

DUMFRIES & GALLOWAY SHORELINE MANAGEMENT PLAN

Strategic Environmental Assessment
Scoping Report



Dumfries & Galloway
Shoreline Management Plan
Strategic Environmental
Assessment
Scoping Report
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26 March 2020

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Contents

ABBREVIATIONS	IV
EXECUTIVE SUMMARY	V
1 INTRODUCTION	1
1.1 Background.....	1
1.2 Strategic Environmental Assessment	1
1.3 Screening for SEA.....	3
1.4 Scoping for SEA.....	4
1.5 SEA Guidance	4
1.6 Statutory Consultees for SEA.....	4
1.7 Appropriate Assessment	4
2 DUMFRIES & GALLOWAY SHORELINE MANAGEMENT PLAN DEVELOPMENT STRATEGY	6
2.1 Background.....	6
2.2 Location and Extent.....	6
2.3 Aims and Objectives.....	8
2.4 Overview of Policy Context.....	8
3 SCOPING FOR THE DUMFRIES & GALLOWAY SHORELINE MANAGEMENT PLAN	11
3.1 Scope of the Dumfries & Galloway SMP.....	11
3.2 Geographic Scope	12
3.3 Temporal Scope.....	15
3.4 Scoping of Strategic Environmental Assessment Topics.....	15
4 BASELINE AND ENVIRONMENTAL PROBLEMS	19
4.1 Overview of Current State of the Environment	19
5 FRAMEWORK FOR ASSESSING ENVIRONMENTAL EFFECTS	22
5.1 SEA Approach	22
5.2 Mitigation	30
5.3 Monitoring.....	31
6 CONSULTATION AND NEXT STEPS	32
6.1 Consultation.....	32
6.2 Next Steps	33

Tables

Table 1-1	Summary Description of the Main Stages in the SEA Process	1
Table 2-1	Summary of Generic Dumfries & Galloway SMP Policies.....	8
Table 2-2	Summary of Key Plans and Programmes Relevant to the Dumfries & Galloway SMP	9
Table 3-1	Proposed Elements of the Dumfries & Galloway SMP to be Assessed.....	11
Table 3-2	Coastal sub-cell boundary locations	12
Table 3-3	Scoping of SEA Topics and Key Environmental Issues.....	15
Table 3-4	Potential Inter-Relationships between SEA Topics.....	17
Table 4-1	Summary of Potential Environmental Baseline Data and Sources.....	19
Table 5-1	Draft Long List of Potential Actions to Manage Shoreline	22
Table 5-2	Draft SEA Objectives.....	25
Table 5-3	Description of SEA Environmental Impact Scores.....	27
Table 5-4	Description of Environmental Impact Specific Mitigation Measures	30
Table 5-5	Description of HRA Mitigation Measures.....	31

Table 6-1	Draft Anticipated Milestones	34
Table 6-2	Proposed Timescale for SEA of the Dumfries & Galloway Shoreline Management Plan.....	34

Figures

Figure 1-1	Overview of the SEA Process.....	3
Figure 2-1	Proposed Dumfries & Galloway SMP - extent.....	7
Figure 3-1	Coastal sub-cell boundaries for the Dumfries & Galloway coastline.....	14
Figure 5-1	Example Output of Environmental Assessment	30

Appendices

Appendix A	SEA Screening Responses	35
Appendix B	SEA Guidance	38
Appendix C	Plans and Programmes.....	40

ABBREVIATIONS

AA	Appropriate Assessment
BGS	British Geological Survey
BT	British Telecom
EIA	Environmental Impact Assessment
EU	European Union
GHG	Greenhouse Gas
IED	Industrial Emissions Directive
HRA	Habitats Regulations Assessment
LA	Local Authority
LAP	Local Area Plan
LNR	Local Nature Reserve
MoD	Ministry of Defence
P/P	Plan / Programme
PPC	Pollution Prevention and Control
RBD	River Basin District
RBMP	River Basin Management Plan
SAC	Special Areas of Conservation
SEA	Strategic Environmental Assessment
SEO	Strategic Environmental Objective
SEPA	Scottish Environment Protection Agency
SGN	Scotia Gas Networks
SMP	Shoreline Management Plan
SNH	Scottish Natural Heritage
SP	Scottish Power
SPA	Special Protection Areas
SSE	Scottish and Southern Energy
SSSI	Sites of Special Scientific Interest
UNESCO	United Nations Educational, Scientific and Cultural Organisation
WFD	Water Framework Directive
WHS	World Heritage Site
WTW	Water Treatment Works
WWTW	Waste Water Treatment Works

EXECUTIVE SUMMARY

This Strategic Environmental Assessment (SEA) Scoping Report is presented as part of the scoping phase of the Dumfries & Galloway Shoreline Management Plan (SMP). The purpose of this Scoping Report is to provide sufficient information on the Dumfries & Galloway SMP to enable the consultees to form an opinion on the appropriateness of the scope, format, level of detail, methodology for assessment and the consultation period proposed for the SEA Environmental Report.

The requirement for the Dumfries & Galloway SMP was identified by SEPA and Dumfries & Galloway Council, through the development of the Solway Local Flood Risk Management Strategy. The Dumfries & Galloway SMP aims to provide guidance to operating authorities and regulatory bodies as to future sustainable coastal flood and erosion risk management, essentially providing an agreed high level approach, intent and framework for management. In addition, the Dumfries & Galloway SMP aims to provide guidance to planners, and to individuals and organisations, with interests in the coast; setting out an understanding of coastal behaviour, the pressures, constraints and opportunities for the sustainable use of the coastal zone, to guide others in developing their own planning. The Dumfries & Galloway SMP is being developed in partnership with the operating authorities and those other organisations with key roles in shoreline management.

The SEA Directive has been implemented in order to integrate environmental considerations into the preparation of plans and programmes and is a means of ensuring a high level of protection for the environment, while also promoting sustainable development. The SEA Directive will ensure that consideration is given to the environment in developing the Dumfries & Galloway SMP. The first step in the SEA process involved a screening consultation, which identified that SEA would be required for the Dumfries & Galloway SMP. This SEA Scoping Report is the next step in the process. This document establishes the scope of works involved for the SEA for the Dumfries & Galloway SMP.

An Environmental Report will be produced as part of the SEA and this will be made available, together with the draft Dumfries & Galloway SMP for public consultation. All comments received during this SEA scoping consultation, and subsequent public consultation on the draft Dumfries & Galloway SMP and Environmental Report, will be considered in the finalisation of the Dumfries & Galloway SMP.

Please send all comments on the scope of the SEA of the proposed Dumfries & Galloway SMP to:

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1 INTRODUCTION

1.1 Background

This Strategic Environmental Assessment (SEA) Scoping Report has been prepared in accordance with the Environmental Assessment (Scotland) Act 2005 which implements European Union Directive 2001/42/EC on the Assessment of the Effects of Certain Plans and Programmes on the Environment. It also adheres, where relevant, to the Conservation (Natural Habitats, & c.) Regulations 1994.

The purpose of this Scoping Report is to provide sufficient information on the Dumfries & Galloway SMP to enable the consultees to form an opinion on the appropriateness of the scope, format, level of detail, methodology for assessment and the consultation period proposed for the Environmental Report.

The Dumfries & Galloway SMP and the SEA of the Dumfries & Galloway SMP are being prepared on behalf of Dumfries & Galloway Council.

The views and opinions of the consultees are sought on the following questions:

- 1) Is there any Plan or Programme missing from the key plans and programmes, relevant to the Dumfries & Galloway SMP, that you think should be included, and why?
- 2) Do you agree with the geographical and temporal scope of the assessment?
- 3) Do you agree with the scoping of the environmental assessment topics?
- 4) Have we identified the key environmental issues relevant to the Dumfries & Galloway SMP?
- 5) Are we proposing the most appropriate data and scale of data to be used?
- 6) Can you propose any other data to be used in the SEA and why it would be beneficial?
- 7) Do you agree with the approach to the assessment?
- 8) Do you agree with the draft SEA objectives?
- 9) Do you agree with the proposed project timescales and proposed consultees in the SEA process?

1.2 Strategic Environmental Assessment

The SEA Directive requires that certain Plans and Programmes, prepared by statutory bodies, which are likely to have a significant impact on the environment, be subject to the SEA process. The SEA process is broadly comprised of the steps shown in **Figure 1-1**. These are given a summary description in **Table 1-1**.

Table 1-1 Summary Description of the Main Stages in the SEA Process

Stage	Description	Status
Screening	Determines whether SEA is required for a Plan, in consultation with the designated statutory consultees.	Completed in November 2019
Scoping	Determines the scope and level of detail of the assessment for the SEA, in consultation with the designated statutory consultees.	Current stage

Stage	Description	Status
Environmental Assessment	Formal and transparent assessment of the likely significant impacts on the environment as a result of implementing the Dumfries & Galloway SMP, including all reasonable alternatives. The output from this is an Environmental Report which must go on public display along with the draft Dumfries & Galloway SMP.	Proposed for November 2020
SEA Statement	Summarises the process undertaken and identifies how environmental considerations and consultations have been integrated into the final Dumfries & Galloway SMP.	Proposed for July 2021

