUMP	TAQA EUROPA B.V.															914.5	921.9	e	e	e	e	a		a	e		e	d	e	
CORMORANT P1 WELL TO CORMORANT A LINE B	ROCK DUMP	TAQA EUROPA B.V.															916.9	924.4	e	e	e	e	a		a	e		e	d	e	
CORMORANT P1 WELL TO CORMORANT A LINE B	PIPELINE	TAQA EUROPA B.V.															916.9	924.4	e	e	e	e	a		a	e		e	d	e	
CORMORANT A TO P1 WELL E UMB	ROCK DUMP	TAQA EUROPA B.V.															917.0	924.5	e	e	e	e	a		a	e		e	d	e	
CORMORANT A TO P1 WELL E UMB	UMBILICAL	TAQA EUROPA B.V.															917.0	924.5	e	e	e	e	a		a	e		e	d	e	
CORMORANT P1 WELL TO CORMORANT A LINE A	ROCK DUMP	TAQA EUROPA B.V.															917.1	924.6	e	e	e	e	a		a	e		e	d	e	
CORMORANT P1 WELL TO CORMORANT A LINE A	PIPELINE	TAQA EUROPA B.V.															917.1	924.6	e	e	e	e	a		a	e		e	d	e	
CORMORANT A TO P1 WELL M/H UMB	ROCK DUMP	TAQA EUROPA B.V.															917.1	924.6	e	e	e	e	a		a	e		e	d	e	
CORMORANT A TO P1 WELL M/H UMB	UMBILICAL	TAQA EUROPA B.V.															917.1	924.6	e	e	e	e	a		a	e		e	d	e	
CORMORANT P1 WELL TO CORMORANT A	PIPELINE	TAQA EUROPA B.V.															917.2	924.8	e	e	e	e	a		a	e		e	d	e	
DUNLIN OIL EXPORT	PIPELINE	FAIRFIELD ENERGY LIMITED															918.1	925.6	e	e	e	e	a		a	e		e	e	e	
DUNLIN OIL EXPORT	ROCK DUMP	FAIRFIELD ENERGY LIMITED															918.1	925.6	e	e	e	e	a		a	e		e	e	e	
WESTERN ISLES GAS PIPELINE	PIPELINE	KOREA NATIONAL OIL CORPORATION															920.2	927.7	e	e	e	e	a		a	e		e	d	e	
TERN TO HUDSON CHEM INJ (PL1023.26)	UMBILICAL	TAQA EUROPA B.V.															923.2	930.6	e	e	e	e	a		a	e		e	d	e	
TERN TO HUDSON CHEM INJ (PL1023.27)	UMBILICAL	TAQA EUROPA B.V.															923.2	930.6	e	e	e	e	a		a	e		e	d	e	
TERN TO HUDSON CHEM INJ (PL1023)	PIPELINE	TAQA EUROPA B.V.															923.2	930.6	e	e	e	e	a		a	e		e	d	e	
TERN TO HUDSON GAS LINE	PIPELINE	TAQA EUROPA B.V.															923.2	930.7	e	e	e	e	a		a	e		e	d	e	
HUDSON MANIFOLD GAS LIFT L2	PIPELINE	TAQA EUROPA B.V.															923.2	930.7	e	e	e	e	a		a	e		e	d	e	
HUDSON MANIFOLD PRODUCTION L2 (PL1025)	PIPELINE	TAQA EUROPA B.V.															923.2	930.7	e	e	e	e	a		a	e		e	d	e	
HUDSON MANIFOLD GAS LIFT L1	PIPELINE	TAQA EUROPA B.V.															923.2	930.7	e	e	e	e	a		a	e		e	d	e	
HUDSON MANIFOLD PRODUCTION L1 (PL1024)	PIPELINE	TAQA EUROPA B.V.															923.2	930.7	e	e	e	e	a		a	e		e	d	e	
HUDSON L2 TO MANIFOLD	PIPELINE	TAQA EUROPA B.V.															923.2	930.7	e	e	e	e	a		a	e		e	d	e	
TERN TO HUDSON LINE (PL1020)	PIPELINE	TAQA EUROPA B.V.															923.2	930.7	e	e	e	e	a		a	e		e	d	e	
HUDSON L1 TO MANIFOLD	PIPELINE	TAQA EUROPA B.V.															923.2	930.7	e	e	e	e	a		a	e		e	d	e	
TERN TO HUDSON (PL1019)	PIPELINE	TAQA EUROPA B.V.															923.2	930.7	e	e	e	e	a		a	e		e	d	e	
HUDSON P2 TO TERN	PIPELINE	TAQA EUROPA B.V.															923.3	930.7	e	e	e	e	a		a	e		e	d	e	
TERN TO HUDSON LINE	PIPELINE	TAQA EUROPA B.V.																													

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			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034														
NORTH CORMORANT TO EIDER A	UMBILICAL	TAQA EUROPA B.V.															932.9	940.4	e	e	e	e	a		e	a	e		e	
4" GAS LIFT BRENT C - PENGUINS DC2	PIPELINE	SHELL PLC															935.0	942.6	e	e	e	e	a		e	a	e		e	
CONTROL UMBILICAL BRENT C - SSIV	UMBILICAL	SHELL PLC															935.0	942.6	e	e	e	e	a		e	a	e		e	
16" GAS RISER BASE MANIFOLD TOWHEAD - N0513 (PL1902) TIE-IN	PIPELINE	SHELL PLC															935.1	942.7	e	e	e	e	a		e	a	e		e	
KESTREL P1 TO KESTREL P2 OIL JUMPER	PIPELINE	TAQA EUROPA B.V.															936.7	944.2	e	e	e	e	a		e	a	e		e	
KESTREL P1 TO KESTREL P2 UMB	UMBILICAL	TAQA EUROPA B.V.															936.7	944.2	e	e	e	e	a		e	a	e		e	
KESTREL P1 TO KESTREL P2 GAS LIFT	PIPELINE	TAQA EUROPA B.V.															936.7	944.2	e	e	e	e	a		e	a	e		e	
KESTREL P2 TO KESTREL W1	UMBILICAL	TAQA EUROPA B.V.															936.7	944.2	e	e	e	e	a		e	a	e		e	
FALCON TO KESTREL 6INCH PRODUCTION LINE	PIPELINE	TAQA EUROPA B.V.															936.7	944.2	e	e	e	e	a		e	a	e		e	
FALCON TO KESTREL 4INCH GAS LIFT LINE	PIPELINE	TAQA EUROPA B.V.															936.7	944.2	e	e	e	e	a		e	a	e		e	
FALCON TO KESTREL CONTROL UMBILICAL	UMBILICAL	TAQA EUROPA B.V.															936.7	944.2	e	e	e	e	a		e	a	e		e	
TERN EIDER W1 TEE TO KESTREL W1	PIPELINE	TAQA EUROPA B.V.															936.8	944.3	e	e	e	e	a		e	a	e		e	
FIONN P2 AND P1 PIPELINE TEE	PIPELINE	ITHACA ENERGY															938.9	946.4	e	e	e	e	a		e	a	e		e	
CAUSEWAY INFIELD CONTROL FROM P1 TO W1	UMBILICAL	ITHACA ENERGY															942.5	950.1	e	e	e	e	a		e	a	e		e	
PL3132 10INCH WI EIDER TO OTTER	PIPELINE	TAQA EUROPA B.V.															944.4	951.8	e	e	e	e	a		e	a	e		e	
PL3132 10INCH WI EIDER TO OTTER	ROCK DUMP	TAQA EUROPA B.V.															944.4	951.8	e	e	e	e	a		e	a	e		e	
OTTER TO EIDER REPLACEMENT SECTION	ROCK DUMP	TAQA EUROPA B.V.															944.4	951.9	e	e	e	e	a		e	a	e		e	
OTTER TO EIDER REPLACEMENT SECTION	PIPELINE	TAQA EUROPA B.V.															944.4	951.9	e	e	e	e	a		e	a	e		e	
OTTER POWER CABLE P3	ROCK DUMP	TAQA EUROPA B.V.															944.4	951.9	e	e	e	e	a		e	a	e		e	
OTTER POWER CABLE P3	UMBILICAL	TAQA EUROPA B.V.															944.4	951.9	e	e	e	e	a		e	a	e		e	
OTTER POWER CABLE P2	UMBILICAL	TAQA EUROPA B.V.															944.4	951.9	e	e	e	e	a		e	a	e		e	
OTTER POWER CABLE P2	ROCK DUMP	TAQA EUROPA B.V.															944.4	951.9	e	e	e	e	a		e	a	e		e	
OTTER POWER CABLE P1	UMBILICAL	TAQA EUROPA B.V.															944.5	951.9	e	e	e	e	a		e	a	e		e	
OTTER POWER CABLE P1	ROCK DUMP	TAQA EUROPA B.V.															944.5	951.9	e	e	e	e	a		e	a	e		e	
EIDER TO OTTER UMB	UMBILICAL	TAQA EUROPA B.V.															944.5	951.9	e	e	e	e	a		e	a	e		e	
EIDER TO OTTER WI	ROCK DUMP	TAQA EUROPA B.V.															944.6	952.0	e	e	e	e	a		e	a	e		e	
EIDER TO OTTER WI	PIPELINE	TAQA EUROPA B.V.															944.6	952.0	e	e	e	e	a		e	a	e		e	
OTTER TO EIDER	PIPELINE	TAQA EUROPA B.V.															944.6	952.1	e	e	e	e	a		e	a	e		e	
OTTER TO EIDER	ROCK DUMP	TAQA EUROPA B.V.															944.6	952.1	e	e	e	e	a		e	a	e		e	
MERLIN OIL PRODUCTION LINE	PIPELINE	FAIRFIELD ENERGY LIMITED															946.7	954.2	e	e	e	e	a		e	a	e		e	
MERLIN OIL PRODUCTION LINE	ROCK DUMP	FAIRFIELD ENERGY LIMITED															946.7	954.2	e	e	e	e	a		e	a	e		e	
MERLIN CONTROL UMBILICAL	UMBILICAL	FAIRFIELD ENERGY LIMITED															946.7	954.2	e	e	e	e	a		e	a	e		e	
DUNLIN FUEL GAS IMPORT SSIV UMBILICAL	BERM	FAIRFIELD ENERGY LIMITED															948.2	955.8	e	e	e	e	a		e	a	e		e	
OSPREY CONTROL UMBILICAL	UMBILICAL	FAIRFIELD ENERGY LIMITED															948.3	955.8	e	e	e	e	a		e	a	e		e	
OSPREY CONTROL UMBILICAL	BERM	FAIRFIELD ENERGY LIMITED															948.3	955.8	e	e	e	e	a		e	a	e		e	
OSPREY CONTROL UMBILICAL	ROCK DUMP	FAIRFIELD ENERGY LIMITED															948.3	955.8	e	e	e	e	a		e	a	e		e	
OSPREY REPLACEMENT CONTROL UMBILICAL	UMBILICAL	FAIRFIELD ENERGY LIMITED															948.3	955.9	e	e	e	e	a		e	a	e		e	
OSPREY REPLACEMENT CONTROL UMBILICAL	ROCK DUMP	FAIRFIELD ENERGY LIMITED															948.3	955.9	e	e	e	e	a		e	a	e		e	
OSPREY WATER INJECTION	PIPELINE	FAIRFIELD ENERGY LIMITED															948.3	955.9	e	e	e	e	a		e	a	e		e	
OSPREY WATER INJECTION	ROCK DUMP	FAIRFIELD ENERGY LIMITED															948.3	955.9	e	e	e	e	a		e	a	e		e	
OSPREY WATER INJECTION	BERM	FAIRFIELD ENERGY LIMITED															948.3	955.9	e	e	e	e	a		e	a	e		e	
OSPREY OIL PRODUCTION LINE	PIPELINE	FAIRFIELD ENERGY LIMITED															948.3	955.9	e	e	e	e	a		e	a	e		e	
OSPREY OIL TEST LINE	PIPELINE	FAIRFIELD ENERGY LIMITED															948.3	955.9	e	e	e	e	a		e	a	e		e	
16 INCH THISTLE TO DUNLIN PIPELINE	PIPELINE	ENQUEST PLC															948.3	955.9	e	e	e	e	a		e	a	e		e	
MURCHISON OIL EXPORT PIPELINE	PIPELINE	CNR INTERNATIONAL															948.4	956.0	e	e	e	e	a		e	a	e		e	
DUNLIN FUEL GAS IMPORT PIPELINE	PIPELINE	FAIRFIELD ENERGY LIMITED															948.4	956.0	e	e	e	e	a		e	a	e		e	
DUNLIN FUEL GAS IMPORT PIPELINE	BERM	FAIRFIELD ENERGY LIMITED															948.4	956.0	e	e	e	e	a		e	a	e		e	
DUNLIN FUEL GAS IMPORT PIPELINE	ROCK DUMP	FAIRFIELD ENERGY LIMITED															948.4	956.0	e	e	e	e	a		e	a	e		e	
OSPREY W1 CONTROL UMBILICAL	UMBILICAL	FAIRFIELD ENERGY LIMITED															951.6	959.2	e	e	e	e	a		e	a	e		e	
NPR TO THISTLE OIL EXPORT	PIPELINE	ENQUEST PLC															956.3	963.8	e	e	e	e	a		e	a	e		e	
UMBL	UMBILICAL	BP EXPLORATION															956.3	963.8	e	e	e	e	a		e	a	e		e	
THISTLE TO DON OIL LINE	PIPELINE	BP EXPLORATION															956.3	963.9	e	e	e	e	a		e	a	e		e	
THISTLE TO DON W1	PIPELINE	BP EXPLORATION															956.3	963.9	e	e	e	e	a		e	a	e		e	
THISTLE TO MURCHISON SPUR (NLGP)	PIPELINE	ENQUEST PLC															956.3	963.9	e	e	e	e	a		e	a	e		e	
THISTLE A TO S-A-L-M	PIPELINE	ENQUEST PLC															956.4	963.9	e	e	e	e	a		e	a	e		e	
THISTLE A TO SALM	PIPELINE	ENQUEST PLC															956.4	963.9	e	e	e	e	a		e	a	e		e	
THISTLE SSIV UMBILICAL	UMBILICAL	ENQUEST PLC															956.4	964.0	e	e	e	e	a		e	a	e		e	
THISTLE FIELD 8IN PROD FLOWLINE	PIPELINE	ENQUEST PLC															961.5	969.0	e	e	e	e	a		e	a	e		e	
NPR TO THISTLE GAS EXPORT	PIPELINE	ENQUEST PLC															961.5	969.0	e	e	e	e	a		e	a	e		e	
MURCHISON TO NLGP TO THE T1B SSIV	UMBILICAL	BP EXPLORATION															962.2	969.7	e	e	e	e	a		e	a	e		e	
MURCHISON TO MS-2(211/19-2) I	PIPELINE	CNR INTERNATIONAL															964.0	971.5	e	e	e	e	a		e	a	e		e	
MURCHISON WATER INJECTION BUNDLE	PIPELINE	CNR INTERNATIONAL															964.0	971.6	e	e	e	e	a		e	a	e		e	
MURCHISON PRODUCTION BUNDLE	PIPELINE	CNR INTERNATIONAL															964.0	971.6	e	e	e	e	a		e	a	e		e	
PL4261	PIPELINE	ENQUEST PLC															964.8	972.3	e	e	e	e	a		e	a	e		e	
NPR TO WD GAS LIFT	PIPELINE	ENQUEST PLC															964.8	972.3	e	e	e	e	a		e	a	e		e	

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			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
NPR TO WD PRODUCTION	PIPELINE	ENQUEST PLC															964.8	972.3	e	e	e	e	a		a	e					e
MAGNUS S PROD WELL TO MAGNUS S	PIPELINE	ENQUEST PLC															964.8	972.3	e	e	e	e	a		a	e					e
NPR TO WD UMBILICAL	UMBILICAL	ENQUEST PLC															964.9	972.4	e	e	e	e	a		a	e					e
NPR TO WD WATER INJECTION	PIPELINE	ENQUEST PLC															964.9	972.4	e	e	e	e	a		a	e					e
MAGNUS TO SOUTH MAGNUS	PIPELINE	ENQUEST PLC															964.9	972.3	e	e	e	e	a		a	e					e
DON SOUTHWEST GAS LIFT	PIPELINE	ENQUEST PLC															965.1	972.6	e	e	e	e	a		a	e					e
DON SOUTHWEST PRODUCTION	PIPELINE	ENQUEST PLC															965.1	972.6	e	e	e	e	a		a	e					e
DON DYNAMIC UMBILICAL	UMBILICAL	ENQUEST PLC															965.1	972.6	e	e	e	e	a		a	e					e
DON SOUTHWEST WATER INJECTION	PIPELINE	ENQUEST PLC															965.1	972.7	e	e	e	e	a		a	e					e
NPR TO DSW UMBILICAL	UMBILICAL	ENQUEST PLC															965.1	972.7	e	e	e	e	a		a	e					e
NPR TO DSW WATER INJECTION	PIPELINE	ENQUEST PLC															965.1	972.7	e	e	e	e	a		a	e					e
DON SOUTH WEST WATER INJECTION UMBILICAL	UMBILICAL	ENQUEST PLC															965.1	972.7	e	e	e	e	a		a	e					e
PL4262	PIPELINE	ENQUEST PLC															965.2	972.7	e	e	e	e	a		a	e					e
MAGNUS PRODUCTION FLOWLINE	PIPELINE	ENQUEST PLC															967.6	975.1	e	e	e	e	a		a	e					e
MAGNUS INFELD FLOWLINE B	PIPELINE	ENQUEST PLC															969.0	976.5	e	e	e	e	a		a	e					e
UMBIL - MAGUA	UMBILICAL	ENQUEST PLC															969.9	977.4	e	e	e	e	a		a	e					e
MAGNUS INFELD FLOWLINE A	PIPELINE	ENQUEST PLC															969.9	977.4	e	e	e	e	a		a	e					e
MOL REPLACEMENT PIPELINE (PART)	PIPELINE	ENQUEST PLC															970.2	977.7	e	e	e	e	d		a	e					e
MAGNUS INFELD FLOWLINE C	PIPELINE	ENQUEST PLC															970.7	978.2	e	e	e	e	a		a	e					e
MAGNUS TO D5A WELLHEAD	PIPELINE	ENQUEST PLC															970.7	978.2	e	e	e	e	a		a	e					e
MAGNUS INFELD FLOWLINE D	PIPELINE	ENQUEST PLC															972.1	979.6	e	e	e	e	a		a	e					e
MAGNUS TO SWIFT CONTROL UMB	UMBILICAL	ENQUEST PLC															973.8	981.3	e	e	e	e	a		a	e					e
MAGNUS TO SWIFT WI WELL	PIPELINE	ENQUEST PLC															973.8	981.3	e	e	e	e	a		a	e					e
MAGNUS INFELD FLOWLINE F	PIPELINE	ENQUEST PLC															973.9	981.3	e	e	e	e	a		a	e					e
MAGNUS TO D4A WELLHEAD	PIPELINE	ENQUEST PLC															973.9	981.3	e	e	e	e	a		a	e					e
MAGNUS INFELD FLOWLINE G	PIPELINE	ENQUEST PLC															973.9	981.4	e	e	e	e	a		a	e					e
MAGNUS INFELD FLOWLINE E	PIPELINE	ENQUEST PLC															973.9	981.4	e	e	e	e	a		a	e					e
16"/22" OIL PIPE IN PIPE PENGUIN DC4 - PENGUIN DC5	PIPELINE	SHELL PLC															974.5	982.1	e	e	e	e	a		a	e					e
UMBILICAL PENGUINS SCS5 - PENGUINS DC5	UMBILICAL	SHELL PLC															974.5	982.1	e	e	e	e	a		a	e					e
6" OIL PENGUINS DC5 - WELL D3	PIPELINE	SHELL PLC															974.5	982.1	e	e	e	e	a		a	e					e
6" OIL PENGUINS WELL E1 - DC5 MANIFOLD	PIPELINE	SHELL PLC															974.5	982.1	e	e	e	e	a		a	e					e
6" OIL DC5 MANIFOLD - WELL D4	PIPELINE	SHELL PLC															974.5	982.1	e	e	e	e	d		a	e					e
UMBILICAL PENGUIN DC5 UCS - WELL D3	UMBILICAL	SHELL PLC															974.5	982.1	e	e	e	e	a		a	e					e
6" OIL PENGUINS DC5 - WELL D2	PIPELINE	SHELL PLC															974.5	982.1	e	e	e	e	a		a	e					e
UMBILICAL DC5 UCS - DC5 MANIFOLD	UMBILICAL	SHELL PLC															974.5	982.1	e	e	e	e	d		a	e					e
UMBILICAL PENGUINS SCS5 - WELL D2	UMBILICAL	SHELL PLC															974.6	982.1	e	e	e	e	a		a	e					e
UMBILICAL PENGUIN SCS5 - WELL E1	UMBILICAL	SHELL PLC															974.6	982.1	e	e	e	e	a		a	e					e
UMBILICAL DC5 SCS - WELL D4	UMBILICAL	SHELL PLC															974.6	982.1	e	e	e	e	d		a	e					e
CONTROL UMBILICAL PENGUINS DC5 UCS - DC4 UCS	UMBILICAL	SHELL PLC															974.6	982.2	e	e	e	e	a		a	e					e
4" GAS LIFT PENGUINS DC4 DBBY SKID - DC4 MANIFOLD	PIPELINE	SHELL PLC															976.3	983.8	e	e	e	e	a		a	e					e
6" OIL DC4 MANIFOLD - ROCKHOPPER WELL	PIPELINE	SHELL PLC															976.4	983.9	e	e	e	e	d		a	e					e
UMBILICAL DC4 MANIFOLD - ROCKHOPPER WELL	UMBILICAL	SHELL PLC															976.4	983.9	e	e	e	e	d		a	e					e
2" GAS LIFT DC4 MANIFOLD - ROCKHOPPER WELL	PIPELINE	SHELL PLC															976.4	983.9	e	e	e	e	d		a	e					e
16"/22" OIL PIPE IN PIPE PENGUIN DC3 - PENGUIN DC4	PIPELINE	SHELL PLC															976.4	983.9	e	e	e	e	a		a	e					e
UMBILICAL PENGUINS SCS4 - PENGUINS DC4	UMBILICAL	SHELL PLC															976.4	983.9	e	e	e	e	a		a	e					e
6" OIL PENGUINS DC4 - PENGUINS WELL D1	PIPELINE	SHELL PLC															976.4	983.9	e	e	e	e	a		a	e					e
2" GAS LIFT PENGUINS DC4 - PENGUINS WELL C2	PIPELINE	SHELL PLC															976.4	983.9	e	e	e	e	a		a	e					e
6" OIL PENGUINS DC4 - PENGUINS WELL C2	PIPELINE	SHELL PLC															976.4	983.9	e	e	e	e	a		a	e					e
UMBILICAL DC4 UCS - DC4 MANIFOLD	UMBILICAL	SHELL PLC															976.4	983.9	e	e	e	e	d		a	e					e
UMBILICAL PENGUINS SCS4 - PENGUINS WELL D1	UMBILICAL	SHELL PLC															976.4	983.9	e	e	e	e	a		a	e					e
UMBILICAL PENGUINS SCS4 - PENGUINS WELL C2	UMBILICAL	SHELL PLC															976.4	983.9	e	e	e	e	a		a	e					e
CONTROL UMBILICAL PENGUINS DC4 UCS - DC3 UCS	UMBILICAL	SHELL PLC															976.5	984.0	e	e	e	e	a		a	e					e
6" GAS LIFT PENGUINS FPSO - DC7 MANIFOLD TOWHEAD	PIPELINE	SHELL PLC															976.7	984.2	e	e	e	e	d		a	e					e
6" GAS LIFT PENGUINS FPSO - DC7 MANIFOLD TOWHEAD	PIPELINE	SHELL PLC															976.7	984.2	e	e	e	e	d		a	e					e
16" OIL (SOUTH PRODUCTION) PENGUINS FPSO - MIDLINE STRUCTURE MS1	PIPELINE	SHELL PLC															976.7	984.2	e	e	e	e	a		a	e					e
16" OIL (SOUTH PRODUCTION) PENGUINS FPSO - MIDLINE STRUCTURE MS1	PIPELINE	SHELL PLC															976.7	984.2	e	e	e	e	d		a	e					e
12" OIL (NORTH PRODUCTION) PENGUINS FPSO - MIDLINE STRUCTURE MS1	PIPELINE	SHELL PLC															976.7	984.2	e	e	e	e	a		a	e					e
12" OIL (NORTH PRODUCTION) PENGUINS FPSO - MIDLINE STRUCTURE MS1	PIPELINE	SHELL PLC															976.7	984.2	e	e	e	e	d		a	e					e
10" GAS EXPORT RISER PENGUINS FPSO - DC5 MANIFOLD	PIPELINE	SHELL PLC															976.7	984.2	e	e	e	e	d		a	e					e
UMBILICAL (2 OF 2) PENGUINS FPSO - MIDLINE STRUCTURE MS1	UMBILICAL	SHELL PLC															976.7	984.2	e	e	e	e	a		a	e					e
UMBILICAL (2 OF 2) PENGUINS FPSO - MIDLINE STRUCTURE MS1	UMBILICAL	SHELL PLC															976.7	984.2	e	e	e	e	d		a	e					e
UMBILICAL (1 OF 2) PENGUINS FPSO - MIDLINE STRUCTURE MS1	UMBILICAL	SHELL PLC															976.7	984.2	e	e	e	e	a		a	e					e
UMBILICAL (1 OF 2) PENGUINS FPSO - MIDLINE STRUCTURE MS1	UMBILICAL	SHELL PLC															976.7	984.2	e	e	e	e	d		a	e					e
47" CARRIER FPSO BUNDLE (S) RISER BASE MANIFOLD TOWHEAD - MIDLINE STRUCTURE MS1	PIPELINE	SHELL PLC															977.0	984.5	e	e	e	e	a		a	e					e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: O&G Pipelines

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

a	Included as part of the topic baseline and hence not considered within the cumulative impact assessment
b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
c	Potential cumulative impact exists: Screened in to assessment.
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g	No effect-receptor pathway: Screened out of assessment.

Pipeline name	Infrastructure Type	Representative group	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
10"/16" OIL PIPE IN PIPE PENGUIN DC2 - PENGUIN DC3	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	a	a	e	a	e	d	a	e		
10" OIL MIDLINE STRUCTURE MS1 - DC3 MANIFOLD	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	d	a	e	a	e	d	a	e		
4" GAS LIFT MIDLINE STRUCTURE MS1 - DC3 MANIFOLD	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	d	a	e	a	e	d	a	e		
14" OIL MIDLINE STRUCTURE MS1 - DC3 MANIFOLD	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL PENGUINS SCS3 - PENGUINS DC3	UMBILICAL	SHELL PLC														979.0	986.5	e	e	e	e	a	a	e	a	e	d	a	e		
2" GAS LIFT PENGUINS DC3 - PENGUINS WELL C1	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	a	a	e	a	e	d	a	e		
6" OIL PENGUINS DC3 - PENGUINS WELL C1	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	a	a	e	a	e	d	a	e		
2" GAS LIFT PENGUINS DC3 - PENGUINS WELL C3	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	a	a	e	a	e	d	a	e		
6" OIL PENGUINS DC3 - PENGUINS WELL C3	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	a	a	e	a	e	d	a	e		
UMBILICAL DC3 UCS - DC3 MANIFOLD	UMBILICAL	SHELL PLC														979.0	986.5	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL PENGUINS SCS3 - PENGUINS WELL C1	UMBILICAL	SHELL PLC														979.0	986.5	e	e	e	e	a	a	e	a	e	d	a	e		
UMBILICAL PENGUINS SCS3- PENGUINS WELL C3	UMBILICAL	SHELL PLC														979.0	986.5	e	e	e	e	a	a	e	a	e	d	a	e		
UMBILICAL MIDLINE STRUCTURE MS1 - DC3 UCS	UMBILICAL	SHELL PLC														979.0	986.5	e	e	e	e	d	a	e	a	e	d	a	e		
14" OIL MIDLINE STRUCTURE MS1 - DC7 MANIFOLD TOWHEAD	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	d	a	e	a	e	d	a	e		
38" CARRIER FPSO BUNDLE (N) MIDLINE STRUCTURE MS1 - DC7 MANIFOLD TOWHEAD	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL MIDLINE STRUCTURE MS1 - DC7 MANIFOLD TOWHEAD	PIPELINE	SHELL PLC														979.0	986.5	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL MIDLINE STRUCTURE MS1 - DC7 MANIFOLD TOWHEAD	UMBILICAL	SHELL PLC														979.0	986.5	e	e	e	e	d	a	e	a	e	d	a	e		
CONTROL UMBILICAL PENGUINS DC3 UCS - DC2 UCS	UMBILICAL	SHELL PLC														979.1	986.6	e	e	e	e	a	a	e	a	e	d	a	e		
UMBILICAL DC7 MANIFOLD TOWHEAD - C-TRIASSIC WELL	UMBILICAL	SHELL PLC														979.3	986.8	e	e	e	e	d	a	e	a	e	d	a	e		
6" OIL DC7 MANIFOLD TOWHEAD - C-TRIASSIC WELL	PIPELINE	SHELL PLC														979.3	986.8	e	e	e	e	d	a	e	a	e	d	a	e		
2" GAS LIFT DC7 MANIFOLD TOWHEAD - C-TRIASSIC WELL	PIPELINE	SHELL PLC														979.3	986.8	e	e	e	e	d	a	e	a	e	d	a	e		
6" OIL DC7 MANIFOLD TOWHEAD - C-UPDIP WELL	PIPELINE	SHELL PLC														979.4	986.9	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL DC7 MANIFOLD TOWHEAD - C-UPDIP WELL	UMBILICAL	SHELL PLC														979.4	986.9	e	e	e	e	d	a	e	a	e	d	a	e		
2" GAS LIFT DC7 MANIFOLD TOWHEAD - C-UPDIP WELL	PIPELINE	SHELL PLC														979.4	986.9	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL DC7 MANIFOLD TOWHEAD - PC4 WELL	UMBILICAL	SHELL PLC														979.4	986.9	e	e	e	e	d	a	e	a	e	d	a	e		
2" GAS LIFT DC7 MANIFOLD TOWHEAD - PC4 WELL	PIPELINE	SHELL PLC														979.4	986.9	e	e	e	e	d	a	e	a	e	d	a	e		
6" OIL DC7 MANIFOLD TOWHEAD - PC4 WELL	PIPELINE	SHELL PLC														979.4	986.9	e	e	e	e	d	a	e	a	e	d	a	e		
4" GAS LIFT PENGUIN DC2 DBBV SKID - DC2 MANIFOLD	PIPELINE	SHELL PLC														979.6	987.1	e	e	e	e	a	a	e	a	e	d	a	e		
4" GAS LIFT DC6 MANIFOLD TOWHEAD - DC2 MANIFOLD	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL DC6 MANIFOLD TOWHEAD - DC2 UCS	UMBILICAL	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
8" OIL DC6 MANIFOLD TOWHEAD - DC2 MANIFOLD	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL PENGUINS DC2 MANIFOLD - RPCM	UMBILICAL	SHELL PLC														979.7	987.2	e	e	e	e	a	a	e	a	e	d	a	e		
2" GAS LIFT DC6 MANIFOLD TOWHEAD - PAN-W WELL	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL PENGUINS DC2 MANIFOLD - RPCM (REPLACEMENT)	UMBILICAL	SHELL PLC														979.7	987.2	e	e	e	e	a	a	e	a	e	d	a	e		
6" OIL DC6 MANIFOLD TOWHEAD - PAN-W WELL	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL DC6 MANIFOLD TOWHEAD - PAN-W WELL	UMBILICAL	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL PENGUINS SCS2 - PENGUINS DC2	UMBILICAL	SHELL PLC														979.7	987.2	e	e	e	e	a	a	e	a	e	d	a	e		
2" GAS LIFT PENGUINS DC2 - PENGUINS WELL A1	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	a	a	e	a	e	d	a	e		
6" OIL PENGUINS DC2 - PENGUINS WELL A1	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	a	a	e	a	e	d	a	e		
6" OIL PENGUINS DC2 - PENGUINS WELL A2	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	a	a	e	a	e	d	a	e		
2" GAS LIFT PENGUINS DC2 - PENGUINS WELL A2	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	a	a	e	a	e	d	a	e		
UMBILICAL DC2 UCS - DC2 MANIFOLD	UMBILICAL	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
10" OIL DC6 MANIFOLD TOWHEAD - DC8 MIDLINE STRUCTURE	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
30" CARRIER DC2 BUNDLE (S) DC6 MANIFOLD TOWHEAD - DC8 MIDLINE STRUCTURE	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
4" GAS LIFT DC6 MANIFOLD TOWHEAD - DC8 MIDLINE STRUCTURE	PIPELINE	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL DC6 MANIFOLD TOWHEAD - DC8 MIDLINE STRUCTURE	UMBILICAL	SHELL PLC														979.7	987.2	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL PENGUINS SCS2 - PENGUINS WELL A1	UMBILICAL	SHELL PLC														979.7	987.2	e	e	e	e	a	a	e	a	e	d	a	e		
UMBILICAL PENGUINS SCS2 - PENGUINS WELL A2	UMBILICAL	SHELL PLC														979.7	987.2	e	e	e	e	a	a	e	a	e	d	a	e		
6" OIL DC8 MIDLINE STRUCTURE - PAN-N WELL	PIPELINE	SHELL PLC														981.5	989.0	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL DC8 MIDLINE STRUCTURE - PAN-N WELL	UMBILICAL	SHELL PLC														981.5	989.0	e	e	e	e	d	a	e	a	e	d	a	e		
2" GAS LIFT DC8 MIDLINE STRUCTURE - PAN-N WELL	PIPELINE	SHELL PLC														981.5	989.0	e	e	e	e	d	a	e	a	e	d	a	e		
28" CARRIER DC2 BUNDLE (N) DC8 MIDLINE STRUCTURE - DC9 MANIFOLD TOWHEAD	PIPELINE	SHELL PLC														981.5	989.0	e	e	e	e	d	a	e	a	e	d	a	e		
8" OIL DC8 MIDLINE STRUCTURE - DC9 MANIFOLD TOWHEAD	PIPELINE	SHELL PLC														981.5	989.0	e	e	e	e	d	a	e	a	e	d	a	e		
UMBILICAL DC8 MIDLINE STRUCTURE - DC9 MANIFOLD TOWHEAD	UMBILICAL	SHELL PLC														981.5	989.0	e	e	e	e	d	a	e	a	e	d	a	e		
2" GAS LIFT DC9 MANIFOLD TOWHEAD - TYBALT WELL	PIPELINE	SHELL PLC														983.5	991.0	e	e	e	e	d	a	e	a	e	d	a	e		

