

WESTERN CATCHMENT FLOOD RISK ASSESSMENT AND MANAGEMENT STUDY - UoM32/33 ERRIFF CLEW BAY AND BLACKSOD - BROADHAVEN RIVER BASIN STRATEGIC ENVIRONMENTAL ASSESSMENT \& NATURA IMPACT ASSESSMENT REVIEW

## FEBRUARY 2018

# WESTERN CATCHMENT FLOOD RISK ASSESSMENT AND MANAGEMENT STUDY - UoM32/33 ERRIFF CLEW BAY AND BLACKSOD - BROADHAVEN RIVER BASIN STRATEGIC ENVIRONMENTAL ASSESSMENT \& NATURA IMPACT ASSESSMENT REVIEW 

User is Responsible for Checking the Revision Status of This Document

| Rev. <br> No. | Description of <br> Changes | Prepared by: | Checked by: | Approved by: | Date: |
| :---: | :--- | :--- | :--- | :--- | :--- |
| 1 | For Client Review | JH/EH/MG/CF | JK | JH | 12.02 .2018 |

Client: Department of Public Expenditure and Reform

Keywords: Review of Flood Risk Management Plan; Environmental Reports; Strategic Environmental Assessment Statement and; Natura Impact Statement
$\begin{array}{ll}\text { Abstract: } & \begin{array}{l}\text { Fehily Timoney \& Company carries out a review of the Environmental Reports, } \\ \text { Strategic Environmental Assessment Statement and Natura Impact Statement to }\end{array} \\ \text { assist the Minister to conclude whether the FRMP will adversely affect the integrity } \\ \text { of a Natura Site/Sites and if significant effects on the environment are likely to occur. }\end{array}$

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## 1 INTRODUCTION

This document has been prepared by Fehily Timoney \& Company on behalf of the Department of Public Expenditure and Reform to review the SEA and AA reports for the Erriff - Clew Bay and Blacksod - Broadhaven River Basin Flood Risk Management Plan (UoM32/33) as part of the Western CFRAM study, such that the Department of Public Expenditure and Reform may be in a position to recommend to the Minister on the adequacy/compliance, or otherwise, of the SEA and AA submitted by the OPW for approval. The approval process will provide for a separate and independent review of the plans undertaken to inform the Minister as to the adequacy/compliance, or otherwise, of the plans.

In considering the Erriff - Clew Bay and Blacksod - Broadhaven River Basin Strategic Environmental Assessment and Appropriate Assessment the following documents were reviewed;

Draft Flood Risk Management Plan

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Strategic Environmental Assessment - Environmental Report
Strategic Environmental Assessment - Environmental Report Addendum
Strategic Environmental Assessment - Statement
Natura Impact Statement
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In assessing these documents a report was produced to determine if the procedures and statutory obligations set out in the relevant environmental regulations have been fully complied with; if all relevant environmental considerations have been duly and effectively assessed; if the FRMP will adversely affect the integrity of a Natura Site/Sites and if significant effects on the environment are likely to occur.

This document is presented in a number of checklists having regard to the EPA guidelines as derived from the SEA Directive (2001/42/EC), the EU Habitats Directive (92/43/EEC) and the Birds Directive as amended (2009/147/EC).

Table 1: AA SCREENING

| AA Screening |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Minimum Requirements |  |  |  |  |
|  | Question | Yes | No | Comment |
| 1.1 | Is the statutory basis for AA set out? | Yes |  | Detailed in section B.1.1 |
| 1.2 | Is methodology in line with DEHLG (2009); EC (2001 and 2002)? | Yes |  | Detailed in section B.1.2 |
| 1.3.1 | Is there a desk based assessment? | Yes |  | Detailed throughout screening process. |
| 1.3.2 | Is there a field-based assessment? |  | No | Not detailed in report. |
| 1.4 | Does the project description adequately describe the project? | Yes |  | Section B. 2 adequately describes the project. |
| 1.5 | Is there a clear figure of the site location and proposed plan? | Yes |  | Figure B-14-2 illustrates the UoM. Measures are illustrated in figures $B-14-3$ and $B-14-4$ for specific works in AFAs. |
| 1.6 | Has consultation with NPWS / DAU taken place? | Yes |  | Consultation is detailed in section B.11. |
| 1.7 | Have all European Sites been considered within 15 km of the project? | Yes |  | Listed in Table B-14-3. |
| 1.8 | Are there any European Sites at a greater distance than 15 km ecologically connected to the project? | Yes |  | Section B. 4 sets out a 35 km zone beyond the study area in relation to sites containing Freshwater Pearl Mussels, Margaritffera, Margaritifera Durrovensis and Groundwater Dependent Terrestrial Ecosystems that are hydrologically connected to the study area. |
| 1.9 | Are figures included illustrating the project in relation to European Sites? | Yes |  | Figure B-14-5 illustrates Natura 2000 sites in relation to AFAs. |
| 1.10 | Is there a clear identification of which European Sites are being considered in the assessment? | Yes |  | Table B-14-4 identifies the Natura 2000 sites that have been screened into the study. |