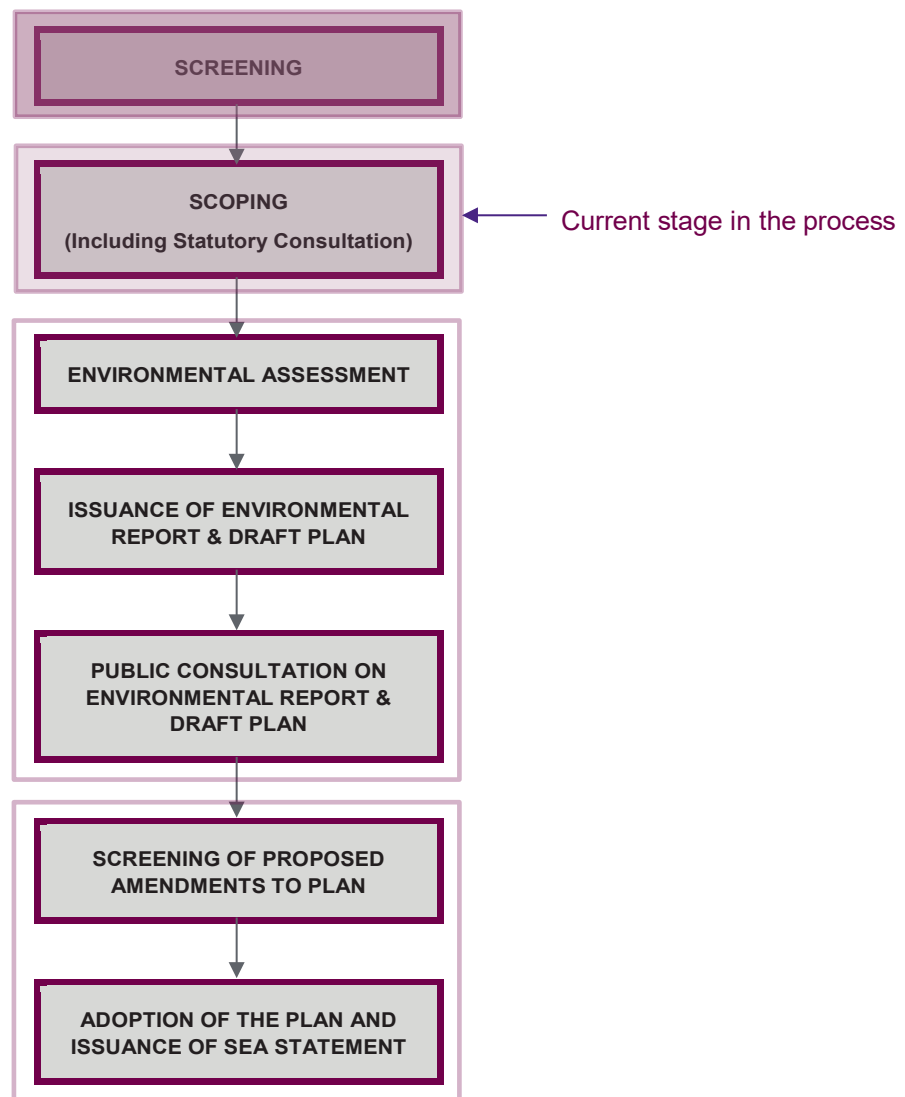


Figure 1-1 Overview of the SEA Process

1.3 Screening for SEA

On behalf of Dumfries & Galloway Council, RPS carried out an SEA Screening of the proposed Dumfries & Galloway SMP in September 2019, which demonstrated how:

- Dumfries & Galloway Council is the Responsible Authority for the development and implementation of the Dumfries & Galloway Shoreline Management Plan.
- The Responsible Authority determined that the Dumfries & Galloway Shoreline Management Plan requires Strategic Environmental Assessment (SEA), as there is likelihood for significant environmental effects from implementing the Dumfries & Galloway SMP. The Dumfries & Galloway Shoreline Management Plan falls within Section 5(3) of the Environmental Assessment (Scotland) Act 2005.
- The Responsible Authority identified that the Dumfries & Galloway Shoreline Management Plan sets the framework for future shoreline works along the Dumfries & Galloway coast, that

there is the potential for significant impacts given the scale and duration of effects and that sensitive receptors along the Dumfries & Galloway coast include SAC, SPA, SSSIs and LNRs.

Responses to the SEA Screening from the Scottish Environment Protection Agency (SEPA), Scottish Government, Scottish Natural Heritage and Historic Environment Scotland can be found in **Appendix A** of this report. The SEA Screening Determination was advertised in local papers and on the Dumfries & Galloway Council website, and provided to the environmental consultees in November 2019.

1.4 Scoping for SEA

This SEA Scoping Report is presented as part of the scoping phase of the SEA for the Dumfries & Galloway SMP. The purpose of this Scoping Report is to provide sufficient information on the strategy to enable the consultees to form an opinion on the appropriateness of the scope, format, level of detail, methodology for assessment and the consultation period proposed for the Environmental Report.

The Scoping Report can inform stakeholders about the key environmental issues and the key elements of the Plan/Programme (P/P). In addition, the Scoping Report can be used as a tool to generate comments from stakeholders on the scope and approach of the SEA.

1.5 SEA Guidance

Key guidance documents that are to be used in the SEA for the Dumfries & Galloway SMP are listed in **Appendix B** of this SEA Scoping document.

1.6 Statutory Consultees for SEA

Under Article 6 of the SEA Directive, the competent authority preparing the plan or programme (in this case Dumfries & Galloway Council) is required to consult with specific “environmental authorities” (statutory consultees) on the scope and level of detail of the information to be included in the Environmental Report.

The statutory consultees established within Scottish SEA legislation are:

- Scottish Environment Protection Agency (SEPA)
- Scottish Natural Heritage (SNH)
- Historic Environment Scotland (HES)

1.7 Appropriate Assessment

The Habitats Directive (Council Directive 92/43/EEC) on the conservation of natural habitats and of wild fauna and flora obliges member states to designate, protect and conserve habitats and species of importance in a European Union context. Article 6(3) of the Habitats Directive requires that “*Any plan or project not directly connected with or necessary to the conservation of a site but likely to have a significant effect thereon, either individually or in combination with other plans or projects, shall be subject to appropriate assessment of its implications for the site in view of the site’s conservation objectives*”. This Directive was initially transposed into Scottish Law through the Habitats Regulations 1994 as amended in 2004, 2007, 2008, 2011 and 2012. Any proposed plan or project that has the potential to result in a significant effect on a designated European site will require an Appropriate Assessment (AA). Case law has determined that the likelihood need not be great, merely possible, and that the precautionary principle must apply as set out in European Commission Guidance and as required by CJEU case law (i.e. C 127/02 ‘Waddenzee’).

Appropriate Assessment for the Dumfries & Galloway SMP is being carried out in parallel with the SEA process. The findings of the AA will be used to guide the development of the alternatives to be considered as part of the SEA. The first stage of the AA process is Screening, which is to determine

whether implementation of the Strategy has the potential to have a significant effect on designated European sites.

2 DUMFRIES & GALLOWAY SHORELINE MANAGEMENT PLAN DEVELOPMENT STRATEGY

2.1 Background

A shoreline management plan (SMP) involves a large-scale assessment of the risks associated with coastal processes and identifies measures to manage these risks to people and the developed, historic and natural environment. Dumfries & Galloway Council proposes to develop a SMP that aims to provide guidance to operating authorities and regulatory bodies as to future sustainable coastal flood and erosion risk management; essentially providing an agreed high level approach, intent and framework for management. In addition, the Dumfries & Galloway SMP aims to provide guidance to planners and to individuals and organisations with interests in the coast, setting out an understanding of coastal behaviour, the pressures, constraints and opportunities for the sustainable use of the coastal zone, to guide others in their own planning.

The Dumfries and Galloway SMP is being developed in a partnership between Dumfries & Galloway Council and other organisations with key roles in shoreline management, including:

- Scottish Environment Protection Agency (SEPA);
- Scottish Natural Heritage (SNH);
- Marine Scotland; and
- Solway Firth Partnership

2.2 Location and Extent

The boundaries of the Dumfries & Galloway SMP are defined by the coastal extent of the Dumfries & Galloway Council operational area. The Dumfries & Galloway SMP area extends from just north of Cairnryan on the shore of Loch Ryan to the mouth of the River Sark in Gretna. The Dumfries & Galloway SMP will develop policies for management of the shoreline within this extent, which is illustrated in **Figure 2-1**. It is acknowledged, however, that the actions from the Dumfries & Galloway SMP may have implications beyond the Dumfries & Galloway SMP extent.

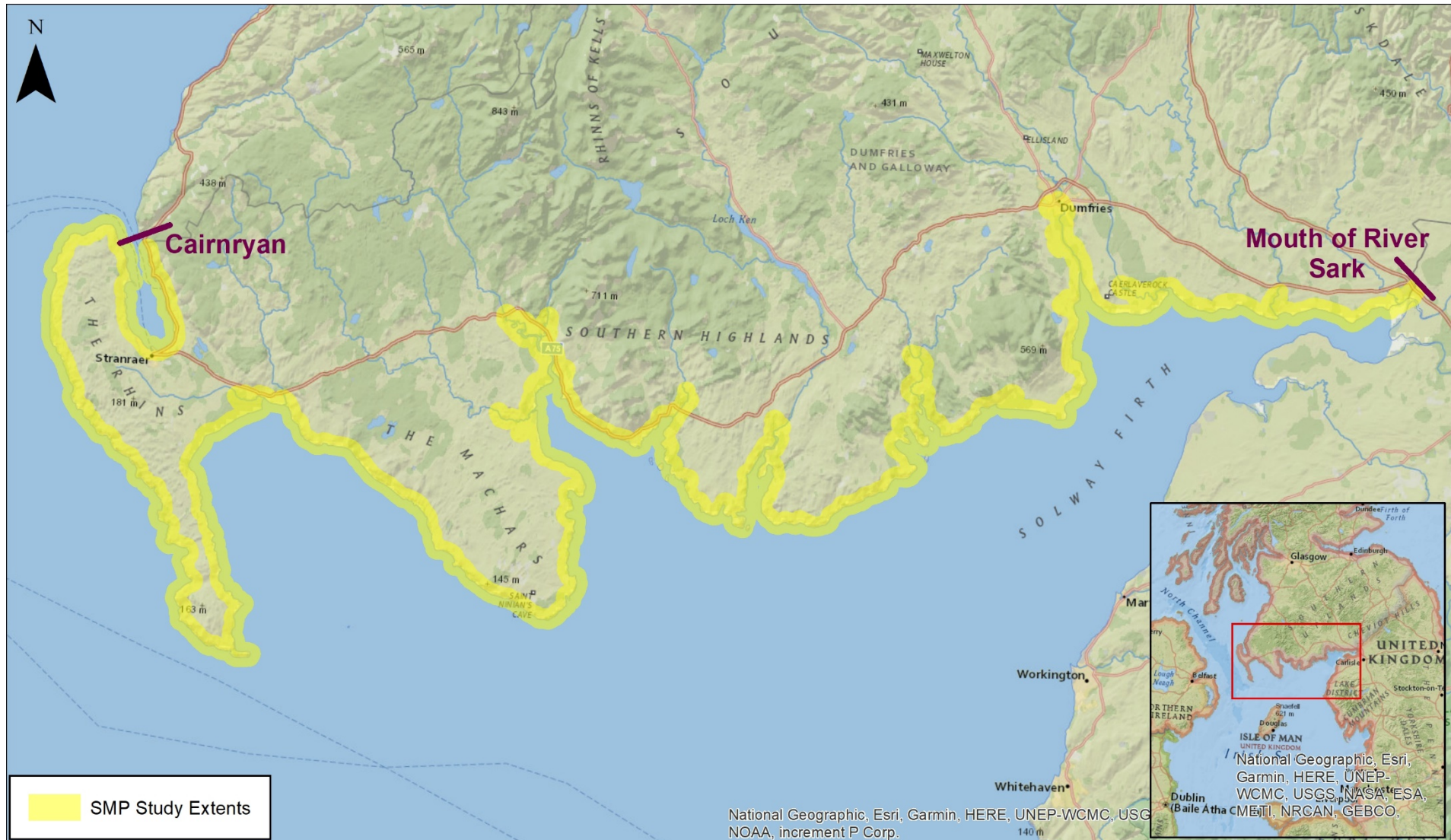


Figure 2-1 Proposed Dumfries & Galloway SMP - extent

2.3 Aims and Objectives

The objectives of the Dumfries & Galloway SMP are as follows:

- To set out the risks from flooding and erosion to people and the developed, historic and natural environment within the SMP area;
- To identify opportunities to maintain and improve the environment by managing the risks from coastal flooding and erosion;
- To identify the preferred policies for managing risks from coastal flooding and erosion over the next century;
- To identify the consequences of putting the preferred policies into practice;
- To set out procedures for monitoring how effective these policies are;
- To inform others so that future land use, planning and development of the shoreline takes account of the risks and the preferred policies;
- To discourage inappropriate development in areas where coastal flood and erosion risks are high; and
- To ensure compliance with international and national nature conservation legislation and strive to achieve the biodiversity objectives.