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: O&G Pipelines

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed develooment offshore construction phase

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c	Potential cumulative impact exists: Screened in to assessment.
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e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Pipeline name	Infrastructure Type	Representative group	Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033															
UMBILICAL DC9 MANIFOLD TOWHEAD - TYBALT WELL	UMBILICAL	SHELL PLC														983.5	991.0	e	e	e	e	d	g	a	e	g	e	e	e	e
6" OIL DC9 MANIFOLD TOWHEAD - TYBALT WELL	PIPELINE	SHELL PLC														983.5	991.0	e	e	e	e	d	g	a	e	g	e	e	e	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Oil and Gas Surface and Subsurface Infrastructure

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

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f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Name	Type	Group	Surface/subsurface	Status	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVA
					2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
TEE PROTECTION STRUCTURE	PROTECTION	GAS NETWORKS IRELAND	SUBSURFACE	ACTIVE															98.9	107.0	e	e	e	a	a	g	a	e	e	e	d	g	e
MILLOM WEST PLATFORM	PLATFORM	SPIRIT ENERGY	SURFACE	NOT IN USE															134.3	142.7	e	e	e	e	a	g	a	e	e	e	e	g	e
MILLOM WEST	PLATFORM	HARBOUR ENERGY PLC	SURFACE	ACTIVE															134.3	142.7	e	e	e	e	a	g	a	e	e	e	d	g	e
Q1 WELLHEAD	WELLHEAD	HARBOUR ENERGY PLC	SUBSURFACE	NOT IN USE															139.6	147.9	e	e	e	e	a	g	a	e	e	e	e	g	e
MILLOM WELLHEAD PROTECTION STRUCTURE - Q1	PROTECTION	HARBOUR ENERGY PLC	SUBSURFACE	ACTIVE															139.6	147.9	e	e	e	e	a	g	a	e	e	e	d	g	e
MILLOM EAST PLEM	MANIFOLD	SPIRIT ENERGY	SUBSURFACE	ACTIVE															139.6	147.9	e	e	e	e	a	g	a	e	e	e	d	g	e
MILLOM PLEM	WELLHEAD	HARBOUR ENERGY PLC	SUBSURFACE	ACTIVE															139.6	147.9	e	e	e	e	a	g	a	e	e	e	d	g	e
MILLOM WELLHEAD PROTECTION STRUCTURE - Q2	PROTECTION	HARBOUR ENERGY PLC	SUBSURFACE	ACTIVE															139.7	148.0	e	e	e	e	a	g	a	e	e	e	d	g	e
Q2 WELLHEAD	WELLHEAD	HARBOUR ENERGY PLC	SUBSURFACE	NOT IN USE															139.7	148.0	e	e	e	e	a	g	a	e	e	e	e	g	e
Q3 WELLHEAD	WELLHEAD	HARBOUR ENERGY PLC	SUBSURFACE	NOT IN USE															139.8	148.1	e	e	e	e	a	g	a	e	e	e	e	g	e
MILLOM WELLHEAD PROTECTION STRUCTURE - Q3	PROTECTION	HARBOUR ENERGY PLC	SUBSURFACE	ACTIVE															139.8	148.1	e	e	e	e	a	g	a	e	e	e	d	g	e
110/02b- 9	WELLHEAD	HARBOUR ENERGY PLC	SUBSURFACE	NOT IN USE															140.6	148.6	e	e	e	e	a	g	a	e	e	e	e	g	e
DALTON WELLHEAD PROTECTION STRUCTURE - R2	PROTECTION	HARBOUR ENERGY PLC	SUBSURFACE	ACTIVE															140.6	148.6	e	e	e	e	a	g	a	e	e	e	d	g	e
110/02b-R1	WELLHEAD	HARBOUR ENERGY PLC	SUBSURFACE	NOT IN USE															140.8	148.9	e	e	e	e	a	g	a	e	e	e	e	g	e
DALTON WELLHEAD PROTECTION STRUCTURE - R1	PROTECTION	HARBOUR ENERGY PLC	SUBSURFACE	ACTIVE															140.8	148.9	e	e	e	e	a	g	a	e	e	e	d	g	e
DALTON PLEM	MANIFOLD	HARBOUR ENERGY PLC	SUBSURFACE	ACTIVE															140.9	148.9	e	e	e	e	a	g	a	e	e	e	d	g	e
DALTON PLEM	MANIFOLD	HARBOUR ENERGY PLC	SUBSURFACE	ACTIVE															140.9	148.9	e	e	e	e	a	g	a	e	e	e	d	g	e
CONWY PLATFORM	PLATFORM	ENI UK Limited	SURFACE	ACTIVE															143.0	150.4	e	e	e	e	a	g	a	e	e	e	d	g	e
CALDER	PLATFORM	HARBOUR ENERGY PLC	SURFACE	ACTIVE															143.9	151.5	e	e	e	e	a	g	a	e	e	e	d	g	e
SNIP	ROCK DUMP	MUTUAL ENERGY LIMITED	SUBSURFACE	ACTIVE															144.5	151.6	e	e	e	e	a	g	a	e	e	e	d	g	e
WELL 110/2A-7	WELLHEAD	SPIRIT ENERGY	SUBSURFACE	REMOVED															144.9	153.0	e	e	e	e	a	g	a	e	e	e	d	g	e
NORTH MORCAMBE PLATFORM	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															145.0	153.2	e	e	e	e	a	g	a	e	e	e	d	g	e
NORTH MORECAMBE DPPA	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															145.0	153.2	e	e	e	e	a	g	a	e	e	e	d	g	e
WHITEHAVEN WELLHEAD 113/27b- 9	WELLHEAD	SPIRIT ENERGY	SUBSURFACE	ACTIVE															145.1	153.5	e	e	e	e	a	g	a	e	e	e	d	g	e
SNAGGING HAZARD - CONCRETE MATTRESS-KFB 07/2013 - AREA 5	PROTECTION	ENI UK Limited	SUBSURFACE	ACTIVE															145.9	153.4	e	e	e	e	a	g	a	e	e	e	d	g	e
WELL 110/2A-12	WELLHEAD	SPIRIT ENERGY	SUBSURFACE	REMOVED															146.5	154.6	e	e	e	e	a	g	a	e	e	e	d	g	e
DP8 PLATFORM	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															147.1	155.1	e	e	e	e	a	g	a	e	e	e	d	g	e
SOUTH MORECAMBE DP8	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															147.1	155.1	e	e	e	e	a	g	a	e	e	e	d	g	e
SOUTH MORECAMBE DP6	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															147.3	155.1	e	e	e	e	a	g	a	e	e	e	d	g	e
DP6 PLATFORM	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															147.3	155.1	e	e	e	e	a	g	a	e	e	e	d	g	e
RHYL NORTH WELLHEAD 113/27B-8	WELLHEAD	SPIRIT ENERGY	SUBSURFACE	ACTIVE															147.5	155.8	e	e	e	e	a	g	a	e	e	e	d	g	e
RHYL SUBSEA WELL	WELLHEAD	SPIRIT ENERGY	SUBSURFACE	ACTIVE															147.5	155.8	e	e	e	e	a	g	a	e	e	e	d	g	e
DOUGLAS 14 SSBV		ENI UK Limited	SUBSURFACE	ACTIVE															148.8	156.4	e	e	e	e	a	g	a	e	e	e	d	g	e
WELL 110/3-3	WELLHEAD	SPIRIT ENERGY	SUBSURFACE	REMOVED															149.4	157.1	e	e	e	e	a	g	a	e	e	e	d	g	e
SOUTH MORECAMBE API	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															149.4	157.1	e	e	e	e	a	g	a	e	e	e	d	g	e
ACCOMMODATION PLATFORM API	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															149.4	157.1	e	e	e	e	a	g	a	e	e	e	d	g	e
SOUTH MORECAMBE CPP1	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															149.5	157.2	e	e	e	e	a	g	a	e	e	e	d	g	e
CENTRAL PRODUCTION PLTFM CPP1	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															149.5	157.2	e	e	e	e	a	g	a	e	e	e	d	g	e
SOUTH MORECAMBE FL1	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															149.5	157.2	e	e	e	e	a	g	a	e	e	e	d	g	e
FLARE TRIPOD	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															149.5	157.2	e	e	e	e	a	g	a	e	e	e	d	g	e
SOUTH MORECAMBE DP1	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															149.6	157.3	e	e	e	e	a	g	a	e	e	e	d	g	e
DRILLING PLATFORM DP1	PLATFORM	SPIRIT ENERGY	SURFACE	ACTIVE															149.6	157.3	e	e	e	e	a	g	a	e	e	e	d	g	e
DOUGLAS DA	PLATFORM	ENI UK Limited	SURFACE	ACTIVE															149.7	157.3	e	e	e	e	a	g	a	e	e	e	d	g	e
DOUGLAS DP	PLATFORM	ENI UK Limited	SURFACE	ACTIVE															149.8	157.4	e	e	e	e	a	g	a	e	e	e	d	g	e
DOUGLAS DW	PLATFORM	ENI UK Limited	SURFACE	ACTIVE															149.9	157.5	e	e	e	e	a	g	a	e	e	e	d	g	e
OSI ANCHOR 7	ANCHOR	ENI UK Limited	SUBSURFACE	ACTIVE															150.3	157.6	e	e	e	e	a	g	a	e	e	e	d	g	e
OSI ANCHOR 8	ANCHOR	ENI UK Limited	SUBSURFACE	ACTIVE															150.4	157.7	e	e	e	e	a	g	a	e	e	e	d	g	e
OSI ANCHOR 9	ANCHOR	ENI UK Limited	SUBSURFACE	ACTIVE															150.5	157.8	e	e	e	e	a	g	a	e	e	e	d	g	e
SOUTH MORECAMBE DP3	PLATFORM	SPIRIT ENERGY	SURFACE	Abandoned															150.6	158.2	e	e	e	e	a	g	a	e	e	e	e	g	e
OSI ANCHOR 6	ANCHOR	ENI UK LIMITED	SUBSURFACE	ACTIVE															150.9	158.2	e	e	e	e	a	g	a	e	e	e	d	g	e
OSI ANCHOR 5	ANCHOR	ENI UK LIMITED	SUBSURFACE	ACTIVE															151.0	158.3	e	e	e	e	a	g	a	e	e	e	d	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
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Name	Type	Group	Surface/subsurface	Status	Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
					2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033															
205/21A-7Z	WELLHEAD	HURRICANE ENERGY	SUBSURFACE	NOT IN USE														728.2	734.7	e	e	e	e	a	g	a	e	e	e	e	e	e
205/21A-6	WELLHEAD	HURRICANE ENERGY	SUBSURFACE	ACTIVE														728.2	734.7	e	e	e	e	a	g	a	e	e	e	e	d	e
LOST VERY LARGE TYRE- KFB 16/2014	OTHER SUBSEA	CNOOC International	SUBSURFACE	ACTIVE														728.7	735.8	e	e	e	e	a	g	a	e	e	e	e	d	e
PICKUP POINT	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														735.2	741.5	e	e	e	e	a	g	a	e	e	e	e	d	e
POINT :1894	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														735.2	741.5	e	e	e	e	a	g	a	e	e	e	e	d	e
A6 :1901	ANCHOR	BP EXPLORATION	SUBSURFACE	ACTIVE														735.3	741.6	e	e	e	e	a	g	a	e	e	e	e	d	e
A7 :1902	ANCHOR	BP EXPLORATION	SUBSURFACE	ACTIVE														735.5	741.8	e	e	e	e	a	g	a	e	e	e	e	d	e
PLUM	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														735.8	742.1	e	e	e	e	a	g	a	e	e	e	e	d	e
CDA 3	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														735.8	742.1	e	e	e	e	a	g	a	e	e	e	e	d	e
204/25B- 6	WELLHEAD	BP EXPLORATION	SUBSURFACE	NOT IN USE														735.8	742.1	e	e	e	e	a	g	a	e	e	e	e	e	e
FOINAVEN G INJ204/25B- 6 :1134	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														735.8	742.1	e	e	e	e	a	g	a	e	e	e	e	d	e
MANIFOLD M3	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														735.8	742.1	e	e	e	e	a	g	a	e	e	e	e	d	e
CDA 2	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														735.8	742.2	e	e	e	e	a	g	a	e	e	e	e	d	e
A5 :1900	ANCHOR	BP EXPLORATION	SUBSURFACE	ACTIVE														735.9	742.1	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F7R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	NOT IN USE														736.1	742.4	e	e	e	e	a	g	a	e	e	e	e	e	e
FTA F7R2	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														736.1	742.4	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F7	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	NOT IN USE														736.1	742.4	e	e	e	e	a	g	a	e	e	e	e	e	e
FTA F1	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														736.2	742.4	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F2	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														736.2	742.4	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F3	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														736.2	742.4	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F4	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														736.2	742.5	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F6 :1129	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														736.3	742.5	e	e	e	e	a	g	a	e	e	e	e	d	e
CSA 1/1	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														736.3	742.5	e	e	e	e	a	g	a	e	e	e	e	d	e
PROTECTIVE STRUCTURE DC1 M1 :1130	PROTECTION	BP EXPLORATION	SUBSURFACE	ACTIVE														736.3	742.5	e	e	e	e	a	g	a	e	e	e	e	d	e
PROTECTIVE STRUCTURE DC1 M1 :1131	PROTECTION	BP EXPLORATION	SUBSURFACE	ACTIVE														736.3	742.5	e	e	e	e	a	g	a	e	e	e	e	d	e
FOINAVEN DC1204/24A :1132	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														736.3	742.5	e	e	e	e	a	g	a	e	e	e	e	d	e
PROTECTIVE STRUCTURE DC1 M1 :1128	PROTECTION	BP EXPLORATION	SUBSURFACE	ACTIVE														736.3	742.5	e	e	e	e	a	g	a	e	e	e	e	d	e
SUT 1R	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														736.3	742.6	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F5	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														736.4	742.6	e	e	e	e	a	g	a	e	e	e	e	d	e
A8 :1903	ANCHOR	BP EXPLORATION	SUBSURFACE	ACTIVE														736.4	742.6	e	e	e	e	a	g	a	e	e	e	e	d	e
MANIFOLD M4	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														736.4	742.7	e	e	e	e	a	g	a	e	e	e	e	d	e
CDA 1	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														736.4	742.7	e	e	e	e	a	g	a	e	e	e	e	d	e
UTA U51	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	NOT IN USE														736.5	742.8	e	e	e	e	a	g	a	e	e	e	e	e	e
UTA U52	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														736.5	742.8	e	e	e	e	a	g	a	e	e	e	e	d	e
CSA 4/3	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														736.5	742.8	e	e	e	e	a	g	a	e	e	e	e	d	e
CET 4/2	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														736.5	742.8	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F17	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														736.9	743.1	e	e	e	e	a	g	a	e	e	e	e	d	e
A4 :1899	ANCHOR	BP EXPLORATION	SUBSURFACE	ACTIVE														737.0	743.3	e	e	e	e	a	g	a	e	e	e	e	d	e
HBW5	SEABED FASTENE	BP EXPLORATION	SUBSURFACE	ACTIVE														737.1	743.3	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F11	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														737.1	743.3	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F38R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														737.1	743.4	e	e	e	e	a	g	a	e	e	e	e	d	e
AS5	RISER BASE	BP EXPLORATION	SUBSURFACE	ACTIVE														737.1	743.4	e	e	e	e	a	g	a	e	e	e	e	d	e
SUCTION PILE F48R	PILE	BP EXPLORATION	SUBSURFACE	ACTIVE														737.1	743.4	e	e	e	e	a	g	a	e	e	e	e	d	e
CW5	RISER BASE	BP EXPLORATION	SUBSURFACE	ACTIVE														737.1	743.4	e	e	e	e	a	g	a	e	e	e	e	d	e
HBW6	SEABED FASTENE	BP EXPLORATION	SUBSURFACE	ACTIVE														737.1	743.4	e	e	e	e	a	g	a	e	e	e	e	d	e
FTA F12T	MANIFOLD	BP EX																														

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					2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
LOST ANCHOR :1882	ANCHOR	BP EXPLORATION	SUBSURFACE	NOT IN USE														739.4	745.6	e	e	e	e	a	g	a	e	e	e	e	e	e	
A1 :1896	ANCHOR	BP EXPLORATION	SUBSURFACE	ACTIVE														739.4	745.6	e	e	e	e	a	g	a	e	e	e	e	e	e	
GAS DISPOSAL WELL :1911	WELLHEAD	BP EXPLORATION	SUBSURFACE	ACTIVE														739.6	745.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
UET :1657	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														739.7	746.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
204/20-W16	WELLHEAD	BP EXPLORATION	SUBSURFACE	Abandoned														740.5	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
M125	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.5	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
204/20-W20	WELLHEAD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
C37	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
FTA F22	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	NOT IN USE														740.6	746.8	e	e	e	e	a	g	a	e	e	e	e	e	e	
FTA F23	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.8	e	e	e	e	a	g	a	e	e	e	e	e	e	
FTA F24R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.8	e	e	e	e	a	g	a	e	e	e	e	e	e	
FTA F125	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
FTA F211	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.8	e	e	e	e	a	g	a	e	e	e	e	e	e	
FTA F212	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.8	e	e	e	e	a	g	a	e	e	e	e	e	e	
204/20-W18Z	WELLHEAD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
FTA F21	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
FTA F25	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	NOT IN USE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
PROTECTIVE STRUCTURE DC2 M2 :1127	PROTECTION	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
204/20-W21	WELLHEAD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
FOINAVEN DC2A204/19A :1133	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
M24	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
PROTECTIVE STRUCTURE DC2 M2 :1126	PROTECTION	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
PROTECTIVE STRUCTURE DC2 M2 :1125	PROTECTION	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
CSA 2/2	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
204/20-W19Z	WELLHEAD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
C25	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
UTA U23	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
204/20-W17	WELLHEAD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
UET U21	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	NOT IN USE														740.6	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
C21R	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
M21	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
C21	MANIFOLD	BP EXPLORATION	SUBSURFACE	NOT IN USE														740.6	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
SUT 2R	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.6	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
FTA F23 :1604	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
UTA U22	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
204/20-W01	TEMPLATE	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
UTA U30 :1592	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
C24	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
CSA 2/1	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
UTA U23	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	NOT IN USE														740.7	746.9	e	e	e	e	a	g	a	e	e	e	e	e	e	
M25	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
F23R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
C22	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
F24	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
FTA F29	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														740.7	747.0	e	e	e	e	a	g	a	e	e	e	e	e	e	
F25	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE</																														

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Oil and Gas Surface and Subsurface Infrastructure

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

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f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Name	Type	Group	Surface/subsurface	Status	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
					2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
F33	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.3	749.6	e	e	e	e	a	g	a	e	e	e	e	d	g	e
RT19	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.3	749.6	e	e	e	e	a	g	a	e	e	e	e	d	g	e
-START OF RISER (APPROX. 1M ABOVE SEABED :1608	RISER BASE	BP EXPLORATION	SUBSURFACE	ACTIVE														743.3	749.6	e	e	e	e	a	g	a	e	e	e	e	d	g	e
RT38	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.3	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
-START OF RISER (APPROX. 1M ABOVE SEABED :1624	RISER BASE	BP EXPLORATION	SUBSURFACE	ACTIVE														743.3	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F15R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.3	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
-START OF RISER (APPROX. 1M ABOVE SEABED :1606	RISER BASE	BP EXPLORATION	SUBSURFACE	ACTIVE														743.3	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F15 :1643	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.3	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F14R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.3	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
UET U31 :1594	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.4	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
UET U60	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.4	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
UNKNOWN	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	NOT IN USE														743.4	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F16	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.4	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F14 :1651	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.4	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F13R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.4	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
U60R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.4	749.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F13 :1647	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.4	749.8	e	e	e	e	a	g	a	e	e	e	e	d	g	e
M132	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														743.4	749.8	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F12 :1639	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.5	749.8	e	e	e	e	a	g	a	e	e	e	e	d	g	e
F12R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.5	749.8	e	e	e	e	a	g	a	e	e	e	e	d	g	e
U61R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.5	749.8	e	e	e	e	a	g	a	e	e	e	e	d	g	e
UTA 61 :1663	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.5	749.8	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F134	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.5	749.9	e	e	e	e	a	g	a	e	e	e	e	d	g	e
UET UET U70 :1635	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.5	749.9	e	e	e	e	a	g	a	e	e	e	e	d	g	e
RT17	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.5	749.9	e	e	e	e	a	g	a	e	e	e	e	d	g	e
UET U11 :1630	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.6	749.9	e	e	e	e	a	g	a	e	e	e	e	d	g	e
PROTECTIVE STRUCTURE D1 :1631	PROTECTION	BP EXPLORATION	SUBSURFACE	ACTIVE														743.6	749.9	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F17	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.6	749.9	e	e	e	e	a	g	a	e	e	e	e	d	g	e
GLEN LYON	FPSO	BP EXPLORATION	SURFACE	ACTIVE														743.6	749.9	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F35	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.6	750.0	e	e	e	e	a	g	a	e	e	e	e	d	g	e
RT133	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.7	750.0	e	e	e	e	a	g	a	e	e	e	e	d	g	e
RT132	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.7	750.0	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F11 :1656	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.7	750.0	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA IDENT NO: F51 :1618	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.7	750.1	e	e	e	e	a	g	a	e	e	e	e	d	g	e
UET 71 :1666	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.7	750.1	e	e	e	e	a	g	a	e	e	e	e	d	g	e
SCHIEHALLION M134	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE														743.8	750.1	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F133	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.8	750.1	e	e	e	e	a	g	a	e	e	e	e	d	g	e
-START OF RISER (APPROX. 1M ABOVE SEABED :1601	RISER BASE	BP EXPLORATION	SUBSURFACE	ACTIVE														743.8	750.1	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F132R	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.8	750.1	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F132	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.8	750.1	e	e	e	e	a	g	a	e	e	e	e	d	g	e
-START OF RISER (APPROX. 1M ABOVE SEABED :1598	RISER BASE	BP EXPLORATION	SUBSURFACE	ACTIVE														743.8	750.2	e	e	e	e	a	g	a	e	e	e	e	d	g	e
ENGINEERING FEATURE FTA F71 :1600	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.8	750.2	e	e	e	e	a	g	a	e	e	e	e	d	g	e
FTA F36	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														743.9	750.2	e	e	e	e	a	g	a	e	e	e	e	d	g	e
M71	MANIFOLD	BP EXPLORATION	SUBSURFACE	ACTIVE																													

Proposed development offshore construction phase
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g	No effect-receptor pathway: Screened out of assessment.

Appendix 38.2 Offshore Cumulative Screening and Stage 1 and 2 Assessment

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Oil and Gas Surface and Subsurface Infrastructure

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
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Name	Type	Group	Surface/subsurface	Status	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVA
					2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
TOMINTOUL DEBRIS ITEM	DEBRIS	TOTALENERGIES UPSTREA	SUBSURFACE	NOT IN USE															795.8	802.3	e	e	e	e	a	g	a	e	e	e	e	g	e
206/9B-5	WELLHEAD	BP EXPLORATION	SUBSURFACE	REMOVED															798.1	804.9	e	e	e	e	a	g	a	e	e	e	d	g	e
CLAIR PHASE 1 SSIV	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE															798.2	805.0	e	e	e	e	a	g	a	e	e	e	d	g	e
CLAIR	PLATFORM	BP EXPLORATION	SURFACE	ACTIVE															798.3	805.1	e	e	e	e	a	g	a	e	e	e	d	g	e
CLAIR RIDGE SSIV	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE															798.3	805.1	e	e	e	e	a	g	a	e	e	e	d	g	e
ROCK BAG	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															798.9	806.1	e	e	e	e	a	g	a	e	e	e	d	g	e
CLAIR RIDGE QU	PLATFORM	BP EXPLORATION	SURFACE	ACTIVE															803.7	810.5	e	e	e	e	a	g	a	e	e	e	d	g	e
CLAIR RIDGE TOWHEAD	TOWHEAD	BP EXPLORATION	SUBSURFACE	ACTIVE															803.7	810.5	e	e	e	e	a	g	a	e	e	e	d	g	e
CLAIR RIDGE DRILL CENTRE TEMPLATE	TEMPLATE	BP EXPLORATION	SUBSURFACE	ACTIVE															803.8	810.6	e	e	e	e	a	g	a	e	e	e	d	g	e
CLAIR RIDGE DP	PLATFORM	BP EXPLORATION	SURFACE	ACTIVE															803.8	810.6	e	e	e	e	a	g	a	e	e	e	d	g	e
TORMORE MEG/SRV FLET (PL2761/PL2762)	OTHER SUBSEA	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															809.6	816.2	e	e	e	e	a	g	a	e	e	e	d	g	e
TORMORE FLET 1-1 (PL2759)	OTHER SUBSEA	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															809.6	816.2	e	e	e	e	a	g	a	e	e	e	d	g	e
TORMORE MANIFOLD	MANIFOLD	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															809.6	816.2	e	e	e	e	a	g	a	e	e	e	d	g	e
TORMORE FLET 2-1 (PL2760)	OTHER SUBSEA	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															809.6	816.2	e	e	e	e	a	g	a	e	e	e	d	g	e
TORMORE WELLHEAD	WELLHEAD	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															809.7	816.2	e	e	e	e	a	g	a	e	e	e	d	g	e
MET OCEAN BUOY	MONITOR BUOY	EQUINOR ASA	SURFACE	ACTIVE															813.7	820.1	e	e	e	e	a	g	a	e	e	e	d	g	e
LAGGAN MANIFOLD	MANIFOLD	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															820.6	827.2	e	e	e	e	a	g	a	e	e	e	d	g	e
EDRADOUR PLEM	MANIFOLD	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															821.9	828.6	e	e	e	e	a	g	a	e	e	e	d	g	e
EDRADOUR MEG/SERVICE FLET 3	OTHER SUBSEA	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															821.9	828.7	e	e	e	e	a	g	a	e	e	e	d	g	e
EDRADOUR PRODUCTION FLET 4-2	OTHER SUBSEA	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															822.0	828.7	e	e	e	e	a	g	a	e	e	e	d	g	e
GLENLIVET PRODUCTION FLET 3-2	OTHER SUBSEA	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															822.0	828.7	e	e	e	e	a	g	a	e	e	e	d	g	e
EDRADOUR CEM ON PL3995	OTHER SUBSEA	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															827.6	834.4	e	e	e	e	a	g	a	e	e	e	d	g	e
EDRADOUR MANIFOLD	MANIFOLD	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															828.9	835.8	e	e	e	e	a	g	a	e	e	e	d	g	e
EDRADOUR WELLHEAD	WELLHEAD	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															828.9	835.8	e	e	e	e	a	g	a	e	e	e	d	g	e
EDRADOUR PRODUCTION FLET 4-1	OTHER SUBSEA	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															829.0	835.8	e	e	e	e	a	g	a	e	e	e	d	g	e
LOST ANCHOR- PARTIAL ANCHOR DEBRIS: KFB 15/2015	ANCHOR	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															846.0	852.8	e	e	e	e	a	g	a	e	e	e	d	g	e
GLENLIVET MEG/SRV FLET 1	OTHER SUBSEA	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															846.3	853.1	e	e	e	e	a	g	a	e	e	e	d	g	e
GLENLIVET PRODUCTION FLET 3-1	OTHER SUBSEA	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															846.3	853.2	e	e	e	e	a	g	a	e	e	e	d	g	e
GLENLIVET G2 WELLHEAD	WELLHEAD	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															846.4	853.2	e	e	e	e	a	g	a	e	e	e	d	g	e
GLENLIVET MANIFOLD	MANIFOLD	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															846.4	853.3	e	e	e	e	a	g	a	e	e	e	d	g	e
GLENLIVET G1 WELLHEAD	WELLHEAD	TOTALENERGIES UPSTREA	SUBSURFACE	ACTIVE															846.4	853.3	e	e	e	e	a	g	a	e	e	e	d	g	e
South Uist Wellhead	WELLHEAD	SHELL PLC	SUBSURFACE	NOT IN USE															854.3	860.8	e	e	e	e	a	g	a	e	e	e	e	g	e
HUDSON Production Well - U1	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															862.4	869.2	e	e	e	e	a	g	a	e	e	e	d	g	e
HUDSON -Production Well - L4	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															862.4	869.2	e	e	e	e	a	g	a	e	e	e	d	g	e
HUDSON Production Well - U3	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															862.4	869.2	e	e	e	e	a	g	a	e	e	e	d	g	e
HUDSON Production Well - U2	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															862.5	869.2	e	e	e	e	a	g	a	e	e	e	d	g	e
HUDSON -Production Well - L3	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															862.5	869.2	e	e	e	e	a	g	a	e	e	e	d	g	e
HUDSON -Water Injection Well W2	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															862.5	869.2	e	e	e	e	a	g	a	e	e	e	d	g	e
HUDSON -Water Injection Well W1	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															862.5	869.3	e	e	e	e	a	g	a	e	e	e	d	g	e
HUDSON - Production Well - L2	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															862.9	869.7	e	e	e	e	a	g	a	e	e	e	d	g	e
HUDSON -Production Well - L1	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															862.9	869.7	e	e	e	e	a	g	a	e	e	e	d	g	e
HUDSON 210/24A-B6F1/B6Z/B6ZF1 BG	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	NOT IN USE															923.3	930.7	e	e	e	e	a	g	a	e	e	e	e	g	e
HUDSON MANIFOLD	MANIFOLD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															923.3	930.7	e	e	e	e	a	g	a	e	e	e	d	g	e
HUDSON PRODUCTION WELL U3 210/24A-B7	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE															923.3	930.7	e	e	e	e	a	g	a	e	e	e	d	g	e

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Name	Type	Group	Surface/subsurface	Status	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
					2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
HUDSON CROSSOVER SKID	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														923.3	930.7	e	e	e	e	a	g	a	e	e	e	d	g	e	
HUDSON 210/24A-B2 BF	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	NOT IN USE														923.3	930.7	e	e	e	e	a	g	a	e	e	e	e	g	e	
HUDSON 210/24A-B5/BSZBE	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	NOT IN USE														923.3	930.7	e	e	e	e	a	g	a	e	e	e	e	g	e	
HUDSON 210/24A-B3 BC	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	NOT IN USE														923.3	930.7	e	e	e	e	a	g	a	e	e	e	e	g	e	
HUDSON 210/24A-B1 BD	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														923.3	930.7	e	e	e	e	a	g	a	e	e	e	d	g	e	
HUDSON 210/24A-B4 BB	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	NOT IN USE														923.3	930.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
HUDSON 210/24A-A2 AB	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														923.4	930.8	e	e	e	e	a	g	a	e	e	e	d	g	e	
HUDSON 210/24A-A1 AA	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	NOT IN USE														923.4	930.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
FSM STRUCTURE	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														923.9	931.4	e	e	e	e	a	g	a	e	e	e	d	g	e	
TERN	PLATFORM	TAQA EUROPA B.V.	SURFACE	ACTIVE														930.3	937.7	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL BUTA 2	OTHER SUBSEA	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														930.3	937.8	e	e	e	e	a	g	a	e	e	e	d	g	e	
UNKNOWN OBJECT	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE														936.0	943.5	e	e	e	e	a	g	a	e	e	e	d	g	e	
UNKNOWN OBJECT	OTHER SUBSEA	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.0	943.5	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL SENTRY BOLLARD 6	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.6	944.1	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL SDU	OTHER SUBSEA	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.6	944.1	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL SENTRY BOLLARD 5	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.7	944.1	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL SENTRY BOLLARD 7	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.7	944.2	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL WELL P1 - 211/21A-17Z	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.7	944.2	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL SENTRY BOLLARD 4	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.7	944.2	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL BUTA 4	OTHER SUBSEA	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.7	944.2	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL BUTA 3	OTHER SUBSEA	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.7	944.2	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL WELL P2 - 211/21A-19	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.7	944.2	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL BUTA 5	OTHER SUBSEA	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.7	944.2	e	e	e	e	a	g	a	e	e	e	d	g	e	
Kestrel 211/21a- 20	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.8	944.3	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL WELL KEU-W1- 211/21A-20	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.8	944.3	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL SENTRY BOLLARD 3	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.8	944.3	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL SENTRY BOLLARD 1	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.8	944.3	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL SENTRY BOLLARD 9	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.8	944.3	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL SENTRY BOLLARD 2	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.8	944.3	e	e	e	e	a	g	a	e	e	e	d	g	e	
KESTREL SENTRY BOLLARD 8	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														936.9	944.3	e	e	e	e	a	g	a	e	e	e	d	g	e	
CONCRETE	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														937.1	944.6	e	e	e	e	a	g	a	e	e	e	d	g	e	
GROUT BAG	PROTECTION	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														937.1	944.6	e	e	e	e	a	g	a	e	e	e	d	g	e	
FALCON MIDLINE CONNECTION	OTHER SUBSEA	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														937.2	944.6	e	e	e	e	a	g	a	e	e	e	d	g	e	
FALCON P1 WELL - 210/25A-10Z	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														937.4	944.9	e	e	e	e	a	g	a	e	e	e	d	g	e	
Falcon XT 210/25a- 10Z	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														937.4	944.9	e	e	e	e	a	g	a	e	e	e	d	g	e	
SEABED FASTENER: KFB 15/2000	SEABED FASTENER	INTERNATIONAL EXXONMOBIL	SUBSURFACE	ACTIVE														940.1	946.8	e	e	e	e	a	g	a	e	e	e	d	g	e	
211/23D-18	WELLHEAD	ITHACA ENERGY	SUBSURFACE	NOT IN USE														942.5	950.1	e	e	e	e	a	g	a	e	e	e	e	g	e	
Kerloch 211/22a-10	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ABANDONDED														942.9	950.5	e	e	e	e	a	g	a	e	e	e	e	g	e	
211/23D- 17Z	WELLHEAD	ITHACA ENERGY	SUBSURFACE	NOT IN USE														943.9	951.4	e	e	e	e	a	g	a	e	e	e	e	g	e	
EIDER UMBILICAL RAMP	OTHER SUBSEA	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														944.5	952.0	e	e	e	e	a	g	a	e	e	e	d	g	e	
EIDER A	PLATFORM	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														944.5	952.0	e	e	e	e	a	g	a	e	e	e	d	g	e	
DUNLIN A	PLATFORM	FAIRFIELD ENERGY LIMITED	SUBSURFACE	NOT IN USE														948.4	956.0	e	e	e	e	a	g	a	e	e	e	e	e	g	e
SEABED FASTENER: KFB 05/2009	SEABED FASTENER	BP EXPLORATION	SUBSURFACE	ACTIVE														952.2	959.8	e	e	e	e	a	g	a	e	e	e	d	g	e	
OTTER DRILLING TEMPLATE	TEMPLATE	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														954.4	961.9	e	e	e	e	a	g	a	e	e	e	d	g	e	
210/15A-5 WELLHEAD	MANIFOLD	TOTALENERGIES UPSTREAM	SUBSURFACE	PROPOSED														954.4	961.9	e	e	e	e	a	g	a	e	e	e	d	g	e	
Otter 210/15a-T1	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														954.4	961.9	e	e	e	e	a	g	a	e	e	e	d	g	e	
Otter 210/15a-T2	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE																													