| AA Screening |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Minimum Requirements |  |  |  |  |
|  | Question | Yes | No | Comment |
| 1.11 | Is the screening of each European Site (out/in) adequately described? | Yes |  | Section B. 5 describes the screening process. |
| 1.12 | Are the conservation objectives for the relevant European Sites set out? | Yes |  | Conservation objectives are included in Appendix B. |
| 1.13 | Has the following screening matrix been fulfilled in text or table format? |  |  |  |
| 1.13 .1 | Is there a brief description of project or plan? | Yes |  | Described in section B.2.5 |
| 1.13 .2 | Is there a brief description of the Natura 2000 (European) Site(s)? | Yes |  | Detailed in Appendix B. |
| 1.13 .3 | Is there a description of any likely direct, indirect or secondary impacts of the project (either alone or in combination with other plans or projects) on the Natura 2000 site by virtue of? |  | No | Impacts listed in the screening process do not relate to specific Natura 2000 sites. General potential impacts are listed in Table B-14-1 and cumulative impacts are discussed in relation to other plans and policies in Table B-14-5. |
|  | - Size and scale; |  |  |  |
|  | - Land-take; |  |  |  |
|  | - Distance from Natura 2000 site or key features of the site; |  |  |  |
|  | - Resource requirements; |  |  |  |
|  | - Emissions; |  |  |  |
|  | - Excavation requirements; |  |  |  |
|  | - Transportation requirements; |  |  |  |
|  | - Duration of construction, operation etc.; |  |  |  |
|  | - Other. |  |  |  |


| AA Screening |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Minimum Requirements |  |  |  |  |
|  | Question | Yes | No | Comment |
| 1.13 .4 | Is there a description of the likely changes to the site arising as a result of? |  | No | The AA screening does not discuss likely impacts in relation to specific qualifying factors of Natura 2000 sites. |
|  | - Reduction of habitat area; |  |  |  |
|  | - Disturbance of key species; |  |  |  |
|  | - Habitat or species fragmentation; |  |  |  |
|  | - Reduction in species density; |  |  |  |
|  | - Changes in key indicators of conservation value; |  |  |  |
|  | - Climate change. |  |  |  |
| 1.13 .5 | Is there a description of any likely impacts on the Natura 2000 site as a whole in terms of? | Yes |  | Table B-14-1. Impacts are not discussed in relation to specific Natura 2000 sites but with regard to all sites. |
|  | - Interference with the key relationships that define the structure of the site; |  |  |  |
|  | - Interference with key relationships that define the function of the site. |  |  |  |
| 1.13 .6 | Are indicators of significance provided as a result of the identification of effects set out above in terms of: |  | No | Indicators of significance are not set out in AA screening. |
|  | - loss, |  |  |  |
|  | - fragmentation, |  |  |  |
|  | - disruption, |  |  |  |
|  | - disturbance, |  |  |  |
|  | - change to key elements of the site (e.g. water quality etc.). |  |  |  |


| AA Screening |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Minimum Requirements |  |  |  |  |
|  | Question | Yes | No | Comment |
| 1.13 .7 | Is there a description from the above, those elements of the project or plan, or combination of elements, where the above impacts are likely to be significant or where the scale of magnitude of impacts is not known? | Yes |  | Table B-14-1 sets out the significance of impacts. |
| 1.14 | Have other plans or projects in the vicinity been identified? | Yes |  | Table B-14-5 sets out relevant plans and policies. |
| 1.15 | Have cumulative effects been assessed? | Yes |  | Section B. 5.3 sets out cumulative impacts. |
| 1.16 | Has a FONSE Matrix been completed for screened out European Sites, including the following: |  | No | A formal matrix has not been created for screened out sites, however, the assessment continues to Stage 2. |
| 1.16 .1 | Name and location of the Natura 2000 sites |  |  |  |
| 1.16.2 | Description of the project or plan |  |  |  |
| 1.16.3 | Is the Project or Plan directly connected with or necessary to the management of the site (provide details)? |  |  |  |
| 1.16 .4 | Are there other projects or plans that together with the project or plan being assessed could affect the site (provide details)? |  |  |  |
| 1.16 .5 | Describe how the project or plan (alone or in combination) is likely to affect the Natura 2000 site |  |  |  |
| 1.16 .6 | Explain why these effects are not considered significant |  |  |  |
| 1.16 .7 | Who carried out the assessment |  |  |  |
| 1.16 .8 | Sources of Data |  |  |  |
| 1.17 | Are the reasons for proceeding to Stage 2 clearly explained? | Yes |  | Clearly stated in section B.6. |