The policies employed to meet the objectives of the Dumfries & Galloway SMP will be dependent on the issues identified at various locations along the Dumfries & Galloway coastline, such as risk of coastal flooding or erosion to people, property and infrastructure. The four generic policy options available to the Dumfries & Galloway SMP are summarised in **Table 2.1**.

Table 2-1 Summary of Generic Dumfries & Galloway SMP Policies

Policy	Description
Advance the Line	The shoreline is proposed to be advanced to reclaim land for development. This policy will require active management and construction of new defences seaward of the original defence line.
Hold the Line	The shoreline is proposed to be held as the current day through improving and/or maintaining the standard of existing defence line. This policy is likely to require active management and construction.
Managed Realignment	Identifying a new line of defence further landward than the existing shoreline and actively arranging for the shoreline to retreat to the new defence line.
No Active Intervention	No action is taken and the natural coastal processes of erosion and accretion are allowed to continue with no intervention.

It is not an objective of the Dumfries & Galloway SMP to develop detailed designs for individual shoreline management measures; however potential types of actions to meet the proposed objectives will be identified and assessed.

2.4 Overview of Policy Context

As part of the SEA process the context of the Dumfries & Galloway SMP must be established with regard to other plans and programmes that have been adopted at International, European, National and

Regional levels. In particular, the interaction of the environmental protection objectives and standards included within these plans and programmes requires consideration.

Table 2-2 identifies the main significant environmental plans and programmes, adopted at International, European Community or Member State level, which would be expected to influence, or be influenced by, the Dumfries & Galloway SMP. While it is recognised that there are many Plans, Programmes and legislation that could relate to the Dumfries & Galloway SMP, it is considered appropriate to only deal with significant texts in order to keep the assessment at a strategic level. More information on these Plans, Programmes and legislation is given in **Appendix C**, along with their potential interaction with the Dumfries & Galloway SMP.

Table 2-2 Summary of Key Plans and Programmes Relevant to the Dumfries & Galloway SMP

Level	Plan / Programme
International or European Level	<ul style="list-style-type: none"> • Birds Directive [2009/147/EC] • Habitats Directive [92/43/EEC] • EU Biodiversity Strategy to 2020 [COM(2011)244] • Bonn Convention [L210, 19/07/1982 (1983)] • Convention on Wetlands of International importance especially as Waterfowl habitat (1971) [UN Treaty Series No. 14583] • World Heritage Convention [WHC-2005/WS/02] • EU Thematic Strategy for Soil Protection [COM(2012) 46] • European Landscape Convention [ETS No. 176] • EU Marine Strategy Framework Directive [2008/56/EC] • EU Floods Directive [2007/60/EC] • Water Framework Directive [2000/60/EC] • Environmental Quality Standards Directive [2008/105/EC] • EIA Directive [85/337/EEC] [2014/52/EU] • SEA Directive [2001/42/EC] • Environmental Liability Directive [2004/35/EC]
National Level	<ul style="list-style-type: none"> • The Nature Conservation Act 2004 • The 2020 Challenge • Scotland's Biodiversity: It's in your hands 2004 • The Wildlife and Natural Environment (Scotland) Act 2011 • The Nature Conservation (Scotland) Act 2004 • The Habitats Regulations 1994 (and amendments) • Flood Risk Management (Scotland) Act 2009 • Natural Flood Management Handbook 2015 • National Marine Plan 2015 • A Guide to Managing Coastal Erosion in Beach/Dune Systems 2000 • Water Environment (Controlled Activities) (Scotland) Regulations 2011 (as amended) • Water Environment and Water Services (Scotland) Act 2003 • The Marine (Scotland) Act 2010 • The River Basin Management Plan for Scotland River Basin, 2015-2027 • Scottish Planning Policy 2014 • Low Carbon Scotland: Meeting our Emissions Reductions Targets 2013-2027 • Scotland's Climate Change Adaptation Framework 2009 • Climate Change (Scotland) Act 2009

Level	Plan / Programme
	<ul style="list-style-type: none"> • The Climate Change (Annual Targets) (Scotland) Order 2010 • The Scottish Soil Framework 2009 • The Land Reform (Scotland) Bill 2015 • Land Use Strategy 2016-2021 • The Planning etc. (Scotland) Act 2006 • National Planning Framework 2015 • Planning Advice Notes and Circulars • Equally Well 2008 • Good Places, Better Health: A New Approach to Environment and Health in Scotland, 2008 • Our Place in Time: The historic environment strategy for Scotland 2014 • Historic Environment Scotland, Policy Statement 2016 • Tourism Scotland 2020
Regional or Sub-Regional Level	<ul style="list-style-type: none"> • Ayrshire Shoreline Management Plan 2018 • Dumfries and Galloway Local Development Plan 2 (LDP2) 2019 • Dumfries and Galloway Shoreline Management Plan Study: Stage 1 2005 • Cumbria Coastal Strategy (draft) 2020 • North West Shoreline Management Plan (SMP2) 2010 • Flood Risk Management Strategy for Solway (SEPA 2015) • Solway Local Flood Risk Management Plan 2016 • Dumfries and Galloway Local Biodiversity Action Plan 2009 • Dumfries Conservation Area Character Appraisal and Management Plan (2018) • Stranraer Conservation Area Character Appraisal and Management Plan (2018) • Whithorn Conservation Area Character Appraisal and Management Plan (2018) • Kirkcudbright Conservation Area Character Appraisal (2014) • Gatehouse of Fleet Conservation Area Character Appraisal (2014) • Annan Conservation Area Character Appraisal (2014) • Crichton Conservation Area Character Appraisal (2016) • Caring for the Built Environment – Conservation Area Guidance, Dumfries & Galloway Council (2001) • Dumfries and Galloway Regional Tourism Strategy 2016-2020 • Dumfries and Galloway Carbon Management Plan 2 (CMP2) and Climate Change Action Plan 2012

Proposed Scoping Questions:

- Is there any Plan or Programme missing from the key plans and programmes listed in **Table 2-2** or Appendix C, relevant to the Dumfries & Galloway SMP, that you think should be included, and why?

3 SCOPING FOR THE DUMFRIES & GALLOWAY SHORELINE MANAGEMENT PLAN

The following section outlines the proposed scope of the SEA for the Dumfries & Galloway SMP, including the geographic and temporal scope of the assessment, the likely significant impacts arising from implementation of the Dumfries & Galloway SMP and the elements of the Dumfries & Galloway SMP that will be included in the assessment.

3.1 Scope of the Dumfries & Galloway SMP

As part of the SEA scoping process, it is necessary to make decisions regarding which parts of the Dumfries & Galloway SMP should be assessed, and to what level of detail. The purpose of the SEA is to provide a meaningful assessment of those parts of the Dumfries & Galloway SMP that may lead to significant environmental effects. This will contribute to more transparent decision making whilst ensuring that the objective of integrating environmental considerations into the plan making process is realised.

The objectives of the Dumfries & Galloway SMP are given in **Section 2.3** of this report. **Table 3.1** below sets out the proposed elements of the Dumfries & Galloway SMP and identifies those to be assessed as part of the SEA and why. This information is provided to generate discussion during the consultation process and is subject to change based on the comments received.

Table 3-1 Proposed Elements of the Dumfries & Galloway SMP to be Assessed

	Draft Plan Section	Will this be <u>assessed</u> in the SEA?
1	Introduction to the Dumfries & Galloway SMP, its definition, purpose, structure, principles and objectives.	No – This provides factual information about the background to the Dumfries & Galloway SMP. However, the Plan's Strategic Objectives will be assessed within the environmental report to test its compatibility and completeness against the SEA Objectives.
2	Strategic Environmental Assessment , why it was undertaken and what was done in the SEA process.	No – This is a statement about the environmental assessments undertaken for the Dumfries & Galloway SMP. This should, however, include guarantees that the Plan will comply with recommendations from the environmental assessments.
3	Basis for Development of the Dumfries & Galloway SMP	No – This provides factual information about the baseline of the Dumfries & Galloway shoreline. This baseline information will, however, inform the environmental baseline in the SEA.
4	Options for Shoreline Management following assessment	No – This is general information on the generic policy options available for shoreline management.
5	Policy Statements	Yes – These are policies proposed for each policy unit within a coastal sub-cell and for the whole Dumfries & Galloway SMP area. These policies are to meet the Dumfries & Galloway

	Draft Plan Section	Will this be <u>assessed</u> in the SEA?
		SMP objectives. Policies should be selected following environmental assessment in the SEA and HRA.
6	Action Plan relating to the management activities proposed for the Dumfries & Galloway shoreline.	Yes – This is the proposed action plan of the policies proposed. This action planning should be influenced by the environmental assessment in the SEA and HRA.
7	Mitigation and Monitoring.	No – These are mitigation and monitoring proposals recommended by the SEA and HRA, which should be incorporated into the Dumfries & Galloway SMP and implemented in future through the Dumfries & Galloway SMP.
8	Next Steps. Details how the Dumfries & Galloway SMP will be implemented in relation to spatial planning, and proposes further action to facilitate medium and long term planning.	No – This is a statement about future implementation and management of the Dumfries & Galloway SMP.