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Oil and Gas Surface and Subsurface Infrastructure

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Proposed development offshore construction phase

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					2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
OTTER P1 WELL - 210/15A-T2	WELLHEAD	TAQA EUROPA B.V.	SUBSURFACE	ACTIVE														954.4	961.9	e	e	e	e	a	g	a	e	e	e	d	g	e	
Thistle COS Tank A	STORAGE TANK	ENQUEST PLC	SUBSURFACE	NOT IN USE														955.7	963.3	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.1	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.2	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.4	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.2	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.5	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.2	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.17	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.2	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.3	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.2	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.16	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.2	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.2	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.14	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.18	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.13	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.15	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
FTA - ENTRANCE FUNNEL	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.16	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.12	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.19	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.11	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.20	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.6	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.8	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.10	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.15	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.21	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.22	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
THISTLE A	PLATFORM	ENQUEST PLC	SURFACE	ACTIVE														956.3	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.14	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
PROTECTIVE STRUCTURE VALVE V2B :1517	PROTECTION	BP EXPLORATION	SUBSURFACE	ACTIVE														956.3	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.9	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.3	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.7	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.8	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.9	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.1	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.8	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.13	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.12	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.2	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.3	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.11	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.4	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.6	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Pod No.10	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.5	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
GAS EXPORT RISER ANCHOR @ THISTLE TGRA	ANCHOR	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
Thistle Anode Sled No.7	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	963.9	e	e	e	e	a	g	a	e	e	e	e	g	e	
OIL EXPORT/UMBILICAL RISER ANCHOR @ THISTLE TPRA	ANCHOR	ENQUEST PLC	SUBSURFACE	ACTIVE														956.4	964.0	e	e	e	e	a	g	a	e	e					

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					2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
UET :1250	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															964.9	972.3	e	e	e	e	a	g	a	e	e	e	d	g	e
211/18a-W6	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															964.9	972.4	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S7	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.0	972.5	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S15	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.0	972.5	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S14	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.0	972.5	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S10	WELLHEAD	ENQUEST PLC	SUBSURFACE	ABANDONED															965.0	972.5	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S8Z	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.0	972.6	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S2Z	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.1	972.6	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S11	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.1	972.6	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S12Z	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.1	972.6	e	e	e	e	a	g	a	e	e	e	e	g	e
DON SW PRODUCTION WELL P04 P4	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.1	972.6	e	e	e	e	a	g	a	e	e	e	e	g	e
DON SW SUBSEA DISTRIBUTION UNIT SDU	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.1	972.7	e	e	e	e	a	g	a	e	e	e	e	g	e
TOKYO BAG 2	DEBRIS	ENQUEST PLC	SUBSURFACE	ACTIVE															965.1	972.7	e	e	e	e	a	g	a	e	e	e	d	g	e
DON NORTHERN PRODUCER RISER BASE STRUCTURE NPRB	RISER BASE	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.1	972.7	e	e	e	e	a	g	a	e	e	e	e	g	e
TOKYO BAG 1	DEBRIS	ENQUEST PLC	SUBSURFACE	ACTIVE															965.1	972.7	e	e	e	e	a	g	a	e	e	e	d	g	e
MID WATER ARCH MWA	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															965.1	972.7	e	e	e	e	a	g	a	e	e	e	d	g	e
CHINESE FINGER - EAST	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															965.1	972.7	e	e	e	e	a	g	a	e	e	e	d	g	e
CHINESE FINGER - WEST	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															965.1	972.7	e	e	e	e	a	g	a	e	e	e	d	g	e
MATTRESS WET STORE 2	DEBRIS	ENQUEST PLC	SUBSURFACE	ACTIVE															965.1	972.7	e	e	e	e	a	g	a	e	e	e	d	g	e
TOKYO BAG 3	DEBRIS	ENQUEST PLC	SUBSURFACE	ACTIVE															965.2	972.7	e	e	e	e	a	g	a	e	e	e	d	g	e
TOKYO BAG 4	DEBRIS	ENQUEST PLC	SUBSURFACE	ACTIVE															965.2	972.7	e	e	e	e	a	g	a	e	e	e	d	g	e
TOKYO BAG 5	DEBRIS	ENQUEST PLC	SUBSURFACE	ACTIVE															965.2	972.7	e	e	e	e	a	g	a	e	e	e	d	g	e
MATTRESS WET STORE 1	DEBRIS	ENQUEST PLC	SUBSURFACE	ACTIVE															965.2	972.7	e	e	e	e	a	g	a	e	e	e	d	g	e
DON SW WATER INJECTION WELL W14 W04	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.7	973.3	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S6	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.8	973.3	e	e	e	e	a	g	a	e	e	e	e	g	e
DON SW INJECTION WELL CENTRE	MANIFOLD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.8	973.3	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S4Z	WELLHEAD	ENQUEST PLC	SUBSURFACE	ABANDONED															965.8	973.3	e	e	e	e	a	g	a	e	e	e	e	g	e
211/18a-S13	WELLHEAD	ENQUEST PLC	SUBSURFACE	NOT IN USE															965.8	973.3	e	e	e	e	a	g	a	e	e	e	e	g	e
HALIBUT TIE-IN PROTECTION	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE															967.3	974.8	e	e	e	e	a	g	a	e	e	e	d	g	e
211/12a-22	WELLHEAD	ENQUEST PLC	SUBSURFACE	ACTIVE															967.6	975.1	e	e	e	e	a	g	a	e	e	e	d	g	e
211/12a-23	WELLHEAD	ENQUEST PLC	SUBSURFACE	ACTIVE															967.6	975.1	e	e	e	e	a	g	a	e	e	e	d	g	e
BELLMOUTH AT WELLHEAD D7 :1308	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															969.0	976.5	e	e	e	e	a	g	a	e	e	e	d	g	e
DON (SUBSEA)211/18A :26	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE															969.8	977.3	e	e	e	e	a	g	a	e	e	e	d	g	e
BELLMOUTH :1309	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															969.9	977.4	e	e	e	e	a	g	a	e	e	e	d	g	e
D5 P3	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															970.7	978.1	e	e	e	e	a	g	a	e	e	e	d	g	e
D5 P4	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															970.7	978.1	e	e	e	e	a	g	a	e	e	e	d	g	e
D5 P2	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															970.7	978.2	e	e	e	e	a	g	a	e	e	e	d	g	e
D5 P1	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															970.7	978.2	e	e	e	e	a	g	a	e	e	e	d	g	e
PROTECTIVE STRUCTURE -SSIV (END) :1538	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE															972.8	980.3	e	e	e	e	a	g	a	e	e	e	d	g	e
PROTECTIVE STRUCTURE -SSIV (START) :1537	PROTECTION	ENQUEST PLC	SUBSURFACE	ACTIVE															972.8	980.3	e	e	e	e	a	g	a	e	e	e	d	g	e
BELLMOUTH AT MAGNUS J TUBE :1307	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															973.8	981.3	e	e	e	e	a	g	a	e	e	e	d	g	e
OTHER-RISER BREAKOUT BOX :1402	RISER BASE	ENQUEST PLC	SUBSURFACE	ACTIVE															973.8	981.3	e	e	e	e	a	g	a	e	e	e	d	g	e
MAGNUS	PLATFORM	ENQUEST PLC	SURFACE	ACTIVE															973.8	981.3	e	e	e	e	a	g	a	e	e	e	d	g	e
CONNECTION POINT OF WELL :1209	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE															973.9	981.4	e	e	e	e	a	g	a	e	e	e	d	g	e
LOST NON-DIRECTIONAL BEACON ANTENNA - KFB 04/2009	DEBRIS	BP EXPLORATION	SUBSURFACE	ACTIVE															973.9	981.4	e	e	e	e	a	g	a	e	e	e	d	g	e
SWIFT MANIFOLD (MAGNUS) :1228	MANIFOLD	ENQUEST PLC	SUBSURFACE	ACTIVE															974.2	981.7	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN DC5 FSM STRUCTURE	PROTECTION	SHELL PLC	SUBSURFACE	NOT IN USE															974.5	982.0	e	e	e	e	a	g	a	e	e	e	e	g	e
PENGUIN DC5 MANIFOLD	MANIFOLD	SHELL PLC	SUBSURFACE	ACTIVE															974.5	982.1	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN WELL D3	WELLHEAD	SHELL PLC	SUBSURFACE	NOT IN USE															974.5	982.1	e	e	e	e	a	g	a	e	e	e	e	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Oil and Gas Surface and Subsurface Infrastructure

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

a	Included as part of the topic baseline and hence not considered within the cumulative impact assessment
b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
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f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Name	Type	Group	Surface/subsurface	Status	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVA
					2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
FLOW METER PROTECTION STRUCTURE	PROTECTION	SHELL PLC	SUBSURFACE	ACTIVE															974.5	982.1	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN WELL D2	WELLHEAD	SHELL PLC	SUBSURFACE	NOT IN USE															974.6	982.1	e	e	e	e	a	g	a	e	e	e	e	g	e
PENGUIN WELL E1	WELLHEAD	SHELL PLC	SUBSURFACE	NOT IN USE															974.6	982.1	e	e	e	e	a	g	a	e	e	e	e	g	e
DT04 WELL	WELLHEAD	SHELL PLC	SUBSURFACE	ACTIVE															974.6	982.1	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN DC5 UCS	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															974.6	982.2	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS WAVERIDER	MONITOR BUOY	SHELL PLC	SURFACE	ACTIVE															975.5	983.0	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.1	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															975.8	983.3	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.2	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															975.9	983.4	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.3	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															975.9	983.4	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 1 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															975.9	983.4	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.12	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															976.0	983.5	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.4	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															976.0	983.5	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 2 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															976.0	983.5	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.11	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															976.0	983.5	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 3 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															976.0	983.5	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.10	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															976.0	983.6	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 4 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															976.1	983.6	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.9	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															976.1	983.6	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 12 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															976.1	983.6	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 11 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															976.1	983.6	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 10 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															976.1	983.7	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 9 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															976.2	983.7	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN DC4 DBBV	MANIFOLD	SHELL PLC	SUBSURFACE	ACTIVE															976.3	983.8	e	e	e	e	a	g	a	e	e	e	d	g	e
ROCKHOPPER WELL	WELLHEAD	SHELL PLC	SUBSURFACE	ACTIVE															976.4	983.9	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN DC4 MANIFOLD	MANIFOLD	SHELL PLC	SUBSURFACE	ACTIVE															976.4	983.9	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN WELL D1	WELLHEAD	SHELL PLC	SUBSURFACE	NOT IN USE															976.4	983.9	e	e	e	e	a	g	a	e	e	e	e	g	e
PENGUIN WELL C2	WELLHEAD	SHELL PLC	SUBSURFACE	ACTIVE															976.4	983.9	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN DC4 UCS	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															976.5	984.0	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO	FPSO	SHELL PLC	SURFACE	PROPOSED															976.6	984.1	e	e	e	e	a	g	a	e	e	e	d	g	e
RISER BASE MANIFOLD TOWHEAD	TOWHEAD	SHELL PLC	SUBSURFACE	ACTIVE															976.9	984.4	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 8 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															977.6	985.1	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 6 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															977.6	985.1	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 7 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															977.6	985.1	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUINS FPSO MOORING CHAIN 5 LAYDOWN	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE															977.6	985.1	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.8	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															977.8	985.3	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.7	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															977.8	985.3	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.5	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															977.8	985.3	e	e	e	e	a	g	a	e	e	e	d	g	e
ANCHOR PILE NO.6	ANCHOR PILE	SHELL PLC	SUBSURFACE	ACTIVE															977.8	985.3	e	e	e	e	a	g	a	e	e	e	d	g	e
MAGNUS D9 FLOWBASE	TEMPLATE	Enquest PLC	SUBSURFACE	ACTIVE															977.8	985.3	e	e	e	e	a	g	a	e	e	e	d	g	e
MAGNUS D9 TREE	OTHER SUBSEA	Enquest PLC	SUBSURFACE	ACTIVE															977.8	985.3	e	e	e	e	a	g	a	e	e	e	d	g	e
BELLMOUTH AT ABANDONED WELL D9 :1288	OTHER SUBSEA	Enquest PLC	SUBSURFACE	ACTIVE															977.8	985.3	e	e	e	e	a	g	a	e	e	e	d	g	e
PROTECTIVE STRUCTURE WELLHEAD MP5 (211/1 :1281	PROTECTION	Enquest PLC	SUBSURFACE	ACTIVE															977.9	985.3	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN DC3 DBBV	MANIFOLD	SHELL PLC	SUBSURFACE	ACTIVE															978.9	986.4	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN DC3 MANIFOLD	MANIFOLD	SHELL PLC	SUBSURFACE	ACTIVE															979.0	986.5	e	e	e	e	a	g	a	e	e	e	d	g	e
PENGUIN WELL C1	WELLHEAD	SHELL PLC	SUBSURFACE	NOT IN USE															979.0	986.5	e	e	e	e	a	g	a	e	e	e	e	g	e
PENGUIN WELL C3	WELLHEAD	SHELL PLC	SUBSURFACE	NOT IN USE															979.0	986.5	e	e	e	e	a	g	a	e	e	e	e	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Oil and Gas Surface and Subsurface Infrastructure

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

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Name	Type	Group	Surface/subsurface	Status	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA	
					2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																
DC3 MIDLINE STRUCTURE (MS1)	TOWHEAD	SHELL PLC	SUBSURFACE	ACTIVE														979.0	986.5	e	e	e	e	a	g	a	e	e	e	e	d	g	e	
PENGUIN DC3 UCS	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE														979.1	986.6	e	e	e	e	a	g	a	e	e	e	e	d	g	e	
D4 TREE	OTHER SUBSEA	Enquest PLC	SUBSURFACE	ACTIVE														979.2	986.7	e	e	e	e	a	g	a	e	e	e	e	d	g	e	
C-TRIASSIC WELL	WELLHEAD	SHELL PLC	SUBSURFACE	ACTIVE														979.3	986.8	e	e	e	e	a	g	a	e	e	e	e	d	g	e	
C-UPDIP RE-SPUD WELL	WELLHEAD	SHELL PLC	SUBSURFACE	ACTIVE														979.4	986.9	e	e	e	e	a	g	a	e	e	e	e	d	g	e	
DC7 MANIFOLD TOWHEAD	TOWHEAD	SHELL PLC	SUBSURFACE	ACTIVE														979.4	986.9	e	e	e	e	a	g	a	e	e	e	e	d	g	e	
PC04 WELL	WELLHEAD	SHELL PLC	SUBSURFACE	ACTIVE														979.4	986.9	e	e	e	e	a	g	a	e	e	e	e	d	g	e	
C-UPDIP WELL	WELLHEAD	SHELL PLC	SUBSURFACE	NOT IN USE														979.4	986.9	e	e	e	e	a	g	a	e	e	e	e	e	g	e	
PENGUIN DC2 DBBV	MANIFOLD	SHELL PLC	SUBSURFACE	ACTIVE														979.6	987.1	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
DC6 MANIFOLD TOWHEAD	TOWHEAD	SHELL PLC	SUBSURFACE	ACTIVE														979.7	987.2	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
PENGUIN DC2 RPCM STRUCTURE	PROTECTION	SHELL PLC	SUBSURFACE	ACTIVE														979.7	987.2	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
PENGUIN DC2 MANIFOLD	MANIFOLD	SHELL PLC	SUBSURFACE	ACTIVE														979.7	987.2	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
PENGUIN WELL A1	WELLHEAD	SHELL PLC	SUBSURFACE	ACTIVE														979.7	987.2	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
PENGUIN WELL A2	WELLHEAD	SHELL PLC	SUBSURFACE	NOT IN USE														979.7	987.2	e	e	e	e	a	g	a	e	e	e	e	e	e	g	e
PAN-W WELL	WELLHEAD	SHELL PLC	SUBSURFACE	ACTIVE														979.7	987.2	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
PENGUIN DC2 UCS	OTHER SUBSEA	SHELL PLC	SUBSURFACE	ACTIVE														979.8	987.3	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
D6 P3	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE														980.1	987.6	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
D6 P4	OTHER SUBSEA	BP EXPLORATION	SUBSURFACE	ACTIVE														980.1	987.6	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
D6 P2	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE														980.1	987.6	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
D6 P1	OTHER SUBSEA	ENQUEST PLC	SUBSURFACE	ACTIVE														980.1	987.6	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
PAN-N WELL	WELLHEAD	SHELL PLC	SUBSURFACE	ACTIVE														981.5	989.0	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
DC8 MIDLINE STRUCTURE	TOWHEAD	SHELL PLC	SUBSURFACE	ACTIVE														981.5	989.0	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
DEBRIS:ANTENNA - KFB 08/2009	DEBRIS	BP EXPLORATION	SUBSURFACE	ACTIVE														982.1	989.6	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
DC9 MANIFOLD TOWHEAD	TOWHEAD	SHELL PLC	SUBSURFACE	ACTIVE														983.5	991.0	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e
TYBALT WELL	WELLHEAD	SHELL PLC	SUBSURFACE	ACTIVE														983.5	991.0	e	e	e	e	a	g	a	e	e	e	e	e	d	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Disposal

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	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
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			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
WARRENPOINT B	IS671	Open															23.7	28.9	e	e	c	a	a	g	a	g	g	g	e	e	e
WARRENPOINT	IS670	Closed															26.9	32.0	e	e	e	a	a	g	a	g	g	g	e	e	e
KILKEEL	IS650	Open															29.9	35.3	e	e	e	a	a	g	a	g	g	g	e	e	e
CARLINGFORD	IS660	Closed															37.6	42.2	e	e	e	a	a	g	a	g	g	g	e	e	e
NEWCASTLE (NI)	IS640	Closed															48.2	54.1	e	e	e	a	a	g	a	g	g	g	e	e	e
DUNDRUM BAY	IS630	Closed															50.0	55.8	e	e	e	a	a	g	a	g	g	g	e	e	e
ARDGLASS	IS635	Closed															50.7	57.9	e	e	e	a	a	g	a	g	g	g	e	e	e
ARDGLASS B	IS636	Disused															53.1	60.1	e	e	e	a	a	g	a	g	g	g	e	e	e
Holyhead North	IS043	Open															71.1	80.3	e	e	e	a	a	g	a	g	g	g	e	e	e
HOLYHEAD DEEP	IS040	Closed															71.1	80.3	e	e	e	a	a	g	a	g	g	g	e	e	e
HOLYHEAD SOUTH	IS041	Closed															75.2	84.8	e	e	e	a	a	g	a	g	g	g	e	e	e
HOLHEAD EAST	IS042	Closed															77.6	87.0	e	e	e	a	a	g	a	g	g	g	e	e	e
ARDMILLON	IS610	Closed															81.9	88.6	e	e	e	a	a	g	a	g	g	g	e	e	e
PORT ST. MARY (I.O.M)	IS430	Closed															83.4	91.9	e	e	e	a	a	g	a	g	g	g	e	e	e
MANX WATERS	IS134	Closed															83.4	91.9	e	e	e	a	a	g	a	g	g	g	e	e	e
MANX WATRS (fish waste)	IS435	Closed															83.4	91.9	e	e	e	a	a	g	a	g	g	g	e	e	e
CASTLETOWN BAY (I.O.M)	IS440	Closed															84.5	93.0	e	e	e	a	a	g	a	g	g	g	e	e	e
PORTAVOGIE	IS620	Open															84.6	92.0	e	e	e	a	a	g	a	g	g	g	e	e	e
PEEL (I.O.M)	IS420	Open															91.1	99.4	e	e	e	a	a	g	a	g	g	g	e	e	e
POINT LYNAS	IS050	Closed															99.4	107.5	e	e	e	a	a	g	a	g	g	g	e	e	e
BELFAST DREDGINGS	IS540	Closed															99.9	105.6	e	e	e	a	a	g	a	g	g	g	e	e	e
DOUGLAS (I.O.M)	IS400	Open															100.6	109.1	e	e	e	e	a	g	a	g	g	g	e	e	e
BEAUFORTS DYKE, SCOTL	IS280	Closed															101.2	108.4	e	e	e	e	a	g	a	g	g	g	e	e	e
ISLE OF MAN SITE C	IS460	Closed															101.9	110.0	e	e	e	e	a	g	a	g	g	g	e	e	e
BANGOR	IS580	Closed															102.3	108.6	e	e	e	e	a	g	a	g	g	g	e	e	e
Douglas Harbour (I.O.M)	IS445	Open															102.3	110.8	e	e	e	e	a	g	a	g	g	g	e	e	e

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			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
FOLLY ROAD	IS530	Closed															103.4	109.1	e	e	e	e	a	g	a	g	g	e	e	e	e
COPELAND ISLAND	IS600	Closed															104.4	111.3	e	e	e	e	a	g	a	g	g	e	e	e	e
BEAUFORTS DYKE	IS260	Closed															106.2	113.9	e	e	e	e	a	g	a	g	g	e	e	e	e
CARRICKFERGUS	IS520	Closed															106.7	112.6	e	e	e	e	a	g	a	g	g	e	e	e	e
EDEN	IS510	Closed															108.4	114.5	e	e	e	e	a	g	a	g	g	e	e	e	e
BELFAST DREDGINGS B	IS595	Closed															108.4	115.3	e	e	e	e	a	g	a	g	g	e	e	e	e
LAXEY BAY (I.O.M)	IS450	Closed															110.6	119.2	e	e	e	e	a	g	a	g	g	e	e	e	e
BELFAST SLUDGE	IS590	Closed															111.0	117.7	e	e	e	e	a	g	a	g	g	e	e	e	e
BLACK HEAD	IS500	Closed															113.2	119.6	e	e	e	e	a	g	a	g	g	e	e	e	e
BELFAST DREDGINGS C	IS591	Open															114.1	120.9	e	e	e	e	a	g	a	g	g	e	e	e	e
MENAI STRAIT	IS030	Closed															115.0	124.6	e	e	e	e	a	g	a	g	g	e	e	e	e
CONWY BAY	IS055	Closed															119.0	127.5	e	e	e	e	a	g	a	g	g	e	e	e	e
RAMSEY (I.O.M)	IS410	Closed															119.9	128.3	e	e	e	e	a	g	a	g	g	e	e	e	e
BURROW HEAD B	IS300	Closed															121.9	130.0	e	e	e	e	a	g	a	g	g	e	e	e	e
DRUMMORE	IS285	Closed															122.7	130.5	e	e	e	e	a	g	a	g	g	e	e	e	e
DRUMMORE A	IS286	Closed															122.8	130.6	e	e	e	e	a	g	a	g	g	e	e	e	e
DRUMMORE C	IS288	Closed															122.9	130.7	e	e	e	e	a	g	a	g	g	e	e	e	e
DRUMMORE B	IS287	Closed															122.9	130.8	e	e	e	e	a	g	a	g	g	e	e	e	e
LARNE	MA600	Closed															124.0	129.9	e	e	e	e	a	g	a	g	g	e	e	e	e
PUFFIN ISLAND	IS060	Closed															125.2	134.0	e	e	e	e	a	g	a	g	g	e	e	e	e
LARNE A	MA605	Disused															125.6	131.6	e	e	e	e	a	g	a	g	g	e	e	e	e
LARNE B	MA601	Closed															125.6	131.6	e	e	e	e	a	g	a	g	g	e	e	e	e
PORTPATRICK	IS290	Closed															130.0	137.4	e	e	e	e	a	g	a	g	g	e	e	e	e
TREMADOC BAY	IS020	Closed															130.1	140.1	e	e	e	e	a	g	a	g	g	e	e	e	e
STRANRAER	MA015	Closed															131.9	138.9	e	e	e	e	a	g	a	g	g	e	e	e	e
NORTH CHANNEL, SCOTLA	MA010	Disused															132.2	139.2	e	e	e	e	a	g	a	g	g	e	e	e	e

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MOSTYN DEEP (MAINTENANCE)	IS102	Open															170.3	178.5																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</

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			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
COLERAINE	MA540	Closed															180.1	184.8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

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AYR BAY B	MA051	Closed															207.0	214.4	e	e	e	e	a	g	a	g	g	e	d	g	e
AYR BAY	MA050	Open															208.4	215.7	e	e	e	e	a	g	a	g	g	e	e	g	e
PORT ELLEN	MA030	Open															209.1	214.2	e	e	e	e	a	g	a	g	g	e	e	g	e
TAYINLOAN	MA040	Closed															212.2	218.1	e	e	e	e	a	g	a	g	g	e	d	g	e
PORTNAHAVEN	MA035	Open															213.82	218.52	e	e	e	e	a	g	a	g	g	e	e	g	e
BRODICK	MA017	Closed															214.9	221.8	e	e	e	e	a	g	a	g	g	e	d	g	e
BIRCH POINT	MA019	Closed															214.9	221.9	e	e	e	e	a	g	a	g	g	e	d	g	e
GARROCH HEAD	MA018	Disused															219.1	226.0	e	e	e	e	a	g	a	g	g	e	e	g	e
NEYLAND (OFF MILFORD HAVEN)	LU190	Open															219.4	227.9	e	e	e	e	a	g	a	g	g	e	e	g	e
MILFORD HAVEN	LU170	Closed															220.2	227.8	e	e	e	e	a	g	a	g	g	e	d	g	e
ST ANNS HEAD	LU180	Closed															220.5	228.1	e	e	e	e	a	g	a	g	g	e	d	g	e
MILFORD HAVEN THREE	LU169	Open															224.2	229.0	e	e	e	e	a	g	a	g	g	e	e	g	e
HUNTERSTON	MA023	Closed															229.9	236.9	e	e	e	e	a	g	a	g	g	e	d	g	e
MILFORD HAVEN TWO	LU168	Open															233.5	240.7	e	e	e	e	a	g	a	g	g	e	e	g	e
ROTHESAY BAY	MA016	Open															239.4	246.1	e	e	e	e	a	g	a	g	g	e	e	g	e
BURRY PORT	LU145	Closed															239.4	249.0	e	e	e	e	a	g	a	g	g	e	d	g	e
MILFORD HAVEN INDUSTRIAL	LU040	Closed															252.4	255.6	e	e	e	e	a	g	a	g	g	e	d	g	e
CLYDE	MA020	Closed															254.1	261.0	e	e	e	e	a	g	a	g	g	e	d	g	e
CLOCH POINT	MA021	Open															254.7	261.6	e	e	e	e	a	g	a	g	g	e	e	g	e
LOCH STAOSNAIG	MA070	Closed															258.1	263.3	e	e	e	e	a	g	a	g	g	e	d	g	e
MUMBLES HEAD	LU150	Closed															260.1	269.8	e	e	e	e	a	g	a	g	g	e	d	g	e
SWANSEA BAY (INNER)	LU120	Closed															260.8	270.5	e	e	e	e	a	g	a	g	g	e	d	g	e
SWANSEA BAY (OUTER)	LU130	Open															263.7	273.4	e	e	e	e	a	g	a	g	g	e	e	g	e
BRISTOL CHANNEL	LU160	Closed															270.2	279.7	e	e	e	e	a	g	a	g	g	e	d	g	e
BRISTOL CHANNEL-OLD	LU047	Closed															274.4	283.9	e	e	e	e	a	g	a	g	g	e	d	g	e
BRISTOL CHANNEL (ROUGH)	LU050	Closed															277.6	287.2	e	e	e	e	a	g	a	g	g	e	d	g	e

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MORTE BAY	LU030	Closed															290.1	299.4	e	e	e	e	a	g	a	g	g	g	e	d	g	e
HARTLAND POINT	LU020	Closed															290.5	299.2	e	e	e	e	a	g	a	g	g	g	e	d	g	e
USKMOUTH	LU200	Closed															299.4	309.5	e	e	e	e	a	g	a	g	g	g	e	d	g	e
CARDIFF OUTFALL TEMPORARY	LU111	Closed															302.3	312.3	e	e	e	e	a	g	a	g	g	g	e	d	g	e
CARDIFF GROUNDS	LU110	Open															302.4	312.4	e	e	e	e	a	g	a	g	g	g	e	e	g	e
NEWPORT	LU140	Open															304.5	314.6	e	e	e	e	a	g	a	g	g	g	e	e	g	e
MERKUR BUOY	LU115	Open															305.3	315.2	e	e	e	e	a	g	a	g	g	g	e	e	g	e
Bristol Holm Deep	LU065	Closed															307.0	317.0	e	e	e	e	a	g	a	g	g	g	e	d	g	e
BRISTOL DEEP	LU060	Closed															308.4	318.5	e	e	e	e	a	g	a	g	g	g	e	d	g	e
Oldbury Power Station B	LU088	Closed															309.2	319.3	e	e	e	e	a	g	a	g	g	g	e	d	g	e
OLDBURY POWER STATION	LU087	Closed															309.8	319.8	e	e	e	e	a	g	a	g	g	g	e	d	g	e
DENNY ISLAND BEACON	LU100	Closed															310.3	320.4	e	e	e	e	a	g	a	g	g	g	e	d	g	e
NEW DENNY ISLAND	LU101	Closed															310.3	320.4	e	e	e	e	a	g	a	g	g	g	e	d	g	e
AVONMOUTH (OUTER)	LU090	Closed															312.0	322.1	e	e	e	e	a	g	a	g	g	g	e	d	g	e
PORTISHEAD	LU070	Open															312.8	322.9	e	e	e	e	a	g	a	g	g	g	e	e	g	e
TIREE	MA080	Closed															312.8	317.5	e	e	e	e	a	g	a	g	g	g	e	d	g	e
AVONMOUTH (INNER)	LU080	Open															313.2	323.2	e	e	e	e	a	g	a	g	g	g	e	e	g	e
ROYAL PORTBURY ENTRANCE	LU083	Disused															314.3	324.4	e	e	e	e	a	g	a	g	g	g	e	e	g	e
ROYAL EDWARD ENTRANCE	LU085	Open															314.5	324.6	e	e	e	e	a	g	a	g	g	g	e	e	g	e
ROYAL PORTBURY PIER	LU084	Open															314.5	324.6	e	e	e	e	a	g	a	g	g	g	e	e	g	e
WESTON FORESHORE	LU191	Closed															316.0	326.0	e	e	e	e	a	g	a	g	g	g	e	d	g	e
Weston Foreshore 3	LU193	Open															316.1	326.1	e	e	e	e	a	g	a	g	g	g	e	e	g	e
WESTON FORESHORE 2	LU192	Closed															316.4	326.4	e	e	e	e	a	g	a	g	g	g	e	d	g	e
WATCHET HARBOUR	LU055	Disused															318.6	328.4	e	e	e	e	a	g	a	g	g	g	e	e	g	e
Hinkley Intake 4	LU206	Closed															319.6	329.5	e	e	e	e	a	g	a	g	g	g	e	d	g	e
Hinkley Intake 2	LU204	Closed															319.7	329.6	e	e	e	e	a	g	a	g	g	g	e	d	g	e

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			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																
Hinkley Intake 3	LU205	Closed															319.8	329.7	e	e	e	e	a	g	a	g	g	g	e	d	g	e
Hinkley Intake 1	LU203	Closed															319.9	329.8	e	e	e	e	a	g	a	g	g	g	e	d	g	e
Hinkley Outfalls	LU201	Closed															321.3	331.2	e	e	e	e	a	g	a	g	g	g	e	d	g	e
Hinkley C	LU202	Closed															322.2	332.1	e	e	e	e	a	g	a	g	g	g	e	d	g	e
RIVER PARRETT	LU057	Closed															329.5	339.4	e	e	e	e	a	g	a	g	g	g	e	d	g	e
PADSTOW BAY	LU010	Open															338.8	346.0	e	e	e	e	a	g	a	g	g	g	e	e	g	e
ISLE OF EIGG	HE020	Closed															346.2	351.5	e	e	e	e	a	g	a	g	g	g	e	d	g	e
LOCH NEVIS	HE070	Disused															365.2	371.0	e	e	e	e	a	g	a	g	g	g	e	e	g	e
PORT MOR ISLE OF MUCK	HE080	Closed															368.3	373.3	e	e	e	e	a	g	a	g	g	g	e	d	g	e
SOUND OF CANNA	HE025	Closed															369.4	374.4	e	e	e	e	a	g	a	g	g	g	e	d	g	e
LANTIC BAY	PL060	Open															374.2	381.9	e	e	e	e	a	g	a	g	g	g	e	e	g	e
TRURO RIVER	PL071	Closed															377.7	384.1	e	e	e	e	a	g	a	g	g	g	e	d	g	e
FORT PICKLECOMBE Y	PL022	Closed															380.0	388.7	e	e	e	e	a	g	a	g	g	g	e	d	g	e
RAME HEAD	PL030	Closed															380.4	388.8	e	e	e	e	a	g	a	g	g	g	e	d	g	e
RAME HEAD A	PL050	Closed															380.9	389.4	e	e	e	e	a	g	a	g	g	g	e	d	g	e
RAME HEAD SOUTH	PL031	Open															381.1	389.5	e	e	e	e	a	g	a	g	g	g	e	e	g	e
Plymouth Deep	PL035	Open															384.6	392.9	e	e	e	e	a	g	a	g	g	g	e	e	g	e
FALMOUTH MARINA	PL072	Disused															385.9	391.9	e	e	e	e	a	g	a	g	g	g	e	e	g	e
Marazion Beach	PL095	Closed															387.8	392.1	e	e	e	e	a	g	a	g	g	g	e	d	g	e
PLYMOUTH	PL020	Closed															388.4	396.9	e	e	e	e	a	g	a	g	g	g	e	d	g	e
NEWLYN HARBOUR	PL110	Closed															390.3	394.4	e	e	e	e	a	g	a	g	g	g	e	d	g	e
MOUNTS BAY	PL100	Open															390.5	394.8	e	e	e	e	a	g	a	g	g	g	e	e	g	e
FALMOUTH BAY	PL080	Closed															392.2	398.7	e	e	e	e	a	g	a	g	g	g	e	d	g	e
FALMOUTH BAY	PL070	Closed															392.8	399.3	e	e	e	e	a	g	a	g	g	g	e	d	g	e
FALMOUTH BAY (B)	PL075	Open															393.4	399.9	e	e	e	e	a	g	a	g	g	g	e	e	g	e
KINGSWEAR	PL007	Closed															393.8	403.2	e	e	e	e	a	g	a	g	g	g	e	d	g	e