Table 2: NATURA IMPACT STATEMENT

| Natura Impact Statement |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Minimum Requirements |  |  |  |  |
|  | Question | Yes | No | Comment |
| 2.1 | Does the plan description adequately describe the plan? | Yes |  | Set out in section B. 2 and B.7. |
| 2.2 | Are the conservation objectives detailed? | Yes |  | Appendix B details conservation objectives for Natura 2000 sites. |
| 2.3 | Is there an adequate description of how the project will affect key species and key habitats? | Yes |  | Set out in section B.7.1. However, information is non-specific to individual Natura 2000 sites. |
| 2.4 | Are there any uncertainties or gaps in information? | Yes |  | Due to the strategic nature of the plan, detailed works are not set out. Section B. 10 states, in relation to structural works, "the design of these works has not been finalised and may change before being implemented." <br> Section B.7.2 states that "The implementation of AFA works will require further assessment at a project level, at which stage more detailed mitigation measures can be designated as appropriate," <br> Therefore, detailed impacts on Natura 2000 sites cannot be effectively established at this level, requiring further evaluation at project level. |
| 2.5 | Is the effect of the project on the integrity of the European Sites adequately assessed (determined by structure and function and conservation objectives) *check desktop data to ensure all elements have been addressed? |  | No | Section B.7.2 discusses the potential significant effects on proposed measures for AFA flood relief works at Clifden and Westport. Further detail of impacts to Natura 2000 sites throughout the UoM are lacking due to the strategic nature of this plan. |
| 2.6 | Are mitigation measures described to avoid, reduce or remedy effects? | Yes |  | Section B. 9 sets out mitigation measures. |

Natura Impact Statement
Minimum Requirements


## Natura Impact Statement

Minimum Requirements

|  | Question | Yes | No | Comment |
| :--- | :--- | :--- | :--- | :--- |
| 2.8 | Has consultation with NPWS / DAU taken place? | Yes |  | Consultation is mentioned in section B.11. |
| 2.9 | Are there any significant impacts predicted? |  |  | Section B.10 states that "this plan will not adversely impact on the <br> site integrity of the Natura 2000 network of sites". However, it is also <br> stated in section B.10 that structural measures have not been finalised <br> and therefore "it is not possible to determine all potential impacts at <br> this plan level without the final project details." |

Table 3: SEA SCREENING

| SECTION 1 SEA SCREENING |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 1.1 | In reaching a determination of the requirement for SEA, have the criteria set out in Annex 1 of the SEA Directive and Schedule 2A of S.I. 436 or Schedule 1 of S.I. 435 been taken into account? | Yes |  | Section 4 of Screening Report (Available from the West CFRAM website) details the process of determination for SEA. Determination was made at pre-screening stage and assessed further against criteria. | SEA Directive Annex I (2001), Schedule 2A S.I. 436 (2004), Schedule 1 of S.I. 435 (2004) |
| 1.2 | Has a determination been made, in consultation with the DoEHLG, regarding the requirement for an appropriate assessment in accordance with the Habitats Directive? | Yes |  | Section 4.2.6 of Screening Report details the requirement for Appropriate Assessment along with consultation with the relevant government departments. | Habitats Directive Article 6(3) |
| 1.3 | Has the relevant competent authority consulted the prescribed environmental authorities as required and notified them of its determination? | Yes |  | Section 5.2 of Screening Report states compliance. | SEA Directive Article $3(6) / 6(3)$, S.I. $435(2004)$ |
| 1.4 | Has the relevant statutory authority made available for public inspection a copy of its determination on the requirement for SEA? | Yes |  | Made available on West CFRAM Website. | S.I. 435 (2004) |
| 1.5 | Does the screening determination clearly state whether SEA is required or not, who has made the decision and when? | Yes |  | Section 1.2 of Screening report. OPW (2011), state that SEA should be undertaken as a matter of good practice. |  |
| 1.6 | If the P/P has been screened out of SEA, does it clearly demonstrate that it does not meet all/most of the criteria of Annex 1 and Schedule 2A of S.I. 436 and Schedule 1 of S.I. 435 ? | n/a | n/a | $p / p$ has not been screened out of SEA. |  |


| SECTION 1 SEA SCREENING |  |  |  |  |  |  |  |  |
| :--- | :--- | :---: | :---: | :--- | :--- | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |  |  |  |
| 1.7 | Has a description been provided in the ER of the <br> screening process and subsequent <br> determination? | Yes |  | Screening process is not detailed in the ER <br> but is found in the Screening Report on the <br> West CFRAM website. Determination is <br> clearly stated in section 5.2 of ER. |  |  |  |  |