3.2 Geographic Scope

The Dumfries & Galloway SMP covers the Dumfries & Galloway shoreline from just north of Cairnryan on the shore of Loch Ryan to the mouth of River Sark in Gretna. As part of the technical development of the Dumfries & Galloway SMP, a review of the coastal processes of the shoreline was undertaken to confirm the sediment movement patterns and evaluate if the coastal sub-cells from the previous SMP were still appropriate. Eleven coastal cells were originally identified by H R Wallingford in 1997 for the Scottish coastline in a study for Scottish Natural Heritage. These coastal cells were identified on the basis that sediment movement between cells was relatively limited i.e. the sediment dynamics of each cell was relatively independent of that of adjoining cells. The coastal process review included within the 2005 Dumfries & Galloway SMP further sub-divided the coastal cell for the Dumfries & Galloway coastline by identifying points across which there was limited sediment movement potential even during storm conditions. These were referred to as Coastal Process Unit (CPU) 1 to 6. The boundary locations of the 6 CPUs identified for the Dumfries & Galloway coastline are shown in **Figure 3-1** and defined in **Table 3-2**. The definition of these coastal sub-cells is critical in terms of the development of a sustainable Plan for the management of the Dumfries & Galloway coast, as these sub-cells define the areas within which various measures can be applied without affecting adjoining sections of the coast. Thus the sub-cells define the geographic boundaries for future studies associated with the detailed design of a wide range of coastal management measures with potential to impact on coastal sediment dynamics.

Table 3-2 Coastal sub-cell boundary locations

Sub-cell	Boundary locations
CPU 1	A74(T) – Borron Point
CPU 2	Borron Point – Torrs Point
CPU 3	Torrs Point – Isle of Whithorn
CPU 4	Isle of Whithorn – Mull of Galloway
CPU 5	Mull of Galloway – Milleur Point
CPU 6	Milleur Point – Galloway Burns

None of the sub-cells identified as part of the analysis for the 2005 Dumfries & Galloway SMP include any part of the shoreline of the Cumbria or Ayrshire Council areas. Sub-cell CPU 1 begins at the mouth of the River Sark within the Dumfries & Galloway Council area. Sub-cell CPU 6 extends to just north of Cairnryan on the shore of Loch Ryan within the boundaries of the Dumfries & Galloway Council area although in reality coastal processes are likely to extend into the South Ayrshire council area.

Within each of these sub-cells there were several coastal policy units defined. These policy units will be reviewed as part of the development of the new SMP.

The SEA study area cannot currently be defined as a fixed extent and may extend beyond the limits of the Dumfries & Galloway council area where necessary, dependent on the potential for impacts on the wider environment. Given that the coastal process review has indicated that any modification to the shoreline should only have impacts within the coastal sub-cells it is anticipated that the majority of effects and assessment will remain within the Dumfries & Galloway council area. However the potential for impacts on the wider environment, such as to migratory species still remains, and will be assessed on a case by case basis. Thus the assessment boundary may extend many kilometres beyond the Dumfries & Galloway coastline. The study extent for the AA of the Dumfries & Galloway SMP is likely to also extend beyond the limits of the Dumfries & Galloway SMP in order that the potential for impacts on European sites can be fully assessed under the Habitats Directive. A summary of the findings of the AA will be incorporated into the SEA Environmental Report.



Figure 3-1 Coastal sub-cell boundaries for the Dumfries & Galloway coastline

3.3 Temporal Scope

The Dumfries & Galloway SMP is intended to cover the period from [2021 – 2121], split into 3 epochs of short term 0 - 20 years, medium term 20 – 50 years and long term 50 – 100 years. The Dumfries & Galloway SMP will be reviewed periodically for required updates and to monitor progress and impacts. In line with the SEA Directive; short, medium and long-term impacts (including reference to secondary, cumulative, synergistic, permanent and temporary, positive or negative effects) will be considered during the assessments of the Dumfries & Galloway SMP. Within the environmental assessment the short, medium and long term have a different definition than the Dumfries & Galloway SMP timescales. The short term defines the construction / implementation of a shoreline management action, the medium term will be the immediate operational years (e.g. 0 – 5 years) following the construction / implementation of a shoreline management action, while the long term will be the long term operation of a shoreline management action (e.g. 5 years onwards). The SEA takes this different temporal scope to demonstrate the potential impact of an action from its construction / implementation, through operation to the medium and long term of the SMP.

3.4 Scoping of Strategic Environmental Assessment Topics

In accordance with the Environmental Assessment (Scotland) Act 2005, consideration will be given to the type of environmental effects, both positive and negative, that could be expected to arise from implementation of the Dumfries & Galloway SMP. **Table 3-3** has been created to generate discussion during the scoping process and consultations. It is anticipated that this table will evolve as the Dumfries & Galloway SMP and shoreline management options develop, and information on the receiving environment becomes fully apparent. Please note that given the limited potential for the Dumfries & Galloway SMP to impact on, or be impacted by the Air topic, it is proposed to scope it out of any further assessment. **Table 3-4** demonstrates the anticipated potential inter-relationships between the SEA Topics.

Table 3-3 Scoping of SEA Topics and Key Environmental Issues

SEA Topics	Scoped In / Out	Environmental Awareness Issues
Biodiversity, Flora & Fauna	In	<ul style="list-style-type: none"> • Effects on protected areas: International (WHS, Ramsar), European (SACs, SPAs), National (NNRs, SSSIs), Local (LNR, Conservation Areas) • Effects on flora and fauna, (including migratory bird species etc.) • Effects on salmonids, other protected fish and shellfish species. • Effect on annex species in non-annex habitats • Effects on sensitive habitats (e.g. salt marshes) • Effects on wetlands • Effects and opportunities on refuge for fauna • Potential introduction of alien species and invasive species • Potential for habitat loss and fragmentation • Potential for habitat creation and enhancement • Potential for interaction with Habitats Directive, i.e. Article 6
Population & Human Health	In	<ul style="list-style-type: none"> • Recreational use of the area • Possible effects on tourism • Effects on connectivity of communities, both physical links and communications • Amenity value of natural environment e.g. coastal walks • Effects on disadvantaged communities

SEA Topics	Scoped In / Out	Environmental Awareness Issues
		<ul style="list-style-type: none"> • Health value of natural environment • Protection of people from flooding, erosion and wave overtopping risks
Geology, Soils and Landuse	In	<ul style="list-style-type: none"> • Land vulnerable to erosion • Land vulnerable to accretion • Erosion and soil function • Effects on coastal morphology • Effects on access to lands
Water	In	<ul style="list-style-type: none"> • Pressures and impacts on ecological status of water bodies • Morphological impacts on water bodies from engineering and other works • Water quality • Flood risk • Impacts on coastal processes
Air	Out	<ul style="list-style-type: none"> • Local impacts of construction phase plant emissions. • <i>Limited potential for significant impacts at the strategic level. Recommended to remove from future assessment.</i>
Climatic Factors	In	<ul style="list-style-type: none"> • Climate change mitigation and adaptation, including effects from severe weather events • Increased flood risk, magnitude and frequency • Increased risk of storm events and wave overtopping • Effect of carbon sinks • Effects on GHG emissions
Material Assets & Infrastructure	In	<ul style="list-style-type: none"> • Protection of assets from flooding and erosion. • Residential and commercial properties • Effects on agriculture and crops • Effects on energy, transport and communications infrastructure • Effects on areas with development potential
Cultural, Architectural & Archaeological Heritage	In	<ul style="list-style-type: none"> • Nationally designated sites and monuments. • Effects on water-based archaeological features • Effects on cultural heritage features in the vicinity of the shoreline • Effects on key national sites • Effects on historic and cultural landscapes • Effects on industrial and engineering archaeology • Potential for disturbance of previously undiscovered archaeological remains • Effects on areas of architectural significance • Effects on listed buildings • Effects on the setting of heritage features and areas
Landscape & Visual Amenity	In	<ul style="list-style-type: none"> • Effects on areas of designated landscape quality and scenic views • Effect on parks, gardens and amenity areas • Effects on the general landscape • Effects on historic landscapes • Effects on seascapes

Table 3-4 Potential Inter-Relationships between SEA Topics

Environmental Topic	Air	Biodiversity, Flora & Fauna	Climatic Factors	Cultural Heritage	Geology, Soils & Land use	Landscape & Visual Amenity	Material Assets & Infrastructure	Population & Human Health	Water
Air									
Biodiversity, Flora & Fauna	Y								
Climatic Factors	Y	Y							
Cultural Heritage	N	Y	Y						
Geology, Soils & Land Use	Y	Y	Y	Y					
Landscape & Visual Amenity	Y	Y	N	Y	Y				
Material Assets & Infrastructure	Y	Y	Y	Y	Y	Y			
Population & Human Health	Y	Y	Y	Y	Y	Y	Y		
Water	N	Y	Y	Y	Y	Y	Y	Y	

Y = interrelationship anticipated

N = no interrelationship anticipated

*Including Architectural and Archaeological Heritage

Proposed Scoping Questions:

- Do you agree with the geographical and temporal scope of the assessment?
- Do you agree with the scoping of the environmental assessment topics?
- Have we identified all the key environmental issues relevant to the Dumfries & Galloway SMP?

4 BASELINE AND ENVIRONMENTAL PROBLEMS

In line with the SEA Directive, an environmental baseline will be compiled for the SEA Environmental Report of the Dumfries & Galloway SMP. This will include: a description of the state of the environment at present; a discussion of the key problems/issues currently being faced in the area; and a description of the expected evolution of the environment should the Dumfries & Galloway SMP not be implemented, i.e. in the absence of the Plan. As the Dumfries & Galloway SMP covers a large length of coastline, it is proposed that information used in the assessment will need to be consistent across the geographical extent of the study. It is therefore proposed that the baseline data to be used in the environmental assessment is restricted to data available at a high / strategic level to allow a reliable and replicable assessment across the study area.

4.1 Overview of Current State of the Environment

The SEA Environmental Report will contain a full description of the environmental baseline data within the study area. The key baseline information intended to be used is detailed in **Table 4-1**. It is proposed that much of the baseline information will be presented in the form of maps, diagrams and graphs, with supporting text in the Environmental Report which focuses on data directly relevant to the Dumfries & Galloway SMP. SEPA have prepared advice and guidance in relation to the SEA topics of air, soil, water, climatic factors, material assets and human health, and these will be consulted in the preparation of the Environmental Report.