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			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																
CASTLE POINT	PL005	Closed															394.4	403.8	e	e	e	e	a	g	a	g	g	g	e	d	g	e
EDDYSTON	PL040	Closed															396.9	405.2	e	e	e	e	a	g	a	g	g	g	e	d	g	e
SALCOMBE A	PL015	Closed															400.4	409.6	e	e	e	e	a	g	a	g	g	g	e	d	g	e
SALCOMBE B	PL018	Closed															400.4	409.7	e	e	e	e	a	g	a	g	g	g	e	d	g	e
START BAY	PL010	Closed															401.4	410.7	e	e	e	e	a	g	a	g	g	g	e	d	g	e
BOLT HEAD	PL019	Closed															403.1	412.3	e	e	e	e	a	g	a	g	g	g	e	d	g	e
BÀGH ÙIGE	HE034	Open															427.51	432.65	e	e	e	e	a	g	a	g	g	g	e	e	g	e
LOCH MADDY	HE030	Closed															435.0	439.7	e	e	e	e	a	g	a	g	g	g	e	d	g	e
LEVERBURGH	HE033	Closed															447.9	452.6	e	e	e	e	a	g	a	g	g	g	e	d	g	e
ULLAPOOL (LOCH BROOM)	HE050	Disused															463.2	469.4	e	e	e	e	a	g	a	g	g	g	e	e	g	e
LOCHINVER	HE040	Closed															489.3	495.3	e	e	e	e	a	g	a	g	g	g	e	d	g	e
STORNOWAY	HE035	Closed															494.4	499.7	e	e	e	e	a	g	a	g	g	g	e	d	g	e
LOCH INCHARD	HE060	Closed															525.9	532.0	e	e	e	e	a	g	a	g	g	g	e	d	g	e
Dounreay MicroSite	FI002	Closed															554.2	560.9	e	e	e	e	a	g	a	g	g	g	e	d	g	e
SCRABSTER	FI005	Closed															563.0	569.9	e	e	e	e	a	g	a	g	g	g	e	d	g	e
Scrabster Extension	FI008	Closed															563.3	570.1	e	e	e	e	a	g	a	g	g	g	e	d	g	e
THURSO	FI010	Closed															563.7	570.6	e	e	e	e	a	g	a	g	g	g	e	d	g	e
GILLS BAY	FI030	Closed															572.2	579.2	e	e	e	e	a	g	a	g	g	g	e	d	g	e
SCAPA	FI055	Disused															586.6	593.6	e	e	e	e	a	g	a	g	g	g	e	e	g	e
STROMNESS B	FI050	Closed															596.0	602.9	e	e	e	e	a	g	a	g	g	g	e	d	g	e
STROMNESS C	FI045	Closed															598.7	605.6	e	e	e	e	a	g	a	g	g	g	e	d	g	e
STROMNESS A	FI040	Disused															599.1	605.9	e	e	e	e	a	g	a	g	g	g	e	e	g	e
KIRKWALL	FI015	Closed															614.0	621.0	e	e	e	e	a	g	a	g	g	g	e	d	g	e
ORKNEY	FI020	Closed															637.1	644.2	e	e	e	e	a	g	a	g	g	g	e	d	g	e
ATLANTIC FISH WASTE	AT090	Closed															641.9	646.6	e	e	e	e	a	g	a	g	g	g	e	d	g	e
NORTH FENI RIDGE	AT001	Closed															671.3	675.9	e	e	e	e	a	g	a	g	g	g	e	d	g	e

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			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
NORTH HAVEN	FI110	Closed														697.1	704.4	e	e	e	e	a	g2	a	g2	g2	g2	e	d	g2	e
Celtic Deep	AT055	Closed														705.9	696.2	e	e	e	e	a	g2	a	g2	g2	g2	e	d	g2	e
FOULA	FI100	Disused														745.8	752.8	e	e	e	e	a	g2	a	g2	g2	g2	e	e	g2	e
SCALLOWAY	FI095	Closed														759.6	766.8	e	e	e	e	a	g2	a	g2	g2	g2	e	d	g2	e
PUNDS VOE	FI090	Closed														762.2	769.5	e	e	e	e	a	g2	a	g2	g2	g2	e	d	g2	e
TOFT	FI125	Disused														800.1	807.3	e	e	e	e	a	g2	a	g2	g2	g2	e	e	g2	e
ULSTA	FI120	Disused														801.7	808.9	e	e	e	e	a	g2	a	g2	g2	g2	e	e	g2	e

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Permit Number	Permit holder	Method	Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment and Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033															
S0015-03	Drogheda Port Company	Dumping site A1 Release of the material through the hull of the vessel while the vessel is in motion (2,816,000 tonnes)															11.7	10.2	b	b	c	c	a	g	a	a	g	e	e	e
S0015-03	Drogheda Port Company	Dumping site A2 Release of the material through the hull of the vessel while the vessel is in motion (2,816,000 tonnes)															11.7	10.2	b	b	c	c	a	g	a	a	g	e	e	e
S0031-01	Malahide Marina Village Limited	Water Injection Dredging															23.7	18.4	e	e	d	d	a	g	a	g	g	e	e	e
S0024-02	Dublin Port Company	Release of 1,102,723 tonnes (wet weight) of dredged material through the hull of the vessel while the vessel is in motion															32.4	33.1	e	e	e	c	a	g	a	g	g	e	e	e
S0004-03	Dublin Port Company	Release of dredged material through the hull of the vessel while the vessel is in motion															32.4	33.1	e	e	e	c	a	g	a	g	g	e	e	e
S0027-01	Arklow Energy Limited	Plough Dredging															88.3	91.5	e	e	e	d	a	g	a	g	g	e	d	e
S0016-01	Iarnrod Eireann (Rosslare Europort)	Release of dredge material from maintenance dredging through the hull of the vessel															149.0	148.5	e	e	e	e	a	g	a	g	g	e	d	e
S0030-01	Wexford County Council	Release of dredge material through the hull of the vessel while the vessel is in motion.															170.6	165.7	e	e	e	e	a	g	a	g	g	e	e	e
S0023-01	Sligo County Council	Water Injection Dredging															175.0	167.9	e	e	e	e	a	g	a	g	g	e	d	e
S0023-01	Sligo County Council	Release of dredge material through hull of vessel															175.0	167.9	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															181.2	174.6	e	e	e	e	a	g	a	g	g	e	d	e
S0012-03	Port of Waterford Company	Plough dredging															1													

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b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
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f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Permit Number	Permit holder	Method	Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment and Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
			2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033															
S0007-03	Kerry County Council	Plough dredging														302.5	287.8	e	e	e	e	a	g	a	g	g	g	e		
S0032-01	PSE Kinsale Energy Limited Cork	Dumping at sea (leaving in situ) of a redundant gas export pipeline, in-field gas pipelines and in-field umbilicals associated with the decommissioning of the Kinsale Head gas fields and facilities. In total, approximately 92km of pipelines, varying in size from 273–610mm and 21km of umbilicals, varying in diameter from 82–98mm will be left in situ.														373.1	366.7	e	e	e	e	a	g	a	g	g	g	e		
S0035-01	PSE Seven Heads Limited	Dumping at sea (leaving in situ) of a redundant gas export pipeline, in-field gas pipelines and in-field umbilicals associated with the decommissioning of the Seven Heads gas fields and facilities. In total, 61km of pipelines, of either 8 inch or 18inch in diameter will be left in situ. In total 61km of umbilicals will be left in situ, of either 93.2mm or 123.5mm in diameter.														384.2	377.3	e	e	e	e	a	g	a	g	g	g	e		

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Shipping & Ports

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	Abandoned/Not in use
	Construction
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Construction Period (orange outline denotes proposed development offshore construction period)																Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
Feature	Area/Country	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
Bremore Port	Bremore															16.3	0.2	f	e	e	f	f	g	f	c	g	f	e	e	f
Dublin Port	Dublin															22.9	35.8	e	e	e	a	a	g	a	a	g	e	d	e	e
Port	Kilkeel															34.2	39.0	e	e	e	a	a	g	a	a	g	e	d	g	e
Traffic Separation Scheme Lanes	Off Skerries															63.5	72.8	e	e	e	a	a	g	a	a	g	e	d	g	e
Traffic Separation Scheme Lanes	Off Skerries															67.1	76.4	e	e	e	a	a	g	a	a	g	e	d	g	e
Traffic Separation Scheme Lanes	Off Skerries															70.7	80.1	e	e	e	a	a	g	a	a	g	e	d	g	e
Traffic Separation Zones	Off Skerries															72.6	80.4	e	e	e	a	a	g	a	a	g	e	d	g	e
Traffic Separation Scheme Lanes	Off Skerries															77.2	85.5	e	e	e	a	a	g	a	a	g	e	d	g	e
Traffic Separation Zones	Off Smalls															77.2	85.5	e	e	e	a	a	g	a	a	g	e	d	g	e
Port	Belfast															96.5	102.1	e	e	e	a	a	g	a	a	g	e	d	g	e
Port	Douglas															101.7	110.2	e	e	e	e	a	g	a	a	g	e	d	g	e
Port	Kilroot															109.9	116.1	e	e	e	e	a	g	a	a	g	e	d	g	e
Port	Ramsey															116.6	125.0	e	e	e	e	a	g	a	a	g	e	d	g	e
Traffic Separation Scheme Lanes	In Liverpool Bay															142.1	149.7	e	e	e	e	a	g	a	a	g	e	d	g	e
Traffic Separation Zones	In Liverpool Bay															142.1	149.7	e	e	e	e	a	g	a	a	g	e	d	g	e
Traffic Separation Scheme Lanes	In Liverpool Bay															142.6	150.3	e	e	e	e	a	g	a	a	g	e	d	g	e
Traffic Separation Zones	In Liverpool Bay															142.6	150.3	e	e	e	e	a	g	a	a	g	e	d	g	e
Areas to be Avoided	In Liverpool Bay															148.8	156.4	e	e	e	e	a	g	a	a	g	e	d	g	e
Port	Liverpool Bay Terminal															151.7	159.3	e	e	e	e	a	g	a	a	g	e	d	g	e
Traffic Separation Scheme Lanes	In the North Channel															164.6	169.9	e	e	e	e	a	g	a	a	g	e	d	g	e
Port	Londonderry															165.1	169.5	e	e	e	e	a	g	a	a	g	e	d	g	e
Traffic Separation Scheme Lanes	In the North Channel															168.6	174.2	e	e	e	e	a	g	a	a	g	e	d	g	e
Port	WORKINGTON															171.7	180.1	e	e	e	e	a	g	a	a	g	e	d	g	e
Traffic Separation Scheme Lanes	In the North Channel															177.3	182.4	e	e	e	e	a	g	a	a	g	e	d	g	e
Traffic Separation Zones	In the North Channel															177.3	182.4	e	e	e	e	a	g	a	a	g	e	d	g	e
Traffic Separation Scheme Lanes	In the North Channel															183.4	188.7	e	e	e	e	a	g	a	a	g	e	d	g	e
Port	Fishguard															185.5	194.4	e	e	e	e	a	g	a	a	g	e	d	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Shipping & Ports

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		Construction Period (orange outline denotes proposed development offshore construction period)																													
Feature	Area/Country	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA	
Traffic Separation Scheme Lanes	Off Smalls															192.4	195.1	e	e	e	e	a	a	a	a	a	e	d	a	e	
Traffic Separation Scheme Lanes	Off Smalls															194.9	198.7	e	e	e	e	a	a	a	a	a	e	d	a	e	
Port	Heysham															195.2	203.4	e	e	e	e	a	a	a	a	a	e	d	a	e	
Port	Ayr															207.1	214.5	e	e	e	e	a	a	a	e	a	e	d	a	e	
Areas to be Avoided	Between the Smalls Lighthouse and Grassholme Island																	e	e	e	e	a	a	e	e	a	e	d	a	e	
																207.2	211.9	e	e	e	e	a	a	e	a	e	a	e	d	a	e
Port	Foynes															240.5	225.8	e	e	e	e	a	a	a	e	a	e	d	a	e	
Port	Cork															252.7	242.0	e	e	e	e	a	a	a	e	a	e	d	a	e	
Port	Kilrush															262.7	247.6	e	e	e	e	a	a	a	e	a	e	d	a	e	
Port	Port Talbot															263.0	272.8	e	e	e	e	a	a	a	e	a	e	d	a	e	
Deep Water Route Part	Deep Water route west of the Hebrides															363.2	367.8	e	e	e	e	a	a	a	e	a	e	d	a	e	
Traffic Separation Scheme Lanes	Off Land's End, Between Seven Stones and Longships															363.6	366.1	e	e	e	e	a	a	a	e	a	e	d	a	e	
Traffic Separation Zones	Off Land's End, Between Seven Stones and Longships															363.6	366.1	e	e	e	e	a	a	a	e	a	e	d	a	e	
Traffic Separation Scheme Lanes	Off Land's End, Between Seven Stones and Longships															363.8	365.8	e	e	e	e	a	a	a	e	a	e	d	a	e	
Traffic Separation Zones	Off Land's End, Between Seven Stones and Longships															363.8	365.8	e	e	e	e	a	a	a	e	a	e	d	a	e	
Inshore Traffic Zones	Off Land's End, Between Seven Stones and Longships															382.1	385.0	e	e	e	e	a	a	a	e	a	e	d	a	e	
Inshore Traffic Zones	Isles of Scilly															386.3	388.1	e	e	e	e	a	a	a	e	a	e	d	a	e	
Traffic Separation Scheme Lanes	West of the Scilly Isles															399.1	397.9	e	e	e	e	a	a	a	e	a	e	d	a	e	
Traffic Separation Zones	West of the Scilly Isles															399.1	397.9	e	e	e	e	a	a	a	e	a	e	d	a	e	
Traffic Separation Scheme Lanes	West of the Scilly Isles															400.3	399.7	e	e	e	e	a	a	a	e	a	e	d	a	e	
Traffic Separation Zones	West of the Scilly Isles															400.3	399.7	e	e	e	e	a	a	a	e	a	e	d	a	e	
Traffic Separation Scheme Lanes	Off Neist Point in The Minches															410.4	415.2	e	e	e	e	a	a	a	e	a	e	d	a	e	
Traffic Separation Scheme Lanes	Off Neist Point in The Minches															411.6	416.3	e	e	e	e	a	a	a	e	a	e	d	a	e	

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
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		Construction Period (orange outline denotes proposed development offshore construction period)																													
Feature	Area/Country	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA	
Traffic Separation Scheme Lanes	Off Neist Point in The Minches															414.2	419.0	e	e	e	e	a	g	a	e	g	e	d	g	e	
Traffic Separation Zones	Off Neist Point in The Minches															414.2	419.0	e	e	e	e	a	g	a	e	g	e	d	g	e	
Traffic Separation Scheme Lanes	Off Neist Point in The Minches															416.0	420.7	e	e	e	e	a	g	a	e	g	e	d	g	e	
Traffic Separation Scheme Lanes	South of the Scilly Isles															430.5	431.6	e	e	e	e	a	g	a	e	g	e	d	g	e	
Traffic Separation Zones	South of the Scilly Isles															430.5	431.6	e	e	e	e	a	g	a	e	g	e	d	g	e	
Traffic Separation Scheme Lanes	South of the Scilly Isles															439.8	440.9	e	e	e	e	a	g	a	e	g	e	d	g	e	
Traffic Separation Zones	South of the Scilly Isles															439.8	440.9	e	e	e	e	a	g	a	e	g	e	d	g	e	
Traffic Separation Scheme Lanes	Off Casquets															444.7	454.3	e	e	e	e	a	g	a	e	g	e	d	g	e	
Traffic Separation Zones	Off Casquets															444.7	454.3	e	e	e	e	a	g	a	e	g	e	d	g	e	
Deep Water Route Part	Deep Water route west of the Hebrides															450.6	455.2	e	e	e	e	a	g	a	e	g	e	d	g	e	
Traffic Separation Scheme Lanes	Off Casquets															462.9	472.4	e	e	e	e	a	g	a	e	g	e	d	g	e	
Traffic Separation Zones	Off Casquets															462.9	472.4	e	e	e	e	a	g	a	e	g	e	d	g	e	
Deep Water Route Part	Deep Water route west of the Hebrides															518.9	523.7	e	e	e	e	a	g	a	e	g	e	d	g	e	
Areas to be Avoided	In the Region of the Orkney Islands															581.9	588.9	e	e	e	e	a	g	a	e	g	e	d	g	e	
Areas to be Avoided																681.8	689.1	e	e	e	e	a	g	a	e	g	e	d	g	e	
Areas to be Avoided	Area to be avoided 2 - In the region of the Shetland Islands															716.6	723.9	e	e	e	e	a	g	a	e	g	e	d	g	e	
Precautionary Areas	Precautionary area 1 - In the region of the Shetland Islands															806.2	813.1	e	e	e	e	a	g	a	e	g	e	d	g	e	
Areas to be Avoided	Area to be avoided 2 - In the region of the Shetland Islands															812.3	819.5	e	e	e	e	a	g	a	e	g	e	d	g	e	
Areas to be Avoided	Area to be avoided 1 - In the region of the Shetland Islands															814.9	822.1	e	e	e	e	a	g	a	e	g	e	d	g	e	

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		Construction Period (orange outline denotes proposed development offshore construction period)																													
Feature	Area/Country	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA	
Areas to be Avoided	Area to be avoided 1 - In the region of the Shetland Islands															819.4	826.6	e	e	e	e	a	g	a	e	g	e	d	g	e	
Areas to be Avoided	Area to be avoided 1 - In the region of the Shetland Islands															819.5	826.6	e	e	e	e	a	g	a	e	g	e	d	g	e	

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Aquaculture

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	Operation and Maintenance
	Decommissioning
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g	No effect-receptor pathway: Screened out of assessment.

Site ID	Licence Holder	County	Product	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Interstitial Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Interstitial Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T01-101A	Ciarán Traynor	Louth	Shellfish															31.0	35.7	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-025C	Carlingford Oyster Company Ltd	Louth	Shellfish															31.8	36.4	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-100A	Keenan Oysters Ltd	Louth	Shellfish															31.8	36.4	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-102A	Gary Lamph & Charm Louet-Feisser	Louth	Shellfish															32.0	36.6	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-018A	Cooley Oysters Ltd	Louth	Shellfish															32.2	36.9	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-108A	Cooley Oysters Ltd	Louth	Shellfish															32.5	37.2	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-021	Cooley Oysters Ltd	Louth	Shellfish															32.7	37.4	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-121A	Cooley Oysters Ltd	Louth	Shellfish															33.0	37.6	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-107A	Cooley Oysters Ltd	Louth	Shellfish															33.0	37.6	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-018B	Cooley Oysters Ltd	Louth	Shellfish															33.2	37.9	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-094A	Cooley Oysters Ltd	Louth	Shellfish															33.4	38.0	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-118A	Keenan Oysters Ltd	Louth	Shellfish															33.9	38.5	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-026A	Keenan Oysters Ltd	Louth	Shellfish															34.1	38.7	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-089A	Keenan Oysters Ltd	Louth	Shellfish															34.1	38.8	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-117A	Keenan Oysters Ltd	Louth	Shellfish															34.3	38.9	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-044A	Carlingford Oyster Company Ltd	Louth	Shellfish															34.3	39.0	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-043A	Kian Louet-Feisser	Louth	Shellfish															34.4	39.1	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-025A	Carlingford Oyster Company Ltd	Louth	Shellfish															34.5	39.1	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-020	Cooley Oysters Ltd	Louth	Shellfish															34.6	39.2	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-043C	Charm Louet-Feisser	Louth	Shellfish															34.6	39.3	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-019	Cooley Oysters Ltd	Louth	Shellfish															34.7	39.3	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-024	Keenan Oysters Ltd	Louth	Shellfish															34.9	39.5	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-060A1	Hugh McCrum	Louth	Shellfish															34.9	39.6	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-120A	Conan Lamph	Louth	Shellfish															35.0	39.6	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-043B	Charm Louet-Feisser	Louth	Shellfish															35.1	39.7	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-044B	Carlingford Oyster Company Ltd	Louth	Shellfish															35.3	39.9	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-008A	Carlingford Oyster Company Ltd	Louth	Shellfish															35.4	40.0	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-023A	Keenan Oysters Ltd	Louth	Shellfish															35.8	40.4	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-004	Keenan Oysters Ltd	Louth	Shellfish															36.1	40.7	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-072B1	Fresco Seafoods Ltd	Louth	Shellfish															36.2	40.8	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-009	Cooley Oysters Ltd	Louth	Shellfish															36.2	40.8	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-012	Cooley Oysters Ltd	Louth	Shellfish															36.3	40.9	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-071A	Holland Based Shellfish International BV	Louth	Shellfish															36.4	41.0	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-050A1	Carlingford Lough Shellfish Co-op Society Ltd	Louth	Shellfish															36.5	41.1	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-105A	Down Mussels Ltd	Louth	Shellfish															37.6	42.2	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-103A	A. McCarthy Mussels Ltd	Louth	Shellfish															38.5	43.1	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-050C	Carlingford Lough Shellfish Co-op Society Ltd	Louth	Shellfish															39.7	44.3	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-029B	Liam O'Connor	Louth	Shellfish															39.9	44.4	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-066A	Emerald Mussels Ltd	Louth	Shellfish															40.7	45.3	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-074A2	Emerald Mussels Ltd	Louth	Shellfish															40.9	45.5	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-061A1	Ciaran Morgan	Louth	Shellfish															41.1	45.6	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-070A1	Holland Shellfish Ireland	Louth	Shellfish															41.1	45.7	e	e	e	a	a	g	a	e	g	e	d	g	e
T01-090A	Fresco Seafoods Ltd	Louth	Shellfish															42.9	47.5	e	e	e	a	a	g	a	e	g	e	d	g	e
T32-027A	Irish Mussel Seed Company Ltd	Wicklow	Shellfish															96.2	96.3	e	e	e	a	a	g	a	e	g	e	d	g	e
T03-052A	WD Shellfish Ltd	Wexford	Shellfish															143.9	141.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T03-035C	Wexford Mussels Ltd	Wexford	Shellfish															143.9	141.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T03-055F&C	Crescent Seafoods Ltd	Wexford	Shellfish															144.0	141.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T03-049B	River Bank Mussels Ltd	Wexford	Shellfish															144.0	141.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T03-046A	Fjord Fresh Mussels Ltd	Wexford	Shellfish															144.1	141.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T03-046B	Fjord Fresh Mussels Ltd	Wexford	Shellfish															144.3	141.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T03-055E	Crescent Seafoods Ltd	Wexford	Shellfish															144.3	141.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T03-049D	River Bank Mussels Ltd	Wexford	Shellfish															144.3	141.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T03-048A	Noel & Sheila Scallan	Wexford	Shellfish															144.4	141.9	e	e	e	e	a	g	a	e	g	e	d	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Aquaculture

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Site ID	Licence Holder	County	Product	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA	
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																
T03-052B	WD Shellfish Ltd	Wexford	Shellfish															144.4	141.8	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-035A	Wexford Mussels Ltd	Wexford	Shellfish															144.6	142.0	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-030E	T.L. Mussels Ltd	Wexford	Shellfish															144.9	142.6	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-030F	T.L. Mussels Ltd	Wexford	Shellfish															144.9	142.7	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-035F&G	Wexford Mussels Ltd.	Wexford	Shellfish															145.0	142.9	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-030B	T.L. Mussels Ltd	Wexford	Shellfish															145.3	142.6	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-049A	River Bank Mussels Ltd	Wexford	Shellfish															145.5	142.8	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-071A	River Bank Mussels Ltd	Wexford	Shellfish															145.6	143.5	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-047C	Loch Garman Harbour Mussels Ltd	Wexford	Shellfish															145.6	143.1	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-035B	Wexford Mussels Ltd	Wexford	Shellfish															145.7	143.3	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-047A	Loch Garman Harbour Mussels Ltd	Wexford	Shellfish															146.3	143.5	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-030D	T.L. Mussels Ltd	Wexford	Shellfish															146.4	143.7	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-030A2	T.L. Mussels Ltd	Wexford	Shellfish															146.6	144.1	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-046C	Fjord Fresh Mussels Ltd	Wexford	Shellfish															147.0	144.5	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-049C	River Bank Mussels Ltd	Wexford	Shellfish															147.4	144.9	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-079A	Paddy Cullen	Wexford	Shellfish															148.0	145.3	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-030C	T.L. Mussels Ltd	Wexford	Shellfish															148.0	145.5	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-047B	Loch Garman Harbour Mussels Ltd	Wexford	Shellfish															148.4	146.0	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-092A	Patrick Cullen	Wexford	Shellfish															148.5	146.4	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-049C1	River Bank Mussels Ltd	Wexford	Shellfish															148.5	146.0	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-038A	Ballyteigue Oysters Ltd	Wexford	Shellfish															163.9	159.5	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-095A	Johnny Neville and Jeannette Brugman	Wexford	Shellfish															164.0	159.7	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-041-1B	Eugene Fitzpatrick	Wexford	Shellfish															164.3	158.6	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-041-1A	Eugene Fitzpatrick	Wexford	Shellfish															164.4	158.8	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-031A	Bannow Island Shellfish Ltd	Wexford	Shellfish															164.4	158.7	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-032B	Special Bannow Bay Shellfish Ltd	Wexford	Shellfish															164.4	158.9	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-032A	Special Bannow Bay Shellfish Ltd	Wexford	Shellfish															164.4	158.8	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-032-1	Special Bannow Bay Shellfish Ltd	Wexford	Shellfish															164.5	158.9	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-041B	Eugene Fitzpatrick	Wexford	Shellfish															164.5	158.9	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-025-1	Hookhead Shellfish Ltd	Wexford	Shellfish															164.6	158.9	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-031-1	Sean Ffrench, Bannow Island Shellfish Ltd	Wexford	Shellfish															164.6	159.0	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-041A	Eugene Fitzpatrick	Wexford	Shellfish															164.8	159.1	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-031B	Bannow Island Shellfish Ltd	Wexford	Shellfish															164.8	159.2	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-025B	Hookhead Shellfish Ltd	Wexford	Shellfish															164.9	159.1	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T03-025A	Hookhead Shellfish Ltd	Wexford	Shellfish															165.3	159.5	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T04-037A	South East Shellfish Co-Op Ltd	Waterford	Shellfish															166.8	159.7	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T04-151A	Oceanus Fishing Ltd	Waterford	Shellfish															167.0	159.9	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T04-037D	South East Shellfish Co-Op Ltd	Waterford	Shellfish															168.6	161.7	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T04-123A	Woodstown Bay Shellfish Ltd	Waterford	Shellfish															169.5	162.7	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-009	Donegal Shellfish Ltd	Donegal	Shellfish															170.3	167.8	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-463A	Paul McHugh	Donegal	Shellfish															170.8	168.1	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-350A	Paul & George McHugh	Donegal	Shellfish															170.8	168.2	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-465A	Paul McHugh	Donegal	Shellfish															170.9	168.3	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-374A	Seabreeze Ltd	Donegal	Shellfish															170.9	168.4	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T04-123B	Woodstown Bay Shellfish Ltd	Waterford	Shellfish															171.0	164.2	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-350B	Paul & George McHugh	Donegal	Shellfish															171.0	168.4	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-092C	Seabreeze Ltd	Donegal	Shellfish															171.1	168.5	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-467D	Seabreeze Ltd	Donegal	Shellfish															171.1	168.6	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-402D	Seabreeze Ltd	Donegal	Shellfish															171.1	168.7	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-463B	Paul McHugh	Donegal	Shellfish															171.2	168.6	e	e	e	e	a	12	a	e	e	12	e	d	12	e
T12-092B	Seabreeze Ltd	Donegal	Shellfish															171.3	168.7	e	e	e	e	a	12	a	e	e	12	e	d	12	e

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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T04-152A	Oceanus Fishing Ltd	Waterford	Shellfish															171.7	165.0	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-140	S.B.S. Ltd	Waterford	Shellfish															171.8	165.0	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-401C	Eugene Doherty, Conor Reid & Greg McGroary	Donegal	Shellfish															171.9	169.5	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-467C	Seabreeze Ltd	Donegal	Shellfish															171.9	169.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-402B	Seabreeze Ltd	Donegal	Shellfish															172.0	169.5	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-467B	Seabreeze Ltd	Donegal	Shellfish															172.1	169.6	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-092A	Seabreeze Ltd	Donegal	Shellfish															172.1	169.5	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-139	Patrick Dwyer	Waterford	Shellfish															172.2	165.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-401B	Eugene Doherty, Conor Reid & Greg McGroary	Donegal	Shellfish															172.4	170.0	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-134	William Joseph Dwyer	Waterford	Shellfish															172.4	165.6	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-347A	Bells Isle Seafood Ltd	Donegal	Shellfish															172.6	170.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-467A	Seabreeze Ltd	Donegal	Shellfish															172.6	170.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-136	Bells Isle Seafood Ltd and PKD Oysters Ltd	Waterford	Shellfish															172.7	165.9	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-401A	Eugene Doherty, Conor Reid & Greg McGroary	Donegal	Shellfish															172.7	170.3	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-137	Patrick Moran	Waterford	Shellfish															172.8	166.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-402C	Seabreeze Ltd	Donegal	Shellfish															172.9	170.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-135	Philip Walsh	Waterford	Shellfish															173.0	166.2	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-133	Paul Bennett	Waterford	Shellfish															173.1	166.3	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-138	Patrick Moran & Anthony Fortune	Waterford	Shellfish															173.2	166.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-346A	Donegal Oysters Ltd	Donegal	Shellfish															173.4	170.9	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-131	Woodstown Bay Shellfish Ltd	Waterford	Shellfish															173.5	166.7	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-243D	Donegal Oysters Ltd	Donegal	Shellfish															173.5	171.0	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-044	Woodstown Bay Shellfish Ltd	Waterford	Shellfish															173.5	166.7	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-349A	Donegal Oceandeep Oysters Ltd	Donegal	Shellfish															173.6	171.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-243C	Donegal Oysters Ltd	Donegal	Shellfish															173.7	171.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-145B	Donegal Oceandeep Oysters Ltd	Donegal	Shellfish															173.9	171.3	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-446A	Donegal Aquaculture Services Ltd	Donegal	Shellfish															174.0	171.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-243A	Donegal Oysters Ltd	Donegal	Shellfish															174.1	171.5	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-371A	Enda Travers	Donegal	Shellfish															174.2	171.6	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-145A	Donegal Oceandeep Oysters Ltd	Donegal	Shellfish															174.2	171.6	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-243B	Donegal Oysters Ltd	Donegal	Shellfish															174.2	171.6	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-044-1	Woodstown Bay Shellfish Ltd	Waterford	Shellfish															174.2	167.5	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-396	Donegal Oceandeep Oysters Ltd & Donegal Oysters Ltd	Donegal	Shellfish															174.4	171.8	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-037E	South East Shellfish Co-Op Ltd	Waterford	Shellfish															174.9	168.2	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-156A	Irish Seed Mussel Company Ltd	Waterford	Shellfish															175.4	168.8	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-037B4	Lough Swilly Shellfish Growers Co-op Society Ltd	Donegal	Shellfish															175.4	179.2	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-037B2	Lough Swilly Shellfish Growers Co-op Society Ltd	Donegal	Shellfish															175.6	179.2	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-155A	Irish Seed Mussel Company Ltd	Waterford	Shellfish															175.7	169.0	e	e	e	e	a	12	a	e	12	e	d	12	e
T04-154A	Irish Seed Mussel Company Ltd	Waterford	Shellfish															176.1	169.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-443A	Rory McHugh	Donegal	Shellfish															176.3	173.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T12-037A1	Lough Swilly Shellfish Growers Co-op Society Ltd	Donegal	Shellfish															176.3	180.3	e	e	e	e	a	12	a	e	12	e	d	12	e
T11-056B	Dorrins Shellfish Ltd	Sligo	Shellfish															176.5	169.6	e	e	e	e	a	12	a	e	12	e	d	12	e
T11-041A	Ongrow Shellfish Ltd	Sligo	Shellfish															176.6	169.7	e	e	e	e	a	12	a	e	12	e	d	12	e
T11-041B	Ongrow Shellfish Ltd	Sligo	Shellfish															176.7	169.7	e	e	e	e	a	12	a	e	12	e	d	12	e