Table 4: SCOPING

| SECTION 2 SCOPING |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 2.1 | Were the designated environmental authorities consulted when deciding on the scope of the information to be included in the Environmental Report? | Yes |  | Section 6 of the Scoping report (available from West CFRAM website) details scoping consultation. | SEA Directive Article 5(4) |
| 2.2 | Does the proposed scope of the report cover all the relevant information in accordance with Annex 1 of the SEA Directive and all of the points in Schedule 2 and Schedule 2B of S.I. 435 and S.I. 436? If not, have reasons for eliminating issues from further consideration been documented? | Yes |  | Scoping report covers all relevant information (available from the West CFRAM website). |  |
| 2.3 | Has informal preliminary scoping taken place with the designated authorities prior to the commencement of the P/P making process? | Yes |  | Section 6.2.3 of Scoping Report details the organisations that have been consulted at scoping stage. Also detailed in section 8.3 of $E R$. | Guidelines for Regional Authorities \& Planning Authorities: <br> Implementation of SEA Directives Section 3.14 |


| SECTION 2 SCOPING |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 2.4 | Have scoping meetings/workshops been held with (a) any of the designated environmental authorities, (b) relevant internal departments within the organisation and (c) other relevant statutory and non-statutory organisations? | Yes |  | Scoping workshop was held in June 2012. Details of attendees are listed in table 6.1 in Scoping Report. |  |
| 2.5 | Where appropriate, if the zone of influence extends beyond the plan boundary, has transboundary notification and consultation been undertaken with other Member States \& adjoining authorities on the scope of the SEA? | Yes |  | Consultation took place with adjoining authorities for areas beyond the UoM (table 6.1 of scoping report). |  |
| 2.6 | As part of the scoping exercise, have the designated authorities been given an outline of: a) the geographical area involved (including a referenced and scaled map of the area) b) the nature of the plan and its intended lifespan c) the likely scale, nature and location of development within the area during the life of the plan (in broad terms) d) the predicted significant effects of this development | Yes |  | Designated authorities attended scoping workshop as stated in section 6.2.3 of Scoping Report (West CFRAM website). | Guidelines for Regional Authorities \& Planning Authorities: <br> Implementation of SEA Directives Section 3.17 |
| 2.7 | Has a Scoping Report been prepared which clearly highlights key environmental resources, zone of influence of the P/P, alternatives, key existing environmental issues/problems and likely significant environmental effects of the P/P? | Yes |  | Available from West CFRAM website. | Guidelines for Regional Authorities \& Planning Authorities: <br> Implementation of SEA Directives Section 3.16 |


| SECTION 2 SCOPING |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 2.8 | Does the scoping report reflect the size/level of detail in the P/P? | Yes |  | Scoping Report is adequate. |  |
| 2.9 | Does the scoping report provide the designated authorities with sufficient information to form a view on the likely significant effects of implementation of the P/P? | Yes |  | Scoping report is thorough. |  |
| 2.10 | Has a Scoping Issues Paper (for land use plans) been prepared to facilitate consultation? Have the environmental issues raised in the Issues paper been appropriately addressed in the scoping report? |  | No | n/a |  |
| 2.11 | Have the public and other interested bodies been identified and consulted at the scoping stage? | Yes |  | Section 6.2.3 of Scoping Report identifies consultees who have been approached in relation to the scoping of the project. |  |
| 2.12 | Have the teams responsible for the preparation of the $P / P$ and the ER been involved in the scoping exercise? | Yes |  | These teams were responsible for the scoping exercise. |  |
| 2.13 | Have the responses to the scoping exercises been included in the Scoping Report? | Yes |  | Responses are detailed in appendix $D$ of Scoping Report. |  |
| 2.14 | Has the Scoping Report been made public? | Yes |  | Available from West CFRAM website. |  |


| SECTION 2 SCOPING |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: |
|  | Question | Yes | No | Comment |  |  |  |
| 2.15 | Where an appropriate assessment is required <br> and will be undertaken in conjunction with the <br> SEA, have any environmental problems, <br> indicators or other issues relevant to the <br> assessment been identified, that need to be <br> considered during the SEA process? | Yes |  |  |  |  |  |

## Table 5: CONSULTATION

| SECTION 3 CONSULTATION |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 3.1 | Have the Draft P/P and accompanying ER been made available to the designated authorities and the public? | Yes |  | Section 4.4.6 of FRMP states compliance. | SEA Directive Article 6(1) \& 6(3) |
| 3.2 | Have the designated environmental authorities and the public been given an early and effective opportunity to express their opinion on the draft P/P and the accompanying ER? | Yes |  | Dates for consultation and submissions stated in section 4.4.6 of FRMP are adequate in terms of statutory time frames. | SEA Directive Article 6(2) \& 6(4) |
| 3.3 | Have the ER and the opinions expressed by the designated authorities and the public during consultation been taken into account during the preparation of the $\mathrm{P} / \mathrm{P}$ ? | Yes |  | Section 4.4.6 of FRMP states that plans were amended accordingly where appropriate. | Sea Directive Article 8 |
| 3.4 | Where relevant, has a copy of the Draft P/P and the ER been forwarded to other Member States before its adoption? |  | No | Section 4.5 of FRMP states that there is no requirement for cross-border coordination. | SEA Directive Article 7 |