Table 4-1 Summary of Potential Environmental Baseline Data and Sources

Environmental Baseline Data	Data Sources
Biodiversity, Flora and Fauna	
Location and Condition of Designated Sites and Protected Species	SEPA, SNH, UNESCO. Marine Scotland & Local Authority data: <ul style="list-style-type: none"> • SACs • SPAs • MCAs • SSSIs • NNRs • LNRs • Ramsar Sites • UNESCO WHS • MPAs • SWT Reserves • Local Authority Designations • Cetaceans, Seals, Sharks and Rays • Salmon and Sea Trout • Water Birds • Fish Stocks and Shellfish Beds
Population & Human Health	
Numbers of Population and Occupancy	Scotland Census data: <ul style="list-style-type: none"> • Area Profiles
Geology, Soils & Landuse	
Soil and Geological Features	BGS, Marine Scotland, SNH & SEPA data: <ul style="list-style-type: none"> • Geology, including seabed

Environmental Baseline Data	Data Sources
	<ul style="list-style-type: none"> • Seabed Habitats • Active Quarries & Historic Mines • Geological Heritage Sites • Landslide locations
Landuse	Local Authority, SNH, Woodland Trust, Forestry Commission, SEPA, BGS, MoD data: <ul style="list-style-type: none"> • CORINE Landcover • Shoreline Reinforcements • Erosion Risk • Ancient and Established Woodland • Planning Zones • Military Land • Historic Landfills
Water	
Locations, Status and Risk of Water Bodies	SEPA & WFD data: <ul style="list-style-type: none"> • WFD Management Units • Ecological status and risk of surface, coastal and transitional water bodies • Protected waters
Flood Extents	SEPA: <ul style="list-style-type: none"> • Flood extents • Flood risk zones
Climate	
General climatic summary & climatic change information	<ul style="list-style-type: none"> • Met Office regional information • Climatic trends
Material Assets & Infrastructure	
Number and Type of Infrastructure	Transport Scotland data: <ul style="list-style-type: none"> • Roads Transport Scotland data: <ul style="list-style-type: none"> • Rail SEPA data: <ul style="list-style-type: none"> • IED / PPC Sites • Water Treatment and Waste Water Treatment Plants • Waste Management Sites BT, SSE, SGN, SP Energy Networks data: <ul style="list-style-type: none"> • Telecommunication Exchanges • Power Stations and Substations • Gas Mains
Cultural, Archaeological & Architectural Heritage	
Location and Status of Protected Sites	Historic Environment Scotland, Marine Scotland & Local Authority data: <ul style="list-style-type: none"> • Scheduled Monuments • Listed Buildings

Environmental Baseline Data	Data Sources
	<ul style="list-style-type: none"> • UNESCO World Heritage Sites • Battlefields • Properties in Care • Historic MPAs • Gardens and Designed Landscapes • Wrecks and Losses • Coastal built heritage • Protection of Military Remains
Landscape & Visual Amenity	
Landscape Character Areas and Sensitive Landscapes	SNH, Local Authority, Historic Environment Scotland data: <ul style="list-style-type: none"> • Landscape Conservation Areas • Landscape Character Areas • Sensitive Landscapes • Historic Land use Assessment • National Scenic Areas • Country Parks

Proposed Scoping Questions –

- Are we proposing the most appropriate data and scale of data to be used?
- Can you propose any other data to be used in the SEA and why would it be beneficial?

5 FRAMEWORK FOR ASSESSING ENVIRONMENTAL EFFECTS

5.1 SEA Approach

The proposed measures to meet the objectives for each of the sub-cells will be assessed in terms of their potential positive and negative impacts and the significance of these impacts on the environment against the SEA objectives. The purpose of this is to predict and evaluate, as far as possible, the environmental effects of the Dumfries & Galloway SMP, highlighting any significant environmental problems and / or benefits that are likely to arise from the implementation of the SMP. Where possible this assessment will be quantitative, with a graphical output to aid public appreciation and understanding of the implications of each proposed measure in the Dumfries & Galloway SMP. A long list of examples of potential actions for shoreline management available to the Dumfries & Galloway SMP are provided in **Table 5-1**. These will be assessed in the development of the Dumfries & Galloway SMP and SEA, and preferred scenarios of grouped options for coastal sub-cells will be proposed in the Draft Dumfries & Galloway SMP.

Table 5-1 Draft Long List of Potential Actions to Manage Shoreline

Action	Engineering Type	Description
Seawalls	Hard	These are typically of concrete, masonry or gabion construction. They are typically sloped but can also be near-vertical. The face can be smoothed, stepped or curved. Seawalls protect against both erosion and flooding.
Revetments		A sloping structure with a facing of typically stone, concrete units or cobble. Revetments protect against erosion; however do not normally protect against flooding.
Embankments		A sloping sea defence structure of typically earthen/sand construction. These structures protect the coast from flooding; however they do not normally provide erosion protection.
Groynes	Mixed	These are normally straight structures perpendicular to the shoreline. They block part of the littoral drift and trap sand on their upstream side.
Detached Breakwaters		These are straight shore-parallel structures which partly provide direct coastal protection as the shoreline in the lee of the structure is sheltered. Littoral transport in the lee of the structure is also reduced, trapping sand.
Headlands		These are smooth structures which extend out on the shoreface from the coastline. They block part of the littoral transport and have similar effects on the shoreline as groynes and detached breakwaters; however some of the disadvantages of groynes and detached breakwaters are minimised such as leeside erosion.
Perched beaches		These are natural or nourished beaches at locations with a steep shoreface where a submerged structure supports the lower part of the beach.

Action	Engineering Type	Description
Cove		This is a semi-protected sandy bay. Two curved breakwaters which connect to the shore are used to form a cove.
Maintenance		In areas where coastal defences are currently in place, a maintenance regime can ensure that these structures continue to provide the required standard of protection.
Dune Stabilisation	Soft	Dunes are a natural coastal feature formed by sand which blows inland from the beach and is deposited behind the coastline. Dunes act as a flexible buffer zone, moving backwards with an eroding coastline as long as there is space for this to occur. This process protects the hinterland from erosion and flooding. The ability of dunes to recover after a storm event can be affected if the dune vegetation is damaged. Planting marram grass and setting up spruce fascines or similar to trap sand can stabilise the dune, encouraging accretion and build up. This needs to be carried out in a sensitive manner, as over-use of this technique may completely stabilise the dune, interrupting the natural cycle of dune initiation and sediment redistribution.
Managed Realignment		In areas where significant coastal defence works have been undertaken, relaxing the requirements for fixing the coastline position to allow Managed Realignment may be feasible. If housing or infrastructure facilities are very close to the coastline, this option will only be feasible if these can be abandoned or moved landward. Where Managed Realignment is implemented, the coast is given back to natural processes, thereby enhancing the environmental and recreational quality of the area. The rate of realignment can be managed by combining this measure with nourishment if required. If implemented successfully, Managed Realignment can be effective against both erosion and flooding.
Nourishment		This is a very natural way of combating erosion, as sediment is added to artificially replace a deficit in the sediment budget. This measure does not remove the cause of erosion, so erosion will continue to occur along the nourished section. Continual maintenance is required, as the nourished sand is gradually sacrificed. This measure generally does not prevent flooding, except in the case of dune nourishment which can offer additional flood protection.
Beach Drain		In this system a drain is installed, running parallel to the beach in the wave up-rush zone. The drain lowers the groundwater table in this localised area. This decreases the strength of the down-rush of the waves, and increases the strength of the beach sand, thereby reducing erosion. This measure does not protect against flooding.

The Dumfries & Galloway SMP will be assessed via a baseline led assessment. This method will involve an assessment of the policies and potential actions proposed as part of the Dumfries & Galloway SMP for the sustainable management of the Dumfries & Galloway shoreline. The assessment will use the potential types of actions that may be implemented to meet the shoreline management policy and assess them against the following SEA topics:

- Biodiversity, Flora & Fauna (BFF)
- Population & Human Health (PHH)
- Geology, Soils and Landuse (S)
- Water (W)
- Climatic Factors (C)
- Material Assets & Infrastructure (MA)
- Cultural, Architectural & Archaeological Heritage (H)
- Landscape & Visual Amenity (L)

Each alternative available in the Dumfries & Galloway SMP will be assessed in the short, medium and long term for likely effects, the significance of the effects, and whether they are positive or negative effects. Other impacts that will be assessed for significance are; secondary effects, cumulative effects, synergistic effects, temporary and permanent effects, and the inter-relationship of effects. The scenario of “The Evolution of the Environment without the Dumfries & Galloway SMP” will also be assessed in the same format. This will be considered the ‘No Active Intervention’ Scenario.

The proposed scenarios for consideration will be assessed in the SEA against the Strategic Environmental Objectives (SEOs) to examine the potential for likely significant environmental impacts associated with the Dumfries & Galloway SMP. This assessment will be relatively strategic, with the aim of reporting likely impacts at the coastal cell and sub-cell level to reflect the scale at which the options are being planned. The draft SEA Objectives, Sub-Objectives, Indicators and Targets to be used are given in **Table 5-2**.

It is proposed that the environmental assessment of options / scenarios will be undertaken in conjunction with the Dumfries & Galloway SMP team technical assessment of options / scenarios, to give the best chance of environmental considerations influencing the Dumfries & Galloway SMP decision making. This early guidance may help to avoid unsustainable options being considered.

Table 5-2 Draft SEA Objectives

Criteria	Objective	Sub-Objective	Indicators	Minimum Requirement	Aspirational Target
Biodiversity, Flora & Fauna	1 Avoid damage to, and where possible enhance, the biodiversity, flora and fauna in the vicinity of the shoreline.	A Avoid detrimental effects to, and where possible enhance, International and European designations for protected species and their key habitats.	Areas of SAC, SPA, WHS and Ramsar designation. Numbers of protected species.	No loss of area of or negative impacts on International and European sites and protected species.	Potential enhancement of and increased protection for International and European sites and protected species.
		B Avoid damage to or loss of, and where possible enhance, national and local nature conservation sites and protected species, or other know species of conservation concern.	Areas of SSSI, LNRs, MCAs and local conservation designations. Numbers of protected species.	No loss of area of or negative impacts on national and local conservation sites and species.	Potential enhancement of and increased protection for national and local conservation sites and species.
Population & Human Health	2 Protect the public from risk of flooding and coastal erosion.	A Protect the public from risk of flooding and coastal erosion.	Population at risk from flooding and erosion.	No increase in population at risk from flooding and erosion.	No population at risk from flooding and erosion.
Geology, Soils and Landuse	3 Maintain or improve areas of existing functional soil and land resource.	A Maintain or improve areas of existing functional soil and land resource.	Areas of functional soil and land resource at risk from flooding and erosion.	Minimise the loss of functional soil and land resource, where not in conflict with natural processes.	Improvement of functional soil and land resource, where not in conflict with natural processes.
Water	4 Protect and enhance the state of the water environment.	A Protect and enhance the state of the water environment.	Coastal morphology and waterbody status.	No deterioration of status of coastal and transitional waterbodies.	Contribute to the improvement of status of coastal and transitional waterbodies.