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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T04-153A	Irish Seed Mussel Company Ltd	Waterford	Shellfish															176.7	170.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-056A	Dorrins Shellfish Ltd	Sligo	Shellfish															176.8	169.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-081A	Lurgan Green Shellfish Ltd	Sligo	Shellfish															176.9	170.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-057B	Lurgan Green Shellfish Ltd	Sligo	Shellfish															177.0	170.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-082A	Ongrow Shellfish Ltd	Sligo	Shellfish															177.1	170.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-084A	Patrick Carter	Sligo	Shellfish															177.1	170.1	e	e	e	e	a	g	a	e	g	e	d	g	e
	Lurgan Green Shellfish Ltd	Sligo	Shellfish															177.2	170.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-343A	Alan O'Sullivan	Donegal	Shellfish															177.2	180.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-083A	Coney Island Shellfish Ltd	Sligo	Shellfish															177.8	170.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-030D	Coney Island Shellfish Ltd	Sligo	Shellfish															177.9	170.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-030B	Coney Island Shellfish Ltd	Sligo	Shellfish															177.9	171.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-037A2	Lough Swilly Shellfish Growers Co-op Society Ltd	Donegal	Shellfish															178.3	182.2	e	e	e	e	a	g	a	e	g	e	d	g	e
	Lough Swilly Shellfish Growers Co-op Society Ltd	Donegal	Shellfish															178.4	182.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-428A	Kieran, Michael, Paul & Thomas McHugh	Donegal	Echinoder m															178.4	175.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-088A	Eoin Carter	Sligo	Shellfish															178.5	171.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-002A	Noelle Woodsen	Sligo	Shellfish															178.7	171.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-089A	Mark Wirtz	Sligo	Shellfish															179.0	172.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-078A	David Fowley	Sligo	Shellfish															179.1	172.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-003C	John Farr	Sligo	Shellfish															179.1	171.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-050A	Sea Trawl Ltd.	Sligo	Shellfish															179.3	172.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-090A	Glen Hunter	Sligo	Shellfish															179.4	172.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-009BOFO	Jocelyn Gore-Booth	Sligo	Shellfish															179.4	172.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-002B	Noelle Woodsen	Sligo	Shellfish															179.5	171.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-016A	Armada Shellfish Company Ltd	Sligo	Shellfish															179.7	173.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-251A	Conor Blake	Donegal	Shellfish															179.7	183.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-003B	John Farr	Sligo	Shellfish															179.7	172.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-003A	John Farr	Sligo	Shellfish															179.8	172.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-086A	Eamonn Caffrey	Sligo	Shellfish															179.9	172.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-063B	Comhlucht Iascaireachta Fanad Teoranta	Donegal	Finfish															180.0	176.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-009AOFO	Jocelyn Gore-Booth	Sligo	Shellfish															180.0	173.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-002C	Noelle Woodsen	Sligo	Shellfish															180.0	172.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-063A	Comhlucht Iascaireachta Fanad Teoranta	Donegal	Finfish															180.1	177.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-011A	Alexander Crichton	Sligo	Shellfish															180.6	172.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-076A	Atlantic Clams Ireland Ltd	Sligo	Shellfish															180.7	174.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-025A	Atlantic Clams Ireland Ltd	Sligo	Shellfish															180.7	174.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-096B	Comhlucht Iascaireachta Fanad Teoranta	Donegal	Finfish															180.8	177.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-075A	Coney Island Shellfish Ltd	Sligo	Shellfish															181.0	173.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-096A	Comhlucht Iascaireachta Fanad Teoranta	Donegal	Finfish															181.0	177.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-251B	Conor Blake	Donegal	Shellfish															181.4	184.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T11-076B	Atlantic Clams Ireland Ltd	Sligo	Shellfish															181.4	174.8	e	e	e	e	a	g	a	e	g	e	d	g	e
			Aquatic Plant, Echinoder m,																	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-538A	Gary Kennedy	Donegal	Shellfish															181.4	178.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-284	Atlantic Crab Ltd.	Donegal	Shellfish															181.5	185.3	e	e	e	e	a	g	a	e	g	e	d	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Aquaculture

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	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
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Proposed development offshore construction phase

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Site ID	Licence Holder	County	Product	Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034														
T12-535A	Damien Kennedy	Donegal	Aquatic Plant, Echinoder m, Shellfish															181.5	178.2	e	e	e	e	a	g	a	e	g	e	e	e
T11-076C	Atlantic Clams Ireland Ltd	Sligo	Shellfish															181.6	175.0	e	e	e	e	a	g	a	e	g	e	e	e
T11-005A	Jan W Prinz	Sligo	Shellfish															181.6	173.9	e	e	e	e	a	g	a	e	g	e	e	e
T12-276B	Ocean Farm Ltd	Donegal	Finfish															182.0	178.6	e	e	e	e	a	g	a	e	g	e	e	e
T12-276A	Ocean Farm Ltd	Donegal	Finfish															182.4	178.8	e	e	e	e	a	g	a	e	g	e	e	e
T12-276C	Ocean Farm Ltd	Donegal	Finfish															182.7	179.3	e	e	e	e	a	g	a	e	g	e	e	e
T12-211C	Inishowen Mussels Ltd	Donegal	Shellfish															183.1	187.1	e	e	e	e	a	g	a	e	g	e	e	e
T12-381D	Ocean Farm Ltd	Donegal	Shellfish															183.4	179.7	e	e	e	e	a	g	a	e	g	e	e	e
T12-381C	Ocean Farm Ltd	Donegal	Shellfish															183.7	179.9	e	e	e	e	a	g	a	e	g	e	e	e
T12-381B	Ocean Farm Ltd	Donegal	Shellfish															184.0	180.1	e	e	e	e	a	g	a	e	g	e	e	e
T12-381A	Ocean Farm Ltd	Donegal	Shellfish															184.2	180.3	e	e	e	e	a	g	a	e	g	e	e	e
T12-266E	Ocean Farm Ltd	Donegal	Finfish															184.6	181.1	e	e	e	e	a	g	a	e	g	e	e	e
T12-404B	Natura Mussels Ltd	Donegal	Shellfish															185.0	181.5	e	e	e	e	a	g	a	e	g	e	e	e
T12-404A	Natura Mussels Ltd	Donegal	Shellfish															185.0	181.5	e	e	e	e	a	g	a	e	g	e	e	e
T12-288B	Inishowen Mussels Ltd	Donegal	Shellfish															185.5	189.5	e	e	e	e	a	g	a	e	g	e	e	e
T12-064A	Gerard McMenamin	Donegal	Shellfish															185.7	182.3	e	e	e	e	a	g	a	e	g	e	e	e
T12-266D	Ocean Farm Ltd	Donegal	Finfish															185.9	182.3	e	e	e	e	a	g	a	e	g	e	e	e
T12-425A	Natura Mussels Ltd	Donegal	Shellfish															186.0	182.5	e	e	e	e	a	g	a	e	g	e	e	e
T12-266F	Ocean Farm Ltd	Donegal	Finfish															186.0	182.4	e	e	e	e	a	g	a	e	g	e	e	e
T12-456A	Ballyloughan Shellfish Ltd	Donegal	Shellfish															186.2	182.8	e	e	e	e	a	g	a	e	g	e	e	e
T12-425B	Natura Mussels Ltd	Donegal	Shellfish															186.3	182.8	e	e	e	e	a	g	a	e	g	e	e	e
T12-062B	Ballyloughan Shellfish Ltd	Donegal	Shellfish															186.5	183.0	e	e	e	e	a	g	a	e	g	e	e	e
T12-266C	Ocean Farm Ltd	Donegal	Finfish															186.5	182.8	e	e	e	e	a	g	a	e	g	e	e	e
T12-462A	Derek Diver	Donegal	Shellfish															186.7	190.9	e	e	e	e	a	g	a	e	g	e	e	e
T12-266B	Ocean Farm Ltd	Donegal	Finfish															186.7	183.2	e	e	e	e	a	g	a	e	g	e	e	e
T12-266A	Ocean Farm Ltd	Donegal	Finfish															187.0	183.3	e	e	e	e	a	g	a	e	g	e	e	e
T12-085B	Hydro Seafood Fanad	Donegal	Finfish															187.3	191.3	e	e	e	e	a	g	a	e	g	e	e	e
T12-202C	Hector McIlwaine	Donegal	Shellfish															189.3	192.4	e	e	e	e	a	g	a	e	g	e	e	e
T12-499A	Mulroy Bay Mussels Ltd	Donegal	Shellfish															189.3	192.4	e	e	e	e	a	g	a	e	g	e	e	e
T12-202-1B	Hector McIlwaine	Donegal	Shellfish															189.5	192.6	e	e	e	e	a	g	a	e	g	e	e	e
T12-288C	Inishowen Mussels Ltd	Donegal	Shellfish															189.9	194.0	e	e	e	e	a	g	a	e	g	e	e	e
T12-053B	Mulroy Bay Mussels Ltd	Donegal	Shellfish															191.3	194.6	e	e	e	e	a	g	a	e	g	e	e	e
T12-053C	Mulroy Bay Mussels Ltd	Donegal	Shellfish															191.3	194.6	e	e	e	e	a	g	a	e	g	e	e	e
T12-260B	Iasc Sliogach Uisce Leathan Teo	Donegal	Shellfish															191.6	195.0	e	e	e	e	a	g	a	e	g	e	e	e
T12-209B	Iasc Sliogach Uisce Leathan Teo	Donegal	Shellfish															191.8	195.2	e	e	e	e	a	g	a	e	g	e	e	e
T12-415A	Stephen Kearney	Donegal	Shellfish															191.8	196.3	e	e	e	e	a	g	a	e	g	e	e	e
T12-420A	Anthony Kearney	Donegal	Shellfish															191.8	196.3	e	e	e	e	a	g	a	e	g	e	e	e
T12-406A	Shaun McDaid	Donegal	Shellfish															191.9	196.4	e	e	e	e	a	g	a	e	g	e	e	e
T12-209	Iasc Sliogach Uisce Leathan Teo	Donegal	Shellfish															191.9	195.3	e	e	e	e	a	g	a	e	g	e	e	e
T12-523A	Kearney Oysters Ltd	Donegal	Shellfish															191.9	196.4	e	e	e	e	a	g	a	e	g	e	e	e
T12-530A	John Friel (Friel Agri Marine)	Donegal	Shellfish															191.9	196.4	e	e	e	e	a	g	a	e	g	e	e	e
T12-203E	North West Shell Fish Ltd	Donegal	Shellfish															191.9	195.4	e	e	e	e	a	g	a	e	g	e	e	e
T12-418A	Stephen Kearney	Donegal	Shellfish															191.9	196.5	e	e	e	e	a	g	a	e	g	e	e	e
T12-360A	Patrick McDaid	Donegal	Shellfish															191.9	196.5	e	e	e	e	a	g	a	e	g	e	e	e
T12-212	Iasc Sliogach Uisce Leathan Teo	Donegal	Shellfish															192.0	195.3	e	e	e	e	a	g	a	e	g	e	e	e
T12-209A	Iasc Sliogach Uisce Leathan Teo	Donegal	Shellfish															192.0	195.4	e	e	e	e	a	g	a	e	g	e	e	e
T12-231	Stephen Kearney	Donegal	Shellfish															192.0	196.6	e	e	e	e	a	g	a	e	g	e	e	e
T12-429A	Stephen Kearney	Donegal	Shellfish															192.1	196.6	e	e	e	e	a	g	a	e	g	e	e	e
T12-549A	ASK Oysters Ltd	Donegal	Shellfish															192.1	196.6	e	e	e	e	a	g	a	e	g	e	e	e
T12-522A	Oran Kearney	Donegal	Shellfish															192.1	196.6	e	e	e	e	a	g	a	e	g	e	e	e
T12-427B	Philip C Doherty	Donegal	Shellfish															192.1	196.6	e	e	e	e	a	g	a	e	g	e	e	e
T12-528A	Hurrikayn Oysters Ltd	Donegal	Shellfish															192.1	196.7	e	e	e	e	a	g	a	e	g	e	e	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T12-560A	Hurrikayn Oysters Ltd	Donegal	Shellfish															192.1	196.7	e	e	e	e	a	a	e	a	e	d	a	e	
T12-215	Anthony Kearney	Donegal	Shellfish															192.2	196.7	e	e	e	e	a	a	e	a	e	d	a	e	
T12-427A	Philip C Doherty	Donegal	Shellfish															192.2	196.7	e	e	e	e	a	a	e	a	e	d	a	e	
T12-252B	Martin Coll	Donegal	Shellfish															192.2	195.6	e	e	e	e	a	a	e	a	e	d	a	e	
T12-520A	Kearney Oysters Ltd	Donegal	Shellfish															192.2	196.7	e	e	e	e	a	a	e	a	e	d	a	e	
T12-550A	ASK Oysters Ltd	Donegal	Shellfish															192.2	196.7	e	e	e	e	a	a	e	a	e	d	a	e	
T12-439A	James Ball	Donegal	Shellfish															192.3	196.8	e	e	e	e	a	a	e	a	e	d	a	e	
T12-252	Martin Coll	Donegal	Shellfish															192.3	195.6	e	e	e	e	a	a	e	a	e	d	a	e	
T12-252A	Martin Coll	Donegal	Shellfish															192.3	195.6	e	e	e	e	a	a	e	a	e	d	a	e	
T12-367A	James Ball	Donegal	Shellfish															192.3	196.8	e	e	e	e	a	a	e	a	e	d	a	e	
T12-322A	James Ball	Donegal	Shellfish															192.3	196.9	e	e	e	e	a	a	e	a	e	d	a	e	
T12-359A	Bells Isle Seafoods Ltd	Donegal	Shellfish															192.4	196.9	e	e	e	e	a	a	e	a	e	d	a	e	
T12-447A	Patrick McDaid	Donegal	Shellfish															192.4	196.9	e	e	e	e	a	a	e	a	e	d	a	e	
T12-011	Hector McIlwaine	Donegal	Shellfish															192.4	195.8	e	e	e	e	a	a	e	a	e	d	a	e	
T12-436D	Danny McDermott	Donegal	Shellfish															192.4	196.9	e	e	e	e	a	a	e	a	e	d	a	e	
T12-333A	Danny McDermott	Donegal	Shellfish															192.4	196.9	e	e	e	e	a	a	e	a	e	d	a	e	
T12-363A	Bells Isle Seafoods Ltd	Donegal	Shellfish															192.4	196.9	e	e	e	e	a	a	e	a	e	d	a	e	
T12-436C	Danny McDermott	Donegal	Shellfish															192.4	197.0	e	e	e	e	a	a	e	a	e	d	a	e	
T12-011-1	Hector McIlwaine	Donegal	Shellfish															192.5	195.8	e	e	e	e	a	a	e	a	e	d	a	e	
T12-375A	Barr Oysters Ltd	Donegal	Shellfish															192.5	197.0	e	e	e	e	a	a	e	a	e	d	a	e	
T12-332A	Barr Oysters Ltd	Donegal	Shellfish															192.5	197.0	e	e	e	e	a	a	e	a	e	d	a	e	
T12-436B	Danny McDermott	Donegal	Shellfish															192.5	197.1	e	e	e	e	a	a	e	a	e	d	a	e	
T12-358A	Danny McDermott	Donegal	Shellfish															192.6	197.1	e	e	e	e	a	a	e	a	e	d	a	e	
T12-436A	Danny McDermott	Donegal	Shellfish															192.6	197.1	e	e	e	e	a	a	e	a	e	d	a	e	
T12-387A	North West Shell Fish Ltd	Donegal	Shellfish															192.6	195.9	e	e	e	e	a	a	e	a	e	d	a	e	
T12-260C	Iasc Shligach Uisce Leathan Teo	Donegal	Shellfish															192.6	196.0	e	e	e	e	a	a	e	a	e	d	a	e	
T12-468A	Danny McDermott	Donegal	Shellfish															192.6	197.1	e	e	e	e	a	a	e	a	e	d	a	e	
T12-386A	Alan Rankin	Donegal	Shellfish															192.6	197.2	e	e	e	e	a	a	e	a	e	d	a	e	
T12-203J	North West Shell Fish Ltd	Donegal	Shellfish															192.6	196.1	e	e	e	e	a	a	e	a	e	d	a	e	
T12-384A	Philip Doherty	Donegal	Shellfish															192.7	197.2	e	e	e	e	a	a	e	a	e	d	a	e	
T12-454A	William Coffey	Donegal	Shellfish															192.7	197.2	e	e	e	e	a	a	e	a	e	d	a	e	
T12-190A	Derek Diver	Donegal	Shellfish															192.7	197.2	e	e	e	e	a	a	e	a	e	d	a	e	
T12-345A-1	Derek Diver	Donegal	Shellfish															192.7	197.2	e	e	e	e	a	a	e	a	e	d	a	e	
T12-260A	Iasc Shligach Uisce Leathan Teo	Donegal	Shellfish															192.7	196.1	e	e	e	e	a	a	e	a	e	d	a	e	
T12-227	Alan & Cara Byrne	Donegal	Shellfish															192.7	197.3	e	e	e	e	a	a	e	a	e	d	a	e	
T12-351A	Gerry Diver	Donegal	Shellfish															192.7	197.3	e	e	e	e	a	a	e	a	e	d	a	e	
T12-345A	Derek Diver	Donegal	Shellfish															192.8	197.3	e	e	e	e	a	a	e	a	e	d	a	e	
T12-459A	Derek Diver	Donegal	Shellfish															192.8	197.3	e	e	e	e	a	a	e	a	e	d	a	e	
T12-457A	Derek Diver	Donegal	Shellfish															192.8	197.3	e	e	e	e	a	a	e	a	e	d	a	e	
T12-368A	Crocknagee Oysters Ltd	Donegal	Shellfish															192.8	197.3	e	e	e	e	a	a	e	a	e	d	a	e	
T12-547A	Daniel McGonigle	Donegal	Shellfish															192.8	197.3	e	e	e	e	a	a	e	a	e	d	a	e	
T12-353A	William Coffey	Donegal	Shellfish															192.8	197.3	e	e	e	e	a	a	e	a	e	d	a	e	
T12-345B-1	Derek Diver	Donegal	Shellfish															192.8	197.4	e	e	e	e	a	a	e	a	e	d	a	e	
T12-492A	Derek Diver	Donegal	Shellfish															192.9	197.4	e	e	e	e	a	a	e	a	e	d	a	e	
T12-473A	Michael Farren	Donegal	Shellfish															192.9	197.4	e	e	e	e	a	a	e	a	e	d	a	e	
T12-244A	Hurrikayn Oysters Ltd	Donegal	Shellfish															192.9	197.4	e	e	e	e	a	a	e	a	e	d	a	e	
T12-387B	North West Shell Fish Ltd	Donegal	Shellfish															192.9	196.2	e	e	e	e	a	a	e	a	e	d	a	e	
T12-383A	Hurrikayn Oysters Ltd	Donegal	Shellfish															193.0	197.5	e	e	e	e	a	a	e	a	e	d	a	e	
T12-553A	William Coffey	Donegal	Shellfish															193.0	197.5	e	e	e	e	a	a	e	a	e	d	a	e	
T12-555A	Northern Bay Oysters Ltd	Donegal	Shellfish															193.0	197.6	e	e	e	e	a	a	e	a	e	d	a	e	
T12-385A	John McKinney	Donegal	Shellfish															193.1	197.6	e	e	e	e	a	a	e	a	e	d	a	e	
T12-077F	Hydro Seafood Fanad	Donegal	Finfish															193.1														

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Aquaculture

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Site ID	Licence Holder	County	Product	Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034														
T12-504A	James Ball	Donegal	Shellfish															193.4	197.9	e	e	e	a	a	e		e				e
T12-203D	North West Shell Fish Ltd	Donegal	Shellfish															193.4	196.7	e	e	e	a	a	e		e				e
T12-203C	North West Shell Fish Ltd	Donegal	Shellfish															193.4	196.7	e	e	e	a	a	e		e				e
T12-571A	James Ball	Donegal	Shellfish															193.4	197.9	e	e	e	a	a	e		e				e
T12-450B	Patrick Porteous	Donegal	Shellfish															193.4	198.0	e	e	e	a	a	e		e				e
T12-229	Patrick Porteous	Donegal	Shellfish															193.5	198.0	e	e	e	a	a	e		e				e
T12-450A	Patrick Porteous	Donegal	Shellfish															193.5	198.0	e	e	e	a	a	e		e				e
T12-540A	Philip Doherty	Donegal	Shellfish															193.5	198.0	e	e	e	a	a	e		e				e
T12-444A	Philip Doherty	Donegal	Shellfish															193.5	198.0	e	e	e	a	a	e		e				e
T12-352A	Philip Doherty	Donegal	Shellfish															193.5	198.0	e	e	e	a	a	e		e				e
T12-301	Philip Doherty	Donegal	Shellfish															193.6	198.1	e	e	e	a	a	e		e				e
T12-453A	Oceanic Organic Oysters Ltd	Donegal	Shellfish															193.7	198.2	e	e	e	a	a	e		e				e
T12-568A	Oceanic Organic Oysters Ltd	Donegal	Shellfish															193.7	198.2	e	e	e	a	a	e		e				e
T12-497A	Lorraine Gallagher	Donegal	Aquatic Plant															193.7	197.1	e	e	e	a	a	e		e				e
T12-230A	Oceanic Organic Oysters Ltd	Donegal	Shellfish															193.7	198.2	e	e	e	a	a	e		e				e
T12-570A	Oceanic Organic Oysters Ltd	Donegal	Shellfish															193.7	198.2	e	e	e	a	a	e		e				e
T12-475A	Michael & Eunan McLaughlin	Donegal	Shellfish															193.8	198.3	e	e	e	a	a	e		e				e
T12-566A	Oceanic Organic Oysters Ltd	Donegal	Shellfish															193.8	198.3	e	e	e	a	a	e		e				e
T12-426A	James Ball	Donegal	Shellfish															193.8	198.3	e	e	e	a	a	e		e				e
T12-561A	James Ball	Donegal	Shellfish															193.9	198.4	e	e	e	a	a	e		e				e
T12-562A	Atlantic Crab Ltd	Donegal	Shellfish															193.9	198.4	e	e	e	a	a	e		e				e
T12-563A	Atlantic Crab Ltd	Donegal	Shellfish															193.9	198.4	e	e	e	a	a	e		e				e
T12-434A	Michael Barr	Donegal	Shellfish															193.9	198.4	e	e	e	a	a	e		e				e
T12-369A	Atlantic Crab Ltd	Donegal	Shellfish															193.9	198.4	e	e	e	a	a	e		e				e
T12-203K	North West Shell Fish Ltd	Donegal	Shellfish															194.0	197.4	e	e	e	a	a	e		e				e
T12-471A	Marjorie Doherty	Donegal	Shellfish															194.0	198.6	e	e	e	a	a	e		e				e
T12-539A	Francis McHugh & Andrew McHugh	Donegal	Aquatic Plant															194.1	190.1	e	e	e	a	a	e		e				e
T12-542A	Cathal McCorkell	Donegal	Shellfish															194.2	198.7	e	e	e	a	a	e		e				e
T12-470A	Eunan McLaughlin	Donegal	Shellfish															194.3	198.8	e	e	e	a	a	e		e				e
T12-572A	Foylantic Ltd	Donegal	Shellfish															194.5	199.0	e	e	e	a	a	e		e				e
T12-077E	Hydro Seafood Fanad	Donegal	Finfish															194.8	198.2	e	e	e	a	a	e		e				e
T12-387G 3	North West Shell Fish Ltd	Donegal	Shellfish															194.9	198.2	e	e	e	a	a	e		e				e
T12-387G 2	North West Shell Fish Ltd	Donegal	Shellfish															195.3	198.6	e	e	e	a	a	e		e				e
T12-077D	Hydro Seafood Fanad	Donegal	Finfish															195.8	199.2	e	e	e	a	a	e		e				e
T12-203G	North West Shell Fish Ltd	Donegal	Shellfish															195.9	199.1	e	e	e	a	a	e		e				e
T12-387G 1	North West Shell Fish Ltd	Donegal	Shellfish															195.9	199.2	e	e	e	a	a	e		e				e
T12-077B	Hydro Seafood Fanad	Donegal	Finfish															196.3	199.8	e	e	e	a	a	e		e				e
T12-203F	North West Shell Fish Ltd	Donegal	Shellfish															196.4	199.7	e	e	e	a	a	e		e				e
T12-400A	Philip Doherty	Donegal	Shellfish															196.5	199.7	e	e	e	a	a	e		e				e
T12-281B	Philip Doherty	Donegal	Shellfish															197.2	200.4	e	e	e	a	a	e		e				e
T12-203H	North West Shell Fish Ltd	Donegal	Shellfish															197.2	200.4	e	e	e	a	a	e		e				e
T12-387E	North West Shell Fish Ltd	Donegal	Shellfish															197.3	200.8	e	e	e	a	a	e		e				e
T12-460A	Charlie McHugh	Donegal	Shellfish															197.5	194.9	e	e	e	a	a	e		e				e
T12-203B	North West Shell Fish Ltd	Donegal	Shellfish															197.7	201.2	e	e	e	a	a	e		e				e
T12-161A	Charles McHugh	Donegal	Shellfish															197.8	195.2	e	e	e	a	a	e		e				e
T12-403A	Charles McHugh	Donegal	Shellfish															197.9	195.3	e	e	e	a	a	e		e				e
T12-387F	North West Shell Fish Ltd	Donegal	Shellfish															198.0	201.5	e	e	e	a	a	e		e				e
T12-483A	Sligeisc Ba Traigheanna Teo	Donegal	Shellfish															198.0	196.9	e	e	e	a	a	e		e				e
T12-414A	John Coll	Donegal	Shellfish															198.1	201.7	e	e	e	a	a	e		e				e
T12-482A	Sligeisc Ba Traigheanna Teo	Donegal	Shellfish															198.2	197.1	e	e	e	a	a	e		e				e
T12-548A	Eamonn Scott	Donegal	Shellfish															198.2	201.4	e	e	e	a	a	e		e				e
T12-077C	Hydro Seafood Fanad	Donegal	Finfish															198.3	201.6	e	e	e	a	a	e		e				e
T12-162A	Charles McHugh	Donegal	Shellfish															198.4	195.8	e	e	e	a	a	e		e				e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T12-490A	Oisiri Min An Chaim Teoranta	Donegal	Shellfish															198.4	197.3	e	e	e	e	a	g	a	e	g	e	e		
T12-484A	Sligeisc Ba Traigheanna Teo	Donegal	Shellfish															198.5	197.3	e	e	e	e	a	g	a	e	g	e	e		
T12-127B	Sligeisc Baigh Gaothbarra Teo	Donegal	Shellfish															198.5	196.8	e	e	e	e	a	g	a	e	g	e	e		
T12-565	Loughros Beg Specials Ltd	Donegal	Shellfish															198.5	195.9	e	e	e	e	a	g	a	e	g	e	e		
T12-546A	Sligeisc Baigh Gaothbarra Teo	Donegal	Shellfish															198.6	196.9	e	e	e	e	a	g	a	e	g	e	e		
T12-217A	Martin Brennan	Donegal	Shellfish															198.6	197.5	e	e	e	e	a	g	a	e	g	e	e		
T12-412A	Sligeisc Ba Traigheanna Teo	Donegal	Shellfish															198.7	197.6	e	e	e	e	a	g	a	e	g	e	e		
T12-387D	North West Shell Fish Ltd	Donegal	Shellfish															198.8	202.3	e	e	e	e	a	g	a	e	g	e	e		
T12-380A	Martin Brennan	Donegal	Shellfish															198.8	197.7	e	e	e	e	a	g	a	e	g	e	e		
T12-491A	Oisiri Min An Chaim Teoranta	Donegal	Shellfish															199.0	197.8	e	e	e	e	a	g	a	e	g	e	e		
T12-387C	North West Shell Fish Ltd	Donegal	Shellfish															199.0	202.5	e	e	e	e	a	g	a	e	g	e	e		
T12-274A	Alan McGlinchey	Donegal	Shellfish															199.0	202.0	e	e	e	e	a	g	a	e	g	e	e		
T12-377A	Sligeisc Ba Traigheanna Teo	Donegal	Shellfish															199.1	197.9	e	e	e	e	a	g	a	e	g	e	e		
T12-128A	Sligeisc na Rossan Teoranta	Donegal	Shellfish															199.1	198.0	e	e	e	e	a	g	a	e	g	e	e		
T12-203A	North West Shell Fish Ltd	Donegal	Shellfish															199.3	202.9	e	e	e	e	a	g	a	e	g	e	e		
T12-128E	Sligeisc na Rossan	Donegal	Shellfish															199.3	198.2	e	e	e	e	a	g	a	e	g	e	e		
T12-128	Sligeisc na Rossan	Donegal	Shellfish															199.3	198.2	e	e	e	e	a	g	a	e	g	e	e		
T12-208	Sligeisc Ba Traigheanna Teo	Donegal	Shellfish															199.3	198.2	e	e	e	e	a	g	a	e	g	e	e		
T12-489A	Oisiri Min An Chaim Teoranta	Donegal	Shellfish															199.5	198.3	e	e	e	e	a	g	a	e	g	e	e		
T12-448A	Sligeisc Na Rossan	Donegal	Shellfish															199.5	198.3	e	e	e	e	a	g	a	e	g	e	e		
T12-077A	Hydro Seafood Fanad	Donegal	Finfish															199.5	203.1	e	e	e	e	a	g	a	e	g	e	e		
T12-498A	Barry McGuinness	Donegal	Shellfish															199.5	196.9	e	e	e	e	a	g	a	e	g	e	e		
T12-002	Beirtreach Teoranta	Donegal	Shellfish															199.8	197.2	e	e	e	e	a	g	a	e	g	e	e		
T12-552A	Manus Heraghty	Donegal	Shellfish															200.1	203.2	e	e	e	e	a	g	a	e	g	e	e		
T12-085	Hydro Seafood Fanad	Donegal	Finfish															200.2	203.3	e	e	e	e	a	g	a	e	g	e	e		
T12-552B	Manus Heraghty	Donegal	Shellfish															200.2	203.3	e	e	e	e	a	g	a	e	g	e	e		
T09-007AOFO	Oyster Fishery Company	Galway	Shellfish															201.0	185.1	e	e	e	e	a	g	a	e	g	e	e		
T12-556A	Trabay Ltd	Donegal	Shellfish															201.3	200.1	e	e	e	e	a	g	a	e	g	e	e		
T12-128C	Sligeisc na Rossan	Donegal	Shellfish															201.4	200.3	e	e	e	e	a	g	a	e	g	e	e		
T12-394A	Trabay Ltd	Donegal	Shellfish															201.5	200.3	e	e	e	e	a	g	a	e	g	e	e		
T12-525A	Ryan Moore	Donegal	Shellfish															201.5	200.3	e	e	e	e	a	g	a	e	g	e	e		
T12-449A	Sligeisc Na Rossan	Donegal	Shellfish															201.6	200.4	e	e	e	e	a	g	a	e	g	e	e		
T12-128D	Sligeisc na Rossan	Donegal	Shellfish															201.7	200.5	e	e	e	e	a	g	a	e	g	e	e		
T12-389B	David Gallagher	Donegal	Shellfish															201.9	200.7	e	e	e	e	a	g	a	e	g	e	e		
T12-477A	Sligeisc Na Rossan	Donegal	Shellfish															201.9	200.7	e	e	e	e	a	g	a	e	g	e	e		
T12-389A	David Gallagher	Donegal	Shellfish															202.0	200.8	e	e	e	e	a	g	a	e	g	e	e		
T12-527	Cathal McCauley	Donegal	Shellfish															202.2	201.0	e	e	e	e	a	g	a	e	g	e	e		
T12-480A	Lee Hunter	Donegal	Shellfish															202.2	201.0	e	e	e	e	a	g	a	e	g	e	e		
T12-479A	Jago Moulton	Donegal	Shellfish															202.3	201.1	e	e	e	e	a	g	a	e	g	e	e		
T09-065	William Moran	Galway	Shellfish															202.8	186.9	e	e	e	e	a	g	a	e	g	e	e		
T09-005A	St George Fishery Co-Op	Galway	Shellfish															204.4	188.5	e	e	e	e	a	g	a	e	g	e	e		
T09-463A	Mattie Larkin	Galway	Shellfish															204.8	188.9	e	e	e	e	a	g	a	e	g	e	e		
T04-020-1	Green Oysters Ltd	Waterford	Shellfish															204.8	195.6	e	e	e	e	a	g	a	e	g	e	e		
T04-023B	PKA Ltd	Waterford	Shellfish															204.9	195.7	e	e	e	e	a	g	a	e	g	e	e		
T04-004A	Iasc Sligach Dún Garbhán Teoranta	Waterford	Shellfish															205.0	195.8	e	e	e	e	a	g	a	e	g	e	e		
T04-141A	Green Oysters Ltd	Waterford	Shellfish															205.1	195.9	e	e	e	e	a	g	a	e	g	e	e		
T04-017B	Bia Mara (Deise) Teo	Waterford	Shellfish															205.1	195.9	e	e	e	e	a	g	a	e	g	e	e		
T04-057	Green Oysters Ltd	Waterford	Shellfish															205.4	196.2	e	e	e	e	a	g	a	e	g	e	e		
T04-059A	Green Oysters Ltd	Waterford	Shellfish															205.5	196.2	e	e	e	e	a	g	a	e	g	e	e		
T04-066	Odhrán MacMurchadha	Waterford	Shellfish															205.5	196.3	e	e	e	e	a	g	a	e	g	e	e		
T04-017A	Bia Mara (Deise) Teo	Waterford	Shellfish															205.5	196.3	e	e	e	e	a	g	a	e	g	e	e		
T04-038	Bia Mara (Deise) Teo	Waterford	Shellfish															205.5	196.3	e	e	e	e	a	g	a	e	g	e	e		
T04-021	David J Cullinan	Waterford	Shellfish															205.6	196.4	e	e	e	e	a	g	a	e	g	e	e		
T04-147A	PKA Ltd	Waterford	Shellfish															205.6	196.4	e	e	e	e	a	g	a	e	g	e	e		