| SECTION 3 CONSULTATION |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 3.5 | Where relevant, have the Member States been given a reasonable time frame to respond to the draft $P / P$ and $E R$ ? |  | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |  |
| 3.6 | Have the opinions expressed by other Member States during transboundary consultation been taken into account? |  | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ | SEA Directive Article 7 |
| 3.7 | Has a description of the outcome of all consultations (including transboundary) been documented in the ER? | Yes |  | Responses detailed in Appendix $A$ of SEA Statement. |  |
| 3.8 | Where a consultation recommendation has not been taken on board, has an explanation been provided of why? |  | No | Not mentioned in text. |  |
| 3.9 | Have P/Ps and ERs for counties contiguous to the border with Northern Ireland been subject to transboundary consultation with the relevant Northern Ireland Environmental Authorities? |  | $\mathrm{n} / \mathrm{a}$ | $\mathrm{n} / \mathrm{a}$ |  |
| 3.10 | If the zone of influence of the $P / P$ extends beyond the P/P boundary, have relevant statutory Bodies/Authorities and adjoining Local Authorities been informed and consulted? | Yes |  | Relevant bodies/authorities consulted with at scoping stage (section 6.2.3 of Scoping Report). |  |

Table 6: DESCRIPTION

| SECTI ON 4 Plan Description |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 4.1 | Has an outline of the contents and the main objectives of the P/P been provided in the ER? | Yes |  | Contents and objectives are set out in section 2 of ER. | SEA Directive Article 5 Annex 1(a) |
| 4.2 | Has information been provided on the relationship of the $P / P$ with other relevant $P / P s$ ? | Yes |  | Section 10.6 of ER details links to other plans and strategies. Also detailed in Appendix A of ER. | SEA Directive Article 5 Annex 1(a) |
| 4.3 | Has a referenced and scaled map illustrating the geographical extend of the P/P area been included in the ER? | Yes |  | Figure 2.4 of ER. |  |
| 4.4 | Have any relevant conflicts and/or synergies between the P/P objectives and the objectives of other P/Ps in the hierarchy (including transboundary) been identified and described? | Yes |  | Detailed in Appendix A of ER. |  |
| 4.5 | Has the zone of influence of the P/P been described appropriately? | Yes |  | Section 2.4.4.3 of the ER defines the spatial scale which is described in detail in Section 7. |  |
| 4.6 | Has the potential for transboundary effects of the plan been identified? | Yes |  | Section 4.5 of FRMP states that there is no requirement for cross-border coordination in the Erriff - Clew Bay River Basin. |  |

## SECTION 5 EXISTING ENVIRONMENT

(a) Are the relevant aspects of the current state of the environment described?
(b) Are any existing environmental problems described (in particular those relating to areas designated pursuant to the Birds and Habitats Directives)?
5.1
(c) Are the environmental characteristics of areas that are likely to be significantly affected by the P/P identified?
(d) Is the likely evolution of the existing environment without the implementation of the $\mathrm{P} / \mathrm{P}$ described?
(e) Have any significant gaps in the baseline data been identified?
(f) Have alternative/proxy data sources been identified where existing baseline data is unavailable?

| Environmental Receptors | A | B | C | D | E | F | Comment |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Biodiversity, flora and fauna | x | x | x | x | o | o | Section 7.6 of ER |
| Water (surface, ground, estuarine and <br> coastal) | x | x | x | x | o | o | Section 7.3 of ER |
| Soil | x | x | x | x | o | o | Section 7.4 of ER |
| Landscape | x | x | x | x | o | o | Section 7.5 of ER |
| Cultural Heritage | x | x | x | x | o | o | Section 7.7 of ER |
| Population | x | x | x | x | o | o | Section 7.2 of ER |
| Human Health | x | x | x | x | o | o | Section 7.2 of ER |
| Air | o | o | o | o | o | o | Screened from report |
| Climatic Factors | x | x | x | x | o | o | Section 7.8 of ER |
| Material Assets | x | x | x | x | o | o | Not included in ER. Referred to in <br> SEA statement section 3.3 |
| Interrelationships | x | x | x | x | o | o | Section 7.9 of ER |


|  | Question | Yes | No | Comment | Statutory Basis |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 5.2 |  |  |  |  |  |
| Has a description been included of <br> any difficulties (such as technical <br> deficiencies or lack of know how) <br> encountered in compiling the <br> required information? | Yes |  |  |  |  |
| 5.3 |  |  |  |  |  |


| Question | Yes | No | Comment | Statutory Basis |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 5.6Have existing environmental <br> problems relevant to the P/P been <br> identified and put into the context <br> of relevant environmental <br> objectives, standards, thresholds <br> etc.? | Yes |  | Section 7.10 of ER <br> sets <br> environmental <br> constraints derived <br> from the baseline <br> study. <br> constraints These were <br> developed into <br> objectives laid out <br> in table 9.1. |  |