Criteria	Objective	Sub-Objective	Indicators	Minimum Requirement	Aspirational Target
Climatic Factors	5 Adaptation to potential climatic change.	A Adaptation of shoreline management to potential climatic change.	Interaction with potential climate change influenced flood extents / wave overtopping and severe weather events.	SMP actions to demonstrate adaptability to climatic change.	SMP actions to be planned for climatic change.
Material Assets & Infrastructure	6 Protect material assets and infrastructure from risk of flooding and coastal erosion.	A Protect material assets and infrastructure from risk of coastal flooding and erosion.	Material assets and infrastructure at risk from flooding and erosion.	No increase in material assets and infrastructure at risk from flooding and erosion.	No material assets and infrastructure at risk from flooding and erosion.
Cultural, Architectural & Archaeological Heritage	7 Protect or enhance historic environment features and their settings.	A Avoid loss of, or damage to, heritage features.	International, National and local designated heritage structures, sites and monuments.	No loss or damage to heritage features, or their setting, from construction and operation of proposed measures.	Increased protection / preservation for heritage features and improvement of setting.
		B Minimise effects on the setting of heritage features			
Landscape & Visual Amenity	8 Protect, and where possible enhance, the landscape character and visual amenity of the Dumfries & Galloway shoreline.	A Protect, and where possible enhance, the landscape character and visual amenity of the Dumfries & Galloway shoreline.	Landscape character assessments. Designated landscapes and views.	No negative impacts on landscape quality and amenity of the Dumfries & Galloway shoreline.	Enhancement of the landscape and visual amenity of the Dumfries & Galloway shoreline.

All potential positive and negative impacts will be presented individually, with a text description, and then a summary graphic. **Figure 5-1** presents example output of a policy / potential action assessment for the Dumfries & Galloway SMP. The assessment identifies the potential types of actions that may be implemented to meet the shoreline management policy and assesses them against the Strategic Environmental Objectives (SEO) provided in **Table 5-2**.

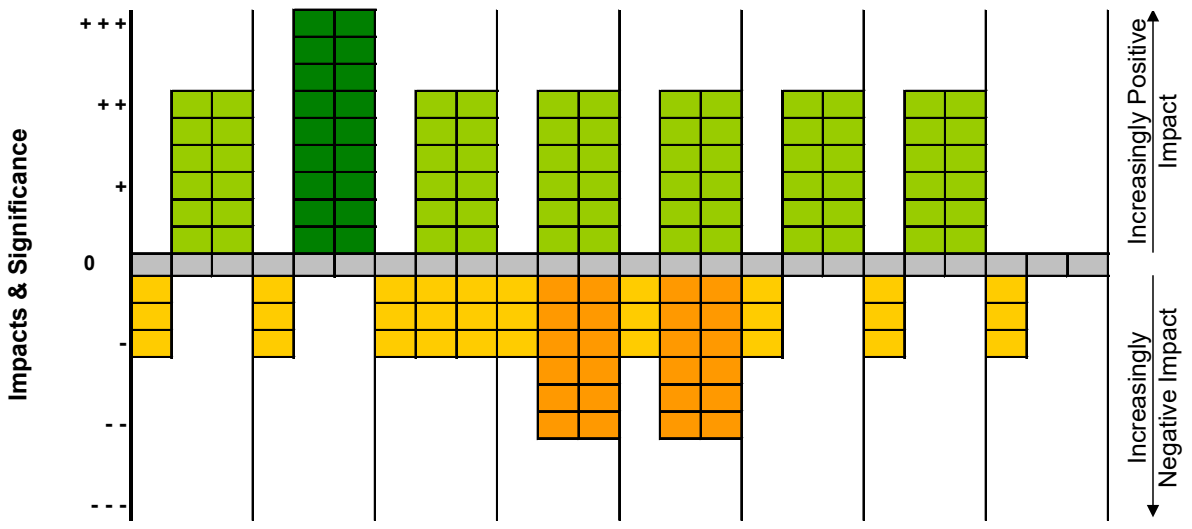
The scores assigned to impacts will range from + 3 to -3, as demonstrated in **Table 5-3**. If an option is thought to have the potential for unacceptable impacts a score of -999 will be assigned. The purpose of adding numerical scores is to assist in the ranking of options and for the potential incorporation of the environmental and social criteria into future decision making by the Dumfries & Galloway SMP team, as this can provide for a multi-criteria analysis of alternatives if desired. Options may have both positive and negative impacts at the same time, and will not be conveyed in terms of net benefit or net loss, which can sometimes be misleading.

Table 5-3 Description of SEA Environmental Impact Scores

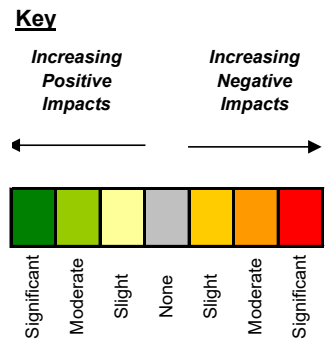
Description	Score
Significant positive environmental impacts	+ 3
Moderate positive environmental impacts	+ 2
Slight positive environmental impacts	+ 1
No environmental impacts	0
Slight negative environmental impacts	- 1
Moderate negative environmental impacts	- 2
Significant negative environmental impacts	- 3
Unacceptable impacts	- 999

The policy options to be implemented in the short, medium and long term of the SMP within each Policy Unit will be assessed within their overall Coastal Process Unit (CPU). There will therefore be six CPUs assessed, as well as the Do-Nothing Scenario. The alternatives to be assessed will be those that come through initial technical screening as being applicable Policies that the may be taken forward in the future.

Sub-cell	Name of Sub-Cell e.g. CPU1
Local Authority	Dumfries & Galloway
Sub-cell information	
Descriptive text on the sub-cell extent and its policy units. Shoreline management action(s) proposed for each policy unit.	
Key Plan Issues	
Description of the main areas and assets and risk in each policy unit of the sub-cell.	
Key Environment Issues	
<ul style="list-style-type: none"> Environmental issues relevant to this area that have the potential to be impacted upon by the proposed shoreline management action(s). Ordered by SEA Environmental Topic. 	
Summary Chart of Impacts (Example)	



Time	S	M	L	S	M	L	S	M	L	S	M	L	S	M	L	S	M	L	S	M	L	S	M	L
Topic	Biodiversity, Flora and Fauna			Population & Human Health			Geology, Soils & Land Use			Water			Climatic Factors			Material Assets			Cultural Heritage			Landscape & Visual Amenity		



Environmental Assessment (Example)

Environmental Topic	Short Term Impacts	Medium Term Impacts	Long Term Impacts
Biodiversity, Flora & Fauna (BFF)	<p style="text-align: center;">Positive and Negative scores by topic area, in the short medium and long term.</p> <p style="text-align: center;">Scores as per Table 5.3, judged by expert opinion against the SEA Objectives, Targets and Indicators.</p>		
Population & Human Health (PHH)			
Geology, Soils and Landuse (S)			
Water (W)			
Climatic Factors (C)			
Material Assets & Infrastructure (MA)			
Cultural, Architectural & Archaeological Heritage (H)			
Landscape & Visual Amenity (L)			

Discussion of Impacts

Biodiversity, Flora & Fauna

Description of short, medium and long-term impacts (including reference to secondary, cumulative, synergistic, permanent and temporary, positive or negative effects) of the proposed scenario within this sub-cell on this environmental topic.

Including incorporation of Appropriate Assessment.

Population & Human Health

Description of short, medium and long-term impacts (including reference to secondary, cumulative, synergistic, permanent and temporary, positive or negative effects) of the proposed scenario in this sub-cell on this environmental topic.

Geology, Soils & Landuse

Description of short, medium and long-term impacts (including reference to secondary, cumulative, synergistic, permanent and temporary, positive or negative effects) of the proposed scenario in this sub-cell on this environmental topic.

Water

Description of short, medium and long-term impacts (including reference to secondary, cumulative, synergistic, permanent and temporary, positive or negative effects) of the proposed scenario in this sub-cell on this environmental topic.

Climatic Factors

Description of short, medium and long-term impacts (including reference to secondary, cumulative, synergistic, permanent and temporary, positive or negative effects) of the proposed scenario in this sub-cell on this environmental topic.

Material Assets & Infrastructure

Description of short, medium and long-term impacts (including reference to secondary, cumulative, synergistic, permanent and temporary, positive or negative effects) of the proposed scenario in this sub-cell on this environmental topic.

Cultural, Architectural & Archaeological Heritage

Description of short, medium and long-term impacts (including reference to secondary, cumulative, synergistic, permanent and temporary, positive or negative effects) of the proposed scenario in this sub-cell on this environmental topic.

Landscape & Visual Amenity

Description of short, medium and long-term impacts (including reference to secondary, cumulative, synergistic, permanent and temporary, positive or negative effects) of the proposed scenario in this sub-cell on this environmental topic.

Additional Impacts

Additional secondary, cumulative, synergistic, permanent and temporary, positive or negative effects.

Key Conclusions:

Conclusions text, including incorporation of Appropriate Assessment.

Figure 5-1 Example Output of Environmental Assessment

5.2 Mitigation

Mitigation measures will be recommended where the proposed management activities of the Dumfries & Galloway SMP are predicted to have any negative impacts on any environmental topic area. The mitigation measures will aim to prevent, reduce or offset any adverse effects on the environment due to implementation of the Dumfries & Galloway SMP. This will include the following:

- General mitigation – Recommendations on general mitigation measures for any predicted negative effects to be considered further during the next stage of policy development.
- Mitigation by environmental topic – Outline of environmental impact specific mitigation measures that should be adopted within the SMP to minimise the potential for any negative effects on the wider environment of implementing the preferred policies, as demonstrated in **Table 5-4**.

Table 5-4 Description of Environmental Impact Specific Mitigation Measures

Impact	Proposed Mitigation
Description of the predicted negative impact.	Description of the impact specific mitigation proposed to minimise the potential for negative effects from implementation of the preferred policies.

- HRA mitigation – HRA mitigation measures that should be adopted within the Plan to minimise the potential for any negative impacts on European sites as a result of the management of the Dumfries & Galloway shoreline, as described in **Table 5-5**.

Table 5-5 Description of HRA Mitigation Measures

Sub-cell	European Site	Proposed Mitigation
Sub-cell code	European Site identified in the HRA as having potential for negative impacts from the preferred policy.	Description of the impact specific mitigation proposed to minimise the potential for negative effects on the qualifying interests of the European Site from implementation of the preferred policies, as outlined in the HRA.

5.3 Monitoring

The SEA Directive requires that any significant environmental effects of the implementation of a Plan are monitored in order to identify at an early stage unforeseen adverse effects and in order to undertake appropriate remedial action. The monitoring programme for the Dumfries & Galloway SMP will be based on the Targets and Indicators established in the SEA Objectives. This programme will aim to be realistic and achievable, with existing monitoring arrangements being used where possible. Examples of likely monitoring to be proposed are:

- Reported conservation status and condition of designated sites within the Dumfries & Galloway SMP area, to gauge impacts on Biodiversity, Flora and Fauna.
- Numbers of listed heritage features, including their setting and heritage value, at risk from flooding, erosion or shoreline management, to gauge impacts on cultural, architectural and archaeological heritage.