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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T04-004B	Iasc Sliogach Dún Garbhán Teoranta	Waterford	Shellfish															205.6	196.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-129A	Bia Mara (Deise) Teo	Waterford	Aquatic Plant, Shellfish															205.6	196.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-014A	James Harty	Waterford	Shellfish															205.7	196.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-018B	Patrick Cullen	Waterford	Shellfish															205.7	196.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-014-1A	James Harty	Waterford	Shellfish															205.8	196.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-032	Tom Barron	Waterford	Shellfish															205.8	196.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-023A	PKA Ltd	Waterford	Shellfish															205.9	196.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-129B	Bia Mara (Deise) Teo	Waterford	Aquatic Plant, Shellfish															205.9	196.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-032-1	Tom Barron	Waterford	Shellfish															206.0	196.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-205A	Ostre' An Teoranta	Donegal	Shellfish															206.0	205.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-150A	James Harty	Waterford	Shellfish															206.0	196.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-373B	Declan Ashe	Galway	Shellfish															206.1	190.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-011A	PKA Ltd	Waterford	Shellfish															206.1	196.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-287A	David Gallagher	Donegal	Shellfish															206.1	205.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-146	PKA Ltd	Waterford	Shellfish															206.1	196.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-506A	Ostre' An Teoranta	Donegal	Shellfish															206.2	205.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-205C	Ostre' An Teoranta	Donegal	Shellfish															206.2	205.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-423A	Ostre' An Teoranta	Donegal	Shellfish															206.2	205.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-018C	PKA Ltd	Waterford	Shellfish															206.3	197.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-127A	PKA Ltd	Waterford	Shellfish															206.3	197.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-018	Crushoa Oyster Rights	Galway	Shellfish															206.4	190.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-125A	PKA Ltd	Waterford	Shellfish															206.4	197.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-205B	Ostre' An Teoranta	Donegal	Shellfish															206.4	205.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-241	Rainer Krause	Galway	Shellfish															206.4	190.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-315A	Ostre' An Teoranta	Donegal	Shellfish															206.4	205.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-049	Bia Mara (Deise) Teo	Waterford	Shellfish															206.4	197.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-020A	Criostóir O'Cionnfhaoilaidh	Waterford	Shellfish															206.4	197.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-033	Bia Mara (Deise) Teo	Waterford	Shellfish															206.4	197.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-303A	Conal Hunter	Donegal	Shellfish															206.4	205.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-054B	Production Chiron Atd Limited	Waterford	Shellfish															206.5	197.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-053A	Seamus Hayes	Waterford	Shellfish															206.5	197.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-575	Oisiri Oileán Cróine Teoranta	Donegal	Shellfish															206.5	205.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-017F	Bia Mara (Deise) Teo	Waterford	Shellfish															206.5	197.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-304A	Charlie Doherty	Donegal	Shellfish															206.5	205.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-387	Beobio Teoranta	Galway	Shellfish															206.5	190.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-399A	Conal Hunter	Donegal	Shellfish															206.6	205.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-302A	Patrick Hunter	Donegal	Shellfish															206.7	205.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-054-1	Production Chiron Atd Limited	Waterford	Shellfish															206.7	197.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-424A	Ostre' An Teoranta	Donegal	Shellfish															206.7	205.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-017E	Bia Mara (Deise) Teo	Waterford	Shellfish															206.8	197.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-017D	Bia Mara (Deise) Teo	Waterford	Shellfish															206.8	197.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-064	Tadhg O'Maoileoin	Waterford	Shellfish															206.8	197.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-373A	Declan Ashe	Galway	Shellfish															206.8	191.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-302B	Connor Hunter	Donegal	Shellfish															206.8	205.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-055A	Bia Mara (Deise) Teo	Waterford	Shellfish															206.8	197.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-047A	Tadhg O'Maoileoin	Waterford	Shellfish															206.8	197.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-017C	Bia Mara (Deise) Teo	Waterford	Shellfish															206.8	197.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-504A	Michael Irwin	Galway	Shellfish															206.8	191.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-060B	Tadhg O'Maoileoin	Waterford	Shellfish															206.8	197.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-048A	APA Shellfish Farming Ltd	Waterford	Shellfish															206.8	197.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-374A	Michael Irwin	Galway	Shellfish															206.8	191.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-060C	Tadhg O'Maoileoin	Waterford	Shellfish															206.8	197.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-020	Rainer Krause	Galway	Shellfish															206.8	190.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-065A	Tadhg O'Maoileoin	Waterford	Shellfish															206.8	197.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-058A	APA Shellfish Farming Ltd	Waterford	Shellfish															206.8	197.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-287	David Gallagher	Donegal	Shellfish															206.8	205.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-143A	Mark Steele	Waterford	Shellfish															206.8	197.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T12-422A	Ostre' An Teoranta	Donegal	Shellfish															206.8	205.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T04-060A	Tadhg O'Maoileoin Teo	Waterford	Shellfish															206.9	197.8	e	e	e	e	a	g	a	e	g	e	d	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
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Site ID	Licence Holder	County	Product	Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033															
T04-129C	Bia Mara (Deise) Teo	Waterford	Aquatic Plant, Shellfish															206.9	197.7	e	e	e	e	a	g	a	e	g	e	e	
T04-054A	Production Chiron Atd Limited	Waterford	Shellfish															206.9	197.7	e	e	e	e	a	g	a	e	g	e	e	
T04-142A	Bia Mara (Deise) Teo	Waterford	Shellfish															206.9	197.7	e	e	e	e	a	g	a	e	g	e	e	
T04-129D	Bia Mara (Deise) Teo	Waterford	Aquatic Plant, Shellfish															206.9	197.8	e	e	e	e	a	g	a	e	g	e	e	
T04-126A	Tadhg O'Maoileoin Teo	Waterford	Shellfish															206.9	197.8	e	e	e	e	a	g	a	e	g	e	e	
T12-576	Scaladóir Na Doire Eadarúil Teoranta	Donegal	Shellfish															206.9	205.9	e	e	e	e	a	g	a	e	g	e	e	
T12-399B	Conal Hunter	Donegal	Shellfish															206.9	205.9	e	e	e	e	a	g	a	e	g	e	e	
T09-375A	De Burca Oysters Ltd	Galway	Shellfish															206.9	191.2	e	e	e	e	a	g	a	e	g	e	e	
T04-126B1	Tadhg O'Maoileoin Teo	Waterford	Shellfish															207.0	197.8	e	e	e	e	a	g	a	e	g	e	e	
T04-126B2	Tadhg O'Maoileoin Teo	Waterford	Shellfish															207.0	197.9	e	e	e	e	a	g	a	e	g	e	e	
T04-126C	Tadhg O'Maoileoin Teo	Waterford	Shellfish															207.1	198.0	e	e	e	e	a	g	a	e	g	e	e	
T09-376B	Keanes Seafood Ltd	Galway	Shellfish															207.2	191.5	e	e	e	e	a	g	a	e	g	e	e	
T09-482A	James Linnane	Galway	Shellfish															207.2	191.3	e	e	e	e	a	g	a	e	g	e	e	
T09-470A	Patrick J Martyn	Galway	Shellfish															207.2	191.3	e	e	e	e	a	g	a	e	g	e	e	
T09-346	David Krause	Galway	Shellfish															207.2	191.4	e	e	e	e	a	g	a	e	g	e	e	
T09-309	Daniel Krause	Galway	Shellfish															207.4	191.5	e	e	e	e	a	g	a	e	g	e	e	
T09-500A	Thomas Connolly	Galway	Shellfish															207.4	191.5	e	e	e	e	a	g	a	e	g	e	e	
T12-486A	Martin Boyle	Donegal	Shellfish															207.5	206.6	e	e	e	e	a	g	a	e	g	e	e	
T09-414	Thomas Connolly	Galway	Shellfish															207.5	191.6	e	e	e	e	a	g	a	e	g	e	e	
T09-377A	Galway Gourmet Oysters Ltd	Galway	Shellfish															207.5	191.8	e	e	e	e	a	g	a	e	g	e	e	
T09-453A	Eugene Dillon	Galway	Shellfish															207.5	191.7	e	e	e	e	a	g	a	e	g	e	e	
T12-316A	Inish Sal Teoranta	Donegal	Shellfish															207.6	206.5	e	e	e	e	a	g	a	e	g	e	e	
T12-493A	Inish Sal Teoranta	Donegal	Shellfish															207.6	206.5	e	e	e	e	a	g	a	e	g	e	e	
T09-376A	Keanes Seafood Ltd	Galway	Shellfish															207.8	192.1	e	e	e	e	a	g	a	e	g	e	e	
T09-520A	Galway Gourmet Oysters Ltd	Galway	Shellfish															207.9	192.2	e	e	e	e	a	g	a	e	g	e	e	
T09-332	Brian Martyn	Galway	Shellfish															208.3	192.4	e	e	e	e	a	g	a	e	g	e	e	
T12-365A	Celtic Kerber Ltd	Donegal	Shellfish															209.9	209.9	e	e	e	e	a	g	a	e	g	e	e	
T09-501A	Thomas Connolly	Galway	Shellfish															210.0	194.1	e	e	e	e	a	g	a	e	g	e	e	
T12-364B	John Boyle	Donegal	Shellfish															210.0	210.0	e	e	e	e	a	g	a	e	g	e	e	
T12-365B	Celtic Kerber Ltd	Donegal	Shellfish															210.1	210.1	e	e	e	e	a	g	a	e	g	e	e	
T12-364A	John Boyle	Donegal	Shellfish															210.1	210.1	e	e	e	e	a	g	a	e	g	e	e	
T12-365C	Celtic Kerber Ltd	Donegal	Shellfish															210.2	210.2	e	e	e	e	a	g	a	e	g	e	e	
T12-305B	Celtic Kerber Ltd	Donegal	Shellfish															210.6	210.6	e	e	e	e	a	g	a	e	g	e	e	
T12-193A	Owen Curran	Donegal	Shellfish															210.9	211.0	e	e	e	e	a	g	a	e	g	e	e	
T09-424	Rainer Krause	Galway	Shellfish															211.0	195.1	e	e	e	e	a	g	a	e	g	e	e	
T12-305A	Celtic Kerber Ltd	Donegal	Shellfish															211.1	211.3	e	e	e	e	a	g	a	e	g	e	e	
T09-512A	Dara Vaughan	Galway	Aquatic Plant, Shellfish															211.3	195.3	e	e	e	e	a	g	a	e	g	e	e	
T12-326A	John Boyle	Donegal	Shellfish															211.3	211.4	e	e	e	e	a	g	a	e	g	e	e	
T08-063	Pouldoody Aquaculture Ltd	Clare	Shellfish															215.5	199.6	e	e	e	e	a	g	a	e	g	e	e	
T08-114A	Cartron Point Shellfish Ltd	Clare	Aquatic Plant															215.7	199.8	e	e	e	e	a	g	a	e	g	e	e	
T08-112A	Eamonn Chesser	Clare	Shellfish															215.8	200.0	e	e	e	e	a	g	a	e	g	e	e	
T08-016	Feargal Langley	Clare	Shellfish															215.9	200.0	e	e	e	e	a	g	a	e	g	e	e	
T08-111A	Eamonn Chesser	Clare	Shellfish															216.0	200.1	e	e	e	e	a	g	a	e	g	e	e	
T08-084B	Dolphin Seafarms Ltd	Clare	Shellfish															216.0	200.2	e	e	e	e	a	g	a	e	g	e	e	
T08-002OFO	Irish Oyster Aqua Ltd	Clare	Shellfish															216.2	200.3	e	e	e	e	a	g	a	e	g	e	e	
T10-326A	Dinsdale Raddatz	Mayo	Shellfish															216.2	207.4	e	e	e	e	a	g	a	e	g	e	e	
T10-309A	PKM Oysters Ltd	Mayo	Shellfish															216.4	207.6	e	e	e	e	a	g	a	e	g	e	e	
T10-325A	Sean Bourke	Mayo	Shellfish															216.9	208.1	e	e	e	e	a	g	a	e	g	e	e	
T08-074	Clareaqua Ltd.	Clare	Shellfish															217.3	201.4	e	e	e	e	a	g	a	e	g	e	e	
T05-491A	Baile Mhic Coda Iascliogáin Teo	Cork	Shellfish															232.7	223.1	e	e	e	e	a	g	a	e	g	e	e	
T05-482A	Baile Mhic Coda Iascliogáin Teo	Cork	Shellfish															232.8	223.1	e	e	e	e	a	g	a	e	g	e	e	
T05-395	Marc Perdriel	Cork	Shellfish															232.9	223.2	e	e	e	e	a	g	a	e	g	e	e	

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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T10-005	Clew Bay Oyster CO-OP Society Ltd	Mayo	Shellfish															234.6	222.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T07-007	Shannon Shellfish Ltd	Limerick	Shellfish															235.1	220.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-292B	Padraic Gannon	Mayo	Shellfish															235.9	224.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-292A	Padraic Gannon	Mayo	Shellfish															236.2	224.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-293	Carrowholly Shellfish Ltd	Mayo	Shellfish															236.5	224.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-302B	Connemara Seafoods Ltd	Mayo	Shellfish															236.6	224.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-302A	Connemara Seafoods Ltd	Mayo	Shellfish															236.8	225.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-245	Carrowholly Shellfish Ltd	Mayo	Shellfish															236.8	224.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-299A	Irish Oysters Harvest Ltd	Mayo	Shellfish															236.9	224.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-298B	Sean O'Grady	Mayo	Shellfish															238.1	226.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-278E	Sean O'Grady	Mayo	Shellfish															238.5	226.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-336	Charles O'Malley	Mayo	Shellfish															238.6	226.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-278D	Sean O'Grady	Mayo	Shellfish															238.7	226.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-335A	Rosmoney Shellfish Ltd	Mayo	Shellfish															238.8	226.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-278C	Sean O'Grady	Mayo	Shellfish															238.9	226.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-073B	Rosmoney Shellfish Ltd	Mayo	Shellfish															239.1	227.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-278B	Sean O'Grady	Mayo	Shellfish															239.1	227.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-078-1	Udaras na Gaeltachta	Galway	Shellfish															239.2	224.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-202-1	Sean O'Grady	Mayo	Shellfish															239.2	227.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-298A	Donegal Aquaculture Services Ltd	Mayo	Shellfish															239.3	227.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-278A	Sean O'Grady	Mayo	Shellfish															239.3	227.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-298C	Sean O'Grady	Mayo	Shellfish															239.5	227.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-301C	Blackshell Farm Ltd	Mayo	Shellfish															239.9	228.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-304C	Maitias Burke	Mayo	Shellfish															240.0	227.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-304D	Maitias Burke	Mayo	Shellfish															240.1	227.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-301B	Blackshell Farm Ltd	Mayo	Shellfish															240.3	228.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-301A	Blackshell Farm Ltd	Mayo	Aquatic Plant, Shellfish															240.3	228.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-305A	Rosmoney Shellfish Ltd	Mayo	Shellfish															240.4	228.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-341	Blackshell Farm LTD	Mayo	Shellfish															240.5	228.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-014AOFO	Michael Joseph Moran	Mayo	Shellfish															240.7	228.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-198	Patrick Gavin	Mayo	Shellfish															240.8	229.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-004AOFO	Atlantic Shellfish Ltd	Clare	Shellfish															241.2	226.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-067A	Feirm Farraige Oilean Chliara Teo	Mayo	Finfish															241.5	229.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-054B	Feirm Farraige Oilean Chliara Teo	Mayo	Finfish															242.1	230.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-329A	John Moran	Mayo	Shellfish															242.2	230.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-308A	Seafayre LTD	Mayo	Aquatic Plant, Shellfish															242.3	230.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-300A	Thomas Muldoon	Mayo	Shellfish															242.4	231.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-303A	McNulty Oyster Farms Ltd	Mayo	Shellfish															242.6	231.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-291A	John Sammon and Michael Sammon	Mayo	Shellfish															242.6	230.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-054A	Feirm Farraige Oilean Chliara Teo	Mayo	Finfish															242.7	231.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-321A	SOFI Shellfish Ltd	Mayo	Shellfish															242.8	231.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-054C	Feirm Farraige Oilean Chliara Teo	Mayo	Finfish															243.1	231.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-339A	Kevin Kilroy	Mayo	Shellfish															243.2	231.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-342B	Atlantic Greenway Oysters Ltd	Mayo	Shellfish															243.3	231.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-288A	SOFI Shellfish Ltd	Mayo	Shellfish															243.3	231.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-260A	John McManamon	Mayo	Shellfish															243.4	231.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-342A	Atlantic Greenway Oysters Ltd	Mayo	Shellfish															243.5	231.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-067B	Feirm Farraige Oilean Chliara Teo	Mayo	Finfish															243.9	232.3	e	e	e	e	a	g	a	e	g	e	d	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Aquaculture

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
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	Unknown/Not defined as of March 2024

Proposed development offshore construction phase

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Site ID	Licence Holder	County	Product	Construction Period (orange outline denotes proposed development offshore construction period)															Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																
T10-279A	Anthony Legg	Mayo	Shellfish															243.9	232.3	e	e	e	e	a	12	a	e		d	12	e		
T10-340	John McManamon	Mayo	Shellfish															243.9	232.4	e	e	e	e	a	12	a	e		d	12	e		
T10-294A	Fergal Guilfoyle	Mayo	Shellfish															244.0	232.5	e	e	e	e	a	12	a	e		d	12	e		
T10-333A	Joseph McManamon	Mayo	Shellfish															244.0	232.4	e	e	e	e	a	12	a	e		d	12	e		
T10-334A	Padraig McManamon	Mayo	Shellfish															244.1	232.6	e	e	e	e	a	12	12	a	e	d	12	e		
T10-290A	Michael Fahey	Mayo	Shellfish															244.1	232.6	e	e	e	e	a	12	a	e		d	12	e		
T10-338A	SOFI Shellfish Ltd	Mayo	Shellfish															244.3	232.8	e	e	e	e	a	12	a	e		d	12	e		
T10-276	SOFI Shellfish Ltd	Mayo	Shellfish															244.3	232.8	e	e	e	e	a	12	a	e		d	12	e		
T10-337	Atlantic Greenway Oysters Ltd	Mayo	Shellfish															244.4	232.9	e	e	e	e	a	12	a	e		d	12	e		
T10-295A	Fergal Guilfoyle	Mayo	Shellfish															244.5	233.0	e	e	e	e	a	12	a	e		d	12	e		
T10-283A	Thomas Muldoon	Mayo	Shellfish															244.5	233.0	e	e	e	e	a	12	a	e		d	12	e		
T10-285A	Peter McManamon	Mayo	Shellfish															244.6	233.1	e	e	e	e	a	12	12	a	e	d	12	e		
T10-056	Blackshell Farm Ltd	Mayo	Shellfish															246.4	234.8	e	e	e	e	a	12	a	e		d	12	e		
T05-002OFO	Atlantic Shellfish Ltd	Cork	Shellfish															247.7	237.2	e	e	e	e	a	12	a	e		d	12	e		
T05-017OFO	Atlantic Shellfish Ltd	Cork	Shellfish															247.9	237.2	e	e	e	e	a	12	a	e		d	12	e		
T09-392B	Black Pearl Shellfish Ltd	Galway	Shellfish															248.6	235.3	e	e	e	e	a	12	a	e		d	12	e		
T09-175B	Killary Fjord Shellfish Ltd	Galway	Shellfish															248.6	235.3	e	e	e	e	a	12	a	e		d	12	e		
T09-396B	Brian Spellman	Galway	Shellfish															248.9	235.6	e	e	e	e	a	12	a	e		d	12	e		
T09-135	Coleman McDonagh	Galway	Shellfish															248.9	235.6	e	e	e	e	a	12	a	e		d	12	e		
T09-317B	Purple Spade Ltd	Galway	Shellfish															249.1	235.8	e	e	e	e	a	12	a	e		d	12	e		
T09-422-1A	Online Mussels Ltd	Galway	Shellfish															249.1	235.8	e	e	e	e	a	12	a	e		d	12	e		
T09-422A	Online Mussels Ltd	Galway	Shellfish															249.1	235.8	e	e	e	e	a	12	a	e		d	12	e		
T09-313B	Online Mussels Ltd	Galway	Shellfish															249.2	235.9	e	e	e	e	a	12	a	e		d	12	e		
T09-199B	Killary Fish Farming Co-operative Society Ltd	Galway	Shellfish															249.3	236.0	e	e	e	e	a	12	a	e		d	12	e		
T09-184B	Kevin Lydon	Galway	Shellfish															249.3	236.0	e	e	e	e	a	12	a	e		d	12	e		
T09-051B	Brid Kavanagh	Galway	Shellfish															249.5	236.3	e	e	e	e	a	12	a	e		d	12	e		
T05-294A	Fota Oyster Farm Ltd	Cork	Aquatic Plant, Shellfish															249.5	238.7	e	e	e	e	a	12	a	e		d	12	e		
T09-296B	Online Mussels Ltd	Galway	Shellfish															249.6	236.3	e	e	e	e	a	12	a	e		d	12	e		
T09-308B	Michael Lydon	Galway	Shellfish															249.6	236.3	e	e	e	e	a	12	a	e		d	12	e		
T09-341B	Kevin Lydon	Galway	Shellfish															249.6	236.3	e	e	e	e	a	12	a	e		d	12	e		
T09-171B	Lettergesh Mussels Ltd	Galway	Shellfish															249.8	236.5	e	e	e	e	a	12	a	e		d	12	e		
T09-363	Eddie Nee	Galway	Shellfish															249.9	236.6	e	e	e	e	a	12	a	e		d	12	e		
T09-372B	Bartley O'Malley	Galway	Shellfish															249.9	236.6	e	e	e	e	a	12	a	e		d	12	e		
T09-361B	Jim O'Malley	Galway	Shellfish															249.9	236.6	e	e	e	e	a	12	a	e		d	12	e		
T09-389B	Black Pearl Shellfish Ltd	Galway	Shellfish															249.9	236.6	e	e	e	e	a	12	a	e		d	12	e		
T09-388B	Peter Nee	Galway	Shellfish															250.1	236.8	e	e	e	e	a	12	a	e		d	12	e		
T09-385B	Purple Spade Ltd	Galway	Shellfish															250.1	236.9	e	e	e	e	a	12	a	e		d	12	e		
T09-394B	Edward Nee Jnr	Galway	Shellfish															250.1	236.9	e	e	e	e	a	12	12	a	e	d	12	e		
T09-076B	Michael Lydon	Galway	Shellfish															250.2	236.9	e	e	e	e	a	12	a	e		d	12	e		
T09-401B	Michael James Laffey	Galway	Shellfish															250.4	237.1	e	e	e	e	a	12	a	e		d	12	e		
T09-010OFO	Beirtreach Teoranta	Galway	Shellfish															250.6	235.7	e	e	e	e	a	12	a	e		d	12	e		
T10-051	Curraun Fisheries Ltd	Mayo	Finfish															251.3	239.9	e	e	e	e	a	12	a	e		d	12	e		
T05-522A	Atlantic Shellfish Ltd	Cork	Finfish															251.7	241.0	e	e	e	e	a	12	a	e		d	12	e		
T09-317A	Purple Spade Ltd	Galway	Shellfish															251.8	238.5	e	e	e	e	a	12	a	e		d	12	e		
T09-313A	Online Mussels Ltd	Galway	Shellfish															251.9	238.6	e	e	e	e	a	12	a	e		d	12	e		
T10-043A	Curraun Fisheries Ltd	Mayo	Shellfish															251.9	240.6	e	e	e	e	a	12	a	e		d	12	e		
T09-171A	Lettergesh Mussels Ltd	Galway	Shellfish															251.9	238.7	e	e	e	e	a	12	a	e		d	12	e		
T09-296A	Online Mussels Ltd	Galway	Shellfish															252.1	238.9	e	e	e	e	a	12	a	e		d	12	e		
T09-388A	Peter Nee	Galway	Shellfish															252.2	239.0	e	e	e	e	a	12	a	e		d	12	e		
T09-141A	Bradán Beo Teoranta	Galway	Finfish															252.2	237.2	e	e	e	e	a	12	a	e		d	12	e		
T09-361A	Jim O'Malley	Galway	Shellfish															252.3	239.1	e	e	e	e	a	12	a	e		d	12	e		
T09-507A	Killary Fjord Shellfish Ltd	Galway	Shellfish															252.3	239.1	e	e	e	e	a	12	a	e		d	12	e		
T09-009OFO	Beirtreach Teoranta	Galway	Shellfish																														

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034														
T09-076A	Cluggam Mussels Ltd	Galway	Shellfish															252.7	239.5	e	e	e	a	12	a	e	12	e	d	12	e
T09-398A	Martin Nee	Galway	Shellfish															252.9	239.7	e	e	e	a	12	a	e	12	e	d	12	e
T09-372A	Bartley O'Malley	Galway	Shellfish															253.0	239.8	e	e	e	a	12	a	e	12	e	d	12	e
T09-149A	Bradán Beo Teoranta	Galway	Finfish															253.2	238.0	e	e	e	a	12	a	e	12	e	d	12	e
T09-394A	Edward Nee Jnr	Galway	Shellfish															253.3	240.1	e	e	e	a	12	a	e	12	e	d	12	e
T09-308A	Michael Lydon	Galway	Shellfish															253.3	240.2	e	e	e	a	12	a	e	12	e	d	12	e
T09-105C	Bradán Beo Teoranta	Galway	Finfish															253.5	238.6	e	e	e	a	12	a	e	12	e	d	12	e
T09-389A	Black Pearl Shellfish Ltd	Galway	Shellfish															253.6	240.4	e	e	e	a	12	a	e	12	e	d	12	e
T09-184A	Kevin Lydon	Galway	Shellfish															253.6	240.5	e	e	e	a	12	a	e	12	e	d	12	e
T09-146A	Bradán Beo Teoranta	Galway	Finfish															253.8	238.7	e	e	e	a	12	a	e	12	e	d	12	e
T09-119C	Bradán Beo Teoranta	Galway	Finfish															253.8	238.7	e	e	e	a	12	a	e	12	e	d	12	e
T09-385A	Purple Spade Ltd	Galway	Shellfish															253.9	240.7	e	e	e	a	12	a	e	12	e	d	12	e
T09-051A	Brid Kavanagh	Galway	Shellfish															253.9	240.8	e	e	e	a	12	a	e	12	e	d	12	e
T09-366	Purple Spade Ltd	Galway	Shellfish															254.2	241.1	e	e	e	a	12	a	e	12	e	d	12	e
T09-392A	Black Pearl Shellfish Ltd	Galway	Shellfish															254.4	241.2	e	e	e	a	12	a	e	12	e	d	12	e
T09-136A	Bradán Beo Teoranta	Galway	Finfish															254.4	239.4	e	e	e	a	12	a	e	12	e	d	12	e
T09-341A	Cluggam Mussels Ltd	Galway	Shellfish															254.5	241.3	e	e	e	a	12	a	e	12	e	d	12	e
T09-391A	Ciaran Coyne	Galway	Shellfish															254.6	241.5	e	e	e	a	12	a	e	12	e	d	12	e
T09-199A	Killary Fish Farming Co-operative Society Ltd	Galway	Shellfish															254.7	241.6	e	e	e	a	12	a	e	12	e	d	12	e
T09-114A	Bradán Beo Teoranta	Galway	Finfish															254.8	240.0	e	e	e	a	12	a	e	12	e	d	12	e
T09-400	Liam Gerard Laffey	Galway	Shellfish															254.9	241.7	e	e	e	a	12	a	e	12	e	d	12	e
T09-401A	Michael James Laffey	Galway	Shellfish															254.9	241.8	e	e	e	a	12	a	e	12	e	d	12	e
T09-399	Black Pearl Shellfish Ltd	Galway	Shellfish															255.1	242.0	e	e	e	a	12	a	e	12	e	d	12	e
T09-203A	Bradán Beo Teoranta	Galway	Finfish															255.2	240.4	e	e	e	a	12	a	e	12	e	d	12	e
T09-397A	Online Mussels Ltd	Galway	Shellfish															255.2	242.1	e	e	e	a	12	a	e	12	e	d	12	e
T10-315A	Brendan Calvey	Mayo	Shellfish															255.5	244.5	e	e	e	a	12	a	e	12	e	d	12	e
T10-332A	Michael McTigue	Mayo	Shellfish															255.6	244.7	e	e	e	a	12	a	e	12	e	d	12	e
T10-314A	Brendan Calvey	Mayo	Shellfish															255.7	244.8	e	e	e	a	12	a	e	12	e	d	12	e
T09-119B	Bradán Beo Teoranta	Galway	Finfish															256.0	240.9	e	e	e	a	12	a	e	12	e	d	12	e
T09-143	Mr. Padraic Doherty (in trust)	Galway	Finfish															256.2	243.1	e	e	e	a	12	a	e	12	e	d	12	e
T09-093A	Marine Institute	Galway	Finfish															256.4	242.1	e	e	e	a	12	a	e	12	e	d	12	e
T09-119A	Bradán Beo Teoranta	Galway	Finfish															256.4	241.3	e	e	e	a	12	a	e	12	e	d	12	e
T09-203B	Bradán Beo Teoranta	Galway	Finfish															256.6	241.7	e	e	e	a	12	a	e	12	e	d	12	e
T10-312A	Kieran Grealis	Mayo	Shellfish															256.8	246.0	e	e	e	a	12	a	e	12	e	d	12	e
T10-081B	Tony McGrath	Mayo	Shellfish															257.1	248.1	e	e	e	a	12	a	e	12	e	d	12	e
T10-311	Kieran Grealis	Mayo	Shellfish															257.2	246.4	e	e	e	a	12	a	e	12	e	d	12	e
T10-081A	Tony McGrath	Mayo	Shellfish															257.3	248.2	e	e	e	a	12	a	e	12	e	d	12	e
T10-327A	Dooriel Fisheries Ltd	Mayo	Shellfish															257.9	247.1	e	e	e	a	12	a	e	12	e	d	12	e
T10-058A	Feirm Farraige Oilcan Chliara Teo	Mayo	Finfish															258.2	246.1	e	e	e	a	12	a	e	12	e	d	12	e
T08-004BOFO	Atlantic Shellfish Ltd	Clare	Shellfish															258.6	243.6	e	e	e	a	12	a	e	12	e	d	12	e
T09-143A	Mr. Padraic Doherty (in trust)	Galway	Finfish															258.6	245.6	e	e	e	a	12	a	e	12	e	d	12	e
T09-155	Comhlacht Bradain Chonamara Teo	Galway	Finfish															259.2	244.8	e	e	e	a	12	a	e	12	e	d	12	e
T10-313A	Thomas Henry	Mayo	Shellfish															259.5	248.1	e	e	e	a	12	a	e	12	e	d	12	e
T10-129C	Joseph Healy	Mayo	Shellfish															259.5	248.1	e	e	e	a	12	a	e	12	e	d	12	e
T10-317A	Neil Kilbane	Mayo	Shellfish															259.5	248.2	e	e	e	a	12	a	e	12	e	d	12	e
T10-318A	Neil Kilbane	Mayo	Shellfish															259.6	248.3	e	e	e	a	12	a	e	12	e	d	12	e
T10-129B	Joseph Healy	Mayo	Shellfish															259.7	248.3	e	e	e	a	12	a	e	12	e	d	12	e
T09-011AOFO	Beirtreach Teoranta	Galway	Shellfish															259.8	245.1	e	e	e	a	12	a	e	12	e	d	12	e
T10-129A	Joseph Healy	Mayo	Shellfish															259.8	248.4	e	e	e	a	12	a	e	12	e	d	12	e
T10-307C	Francis Sweeney	Mayo	Shellfish															259.8	248.6	e	e	e	a	12	a	e	12	e	d	12	e
T09-107	Comhlucht Bradain Chonamara Teo	Galway	Finfish															259.9	245.5	e	e	e	a	12	a	e	12	e	d	12	e
T10-297A	Padraic Gannon	Mayo	Shellfish															260.0	248.5	e	e	e	a	12	a	e	12	e	d	12	e
T09-114B	Bradán Beo Teoranta	Galway	Finfish															260.2	245.2	e	e	e	a	12	a	e	12	e	d	12	e
T10-274	Sciana Mara Teo	Mayo	Shellfish															260.4	248.8	e	e	e	a	12	a	e	12	e	d	12	e
T10-212-1	Sciana Mara Teo	Mayo	Shellfish															260.4	248.9	e	e	e	a	12	a	e	12	e	d	12	e
T10-284B	Michael Kilbane	Mayo	Shellfish															260.5	249.1	e	e	e	a	12	a	e	12	e	d	12	e
T10-212-2	Sciana Mara Teo	Mayo	Shellfish															260.6	248.9	e	e	e	a	12	a	e	12	e	d	12	e
T10-282A	Aisling O'Leary	Mayo	Shellfish															260.7	249.0	e	e	e	a	12	a	e	12	e	d	12	e
T10-212	Sciana Mara Teo	Mayo	Shellfish															260.7	249.0	e	e	e	a	12	a	e	12	e	d	12	e
T10-284A	Michael Kilbane	Mayo	Shellfish															260.7	249.3	e	e	e	a	12	a	e	12	e	d	12	e

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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T10-054	Marine Harvest Ireland Ltd	Mayo	Finfish															261.2	249.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-331A	Hugh O'Malley	Mayo	Shellfish															261.3	250.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-058B	Feirm Farraige Oilcan Chliara Teo	Mayo	Finfish															261.3	249.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-330A	Hugh O'Malley	Mayo	Shellfish															261.4	250.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-231	Kathleen Davitt	Mayo	Shellfish															261.5	250.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-310A	Irish Oysters Harvest Ltd	Mayo	Shellfish															261.8	250.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-319A	Redrose Development Ltd	Mayo	Aquatic Plant															261.8	252.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-324A	Michael Kilbane	Mayo	Shellfish															262.0	251.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-323A	Michael Kilbane	Mayo	Shellfish															262.1	251.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-310B	Irish Oysters Harvest Ltd	Mayo	Shellfish															262.1	251.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-233	Cromane Seafoods Ltd	Kerry	Shellfish															262.5	247.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-155-1	Comhluct Bradain Chonemara Teo Co. Ltd.	Galway	Finfish															262.9	248.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-237	Gerard Heneghan	Mayo	Shellfish															264.0	254.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-320	Redrose Development Ltd	Mayo	Aquatic Plant															264.3	254.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-370A	Anthony Coyne	Galway	Shellfish															264.4	250.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-004OFO	Cleggan Lobster Fisheries	Galway	Shellfish															264.5	251.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-095D	Michael McMahon	Clare	Shellfish															264.5	249.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-095B	Michael McMahon	Clare	Shellfish															264.5	249.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-095A	Michael McMahon	Clare	Shellfish															264.6	249.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-331-A	Ballylongford Shellfish Producers Group	Kerry	Shellfish															264.6	249.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-086A	Thomas Blunnie	Clare	Shellfish															264.6	249.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-331A	Ballylongford Shellfish Producers Group	Kerry	Shellfish															264.6	249.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-102B	Michael Egan	Clare	Shellfish															264.6	249.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-095C	Michael McMahon	Clare	Shellfish															264.7	249.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-102A	Michael Egan	Clare	Shellfish															264.8	249.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-097C	Poulnasherry Oysters Ltd	Clare	Shellfish															264.8	249.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-008OFO	Mr & Mrs Glen Driver	Clare	Shellfish															264.8	249.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-097E	Poulnasherry Oysters Ltd	Clare	Shellfish															264.8	249.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-094B	Thomas Blunnie	Clare	Shellfish															264.8	249.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-098B	Brendan Garvey	Clare	Shellfish															264.9	249.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-098C	Brendan Garvey	Clare	Shellfish															265.0	249.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-096F	Moyasta Oysters Ltd	Clare	Shellfish															265.0	249.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-097D	Poulnasherry Oysters Ltd	Clare	Shellfish															265.0	249.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-099C	Mairead Mahoney	Clare	Shellfish															265.0	249.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-488A	Lorcan Folan	Galway	Shellfish															265.0	251.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-096E	Moyasta Oysters Ltd	Clare	Shellfish															265.0	249.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-096C-E	Moyasta Oysters Ltd	Clare	Shellfish															265.0	249.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-096D	Moyasta Oysters Ltd	Clare	Shellfish															265.0	249.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-098A	Brendan Garvey	Clare	Shellfish															265.1	249.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-101B	Aiden F Casey	Clare	Shellfish															265.1	250.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-096C-W	Moyasta Oysters Ltd	Clare	Shellfish															265.2	250.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-097B	Poulnasherry Oysters Ltd	Clare	Shellfish															265.2	250.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-096B	Moyasta Oysters Ltd	Clare	Shellfish															265.2	250.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-099B	Mairead Mahoney	Clare	Shellfish															265.3	250.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-097A	Poulnasherry Oysters Ltd	Clare	Shellfish															265.3	250.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-108A	Brendan Garvey	Clare	Shellfish															265.3	250.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-106A	Moyasta Oysters Ltd	Clare	Shellfish															265.3	250.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-099A	Mairead Mahoney	Clare	Shellfish															265.3	250.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-096A	Moyasta Oysters Ltd	Clare	Shellfish															265.4	250.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T08-101A	Aiden F Casey	Clare	Shellfish															265.4	250.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T09-370	Anthony Coyne	Galway	Shellfish															265.5	252.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T10-028B	North Mayo Oyster Development Co-op Society Ltd	Mayo	Shellfish															265.9	256.3	e	e	e	e	a	g	a	e	g	e	d	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Aquaculture