Table 8: OBJECTIVES, TARGETS AND INDICATORS

|  | Question | Yes | No | Comment | Statutory Basis |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6.1 | Have any environmental protection objectives, established at International, European Community or Member State level which are relevant to the $\mathrm{P} / \mathrm{P}$ been identified? | Yes |  | Set out in section 6 of ER. | SEA Directive Article 5 Annex 1 |
| 6.2 | Have these objectives and any environmental considerations been taken into account (placed in context/linked into the $P / P$ ) during the preparation of the $\mathrm{P} / \mathrm{P}$ ? | Yes |  | These objectives have fed directly into the creation of the FRMP. | SEA Directive Article 5 Annex 1 |
| 6.3 | Are the proposed environmental objectives linked to appropriate targets and indicators? | Yes |  | Table 9.1 of ER links objectives to indicators and targets. |  |
| 6.4 | In relation to environmental targets; (a) have limits or thresholds been established where appropriate? (b) have timescales been set where appropriate? |  | No | Targets do not set out thresholds or timescales at strategic level. |  |


| SECTION 6 OBJECTIVES, TARGETS AND INDICATORS |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 6.5 | Are the environmental indicators capable of the following: <br> - describing trends in the baseline environment? • demonstrating the likely significant environmental impact(s) of the implementation of the P/P? <br> - being used in a monitoring programme? <br> - providing an early warning of significant unforeseen adverse effects? <br> - prioritising key environmental impact(s)? <br> - is the number of environmental indicators manageable, in terms of time and resources? | Yes |  | Cannot provide early warning of unforeseen adverse effects. |  |
| 6.6 | Have the environmental objectives been linked to targets and indicators for those environmental receptors identified as being significantly affected? |  |  |  |  |
|  | Environmental Receptor | 0 | T | I | Comment |
|  | Biodiversity, flora and fauna | n | n | Y | Table 9.1 of ER |
| Water (surface, ground, estuarine and coastal) |  | n | n | Y |  |
| Soil |  | n | n | Y |  |
| Landscape |  | Y | n | n |  |
| Cultural Heritage |  | n | n | Y |  |
| Population |  | n | n | Y |  |
| Human Health |  | n | n | Y |  |
| Air |  | n | n | n | Screened from report. |
| Climatic Factors |  | n | n | n | Targets/Indicators not stated. |
| Material Assets |  | Y | n | n | Section 3.3 of SEA Statement. |
| Fisheries |  | n | n | Y |  |

## SECTION 6 OBJECTIVES, TARGETS AND INDICATORS

| Question | Yes | No | Comment | Statutory Basis |
| :---: | :---: | :---: | :---: | :---: |
| Environmental objective (O): In SEA, objectives are broad, overarching principles which should specify a desired direction of change, for example, 'reduce air pollution' or 'improve human health'. |  |  |  |  |
| Environmental target (T): A target usually underpins an objective often having a time deadline that should be met and should be accompanied by limits or thresholds |  |  |  |  |
| Environmental indicator (I): Indicators are used to track the achievements of objectives and targets, describe the baseline situation, monitor the impact of the proposed plan or programme on the environment and monitor impacts |  |  |  |  |
| Proxy indicators: A measure of activity resulting from a P/P which provides information on environmental impact without the need for a direct measure of an environmental receptor |  |  |  |  |

Table 9: CONSIDERATION OF ALTERNATIVES

| SECTION 7 CONSIDERATION OF ALTERNATIVES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 7.1 | Have 'reasonable alternatives' been identified and described? | Yes |  | Section 12 of ER details alternatives considered. | SEA Directive Article 5 Annex 1 |
| 7.2 | Have the reasons for selecting (a) the alternatives and (b) the preferred alternative been provided? | Yes |  | Section 4 of SEA Statement refers to selection of alternatives. | SEA Directive Article 5 / Article 9 Annex 1 |
| 7.3 | Has a description of how the assessment of alternatives was undertaken been provided? | Yes |  | Section 2.4.4.2 of ER describes the multi-criteria analysis method. | SEA Directive Article 5 Annex 1 |
| 7.4 | Are the potential alternatives proposed assessed against the relevant environmental objectives and against each other? | Yes |  | Appendix G of FRMP sets out potential outcomes and assesses them with weighted scores. |  |
| 7.5 | Has a clear explanation been given of the likely significant environmental effects of each alternative? | Yes |  | Section 10 of ER sets out likely significant effects to the environment with regard to alternatives. |  |
| 7.6 | Has clear written justification been given for the choice of the preferred alternative? | Yes |  | Section 4.3 of SEA Statement sets out justification. |  |
| 7.7 | Do the alternatives considered reflect the objectives and hierarchy of the P/P? | Yes |  | Alternatives are in line with objectives. |  |