Proposed Scoping Questions –

- Do you agree with the approach to the assessment?
- Do you agree with the draft SEA Objectives?

6 CONSULTATION AND NEXT STEPS

6.1 Consultation

Under Article 6 of the SEA Directive, the competent authority (in this case Dumfries & Galloway Council) preparing the Dumfries & Galloway SMP is required to consult with specific “environmental authorities” (statutory consultees) throughout the SEA process. These statutory consultees are established within the national legislation in Scotland as:

- Scottish Environment Protection Agency (SEPA)
- Scottish Natural Heritage (SNH)
- Historic Scotland

Given the close proximity of the Dumfries & Galloway shoreline with England, consultations will also be extended to the relevant authorities for SEA in the England, namely:

- Natural England
- Environment Agency
- Historic England

These statutory and transboundary consultees are being formally consulted with as part of the scoping of the SEA for the Dumfries & Galloway SMP. Non-statutory consultees that may have an interest in the management of the Dumfries & Galloway shoreline will also be contacted to inform them of this scoping information. These non-statutory consultees include the following:

- Marine Scotland
- Solway Firth Partnership
- University of Glasgow
- Dumfries and Galloway Arts Association
- Cairnryan Community Council
- Carsethorn Community Development Group
- Cumbria County Council
- Cumbria County Council
- Dalbeattie Community Council
- Eastriggs, Dornock and Gretna Community Council
- Gatehouse and Fleet Community Council
- Gretna and Rigg Community Council
- Isle of Whithorn Community Council
- Kirkmabreck Community Council
- Kirkmaiden Community Council
- Port William and District Community Council
- Royal Burgh of Wigtown and District Community Council
- Southernness Community Council
- Springfield and Gretna Community Council
- Tongland and Ringford Community Council
- D&GC Councillors
- Scottish Government
- Scottish Forestry
- Keep Scotland Beautiful
- Scottish Rights of Way and Access Society
- Scottish Wildlife Trust

- Solway Marine Information, Learning and Environment (SMILE)
- SUSTRANS
- The SCAPE Trust
- National Farmers Union Scotland
- Murray Fisher Foundation
- Arbigland Estate Trust
- Ardwell Estates
- Caerlaverock Estate
- Crown Estate
- Defence Estates / MoD (including Easttriggs; Kirkcudbright Training Area)
- Glenapp Estate
- Hoddum and Kinmount Estates
- National Trust Scotland
- Cumbria County Council
- South Ayrshire Council (Ayrshire Roads Alliance)
- Carlisle City Council
- Allerdale Borough Council
- Copeland Borough Council
- Adaptation Scotland
- British Association for Shooting and Conservation
- Emergency Services
- Loch Ryan Advisory Management Forum
- Maritime and Coastguard Agency
- North West Coastal Forum
- Scottish Enterprise, Dumfries & Galloway
- Marine Management Organisation
- Stena Line
- Transport Scotland
- Network Rail
- National Grid Transco
- Scottish Water
- Utility Companies

This Scoping Report, including contact details, will also be published on the Dumfries & Galloway Council website so that interested parties can submit comments and feedback on the report. Comments and submissions received on the report will be logged, reviewed and applied to the SEA and Dumfries & Galloway SMP processes where relevant.

The SEA Environmental Report, once completed will also be sent to the statutory consultees and will be issued for public consultation along with the Plan level Appropriate Assessment and the Draft Dumfries & Galloway SMP. The public and stakeholders will have the opportunity to comment on the draft Dumfries & Galloway SMP and Environmental Reports. Comments and submissions received on the reports will be logged and reviewed. The detailed responses received in the SEA Scoping consultation will be included as an Appendix of the SEA Environmental Report. All responses received from this consultation will be incorporated into the environmental assessments where feasible.

6.2 Next Steps

Table 6-1 demonstrates the proposed upcoming stages for the Dumfries & Galloway SMP, SEA and HRA.

Table 6-1 Draft Anticipated Milestones

Dumfries & Galloway Shoreline Management Plan	Dates	Strategic Environmental Assessment / Appropriate Assessment
Development of the Dumfries & Galloway SMP	March – December 2020	Strategic Environmental Assessment and Appropriate Assessment. Writing of SEA Environmental Report and Appropriate Assessment Screening.
Public and statutory consultation on draft Dumfries & Galloway SMP	January – April 2021	Statutory, Non Statutory and Public Consultation on SEA Environmental Report and Appropriate Assessment Screening.
Release of Final Dumfries & Galloway SMP	June - July 2021	SEA Environmental Statement

The proposed timescale to complete the SEA process is given in **Table 6-2**.

Table 6-2 Proposed Timescale for SEA of the Dumfries & Galloway Shoreline Management Plan

Actions	Timescales
Scoping	November 2019 – March 2020
Consultation	March – April 2020
Environmental Assessment	April – December 2020
Public Consultation	January – April 2021
Environmental Statement	July 2021

The contact for any information regarding the Strategic Environmental Assessment of the proposed Dumfries & Galloway SMP is as follows:

By post	Richard Bingham RPS Consulting Engineers, Elmwood House, 74 Boucher Road, Belfast, BT12 6RZ Northern Ireland
By email	richard.bingham@rpsgroup.com

Proposed Scoping Questions –

- Do you agree with the proposed project timescales and proposed consultees in the SEA process?

Appendix A

SEA Screening Responses

Local Government and Communities Directorate
Planning and Architecture Division



Scottish Government
Riaghaltas na h-Alba
gov.scot

T: 0131-244 9571 F: 0131-244 7555
E: SEA.Gateway@gov.scot

Richard Bingham
Senior Associate - Water Environment and
Flood Risk Management
RPS | Consulting UK & Ireland
Elmwood House
74 Boucher Road, Belfast

01490 Screening - Dumfries and Galloway - Shoreline Management Plan –

27th September 2019

Dear Richard

With reference to the Screening document you submitted on 30th August 2019.

The Consultation Authorities have now considered your screening request as per **Section 9(3)** of the **Environmental Assessment (Scotland) Act 2005**. For convenience I have set out, in the table below, their individual views on whether there is a likelihood of significant environmental effects.

Please note, these are the views and opinions of the Consultation Authorities on the likelihood of significant environmental effects arising from the plan or programme and not a judgement on whether an SEA is required. It is therefore for the Responsible Authority to determine whether an SEA is required in the circumstances. I have attached the individual letters from the Consultation Authorities, outlining their views and opinions. Where possible the Consultation Authorities may have offered supplementary information and/or advice for you to consider, which you should find helpful.

CONSULTATION AUTHORITY	LIKELIHOOD OF SIGNIFICANT ENVIRONMENTAL EFFECTS
Historic Environment Scotland	Yes
Scottish Environment Protection Agency	Yes
Scottish Natural Heritage	Yes
OVERALL VIEW ON LIKELIHOOD OF SIGNIFICANT ENVIRONMENTAL EFFECTS	Yes

As the Consultation Authorities have now notified you of their views, you should now refer to the 2005 Act to consider your next step. You should of course take into account the advice offered by the Consultation Authorities.

Victoria Quay, Edinburgh EH6 6QQ
www.gov.scot



You should note, as per Section 10 of the 2005 Act, within 28 days of your determination about whether an SEA is required or not, a copy of the determination and any related statement of reasons must be passed to the Consultation Authorities. This may be done via the SEA Gateway.

If you have any queries or would like me to clarify any points, please call me on 0131 244 9571.

Yours sincerely

Melissa Shields
SEA Gateway Administrator



HISTORIC
ENVIRONMENT
SCOTLAND

ÀRAINNEACHD
EACHDRAIDHEIL
ALBA

By email to: sea.gateway@gov.scot

Mr Brian Templeton
Dumfries and Galloway Council
Cargen Tower
Garroch Business Centre
Cargenbridge
Dumfries
DG2 8PN

Longmore House
Salisbury Place
Edinburgh
EH9 1SH

Enquiry Line: 0131-668-8716
Switchboard: 0131 668 8600
HMConsultations@hes.scot

Our case ID: 300040148
Your ref: 01490 Screening

25 September 2019

Dear Mr Templeton

[Environmental Assessment \(Scotland\) Act 2005](#)
[Dumfries and Galloway Shoreline Management Plan](#)

Screening Report

Thank you for your consultation which we received on 03 September 2019 about the above screening report. We have reviewed the screening report in our role as a Consultation Authority under the above Act, in accordance with the requirements of Section 9(3). In doing so we have used the criteria set out in Schedule 2 for determining the likely significance of the effects on the environment. Please note that our view is based on main area of interest for the historic environment.

Our understanding from the provided screening report is that this Shoreline Management Plan will set out the assessment and analysis of scenarios for management of the coastline of Dumfries and Galloway and present the preferred options for action in this area. We note that it is the Council's view that the plan is likely to have significant environmental effects. In light of this and the information contained within the screening report we are content to agree that the plan is likely to have significant effects on the historic environment.

However, as you will be aware, it is the responsibility of Dumfries and Galloway Council as the Responsible Authority to determine whether the guidance requires an environmental assessment and to inform the Consultation Authorities accordingly.

We hope this is helpful. Please contact us if you have any questions about this response. The officer managing this case is Alison Baisden who can be contacted by phone on 0131 668 8575 or by email on Alison.baisden@hes.scot.

Yours faithfully

Historic Environment Scotland

Our ref: PCS/167489
SG ref: SEA01490/SCR

If telephoning ask for:
Susan Haslam

Brian Templeton
Dumfries & Galloway Council
Cargen Tower
Garroch Business Centre
Cargenbridge
Dumfries
DG2 8PN

10 September 2019

By email only to: SEA_Gateway@gov.scot

Dear Mr Templeton

Environmental Assessment (Scotland) Act 2005 Shoreline Management Plan - Screening Report

Thank you for your Screening Report consultation which SEPA received via the Scottish Government SEA Gateway on 3 September 2019.

In accordance with Section 9(3) of the Environmental Assessment (Scotland) Act 2005 we have considered your screening report using the criteria set out in Schedule 2 for determining the likely significance of effects on the environment. Having reviewed the Screening Report, we consider that in respect of our main areas of interest (air, water, soil, human health, material assets (of which we have a specific interest in waste) and climatic factors) the Plan is likely to have significant environmental effects. Based on the information available to date we consider that significant effects are most likely to be positive and be with respect to water, human health and climatic factors.

Although we are of the view that significant environmental effects are likely, it is for the Responsible Authority to make a formal determination taking into account the consultation responses received. If it is formally determined that SEA *is* required, you will be aware that the next stage requires the Responsible Authority to consult the Consultation Authorities on the proposed scope and level of detail to be included within the Environmental Report. This can be undertaken through preparation of a concise Scoping Report; further information on which can be found in the [Scottish Government SEA Guidance](#) (sections 3.4. to 3.8 in particular).