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	Operation and Maintenance
	Decommissioning
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Proposed development offshore construction phase

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Site ID	Licence Holder	County	Product	Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034														
T06-370A	Peter Tighe	Kerry	Shellfish															266.3	251.3	e	e	e	e	a	a	e	a	e	d	a	e
T09-095A	Tully Mountain Salmon Farm Ltd.	Galway	Finfish															266.4	253.0	e	e	e	e	a	a	e	a	e	d	a	e
T09-404A	Michael O'Malley	Galway	Shellfish															266.6	253.2	e	e	e	e	a	a	e	a	e	d	a	e
T09-369	Lorcan Folan	Galway	Shellfish															267.0	253.6	e	e	e	e	a	a	e	a	e	d	a	e
T06-347C	Peter Tighe	Kerry	Shellfish															267.4	252.4	e	e	e	e	a	a	e	a	e	d	a	e
T09-492A	Michael O'Malley	Galway	Shellfish															267.7	254.4	e	e	e	e	a	a	e	a	e	d	a	e
T06-347B	Peter Tighe	Kerry	Shellfish															267.8	252.8	e	e	e	e	a	a	e	a	e	d	a	e
T09-132A	Gerry O'Donoghue	Galway	Finfish															268.1	254.7	e	e	e	e	a	a	e	a	e	d	a	e
T06-347A	Peter Tighe	Kerry	Shellfish															268.4	253.4	e	e	e	e	a	a	e	a	e	d	a	e
T10-028A	North Mayo Oyster Development Co-op Society Ltd	Mayo	Shellfish															268.8	259.0	e	e	e	e	a	a	e	a	e	d	a	e
T09-267	Michael O'Malley	Galway	Shellfish															269.5	255.7	e	e	e	e	a	a	e	a	e	d	a	e
T09-428A	Michael O'Malley	Galway	Shellfish															269.6	255.7	e	e	e	e	a	a	e	a	e	d	a	e
T09-426-1A	Josie King	Galway	Shellfish															269.8	255.9	e	e	e	e	a	a	e	a	e	d	a	e
T09-417B	Josie King	Galway	Shellfish															269.9	255.9	e	e	e	e	a	a	e	a	e	d	a	e
T09-521A	Josie King	Galway	Shellfish															269.9	256.0	e	e	e	e	a	a	e	a	e	d	a	e
T09-008OFO	Ardbear Sea Farms Ltd	Galway	Shellfish															270.0	256.2	e	e	e	e	a	a	e	a	e	d	a	e
T09-417A	Josie King	Galway	Shellfish															270.2	256.3	e	e	e	e	a	a	e	a	e	d	a	e
T10-296A	Dulra Iorrais Teoranta	Mayo	Aquatic Plant															270.3	260.2	e	e	e	e	a	a	e	a	e	d	a	e
T09-417C	Josie King	Galway	Shellfish															270.4	256.5	e	e	e	e	a	a	e	a	e	d	a	e
T09-096B	Ardbear Sea Farms Ltd	Galway	Finfish															270.4	256.6	e	e	e	e	a	a	e	a	e	d	a	e
T09-517A	Josie King	Galway	Shellfish															270.6	256.7	e	e	e	e	a	a	e	a	e	d	a	e
T09-127	Ardbear Sea Farms Ltd	Galway	Finfish															271.4	257.6	e	e	e	e	a	a	e	a	e	d	a	e
T09-522A	Josie King	Galway	Shellfish															271.4	257.5	e	e	e	e	a	a	e	a	e	d	a	e
T05-231	PKC Oysters Ltd	Cork	Shellfish															272.6	261.9	e	e	e	e	a	a	e	a	e	d	a	e
T05-392	PKC Oysters Ltd	Cork	Shellfish															272.8	262.1	e	e	e	e	a	a	e	a	e	d	a	e
T09-140	Mannin Bay Salmon Company Ltd	Galway	Finfish															272.9	259.0	e	e	e	e	a	a	e	a	e	d	a	e
T09-524A	Connor O'Malley	Galway	Shellfish															273.3	260.0	e	e	e	e	a	a	e	a	e	d	a	e
T05-588A	Jamie Dwyer T/A Haven Shellfish	Cork	Shellfish															273.5	262.7	e	e	e	e	a	a	e	a	e	d	a	e
T05-081	Jamie Dwyer T/A Haven Shellfish	Cork	Shellfish															273.5	262.7	e	e	e	e	a	a	e	a	e	d	a	e
T05-589A	Jamie Dwyer T/A Haven Shellfish	Cork	Shellfish															273.6	262.8	e	e	e	e	a	a	e	a	e	d	a	e
T09-434	Cleggan Seaweed Ltd	Galway	Aquatic Plant															273.6	260.3	e	e	e	e	a	a	e	a	e	d	a	e
T05-472A	Woodstown Bay Shellfish	Cork	Shellfish															276.2	265.4	e	e	e	e	a	a	e	a	e	d	a	e
T08-116A	Gerry Keyes	Clare	Shellfish															276.5	261.3	e	e	e	e	a	a	e	a	e	d	a	e
T08-078	Gearoid Lyons	Clare	Shellfish															276.6	261.4	e	e	e	e	a	a	e	a	e	d	a	e
T08-117A	Rinemac Shellfish Ltd	Clare	Shellfish															277.0	261.8	e	e	e	e	a	a	e	a	e	d	a	e
T05-007	Kinsale Harbour Comm	Cork	Shellfish															277.5	266.6	e	e	e	e	a	a	e	a	e	d	a	e
T05-530A	Kinsale Oysterhaven Seafood Ltd	Cork	Shellfish															277.5	266.6	e	e	e	e	a	a	e	a	e	d	a	e
T05-530B	Kinsale Oysterhaven Seafood Ltd	Cork	Shellfish															277.9	267.0	e	e	e	e	a	a	e	a	e	d	a	e
T05-530C	Kinsale Oysterhaven Seafood Ltd	Cork	Shellfish															278.0	267.0	e	e	e	e	a	a	e	a	e	d	a	e
T08-055A	Martin McKeown	Clare	Shellfish															279.7	264.6	e	e	e	e	a	a	e	a	e	d	a	e
T06-004	Tralee Oyster Fisheries Society Ltd	Kerry	Shellfish															295.7	280.9	e	e	e	e	a	a	e	a	e	d	a	e
T05-603A	AC Oyster Ltd	Cork	Shellfish															299.3	287.9	e	e	e	e	a	a	e	a	e	d	a	e
T06-005	Tralee Bay Shellfish Co-Op Society Ltd	Kerry	Shellfish															302.5	287.9	e	e	e	e	a	a	e	a	e	d	a	e
T06-334N1	Frank McCarthy	Kerry	Shellfish															308.1	293.9	e	e	e	e	a	a	e	a	e	d	a	e
T06-340B	Owen & P Teahan Shellfish Ltd	Kerry	Shellfish															308.6	294.3	e	e	e	e	a	a	e	a	e	d	a	e
T06-343A	Teahan Partners	Kerry	Shellfish															309.3	295.1	e	e	e	e	a	a	e	a	e	d	a	e
T06-301B	Sullivan, McCarthy Mussel Development Ltd	Kerry	Shellfish															309.4	295.2	e	e	e	e	a	a	e	a	e	d	a	e
T06-301A	Sullivan, McCarthy Mussel Development Ltd	Kerry	Shellfish															309.7	295.4	e	e	e	e	a	a	e	a	e	d	a	e
T05-011A	Brendan Kingston	Cork	Shellfish															309.7	298.1	e	e	e	e	a	a	e	a	e	d	a	e
T06-304A	Teahan Partners	Kerry	Shellfish															309.9	295.6	e	e	e	e	a	a	e	a	e	d	a	e
T06-311A	Michael Scannell	Kerry	Shellfish															310.2	295.9	e	e	e	e	a	a	e	a	e	d	a	e
T06-277B	Michael Scannell	Kerry	Shellfish															310.2	295.9	e	e	e	e	a	a	e	a	e	d	a	e

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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T06-429A	Dingle Bay Shellfish Ltd	Kerry	Shellfish															310.4	296.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-340A	Dingle Bay Shellfish Ltd	Kerry	Shellfish															310.6	296.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-277A	Michael Scannell	Kerry	Shellfish															310.7	296.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-342A	Liam O'Connor	Kerry	Shellfish															310.7	296.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-277C	Michael Scannell	Kerry	Shellfish															310.7	296.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-310B	John O'Sullivan	Kerry	Shellfish															310.8	296.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-351A	Frank & Daniel McCarthy	Kerry	Shellfish															310.8	296.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-291B	Cromane Oysters Ltd	Kerry	Shellfish															310.9	296.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-310A	John O'Sullivan	Kerry	Shellfish															310.9	296.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-259A	Pat Costello	Kerry	Shellfish															311.1	296.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-291A	Cromane Oysters Ltd	Kerry	Shellfish															311.2	297.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-267C	Cromane Point Oysters Ltd	Kerry	Shellfish															311.7	297.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-339A	Cromane Point Oysters Ltd	Kerry	Shellfish															311.7	297.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-352A	Castlemaine Harbour Co-operative Society Ltd	Kerry	Shellfish															311.7	297.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-299A	Caragh Clams Ltd	Kerry	Shellfish															311.8	297.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-306A	John O'Sullivan	Kerry	Shellfish															311.9	297.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-016A	Castlemaine Harbour Co-operative Society Ltd	Kerry	Shellfish															312.0	297.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-259B	Pat Costello	Kerry	Shellfish															312.1	297.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-354A	Patrick O'Sullivan	Kerry	Shellfish															312.1	297.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-353A	Daniel McCarthy	Kerry	Shellfish															312.2	297.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-268A	Michael Moroney	Kerry	Shellfish															312.4	298.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-007M	Castlemaine Harbour Co-operative Society Ltd	Kerry	Shellfish															312.4	298.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-255A	Cromane Seafoods Ltd.	Kerry	Shellfish															312.5	298.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-313B	Reilly Shellfish Ltd.	Kerry	Shellfish															312.6	298.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-313A	Reilly Shellfish Ltd.	Kerry	Shellfish															312.6	298.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-314A	Liam O'Connor	Kerry	Shellfish															312.8	298.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-289	Liam O'Connor	Kerry	Shellfish															312.9	298.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-278A	Arthur McCarthy	Kerry	Shellfish															312.9	298.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-267A	Cromane Point Oysters Ltd	Kerry	Shellfish															312.9	298.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-267D	Gerard O'Reilly	Kerry	Shellfish															312.9	298.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-316A	Patrick J & Martin J Riordan	Kerry	Shellfish															313.0	298.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-270B	Frank McCarthy	Kerry	Shellfish															313.1	298.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-335A	John J Reilly T/A O'Reilly Shellfish	Kerry	Shellfish															313.1	298.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-309A	Jermiah & Denis Costello	Kerry	Shellfish															313.5	299.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-305A	Derek O'Sullivan	Kerry	Shellfish															313.8	299.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-262A	Teahan Partners	Kerry	Shellfish															313.9	299.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-241	Tomás Hayes	Kerry	Shellfish															313.9	299.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-267B	Cromane Point Oysters Ltd	Kerry	Shellfish															313.9	299.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-268B	Michael Moroney	Kerry	Shellfish															314.1	299.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-388A	Sam Lowes	Kerry	Shellfish															316.0	302.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-125N2	Bantry Harbour Mussels Ltd	Cork	Shellfish															318.6	305.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-201	Rosemary Purcell	Kerry	Shellfish															318.7	305.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-295A	Templenoe Oysters Ltd	Kerry	Shellfish															319.0	305.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-069N2	Saltspray Mussel Technology Ltd	Cork	Shellfish															319.2	306.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-179B	Kush Seafarms Ltd	Kerry	Shellfish															319.2	305.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-060N6	Bantry Harbour Mussels Ltd	Cork	Shellfish															319.4	306.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-069N3	Saltspray Mussel Technology Ltd	Cork	Shellfish															319.7	306.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-214N3	Fundy Shellfish Products Ltd	Cork	Shellfish															319.7	306.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-067N5	Southward Ltd	Cork	Shellfish															319.7	306.9	e	e	e	e	a	g	a	e	g	e	d	g	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
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Site ID	Licence Holder	County	Product	Construction Period (orange outline denotes proposed development offshore construction period)															Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																
T05-060N5	Bantry Harbour Mussels Ltd	Cork	Shellfish															320.0	307.2	e	e	e	e	a	g	a	e	g	e	e			
T05-053N1	Saltspray Mussel Technology	Cork	Shellfish															320.0	307.2	e	e	e	e	a	g	a	e	g	e	e			
T06-315N1	Caragh Clams Ltd	Kerry	Shellfish															320.7	306.4	e	e	e	e	a	g	a	e	g	e	e			
T05-067N6	Southward Ltd	Cork	Shellfish															320.8	308.0	e	e	e	e	a	g	a	e	g	e	e			
T05-276N2	Denis Hourihan	Cork	Shellfish															320.8	307.9	e	e	e	e	a	g	a	e	g	e	e			
T05-067N4	Southward Ltd	Cork	Shellfish															320.8	308.1	e	e	e	e	a	g	a	e	g	e	e			
T05-069N1	Saltspray Mussel Technology Ltd	Cork	Shellfish															320.9	308.2	e	e	e	e	a	g	a	e	g	e	e			
T05-058N8	Seal Harbour Enterprises Ltd	Cork	Shellfish															320.9	308.0	e	e	e	e	a	g	a	e	g	e	e			
T05-069N4	Saltspray Mussel Technology Ltd	Cork	Shellfish															320.9	308.2	e	e	e	e	a	g	a	e	g	e	e			
T05-020OFO	Glengarriff Fish Farming Co-op	Cork	Shellfish															321.1	308.2	e	e	e	e	a	g	a	e	g	e	e			
T05-053N2	Saltspray Mussel Technology	Cork	Shellfish															321.1	308.4	e	e	e	e	a	g	a	e	g	e	e			
T05-125N1	Bantry Harbour Mussels Ltd	Cork	Shellfish															321.3	308.6	e	e	e	e	a	g	a	e	g	e	e			
T05-069N8	Saltspray Mussel Technology Ltd	Cork	Shellfish															321.3	308.6	e	e	e	e	a	g	a	e	g	e	e			
T05-069N5	Saltspray Mussel Technology Ltd	Cork	Shellfish															321.3	308.6	e	e	e	e	a	g	a	e	g	e	e			
T05-060N1	Bantry Harbour Mussels Ltd	Cork	Shellfish															321.3	308.6	e	e	e	e	a	g	a	e	g	e	e			
T05-069N7	Saltspray Mussel Technology Ltd	Cork	Shellfish															321.4	308.7	e	e	e	e	a	g	a	e	g	e	e			
T05-053N5	Saltspray Mussel Technology	Cork	Shellfish															321.5	308.7	e	e	e	e	a	g	a	e	g	e	e			
T05-053N3	Saltspray Mussel Technology	Cork	Shellfish															321.5	308.8	e	e	e	e	a	g	a	e	g	e	e			
T05-276N1	Denis Hourihan	Cork	Shellfish															321.5	308.6	e	e	e	e	a	g	a	e	g	e	e			
T05-058N7	Seal Harbour Enterprises Ltd	Cork	Shellfish															321.5	308.6	e	e	e	e	a	g	a	e	g	e	e			
T05-058N6	Seal Harbour Enterprises Ltd	Cork	Shellfish															321.5	308.6	e	e	e	e	a	g	a	e	g	e	e			
T05-060N3	Bantry Harbour Mussels Ltd	Cork	Shellfish															321.6	308.8	e	e	e	e	a	g	a	e	g	e	e			
T05-053N6	Saltspray Mussel Technology	Cork	Shellfish															321.6	308.9	e	e	e	e	a	g	a	e	g	e	e			
T05-059N1	Saltspray Mussel Technology	Cork	Shellfish															321.6	308.9	e	e	e	e	a	g	a	e	g	e	e			
T05-060N2	Bantry Harbour Mussels Ltd	Cork	Shellfish															321.7	309.0	e	e	e	e	a	g	a	e	g	e	e			
T05-604A	Bantry Harbour Mussels Ltd	Cork	Shellfish															321.7	309.0	e	e	e	e	a	g	a	e	g	e	e			
T05-067N2	Southward Ltd	Cork	Shellfish															321.8	309.1	e	e	e	e	a	g	a	e	g	e	e			
T05-059N2	Saltspray Mussel Technology	Cork	Shellfish															321.9	309.2	e	e	e	e	a	g	a	e	g	e	e			
T05-069N6	Saltspray Mussel Technology Ltd	Cork	Shellfish															322.0	309.2	e	e	e	e	a	g	a	e	g	e	e			
T05-053N4	Fastnet Mussels Ltd	Cork	Shellfish															322.0	309.3	e	e	e	e	a	g	a	e	g	e	e			
T05-060N4	Bantry Harbour Mussels Ltd	Cork	Shellfish															322.1	309.4	e	e	e	e	a	g	a	e	g	e	e			
T05-067N3	Southward Ltd	Cork	Shellfish															322.1	309.4	e	e	e	e	a	g	a	e	g	e	e			
T05-214N1	Fundy Shellfish Products Ltd	Cork	Shellfish															322.2	309.5	e	e	e	e	a	g	a	e	g	e	e			
T05-214N2	Fundy Shellfish Products Ltd	Cork	Shellfish															322.2	309.5	e	e	e	e	a	g	a	e	g	e	e			
T05-067N1	Southward Ltd	Cork	Shellfish															322.3	309.5	e	e	e	e	a	g	a	e	g	e	e			
T06-012OFO	An Runai, Comharchumann Forbartha an Leith	Kerry	Shellfish															322.4	307.7	e	e	e	e	a	g	a	e	g	e	e			
T05-058N2	Seal Harbour Enterprises Ltd	Cork	Shellfish															322.5	309.6	e	e	e	e	a	g	a	e	g	e	e			
T05-600A	Whiddy Scallops Ltd	Cork	Shellfish															322.7	309.9	e	e	e	e	a	g	a	e	g	e	e			
T05-058N1	Seal Harbour Enterprises Ltd	Cork	Shellfish															322.7	309.8	e	e	e	e	a	g	a	e	g	e	e			
T05-058N3	Seal Harbour Enterprises Ltd	Cork	Shellfish															322.7	309.8	e	e	e	e	a	g	a	e	g	e	e			
T05-599A	Whiddy Scallops Ltd	Cork	Shellfish															323.1	310.4	e	e	e	e	a	g	a	e	g	e	e			
T05-058N4	Seal Harbour Enterprises Ltd	Cork	Shellfish															323.2	310.3	e	e	e	e	a	g	a	e	g	e	e			

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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T05-058N5	Seal Harbour Enterprises Ltd	Cork	Shellfish															326.4	313.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-039A	Sneem Fishermens Co-Op Society Ltd	Kerry	Shellfish															326.7	313.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-498A	Patrick Murphy	Cork	Shellfish															326.9	314.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-433	Saltspray Mussel Technology Ltd	Cork	Shellfish															327.5	314.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-356A	Sneem Fishermens Co-Op Society Ltd	Kerry	Shellfish															328.0	314.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-495A-N	Saltspray Mussel Technology Ltd	Cork	Shellfish															328.1	315.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-311N1	Colin Whooley	Cork	Shellfish															329.7	317.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-280B	Jean Yves Letanneur	Kerry	Shellfish															329.8	316.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-255N1	Michael Crowley	Cork	Shellfish															329.9	317.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-255N3	Michael Crowley	Cork	Shellfish															330.0	317.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-211N1	Patrick & Daniel Murphy	Cork	Shellfish															330.2	318.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-172N1	Michael O'Neill	Cork	Shellfish															330.2	318.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-172N2	Michael O'Neill	Cork	Shellfish															330.2	318.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-244N1	Patrick Leonard	Cork	Shellfish															330.3	318.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-572N1	Brian Murnane & John O'Leary	Cork	Shellfish															330.3	318.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-547A	Bantry Marine Research Station Ltd	Cork	Aquatic Plant															330.3	317.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-212N1	Patrick Murphy	Cork	Shellfish															330.4	318.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-332A	Sneem Fishermens Co-Op Society Ltd	Kerry	Shellfish															330.4	316.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-254N3	Turkhead Enterprises Ltd	Cork	Shellfish															330.5	318.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-280A	Jean Yves Letanneur	Kerry	Shellfish															330.5	317.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T06-280-2	Jean Yves Letanneur	Kerry	Shellfish															330.6	317.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-122	Murphy's Irish Seafood Ltd	Cork	Finfish															330.6	317.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-239N1	Michael, Ann & Dominic Casey	Cork	Shellfish															330.6	318.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-172N3	Michael O'Neill	Cork	Shellfish															330.6	318.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-082N4	Greenline Shellfish Ltd	Cork	Shellfish															330.6	318.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-311N2	Colin Whooley	Cork	Shellfish															330.8	318.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-244N2	Patrick Leonard	Cork	Shellfish															331.0	318.7	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-255N2	Michael Crowley	Cork	Shellfish															331.0	318.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-082N1	Greenline Shellfish Ltd	Cork	Shellfish															331.0	318.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-353N1	Raymond Duggan	Cork	Shellfish															331.1	318.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-239N3	Michael, Ann & Dominic Casey	Cork	Shellfish															331.2	319.0	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-254N5	Turkhead Enterprises Ltd	Cork	Shellfish															331.3	319.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-211N2	Patrick & Daniel Murphy	Cork	Shellfish															331.3	319.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-568N1	Frank O'Dwyer	Cork	Shellfish															331.3	319.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-311N3	Colin Whooley	Cork	Shellfish															331.4	319.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-241N1	Michael Collins	Cork	Shellfish															331.4	319.2	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-357A	Skibbereen Shellfish Ltd	Cork	Shellfish															331.6	319.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-243N1	Denis Whooley	Cork	Shellfish															331.6	319.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-122A	Murphy's Irish Seafood Ltd	Cork	Finfish															331.6	318.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-196A	Dunmanus Bay Mussels Ltd	Cork	Shellfish															331.7	319.1	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-281N1	Ronan O'Neill	Cork	Shellfish															331.7	319.5	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-239N2	Michael, Ann & Dominic Casey	Cork	Shellfish															331.8	319.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-311N5	Colin Whooley	Cork	Shellfish															331.9	319.6	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-439A	Cathal Daly	Cork	Shellfish															331.9	319.3	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-196B	Dunmanus Bay Mussels Ltd	Cork	Aquatic Plant, Echinoder m, Shellfish															332.1	319.4	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-311N4	Colin Whooley	Cork	Shellfish															332.1	319.8	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-082N3	Greenline Shellfish Ltd	Cork	Shellfish															332.1	319.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-326N2	Atlantic Seafarms Ltd	Cork	Shellfish															332.1	319.9	e	e	e	e	a	g	a	e	g	e	d	g	e
T05-254N2	Turkhead Enterprises Ltd	Cork	Shellfish															332.2	319.9	e	e	e	e	a	g	a	e	g	e	d	g	e

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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034																
T05-549A	Frank O'Dwyer	Cork	Shellfish															332.3	320.2	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-326N1	Atlantic Seafarms Ltd	Cork	Shellfish															332.3	320.1	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-614A	Atlantic Sea Farm Ltd	Cork	Shellfish															332.4	320.1	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-319N1	Atlantic Seafarms Ltd	Cork	Shellfish															332.4	320.2	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-254N1	Turkhead Enterprises Ltd	Cork	Shellfish															332.5	320.3	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-473A	Jean Paul Mestre	Cork	Shellfish															332.5	319.9	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-555A	Bradan Fanad Teoranta	Cork	Finfish															332.5	319.6	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-311N6	Colin Whooley	Cork	Shellfish															332.6	320.3	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-254N4	Turkhead Enterprises Ltd	Cork	Shellfish															332.6	320.4	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-311N7	Colin Whooley	Cork	Shellfish															332.7	320.5	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-005OFO	Atlantic Shellfish Ltd	Cork	Shellfish															332.7	320.6	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-149B	Ross Shellfish Ltd	Kerry	Shellfish															332.7	319.4	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-390A	Sarah Walker	Kerry	Shellfish															332.8	319.4	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-357D	Skibbereen Shellfish Ltd	Cork	Shellfish															332.8	320.7	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-506N1	Jonathon Harmon	Cork	Shellfish															332.8	320.5	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-064B	St. Killians Harvest Ltd.	Cork	Finfish															332.8	319.5	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-082N2	Greenline Shellfish Ltd	Cork	Shellfish															332.9	320.7	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-483B	Frank O'Dwyer	Cork	Shellfish															333.0	320.9	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-190	Declan O'Sullivan	Kerry	Shellfish															333.1	319.8	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-005D	Skibbereen Shellfish Ltd	Cork	Shellfish															333.1	321.0	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-430A	West Cork Seafoods Ltd	Cork	Shellfish															333.2	320.4	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-005B	Skibbereen Shellfish Ltd	Cork	Shellfish															333.2	321.1	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-114	Kush Seafarms Ltd	Kerry	Shellfish															333.3	319.9	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-483C	Skibbereen Shellfish Ltd	Cork	Shellfish															333.4	321.3	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-005C	Skibbereen Shellfish Ltd	Cork	Shellfish															333.4	321.3	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-131	Patrick Cronin	Kerry	Shellfish															333.5	320.1	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-625A	Dan O'Shea	Cork	Shellfish															333.5	320.6	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-064A	St. Killians Harvest Ltd	Kerry	Finfish															333.6	320.2	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-106	Shamrock Shellfish Ltd	Kerry	Shellfish															333.6	320.2	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-357B	Skibbereen Shellfish Ltd	Cork	Shellfish															333.7	321.6	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-035A	Shamrock Shellfish Co.	Kerry	Shellfish															333.8	320.4	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-562N1	Patrick J Leonard	Cork	Shellfish															333.9	321.6	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-559N1	Jonathan Harmon	Cork	Shellfish															333.9	321.7	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-554N1	Atlantic Seafarms Ltd	Cork	Shellfish															333.9	321.7	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-474B	Sherkin Oysters Ltd	Cork	Shellfish															333.9	321.8	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-557N1	Michael Collins	Cork	Shellfish															333.9	321.7	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-357C	Skibbereen Shellfish Ltd	Cork	Shellfish															333.9	321.8	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-598A	Michael Crowley	Cork	Shellfish															333.9	321.7	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-474A	Sherkin Oysters Ltd	Cork	Shellfish															333.9	321.8	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-440	Turk Head Enterprises	Cork	Aquatic Plant															334.0	321.8	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-252B	Sherkin Oysters Ltd	Cork	Shellfish															334.2	322.1	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-252A	Sherkin Oysters Ltd	Cork	Shellfish															334.3	322.2	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-033A	Carl Daly	Kerry	Shellfish															334.4	321.0	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-623A	Dan O'Shea	Cork	Shellfish															334.4	321.4	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-024	Muskerry Seafoods (Kerry) Ltd	Kerry	Shellfish															334.5	321.1	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-327A	Declan O'Sullivan	Kerry	Shellfish															334.6	321.2	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-252D	Sherkin Oysters Ltd	Cork	Shellfish															334.7	322.6	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-154	Paul Kelly	Kerry	Shellfish															334.9	321.5	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-084B	Dan O'Shea	Cork	Shellfish															335.0	321.9	e	e	e	e	a	12	a	e		12	e	d	12	e
T05-550N1	Mannin Seafoods Ltd	Cork	Shellfish															335.1	322.8	e	e	e	e	a	12	a	e		12	e	d	12	e
T06-039C	Sneem Fishermens Co-Op Society Ltd	Kerry	Shellfish																														

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Aquaculture

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	Decommissioning
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Proposed development offshore construction phase

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g	No effect-receptor pathway: Screened out of assessment.

Site ID	Licence Holder	County	Product	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034															
T06-338A	John O'Brien and Timmy McCarthy	Kerry	Shellfish															335.6	322.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-252J	Sherkin Oysters Ltd	Cork	Shellfish															335.9	323.8	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-252G	Sherkin Oysters Ltd	Cork	Shellfish															336.0	323.9	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-014OFO	Matt Murphy	Cork	Shellfish															336.0	324.0	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-528N1	Colin Whooley	Cork	Shellfish															336.2	323.9	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-499N1	Patrick Murphy	Cork	Shellfish															336.2	324.0	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-252F	Sherkin Oysters Ltd	Cork	Shellfish															336.3	324.2	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-258	Kush Seafarms Ltd	Cork	Shellfish															336.5	323.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-558N1	Atlantic Seafarms Ltd	Cork	Shellfish															336.7	324.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-348A	Pallas Fish Farms Ltd	Cork	Shellfish															336.9	323.5	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-317A	John O'Shea	Cork	Shellfish															337.2	323.8	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-160A	Ardgroom Shellfish Ltd	Cork	Shellfish															337.2	323.8	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-536N1	Michael Casey	Cork	Shellfish															337.4	325.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-587A	Allihies Seafood Ltd	Cork	Aquatic Plant															337.5	324.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-317B	John O'Shea	Cork	Shellfish															337.6	324.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-225	Patricia & Seán Daly	Cork	Shellfish															337.6	324.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-044	Kush Seafarms Ltd	Cork	Shellfish															337.6	324.2	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-497N1	Turkhead Enterprises Ltd	Cork	Shellfish															337.6	325.3	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-607A	Dingle Bay Seaweed Ltd	Cork	Aquatic Plant															337.7	324.6	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-160B	Ardgroom Shellfish Ltd	Cork	Shellfish															337.8	324.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-348B	Pallas Fish Farms Ltd	Cork	Shellfish															338.0	324.6	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-622A	Dan O shea	Cork	Shellfish															338.0	325.0	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-129	Kush Seafarms Ltd	Cork	Shellfish															338.2	324.8	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-408A	Bantry Bay Mussels Ltd	Cork	Shellfish															338.2	325.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-041A	Patricia & Seán Daly	Cork	Shellfish															338.3	324.9	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-444E	Comhlucht Iascaireachta Fanad Teoranta	Cork	Finfish															338.3	325.2	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-157	Pallas Fish Farms Ltd	Cork	Shellfish															338.5	325.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-586A	Allihies Seafood Ltd	Cork	Aquatic Plant															338.8	325.8	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-444D	Comhlucht Iascaireachta Fanad Teoranta	Cork	Finfish															339.3	326.3	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-591A	Wild Atlantic Sea Products Ltd	Cork	Aquatic Plant															340.2	327.2	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-340-1	Pallas Fish Farms Ltd	Cork	Shellfish															340.3	326.9	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-617A	Paul Cobb	Cork	Aquatic Plant															340.8	328.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T06-372A	Paul Flannery	Kerry	Aquatic Plant, Echinoder m, Shellfish															341.2	326.6	e	e	e	e	a	12	a	e	12	e	d	12	e
T06-416A	Brian McCarthy	Kerry	Shellfish															341.6	327.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-369	Gerard J Lynch	Cork	Shellfish															341.8	328.4	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-399	John O'Shea	Cork	Shellfish															342.3	328.8	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-601A	G & B Barge Operators Ltd	Cork	Shellfish															342.3	329.2	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-535A	Rodeen Fish Farm Ltd	Cork	Shellfish															342.4	329.2	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-427-2	Comhlucht Iascaireachta Fanad Teoranta	Cork	Finfish															342.6	329.5	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-534B	Cormorant Mussel Ltd	Cork	Shellfish															342.9	329.8	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-065N1	Cormorant Mussel Ltd	Cork	Shellfish															343.0	329.8	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-594A	Dingle Bay Seaweed Ltd	Cork	Aquatic Plant, Echinoder m, Shellfish															343.1	330.0	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-534A	Cormorant Mussel Ltd	Cork	Shellfish															343.2	330.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T05-640A	Bantry Marine Research Station Ltd	Cork	Aquatic Plants															343.9	331.1	e	e	e	e	a	12	a	e	12	e	d	12	e
T06-064-7	Murphy's Irish Seafood Ltd	Kerry	Finfish															344.0	330.5	e	e	e	e	a	12	a	e	12	e	d	12	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Aquaculture

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
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Proposed development offshore construction phase

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Site ID	Licence Holder	County	Product	Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034														
T05-432D	Crookhaven Fishermen's Association Ltd	Cork	Aquatic Plant, Shellfish															344.8	332.3	e	e	e	e	a	g	a	e	g	e	e	e
T05-464	Rodeen Fish Farm Ltd	Cork	Shellfish															345.0	331.8	e	e	e	e	a	g	a	e	g	e	d	e
T06-518A	VH Shellfish Ltd	Kerry	Shellfish															345.3	331.1	e	e	e	e	a	g	a	e	g	e	d	e
T05-577N1	Dean Murphy	Cork	Shellfish															345.7	332.5	e	e	e	e	a	g	a	e	g	e	d	e
T05-425B	G & B Barge Operators Ltd	Cork	Shellfish															345.7	332.5	e	e	e	e	a	g	a	e	g	e	d	e
T05-634A	Dean Murphy	Cork	Shellfish															345.9	332.7	e	e	e	e	a	g	a	e	g	e	d	e
T06-450A	B.C. Shellfish Ltd	Kerry	Shellfish															346.0	331.7	e	e	e	e	a	g	a	e	g	e	d	e
T06-366A	B.C. Shellfish Ltd	Kerry	Shellfish															346.4	332.1	e	e	e	e	a	g	a	e	g	e	d	e
T06-509A	B.C. Shellfish Ltd	Kerry	Shellfish															346.5	332.2	e	e	e	e	a	g	a	e	g	e	d	e
T06-389A	B.C. Shellfish Ltd	Kerry	Shellfish															346.5	332.2	e	e	e	e	a	g	a	e	g	e	d	e
T06-365A	B.C. Shellfish Ltd	Kerry	Shellfish															346.5	332.3	e	e	e	e	a	g	a	e	g	e	d	e
T06-517A	VH Shellfish Ltd	Kerry	Shellfish															346.9	332.7	e	e	e	e	a	g	a	e	g	e	d	e
T06-461A	Realt Na Mara Ltd	Kerry	Shellfish															347.4	333.2	e	e	e	e	a	g	a	e	g	e	d	e
T06-521A	Nigel Sheehan	Kerry	Shellfish															347.6	333.5	e	e	e	e	a	g	a	e	g	e	d	e
T05-233	Silver King Seafoods Ltd	Cork	Finfish															347.9	334.4	e	e	e	e	a	g	a	e	g	e	d	e
T06-515A	Brian McCarthy and Daniel	Kerry	Shellfish															348.0	333.8	e	e	e	e	a	g	a	e	g	e	d	e
T06-502A	Brian McCarthy and Daniel	Kerry	Shellfish															348.0	333.8	e	e	e	e	a	g	a	e	g	e	d	e
T06-514A	Brian McCarthy and Daniel	Kerry	Shellfish															348.1	333.9	e	e	e	e	a	g	a	e	g	e	d	e
T06-503A	Brian McCarthy and Daniel	Kerry	Shellfish															348.5	334.3	e	e	e	e	a	g	a	e	g	e	d	e
T06-374A	Brian McCarthy & Daniel O'Mahony	Kerry	Shellfish															348.5	334.3	e	e	e	e	a	g	a	e	g	e	d	e
T05-432C	Crookhaven Fishermen's Association Ltd	Cork	Aquatic Plant, Shellfish															350.2	337.7	e	e	e	e	a	g	a	e	g	e	d	e
T05-432B	Crookhaven Fishermen's Association Ltd	Cork	Aquatic Plant, Shellfish															350.5	338.0	e	e	e	e	a	g	a	e	g	e	d	e
T05-523A	Coulagh Bay Sea Farms	Cork	Aquatic Plant, Echinoder m, Shellfish															350.8	337.4	e	e	e	e	a	g	a	e	g	e	d	e
T05-432A	Crookhaven Fishermen's Association Ltd	Cork	Aquatic Plant, Shellfish															351.9	339.4	e	e	e	e	a	g	a	e	g	e	d	e
T06-202	Silver King Seafoods Ltd	Kerry	Finfish															357.2	343.5	e	e	e	e	a	g	a	e	g	e	d	e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Carbon Capture Utilisation and Storage (CCUS)

	Not yet/no longer operational
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			Construction Period (orange outline denotes proposed development offshore construction period)													Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats	SLVIA
Project/Provisional licence	Developer	Status	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034														
EIS Area 1	dCarbonX	10 year NSTA Licence															141.1	149.3	a		a		c	c		e	e			e
CCS Cork Project	Ervia Gas Networks Ireland	In planning															254.7	244.2	f		f		e	e		e	d			e

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Coastal assets

	Not yet/no longer operational
	Abandoned/Not in use
	Construction
	Operation and Maintenance
	Decommissioning
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e	No physical effect-receptor overlap: Screened out of assessment.
f	Low data confidence: Screened out of assessment.
g	No effect-receptor pathway: Screened out of assessment.