Table 10: SIGNIFICANT EFFECTS ON THE ENVIRONMENT

|  | Question | Yes | No | Comment | Statutory Basis |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 8.1 | Are the likely significant effects on the environment described? | Yes |  | Detailed in section 10 of $E R$ in relation to requirements of SEA Directive Article 5 Annex I (f). Material Assets referred to in section 3.3 of SEA Statement. | SEA Directive Article 5 Annex I <br> (f) |
| 8.2 | Are significant effects described in relation to: - current environmental conditions - relevant environmental standards and thresholds | Yes |  | Detailed in section 10 of ER. |  |
| 8.3 | Are appropriate impact prediction methods used, and, are impacts quantified where relevant? | Yes |  | Section 10 of ER sets out impact prediction in a quantified manner in sets of tables throughout the section. |  |
| 8.4 | Have the methods used for impact prediction been described? | Yes |  | Section 5 of ER details impact prediction methods. |  |

Table 11: MITIGATION MEASURES

| SECTION 9 MITIGATION MEASURES |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 9.1 | Have mitigation measures been proposed for all significant adverse effects on the environment of implementing the $P / P$ ? | Yes |  | Table 11.1 of ER sets out mitigation measures for all potential impacts at strategic level. Section 2.3 of ER Addendum details further mitigation measures. | SEA Directive Article 5 Annex 1 |
| 9.2 | Have the proposed mitigation measures been incorporated into the P/P? | Yes |  | Section 6 of the FRMP details mitigation measures. It is noted that more site specific measures will be detailed at project level. |  |
| 9.3 | Have the proposed mitigation measures been linked, where appropriate, to specific relevant significant environmental effects? | Yes |  | Table 11.1 of ER links mitigation measures to environmental effects. |  |
| 9.4 | Has an explanation been provided where mitigation of significant adverse effects is not proposed? |  | No | $\mathrm{n} / \mathrm{a}$ at strategic level. |  |
| 9.5 | Are the mitigation measures proposed within the remit of the statutory authority? If not, is there reasonable certainty that they will be implemented? |  | No | Section 11 of ER states that mitigation will be developed further when site specific impacts are identified (not at strategic level). |  |
| 9.6 | Do the proposed mitigation measures have potential to fully avoid or mitigate the relevant impact(s)? If not, have additional measures been considered? |  | No | Section 11 of ER states that mitigation will be developed further when site specific impacts are identified at project level (not at strategic level). |  |
| 9.7 | Is a description provided of any likely post mitigation residual impacts included? |  | No | Not considered at this stage. |  |


| SECTION 9 MITIGATION MEASURES |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | Question | Yes | No | Comment |
| 9.8 | If the appropriate assessment shows that the <br> P/P would have a significant impact on the <br> integrity of a Natura 2000 site, has the <br> statutory authority considered further <br> alternatives to try to avoid these impacts? | $\mathrm{n} / \mathrm{a}$ |  |  |

Table 12: MONITORING PROGRAMME

|  | Question | Yes | No | Comment | Statutory Basis |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 10.1 | Has a monitoring programme of significant environmental effects of implementing the $P / P$ been described? | Yes |  | Although a program has not been established at strategic level, details are set out in Section 13.3 of ER which describe how the monitoring program will be considered at project stage. Section 5.1 of SEA Statement sets out that a monitoring plan can be put in place when "the plan is initiated". | SEA directive Article 10 Annex <br> 1, S.I. Nos 435 \& 436 (2004) |
| 10.2 | Does the monitoring programme allow unforeseen adverse effects to be identified, for instance, where assumptions underpinning the ER's impact predictions may not come true in practice? | Yes |  | The objectives for the monitoring program that are set out in section 13.3 plan to identify unforeseen adverse effects. | SEA directive Article 10 Annex <br> 1, S.I. Nos 435 \& 436 (2004) |
| 10.3 | Have thresholds / trigger levels been assigned which will determine the need for appropriate remedial action? | Yes |  | The objectives for monitoring set out in section 13.3 detail thresholds and triggers which will be used to create an appropriate monitoring program at project level. | SEA Directive Article 10 Annex <br> 1, S.I. Nos 435 \& 436 (2004) |
| 10.4 | Are responsibilities for carrying out the monitoring programme clearly defined? | Yes |  | Section 5.5 of ER states that the OPW will be responsible. | Planning Guidelines for SEA section 7.7 |