Project	Developer	Licence	Status	Construction Period (red outline denotes proposed development offshore construction period)												Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats		
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032															2033	2034
Operations and Maintenance Facility (OMF) at Greenore	Greenore Port	N/A	Pre application															33.9	38.8	e	e	e	e	C	e	e	e	e	e	e	e
Irish Water - Loughshinny	Irish Water	FS005749	Completed															7.7	12.8	g	b	e	d	a	a	a	a	d	d	e	
Irish Water - Lusk	Irish Water	FS005745	Approved															8.0	15.6	g	b	e	d	a	a	a	a	d	d	e	
Construction of a new disability access landing pontoon		F21A/0239 (Fingal County council - Approved in	Consultation															10.2	17.6	g	g	e	f	a	a	a	a	d	d	e	
	Rush Sailing Club																														
Irish Water Benthic Survey	Irish Water	FS007605	Licence valid															11.0	24.6	d	d	e	d	a	a	a	a	e	d	e	
Greater Dublin Drainage Sea Outfall Pipe	Irish Water	FS 006843	Licence valid															11.3	24.8	b	b	e	d	f	a	a	a	e	d	e	
Reinstatement and repair of the current rock armour weir under UBB36 bridge back	ByrneLooby Partners (Irl)	Reference: F23A/0451	Application submitted															12.1	19.6	f	f	e	f	a	a	d	a	e	d	e	
Broadmeadow Way	Fingal County Council	ABP-304624-19	Application submitted															12.5	21.8	d	d	e	d	a	a	d	a	e	d	e	
Malahide Marina Village Ltd	Malahide Marina Village Ltd	FS006731	Approved															13.3	23.8	d	d	e	d	a	a	d	a	e	d	e	
Change of use from restaurant to office in Malahide Marina Village	View Office Space Ltd.	Reference: F19A/0219	Approved															13.5	23.8	d	d	e	g	a	a	a	a	e	d	e	
Permission for the construction in Malahide Marina Village	View Office Space Limited	Reference: F22A/0026	Approved															13.5	23.9	d	d	e	d	a	a	a	a	e	d	e	
Middle Pier development Howth	Mins. for Agri., Food & the Marine	Reference: F19A/0296	Approved															13.9	27.4	d	d	e	d	a	a	a	a	e	d	e	
The Trawler Basin	Minister for Agr., Food & Marine	Reference: F16A/0063	Approved															13.9	27.4	d	d	e	d	a	a	a	a	e	d	e	
Extension of marine facilities Howth	Howth Yacht Club	Reference: F10A/0353/E 1	Approved															14.1	27.6	e	e	e	d	a	a	a	a	e	d	e	
RNLI Lifeboat Station Pontoon construction	RNLI	Reference: F15A/0512	Approved															14.2	27.7	e	e	e	d	a	a	a	a	e	d	e	
Maintenance and repair of rock armour revetment	The Trustees of Portmarnock Golf Club	Reference: F23A/0215	Approved															14.4	27.1	e	e	e	g	a	a	e	a	e	e	e	
Repairs on Rock armour at Portmarnock Golf Club	The Trustees of Portmarnock Golf Club	F21A/0566	Completed															14.4	27.1	e	e	e	d	a	a	a	a	e	e	e	
Fingal County Council	Fingal County Council	FS006845	Completed															15.0	27.0	e	e	e	d	a	a	a	a	e	e	e	
Maintenance dredging River Boyne, Drogheda	Drogheda Port Company	FS005747	Approved															15.7	15.7	e	e	e	C	a	a	d	a	e	e	e	
Rock armour Laytown Beach, Ninch	Meath County Council	FS006602	Approved															17.4	17.4	e	e	e	d	a	a	a	a	e	e	e	
Dublin Port Company MP2 Project	Dublin Port Company	FS006893	Application submitted															18.6	31.9	e	e	e	d	a	a	a	a	e	e	e	
Dublin City Council - Cycleway	Dublin City Council	FS006503	Application submitted															19.4	32.0	e	e	e	f	a	a	a	a	e	e	e	
Dublin Port Development	Dublin Port Company	FS 006893	Licence valid															19.5	32.9	e	e	e	C	f	a	e	a	e	e	e	
Dublin Port Masterplan (3FM Plan)	Dublin Port Company	FS 006893	Licence valid															19.5	32.9	e	e	e	C	a	a	e	C	e	e	e	
Dublin Port maintenance dredging	Dublin Port Company	FS006495	Ended															19.5	32.9	e	e	e	d	a	a	d	a	e	e	e	
Alexandra Basin Redevelopment Project	Dublin Port Company	FS005699	Ended															21.0	34.3	e	e	e	d	a	a	a	a	e	e	a	

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Dublin Port Masterplan (MP2 Plan)	Dublin Port Company	FLA: FS006893 Reference: ABP-304888-19	Application submitted													22.7	35.5	e	e	e	d	f	g	a	g	g	e	e	g
Construction/ installation of an OCGT generating unit and associated plant and equipment, comprising the following main components	ESB	ABP-314365-22	Application submitted													22.9	35.7	e	e	e	d	g	g	a	g	g	e	e	g
Greater Dublin Area Agglomeration Wastewater Discharge	Uisce Éireann	D0034-02	Application submitted													23.0	35.8	e	e	e	d	f	g	a	g	g	e	e	g
Various Sites along Bond Drive Extension, Dublin Port, Dublin 3	Minister for Public Expenditure and Reform	ABP-307352-20	Application submitted													23.0	35.2	e	e	e	g	f	g	d	g	g	e	e	g
New pontoon at Berth 50 for Tug boats	Dublin Port Company	FS006806	Approved													23.1	35.5	e	e	e	d	a	g	a	g	g	e	e	g
Permission for construction adjacent to Berth 49, Ferryport Terminal 1, Dublin Port	Dublin Port Company	Reference: 3176/19	Licence valid													23.1	35.7	e	e	e	d	a	g	a	g	g	e	e	g
Outfall and works at South Bank River Boyne, Drogheda	Talebury Holdings	FS005255	Consultation													23.4	23.4	e	e	e	f	f	g	d	g	g	e	e	g
Dublin Port maintenance dredging	Dublin Port Company	FS007132	Ended													23.4	36.0	e	e	e	c	g	g	e	g	g	e	e	g
North Wall Emergency Power Generation Plant	ESB	ABP-313918-22	Licence valid													23.5	35.8	e	e	e	g	g	g	e	g	g	e	e	g
Temporary emergency electricity generating plan within the existing North Wall Power Generating Station	Minister of the Environment, Climate and Communications	ABP-313918	Application submitted													23.5	35.8	e	e	e	d	g	g	a	g	g	e	d	g
Ringsend Wastewater Treatment Works Extension	Irish Water	D0034-01	Approved													23.5	36.2	e	e	e	c	f	g	e	g	g	e	e	g
Permission for Construction and development adjacent to Pigeon House Road	Dublin Port Company	Reference: 3711/18	Licence valid													23.5	36.1	e	e	e	d	g	g	a	g	g	e	d	g
Foreshore licence application for the Installation of a 200mm welded steel pipeline under the Tolka River using trenchless techniques. The pipeline will be used to transport aviation fuel from Dublin Port to Dublin airport.	Ireland	FS005704	Approved													23.9	35.7	e	e	e	d	a	g	a	g	g	e	d	g
Gas pipeline trenchless crossing	Bord Gais	FS006104	Approved													23.9	35.8	e	e	e	f	g	g	e	g	g	e	e	g
Dun Laoghaire Harbour East Pier Revetment Repair Works	Dún Laoghaire-Rathdown County Council	DLH-003-23	Approved													24.6	38.2	e	e	e	d	g	g	a	g	g	e	d	g
Dun Laoghaire Harbour Company	Dun Laoghaire Harbour Company	FS006713	Submitted													24.8	38.4	e	e	e	g	a	g	e	g	g	e	e	g
Development at Howth Fishery Harbour Centre	Minister for Agriculture, Food and the Marine	F21A/0368	Application submitted													24.9	38.3	e	e	e	d	a	g	a	g	g	e	d	g
Ravensburg Ltd	Ravensburg Ltd	FS006433	Approved													25.2	37.2	e	e	e	d	a	g	a	g	g	e	d	g
Stena Line Linkspan removal	Stena Line	FS006557	Approved													25.4	38.9	e	e	e	d	a	g	a	g	g	e	d	g
Dun Laoghaire Harbour Company	Dun Laoghaire Harbour Company	FS006786	Approved													25.4	39.0	e	e	e	d	a	g	a	g	g	e	d	g
Techworks Marine Monitoring Buoys	Techworks Marine	FS006758	Approved													25.5	39.0	e	e	e	d	a	g	a	g	g	e	d	g
Devlopment of an Urban Beach at Dun Laoghaire	Dun Laoghaire Harbour Company	Reference: D13A/0682	Approved													25.5	39.0	e	e	e	d	a	g	a	g	g	e	d	g

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Urban Beach and Floating Pool Facility at Dun Laoghaire	Dun Laoghaire Harbour Company	Reference: D13A/0682	On hold														25.5	39.0	e	e	e	d	a	g	a	g	g	e	d	g
Permission for Retention of a steel mesh fence and associated structural posts	Dun Laoghaire Harbour Company	Reference: D18A/0206	Approved														25.5	39.1	e	e	e	f	f	g	d	g	g	e	d	g
Development of a High-Performance Training Base	Irish Sailing Association	Reference: D18A/0460	Approved														25.5	39.0	e	e	e	f	f	g	d	g	g	e	d	g
Development and extension and associated site woks at the National Yacht Club	The National Yacht Club	Reference: D22A/0758	Approved														25.6	39.1	e	e	e	f	f	g	d	g	g	e	d	g
Permission for Retention	POD Marine Ltd	Reference: D18A/1123	Approved														25.8	39.3	e	e	e	f	a	g	a	g	g	e	d	g
Dursey Island Cable Car and visitor centre (cable car crosses HWM).	Cork County Council	Reference: YA04.30544 2	Approved														25.8	39.3	e	e	e	d	a	g	a	g	g	e	d	g
Permission for Retention	Brendan Farrell	Reference: D11A/0301	Approved														25.8	39.3	e	e	e	d	a	g	a	g	g	e	d	g
Dun Laoghaire Rathdown Co Co - Baths	Dun Laoghaire Rathdown Co Co - Baths	FS005832	Approved														25.8	39.4	e	e	e	d	a	g	a	g	g	e	d	g
Coastal protection works Annagassan	Louth County Council	FS006560	Approved														25.8	39.4	e	e	e	f	a	g	e	g	g	e	e	g
Dun Laoghaire Rathdown Co.Co. - Dalkey Island	Dun Laoghaire Rathdown Co.Co. - Dalkey Island	FS006077	Approved														26.7	40.1	e	e	e	d	a	g	a	g	g	e	d	g
Development & refurbishment & internal alterations to dwelling	Sorrento HGT Unlimited Company	Reference: D22A/0566	Permission granted and refused														27.2	40.6	e	e	e	d	a	g	a	g	g	e	d	g
Shanganagh Waste Water Treatment Plant	Dun Laoghaire-Rathdown County Council	D0038-01	Operational														30.3	43.8	e	e	e	d	a	g	a	g	g	e	d	g
Dun Laoghaire Rathdown County Council - Corbawn Lawn	Dun Laoghaire Rathdown County Council - Corbawn Lawn	FS006826	Completed														31.0	44.4	e	e	e	d	a	g	a	g	g	e	d	g
Maintenance dredging River Boyne, Dogheda	Drogheda Port Company Dredging of River Boyne	FS007028	Approved														32.4	34.2	e	e	e	c	g	g	a	g	g	e	e	g
Slipway construction at Greenore Port	Frazer Ferries Ltd	FS005705	Application submitted														32.4	34.2	e	e	e	d	a	g	a	g	g	e	d	g
Development at Greenore Port	Greenore Port	FS006748	Approved														32.5	34.2	e	e	e	c	g	g	e	g	g	e	e	g
Capital dredging at Greenore Port	Greenore Port	FS006676	Application submitted														32.6	34.3	e	e	e	f	a	g	d	g	g	e	d	g
Process for the Bray Sustainable Transport Bridge Project	Wicklow County Council	Reference: 21869	Approved														33.9	47.2	e	e	e	d	g	g	a	g	g	e	d	g
EXTENSION OF APPROPRIATE PERIOD	Shankill Property Investments Limited	Reference: 20672	Validated														34.0	47.3	e	e	e	f	f	g	d	g	g	e	d	g
Bord Gais Networks - Dublin	Bord Gais Network	FS006104	Approved														35.8	29.5	e	e	e	f	g	g	c	g	g	e	e	g
Greenway from Omeath Pier to the County Bridge	LLC	Reference: 20504	Approved														37.6	38.5	e	e	e	d	g	g	a	g	g	e	d	g
Maintenance dredging at Soldiers Point, Dundalk Harbour	O'Hanlon and Sons Ltd	FS006425	Approved														38.5	38.5	e	e	e	d	a	g	a	g	g	e	d	g
Permission for alteration to Plan for integrated harbour / marina mixed development	Wicklow County Council	Reference: 18371 (previous ref: 17664)	Ended														39.2	52.0	e	e	e	d	g	g	a	g	g	e	d	g
Coast Guard Station Wicklow	The Commissioners of Public Works in Ireland	Reference: 2035	Approved														39.6	52.4	e	e	e	d	g	g	a	g	g	e	d	g
Omeath Sewerage Scheme	Irish Water	FS006575	Application submitted														41.8	42.6	e	e	e	f	f	g	d	g	g	e	d	g
Permission for installation of floating pontoon Wicklow town	Wicklow County Council	Reference: 20471	Approved														58.3	70.4	e	e	e	d	a	g	a	g	g	e	d	g

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Permission to Reconnect Wicklow Town Centre and South Quay	Wicklow County Council	Reference: 221133	Approved														58.3	70.5	e	e	e	d	g	g	a	g	g	e	d	g			
Arklow Sewerage Scheme - South Quay Wall	Irish Water	FS006715	Approved														61.4	75.0	e	e	e	d	a	g	a	g	g	e	d	g			
Irish Water - Dun Laoghaire	Irish Water	FS006543	Application submitted														63.2	73.3	e	e	e	d	a	g	a	g	g	e	d	g			
Irish Water - Swords	Irish Water	FS005738	Approved														66.3	70.5	e	e	e	d	a	g	a	g	g	e	d	g			
Waste water treatment Plant - Arklow		Reference: ABP-302556-18	Application submitted														79.301141	91.713222	e	e	e	d	g	g	a	g	g	e	d	g			
Arklow Waste Water Treatment Plant	Irish Water	FS006862	Approved														79.7	92.2	e	e	e	d	g	g	e	g	g	e	e	g			
Dredging at Arklow Harbour	Wicklow County Council	FS005762	Application submitted														79.7	92.2	e	e	e	f	f	g	d	g	g	e	d	g			
Flood relief scheme Arklow	Wicklow County Council	Reference: YA27.31036 8.	Approved														79.7	92.2	e	e	e	g	g	g	e	g	g	e	e	g			
Flood Relief Scheme Arklow	Wicklow County Council	ABP-310368-21	Approved														79.7	92.2	e	e	e	f	f	g	d	g	g	e	d	g			
Arklow Bank Wind Park Phase 2 Operations and Maintenance Facility Onshore and Nearshore infrastructure and associated works	Sure Partners Limited	Reference: 21/1316.	Approved														79.9	92.4	e	e	e	d	g	g	a	g	g	e	d	g			
Development to the south of South Quay Arklow- ABWP2 OMF	Sure Partners Limited	Planning Application: 211316	Approved														79.9	92.4	e	e	e	c	g	g	e	g	g	e	e	g			
Installation of a pontoon & anchorage system in the River Boyne	Drogheda Borough Council	Reference: 14207	Approved														81.7	81.7	e	e	e	d	a	g	a	g	g	e	d	g			
Fendering replacement at Carlisle Pier	Dun Laoghaire Rathdown County Council	FS007290	Application submitted														113.8	113.8	e	e	e	e	a	g	a	g	g	e	d	g			
River Slaney (Enniscorthy)	Commissioners of Public Works	DPE063-015-2020	Application submitted														118.4	131.8	e	e	e	e	g	g	a	g	g	e	d	g			
Carnsore Wind Farm Project	Hibernian wind power ltd	Application No.: 2021122 2	Application submitted														150.3	162.9	e	e	e	e	a	g	a	g	g	e	d	g			
Permission for the continuation of sand and gravel extraction and processing from an existing registered quarry (ref: Q11)	Inish Pebble Company Ltd	Planning number 20200063	Licence valid														151.6	164.8	e	e	e	e	g	g	e	g	g	e	e	g			
Waterford City Public Inquiry	Waterford City and County Council	ABP-311746-21	Application submitted														157.8	170.9	e	e	e	e	g	g	a	g	g	e	d	g			
RIVER SUIR SUSTAINABILITY	Waterford City & County Council	ABP-303274-18	Application submitted														158.2	171.3	e	e	e	e	a	g	a	g	g	e	d	g			
Permission for Extension	Brian Hennessey	Reference: 221068	Licence valid														162.2	175.7	e	e	e	e	g	g	e	g	g	e	e	g			
Retention Permission for breakwater and coastal defence wall	Peter Casey	Reference: 2250538	Licence valid														173.1	175.8	e	e	e	e	f	g	e	g	g	e	e	g			
Retention Permission for slipway development works	Peter Casey	Reference: 1951651	Licence valid														173.1	175.8	e	e	e	e	f	g	a	g	g	e	d	g			
Greenlink Interconnector	Greenlink Interconnector limited	FS007050	Licence valid														183.1	196.1	e	e	e	e	d	g	c	g	g	e	d	g			
Review of a Waste Water Discharge Licence	Youghal Wastewater Treatment Plant Mudlands Youghal Co. Cork	D0139-03	Application submitted														215.3	227.6	e	e	e	e	f	g	d	g	g	e	d	g			
Permission for rehabilitation and removal of sediment	Irish Water	Reference: 18100	Licence valid														215.5	215.5	e	e	e	e	f	g	a	g	g	e	d	g			
Installation of the EirGrid Celtic Interconnector Electricity Cable	EirGrid PLC	Ref: FS006916	Licence valid														216.4	228.6	e	e	e	e	g	g	c	g	g	e	d	g			

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Permission for refurbishment works to existing coastal defence embankments	Shannon Airport Authority	Reference: 191006	Licence valid															218.3	225.6	e	e	e	e	f	g	a	g	g	e	d	g		
Pontoon System	Department of Agriculture Food and the Marine	Reference: 19642	Licence valid															225.4	237.6	e	e	e	e	f	g	a	g	g	e	d	g		
Permission for construction of sewage system at Ballycotton	Uisce Eireann - Irish Water	Reference: 214483	Approved															231.7	243.9	e	e	e	e	f	g	d	g	g	e	d	g		
Jetty extension	Shannon Foynes Port Company	FS006837	Approved															232.5	239.8	e	e	e	e	a	g	a	g	g	e	d	g		
Port capacity extension	Shannon Foynes Port Company	PL91 .301561	Approved															232.8	240.2	e	e	e	e	f	g	d	g	g	e	d	g		
Strategic Infrastructure Development (Electricity Transmission Interconnector Development)	EirGrid PLC	ABP-310798-21	Approved															233.3	244.9	e	e	e	e	g	g	a	g	g	e	d	g		
Permission for the construction of new cheese production facility	Dairygold Co-operative Society Ltd.	Reference: 167031	Approved															235.1	246.9	e	e	e	e	g	g	e	g	g	e	e	g		
Permission for construction at Lower Aghada Tennis and Sailing Club	Lower Aghada Tennis and Sailing Club	Reference: 215729	Approved															239.2	251.0	e	e	e	e	f	g	d	g	g	e	d	g		
Permission to construct a boat storage area	Mayo Sailing Club	Reference: 207	Licence valid															239.4	239.4	e	e	e	e	e	g	a	g	g	e	d	g		
Permission to develop proposed works	Bád Chlós Ros a' Mhíl Teo	Reference: 201633	Licence valid															240.1	242.1	e	e	e	e	g	g	a	g	g	e	d	g		
Permission for small craft harbour -Rossaveel	Minister of Agriculture, Food & the Marine	Reference: 21300	Licence valid															240.2	242.2	e	e	e	e	a	g	a	g	g	e	d	g		
Permission for development at a 10.22 hectares site within ESB Aghad a Generating Station	ESB	23/5104	Licence valid															240.4	252.3	e	e	e	e	g	g	a	g	g	e	d	g		
Permission for demolition site infrastructure improvements, and utility upgrade works at the Belvelly Port Facility	Belvelly Marino Development Company DAC	Reference: 196783	Granted conditionally - appealed															241.5	253.1	e	e	e	e	a	g	a	g	g	e	d	g		
Extension of construction of marina	Monkstown Bay Marina Company Ltd.	Reference: 154446	Approved															244.4	256.0	e	e	e	e	a	g	a	g	g	e	d	g		
Permission to carry out development related to surfacewater drainage culvert	Clare County Council	Reference: 218003	Application submitted															248.5	254.4	e	e	e	e	a	g	a	g	g	e	d	g		
Permission to install fencing and remove/replace sections	Gurteen Bay & Dog's Bay Conservation Group	Reference: 2260606	Licence valid															266.0	266.4	e	e	e	e	a	g	e	g	g	e	e	g		
Permission for demolition of the existing three span bridge and construction of a new single span bridge	Iarnród Éireann	Reference: 181236	Approved															294.5	302.1	e	e	e	e	g	g	a	g	g	e	d	g		
Decommissioning of certain facilities within the Seven Heads Gas Field	PSE Seven Heads Limited	Consent Application No.1 253993-00-REP-16	Approved															303.0	315.8	e	e	e	e	g	g	a	g	g	e	e	g		
Permission to develop Castle pumping station	Uisce Eireann- Irish Water	Reference: 21264	Approved															309.2	320.2	e	e	e	e	g	g	a	g	g	e	d	g		
Permission for development of Inner Bantry Harbour	Port of Cork Company Limited	Reference: 16640	Approved															311.6	321.8	e	e	e	e	f	g	a	g	g	e	d	g		

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Permission for erection of Wind Turbine	Paul & Francesca Doonan	Reference: 12623	Approved															323.2	333.4	e	e	e	e	f	g	d	g	g	e	d	g		
Permission for developmet of small craft harbour - AN DAINGEAN FISHERY HARBOUR CENTRE	DEPARTMENT OF AGRICULTURE, FOOD AND THE MARINE	Reference: 23871	Application submitted	TBC														327.9	335.6	e	e	e	e	f	g	d	g	g	e	d	g		
Permission for wharf extension at Dinish Island	The Minister for Agriculture Food and the Marine	Reference: 17637	Operational															337.1	346.8	e	e	e	e	a	g	a	g	g	e	d	g		
Permission is sought for components to the Castletownbere Sewerage Scheme	Irish Water	Reference: 19813	Approved															338.1	347.7	e	e	e	e	a	g	a	g	g	e	d	g		
Permission for construction of extension to production facility	Wyeth Nutritionals Ireland Ltd	Reference: 18915	Ended															344.7	350.8	e	e	e	e	g	g	a	g	g	e	d	g		
Killybegs Quay extension	Department of Agriculture, Food and the Marine	Reference: 17/51385	Approved															350.8	360.3	e	e	e	e	e	g	a	g	g	e	d	g		
Flood Relief Scheme	the Commissioners of Public Works	DPE63-9-2018	Application submitted															n/a	n/a	e	e	e	d	g	g	a	g	g	e	d	g		
Permission for installation of new diving boards	Fenit Development Association	Reference: 181176	Approved															n/a	n/a	e	e	e	d	g	g	a	g	g	e	d	g		
Permission for provision of new rock armour and repair of existing rock armour at the Tralee Golf Club	Tralee Golf Club	Reference: 21648	Withdrawn 2021 - Expires 2026															n/a	n/a	e	e	e	d	e	g	a	g	g	e	d	g		
Permission for refurbishment of existing slipway	Department of Agriculture, Food and the Marine	Reference: 18547	Ended															n/a	n/a	e	e	e	d	a	g	a	g	g	e	d	g		

Offshore Stage 1 and Stage 2 Cumulative Effects Matrices
Industry: Site Investigation Surveys

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Project	Developer	Licence	Status	Construction Period (orange outline denotes proposed development offshore construction period)														Distance to array area (km)	Distance to ECC (km)	Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Offshore Archaeology	Infrastructure and Other Users	Offshore Bats
				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034														
LIC230001 – North Irish Sea Array Windfarm Limited (Site Investigations)	North Irish Sea Array (NISA) Windfarm Limited	LIC230001	Consultation closed															0.0	0.0	d	d	d	d	d	d	d	d	d	d	d	
Cooley Point	Hibernian Wind Power	FS006852	Approved															0.1	7.4	d	d	e	d	f	g	d	g	g	d	e	
Statkraft North Irish Sea Array (NISA) Site Investigations for Export Cable Route	North Irish Sea Array (NISA) Windfarm Limited	FS007358	Approved															0.3	0.0	d	d	e	d	f	g	e	g	g	d	e	
North Irish Sea Array (NISA) Site Investigations	Statkraft	FS007031	Approved															3.1	10.8	d	d	e	d	f	g	d	g	g	d	e	
Lir Offshore Array Ltd., Site Investigations for the proposed Lir Offshore Array, off Counties Louth, Meath and Dublin	Lir Offshore Array Limited	FS007392	Application submitted*															4.2	2.6	d	d	e	d	f	g	d	g	g	d	e	
Greenwire Ltd - Skerries	Greenwire Ltd - Skerries	FS005722	Application submitted															11.3	1.7	d	d	e	d	f	g	d	g	g	d	e	
America Europe Connect Ltd	America Europe Connect Ltd	FS006631	Approved															11.6	1.1	d	d	e	d	f	g	d	g	g	d	e	
America Europe Connect Ltd	America Europe Connect Ltd	FS006746	Approved															12.6	8.6	d	d	e	d	f	g	d	g	g	d	e	
Codling Wind Park 11 Ltd	Codling Wind Park Ltd	FS006460	Application submitted															17.2	13.2	e	e	e	d	f	g	d	g	e	d	e	
Codling Wind Park Ltd	Codling Wind Park Ltd	FS006241	Consultation															17.2	13.2	e	e	e	d	g	g	d	g	e	d	e	
Codling Wind Park Ltd.	Codling Wind Park Ltd	FS007045	Approved															17.2	13.2	e	e	e	d	e	g	g	d	e	d	e	
PiPiper Infrastructure Ltd	PiPiper Infrastructure Ltd	FS006762	Consultation															17.8	4.8	e	e	e	d	f	g	d	g	e	d	e	
MaresConnect Electricity Interconnector Site Investigation	Maresconnect Ltd	FS007635	Consultation															17.9	2.0	e	e	e	e	f	g	d	g	g	e	e	e
Oriel Windfarm Ltd	Oriel Windfarm Ltd	FS006459	Application submitted															18.0	22.6	e	e	e	d	f	g	d	g	g	e	d	e
Clogher Head	Hibernian Wind Power	FS006787	Approved															18.6	23.0	e	e	e	d	f	g	d	g	g	e	d	e
Rockabill Cable Systems Ltd	Rockabill Cable Systems Ltd	FS006842	Approved															18.6	15.1	e	e	e	f	f	g	e	g	e	e	e	
Oriel Windfarm Limited, Site Investigations for the proposed offshore Oriel Wind Farm	Oriel Windfarm Ltd	FS007383	Approved															20.2	24.9	e	e	e	d	f	g	e	g	g	e	d	e
Braymore Point	SSE Renewables	FS006973	Approved															20.7	23.1	e	e	e	d	f	g	e	g	g	e	d	g
Foreshore Licence application for geophysical, geotechnical, ecological and metocean site investigation works. Dundalk	Oriel Windfarm Ltd	FS006840	Approved															24.3	28.9	e	e	e	d	f	g	d	g	g	e	d	g
GEO Networks Ltd	Geo Networks Ltd	FS006262	Approved															25.0	21.6	e	e	e	d	f	g	d	g	g	e	d	g
Greater Dublin Drainage Project	Irish Water	FS006292	Ended															26.4	23.3	e	e	e	d	f	g	d	g	g	e	d	g
UCD Soil and Vegetation Sampling - Baldoyle	University College Dublin	FS007192	Consultation															27.0	23.0	e	e	e	d	a	g	d	g	g	e	d	g
Dublin Port Company Site Investigations	Dublin Port Company	FS006497	Approved															36.7	30.8	e	e	e	d	a	g	d	g	g	e	d	g
Providence Resources P.L.C.	Providence Resources P.L.C.	FS006192	Approved															42.2	45.7	e	e	e	d	f	g	d	g	g	e	d	g
Sunrise Wind Ltd., Site Investigations for the proposed Sunrise Offshore Wind Farm, off Counties Dublin and Wicklow	Sunrise Wind Limited	FS007151	Consultation*															68.2	75.9	e	e	e	d	f	g	d	g	g	e	d	g
Codling Wind Park Ltd. Site Investigations for proposed Offshore Wind Farm, off Counties Wicklow and Dublin	Codling Wind Park Limited	FS007546	Approved															68.7	76.3	e	e	e	e	e	g	g	e	g	e	e	g
Wicklow Sea Wind Ltd., Site Investigations for the proposed Wicklow Project offshore wind farm, off County Wicklow	Wicklow Sea Wind Limited	FS007163	Consultation*															68.8	73.7	e	e	e	d	e	g	d	g	g	e	d	g

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				2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032															2033
Sure Partners Site Investigations at Arklow Bank	Sure Partners/SSE	FS007049	Approved														76.3	80.4	e	e	e	d	a	g	d	g	g	e	d	g
Sure Partners Arklow Bank Wind Park Phase 2 Site Investigations	Sure Partners Limited	FS007339	Approved														76.6	81.0	e	e	e	c	f	g	c	g	g	e	e	g
Arklow Bank Wind Park off coast of County Wicklow	Sure Partners Limited	FS007555	Application submitted														76.7	81.2	e	e	e	c	f	g	c	g	g	e	e	g
Banba Wind Ltd., Site Investigations for proposed Offshore Wind Farm, off Counties Wicklow and Dublin	Banba Wind Limited	FS007283	Consultation*														80.9	87.9	e	e	e	d	f	g	d	g	g	e	d	g
Energia Site Investigation off Wexford Coast	Energia Offshore Wind Ltd.	FS007048	Approved														91.2	97.4	e	e	e	d	f	g	c	g	g	e	d	g
Irish Water - Arklow	Irish Water	FS006614	Application submitted														91.7	91.9	e	e	e	d	f	g	d	g	g	e	d	g
Hibernian Wind Power - Kilmichael Point	Hibernian Wind Power	FS006788	Approved														92.0	93.5	e	e	e	d	f	g	d	g	g	e	d	g
Kinsale Head & Seven Heads Gasfields	PSE Kinsale Energy	N/A	Approved														373.1	366.7	e	e	e	e	g	g	d	g	g	e	d	g
Construction of a pedestrian bridge and associated works.	Westport House/Inishoo Management, Westport House Estate, Westport	MAC20230002	Approved														236	221	e	e	e	d	a	g	d	g	g	e	d	g