| SECTION 10 MONITORING PROGRAMME |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
| 10.5 | Are responsibilities for responding to any significant negative environmental effects of implementation of the P/P clearly defined? | Yes |  | It is noted that a Government Structure is in place whereby further EIA \& AA study will be carried out at project level. |  |
| 10.6 | Are responsibilities for identifying and responding to unforeseen adverse effects of implementation of the P/P clearly defined? | Yes |  | This will be addressed through project level EIA \& AA |  |
| 10.7 | Has the frequency of monitoring been specified in the monitoring programme? |  | No | Specific monitoring frequency is not set out at strategic level. |  |
| 10.8 | Has the frequency of reporting on the results of the monitoring programme been specified? | Yes |  | Section 13.3 states that monitoring will inform the 6-yearly update to the FRMP. |  |
| 10.9 | Does the monitoring programme address significant gaps identified in the baseline data? | Yes |  | Section 13.3 details ongoing data collection that will be involved in the monitoring process. | Planning Guidelines for SEA section 7.4 |
| 10.10 | Does the monitoring programme utilise existing monitoring arrangements where appropriate? |  | No | Not detailed at strategic level. |  |
| 10.11 | Does the monitoring programme include provision for the ongoing review of environmental targets and indicators? | Yes |  | Objectives set out in section 13.3 in relation to the monitoring program detail the ongoing review of data. |  |
| 10.12 | Has provision been made to produce regular monitoring reports during the time period of the $\mathrm{P} / \mathrm{P}$ ? |  | No | Not detailed at strategic level. |  |
| 10.13 | Does the monitoring programme address transboundary effects, if any? |  | No | $\mathrm{n} / \mathrm{a}$ |  |


| SECTION 10 MONITORING PROGRAMME |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: |
|  | Question | Yes | No | Comment |  |  |  |
| 10.14 | What provisions are there to make the <br> results and interpretation of the monitoring <br> programme available to the designated <br> environmental authorities and the public? | No | Not detailed at strategic level. |  |  |  |  |

Table 13: ENVIRONMENTAL REPORT AND NON-TECHNICAL SUMMARY

| SECTION 11 ENVIRONMENTAL REPORT AND NON-TECHNICAL SUMMARY |  |  |  |  |  |  |
| :--- | :--- | :---: | :---: | :--- | :--- | :--- |
|  | Question | Yes | No | Comment |  | Statutory Basis |
| 11.1 | Does the ER contain all of the aspects listed <br> in Annex 1 of the SEA Directive and Schedule <br> 2 and 2B of S.I. 435 and 436 of 2004? | Yes |  |  | SEA Directive Article 5 Annex 1 |  |
| 11.2 | Does the ER include a non-technical <br> summary? | Yes |  | Pre-text. |  | SEA Directive Article 5 Annex 1 |
| 11.3 | Does the non-technical summary clearly <br> summarise the following: |  |  | SEA Directive Article 5 Annex 1 |  |  |
|  | a) Contents \& Main Objectives of the draft P/P | Yes |  |  |  |  |
|  | b) Current state of the environment and <br> evolution | Yes |  |  |  |  |
|  | c) Environmental characteristics of area <br> significantly affected | Yes |  |  |  |  |
|  | d) Existing environmental problems | Yes |  |  |  |  |
|  | e) Environmental protection objectives | Yes |  |  |  |  |
|  | f) Significant effects on the environment | Yes |  |  |  |  |
|  | g) Mitigation Measures | Yes |  |  |  |  |


| SECTION 11 ENVIRONMENTAL REPORT AND NON-TECHNTCAL SUMMARY |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Question | Yes | No | Comment | Statutory Basis |
|  | h) Alternatives | Yes |  |  |  |
|  | i) Monitoring | Yes |  |  |  |
| 11.4 | Has a description been provided in the ER of the screening process and subsequent determination? | Yes |  | Screening referred to in section 5.2 of ER. Full process set out in screening report available on the Western CFRAM website. |  |
| 11.5 | Have the responses to the scoping exercises been included in the ER? Has an explanation been given as to how these responses were considered? | Yes |  | Stated in section 9.1 of ER. Details of responses are set out in Appendix D of Scoping Report (available from Western CFRAM website). |  |
| 11.6 | Is the non-technical summary concise and easy to understand? | Yes |  |  | Planning guidelines on SEA section 4.41 |
| 11.7 | Has a description of the outcome of all consultations (including transboundary) been documented in the ER? | Yes |  | Section 8 of ER sets out consultation outcomes. |  |
| 11.8 | Have relevant references, glossary of terms and scaled maps (with source identified) been included? | Yes |  |  |  |

## 2 CONCLUSION

Fehily Timoney \& Company were appointed to review the environmental assessment and compile a report on each Flood Risk Management Plan. This report determines that the procedures and statutory obligations set out in the relevant environmental regulations, including but not limited to SI Nos. 477 of 2001 and 435 of 2004 and any relevant amending regulations have been fully complied with

All relevant environmental considerations have been duly and effectively assessed. It is in order for the Minister to decide that the Flood Risk Management Plan will not adversely affect the integrity of Natura Sites and the plans are not likely to have significant effects on the environment.