We would encourage you to use the scoping process to focus the assessment on those SEA issues upon which there are likely to be significant environmental effects, to outline the baseline information you consider as most relevant and explain your proposed method of assessment. To assist with this process we have produced [SEA topic guidance](#) on those issues which fall within our remit.



Chairman
Bob Downes

Chief Executive
Terry A'Hearn

Angus Smith Building

6 Parklands Avenue, Eurocentral,
Holytown, North Lanarkshire ML1 4WQ
tel 01698 839000 fax 01698 738155

www.sepa.org.uk • customer enquiries 03000 99 66 99

We are committed to providing early and focused advice and supporting continuous engagement and would therefore welcome the opportunity to meet with you and discuss these issues prior to the formal consultation.

Should you wish to discuss this letter please do not hesitate to contact me on 01349 860359 or via SEPA's SEA Gateway at sea.gateway@sepa.org.uk.

Yours sincerely

Susan Haslam
Senior Planning Officer
Planning Service

Ecopy: sea.gateway@hes.scot; SEA_GATEWAY@nature.scot



Scottish Natural Heritage
Dualchas Nàdair na h-Alba
nature.scot

Brian Templeton
Dumfries & Galloway Council
Cargen Tower
Garroch Business Centre
Cargenbridge
Dumfries
DG2 8PN

Our ref: CEA156714
SG ref: SEA01490/SCR

16 September 2019

By email only to: SEA_Gateway@gov.scot

Dear Mr Templeton

**Environmental Assessment (Scotland) Act 2005
Shoreline Management Plan - Screening Report**

Thank you for your screening report submitted on 3 September 2019 via the Scottish Government SEA Gateway in respect of the above plan.

SNH has considered your screening report using the criteria set out in Schedule 2 of the 2005 Act.

In terms of our interests, we agree that the above Plan is likely to have significant environmental effects. Further comments are detailed in Annex 1.

Please note that this consultation response provides a view solely on the potential for the plan or programme to have significant environmental effects. We cannot comment on whether or not the plan or programme meets other criteria determining the need for SEA as set out in the Act.

Should you wish to discuss this screening determination, please do not hesitate to contact me or submit a query via SNH's SEA Gateway at sea_gateway@nature.scot.

Yours sincerely,

Dylan De Silva

Operations Officer
Scottish Natural Heritage
Southern Scotland Unit
Tel: 01738 458685

Cc sea_gateway@sepa.org.uk; sea_gateway@hes.scot; Sea_gateway@nature.scot

Scottish Natural Heritage, Greystone Park, 55/57 Moffat Road, Dumfries DG1 1NP
Tel: 01738 458678 www.nature.scot

Dualchas Nàdair na h-Alba, Pàirc a' Chùirm Leithe, 55/57 Rathad Mhofad, Dùn Phrìs DG1 1NP
Fòn: 01738 458678 www.nature.scot

Annex 1

Other Issues / Comments

SNH has already contributed to discussion of this plan and is keen to continue to do so in order to ensure thorough coverage of the issues pertaining to the coast of Dumfries and Galloway.

Although by no means restricted these issues, given the current Climate Change Emergency, SNH advise that any SEA of the Shoreline Management Plan should include thorough examination of the potential effects and requirements to deal with rising sea level and impacts of potentially more harmful storm events.

In terms of our remit, any SEA should take account of the diversity of protected areas and species associated with the Dumfries and Galloway coastline. We are pleased to see that these elements have been referenced at this screening stage.

If you are uncertain about what a scoping report should contain, it would be helpful if you could provide the information as recommended in the Scottish Government's SEA Guidance:

- A brief outline of the main objectives and contents of the plan.
- A short summary of other relevant plans, programmes or strategies that can influence the plan being subjected to assessment.
- A summary of the environmental characteristics of the area covered by the plan.
- A statement about whether any environmental topics are being scoped out of the assessment and the reasons why.
- A brief description, if available, of the type and range of reasonable alternatives that are or could be considered.
- A summary of the intended approach to the assessment and its level of detail.
- The proposed period of consultation on the Environmental Report.

Appendix B

SEA Guidance

Scottish Government guidance on Strategic Environmental Assessment. August 2013. Scottish Government. <http://www.gov.scot/Publications/2013/08/3355/0>

Strategic Environmental Assessment DRAFT Practical Guidance for Practitioners on How to Take Account of Air. June 2008. Scotland & Northern Ireland Forum for Environmental Research.

Strategic Environmental Assessment DRAFT Practical Guidance for Practitioners on How to Take Account of Soil. June 2008. Scotland & Northern Ireland Forum for Environmental Research.

Strategic Environmental Assessment DRAFT Practical Guidance for Practitioners on How to Take Account of Water. June 2008. Scotland & Northern Ireland Forum for Environmental Research.

Strategic Environmental Assessment Toolkit (Version 1). September 2006. Scottish Executive. <http://www.scotland.gov.uk/Publications/2006/09/13104943/0>

Strategic Environmental Assessment Website. Guidance on Air, Soil and Water. September 2009. SNIFFER. <http://www.seaguidance.org.uk/1/Homepage.aspx>

Appendix C

Plans and Programmes

PRELIMINARY REVIEW OF PLANS AND PROGRAMMES

These tables will be updated accordingly following the receipt of scoping responses and will be presented in the SEA Environmental Report later in the process.

EUROPEAN

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
<i>Biodiversity, Flora and Fauna</i>				
The EU Birds Directive 2009/147/EC	Protects all wild birds, their nests, eggs and habitats within the European Community. It gives EU member states the power and responsibility to classify Special Protection Areas (SPAs) to protect birds which are rare or vulnerable in Europe, as well as all migratory birds which are regular visitors.	<p>Preserve, maintain or re-establish a sufficient diversity and area of habitats for all the species of birds referred to in Annex I.</p> <ul style="list-style-type: none"> • Preserve, maintain and establish biotopes and habitats to include the creation of protected areas (Special Protection Areas); ensure the upkeep and management in accordance with the ecological needs of habitats inside and outside the protected zones, re-establish destroyed biotopes and creation of biotopes. • Measures for regularly occurring migratory species not listed in Annex I is required as regards their breeding, moulting and wintering areas and staging posts along their migration routes. The protection of wetlands and particularly wetlands of international importance. 		<p>The Dumfries & Galloway SMP should ensure that European Sites are suitably protected from loss or damage.</p> <p>The Dumfries & Galloway SMP is expected to require a screening for Appropriate Assessment (Habitats Regulations Appraisal), following which there may be requirement for a Habitats Regulations Appraisal Record to ensure that any strategies proposed do not adversely affect SPAs and SACs.</p>

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
The EU Habitats Directive (92/43/EEC)	Builds on the Birds Directive (see above) by protecting natural habitats and other species of wild plants and animals. Together with the Birds Directive, it underpins a European network of protected areas known as Natura 2000: Special Protection Areas (SPAs, classified under the Birds Directive) and Special Areas of Conservation (SACs, classified under the Habitats Directive).	<ul style="list-style-type: none"> • Propose and protect sites of importance to habitats, plant and animal species. • Establish a network of Natura 2000 sites hosting the natural habitat types listed in Annex I and habitats of the species listed in Annex II, to enable the natural habitat types and the species' habitats concerned to be maintained or, where appropriate, restored at a favourable conservation status in their natural range. • Carry out comprehensive assessment of habitat types and species present. • Establish a system of strict protection for the animal species and plant species listed in Annex IV. 		

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
<p>The EU Biodiversity Strategy to 2020 [COM(2011)244] “Our life insurance, our natural capital”</p>	<p>Aimed at reversing biodiversity loss and speeding up the EUs transition towards a resource efficient and green economy. Primary objectives of the strategy include:</p> <ul style="list-style-type: none"> • conserving and restoring nature; • maintaining and enhancing ecosystems and their services; • ensuring the sustainability of agriculture, forestry and fisheries; • Ensuring the sustainable use of fisheries resources • combating invasive alien species; and • addressing the global biodiversity crisis. 	<ul style="list-style-type: none"> • To mainstream biodiversity in the decision making process across all sectors. • To substantially strengthen the knowledge base for conservation, management and sustainable use of biodiversity. • To increase awareness and appreciation of biodiversity and ecosystems services. • To conserve and restore biodiversity and ecosystem services in the wider countryside. • To conserve and restore biodiversity and ecosystem services in the marine environment • To expand and improve on the management of protected areas and legally protected species. • To substantially strengthen the effectiveness of International governance for biodiversity and ecosystem services. 		<p>The Dumfries & Galloway SMP should have regard for this strategy and look for opportunities to conserve, and, where possible, restore or enhance biodiversity.</p>
<p>(Ramsar) Convention of Wetlands of International Importance especially</p>	<p>Framework for international cooperation in relation to the conservation and wise use of wetlands through local and national actions as a contribution towards</p>	<p>Contracting parties commit to:</p> <ul style="list-style-type: none"> • Work towards the wise use of all their wetlands; • Designate suitable wetlands for the list of Wetlands of International 	<p>The Fourth Ramsar Strategic Plan 2016 – 2024.</p>	<p>The Dumfries & Galloway SMP will have regard for the protection of wetlands and shall seek to, at the very least,</p>

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
as Waterfowl Habitat (1971)	achieving sustainable development throughout the world.	Importance (the “Ramsar List”) and ensure their effective management; <ul style="list-style-type: none"> Cooperation internationally on transboundary wetlands, shared wetland systems and shared species. 		prevent negative impacts to wetlands.
The Convention on the Conservation of Migratory Species of Wild Animals (also known as CMS or “The Bonn Convention” [L210, 19/07/1982 (1983)])	The Bonn Convention focuses on preserving the habitats used by migratory species and aims to enhance the conservation of terrestrial, marine and avian species on a global scale throughout their range.	<ul style="list-style-type: none"> Establishes a legal foundation for internationally coordinated conservation measures throughout a migratory range. Migratory species threatened with extinction are listed on Appendix I of the Convention. CMS Parties strive towards strictly protecting these animals, conserving or restoring the places where they live, mitigating obstacles to migration and controlling other factors that might endanger them. In Europe, legislation to ensure that the provisions of the Bonn convention are applied includes the Birds Directive and the Habitats Directive. 		The Dumfries & Galloway SMP should have regard for the implications of adapting the shoreline on migratory species.
<i>Cultural, Architectural and Archaeological Heritage</i>				

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
<p>United Nations Convention Concerning the Protection of the World Cultural and Natural Heritage (Paris 1972) "The World Heritage Convention" [WHC-2005/WS/02]</p>	<p>Objectives seek to ensure the identification, protection, conservation, presentation and transmission to future generations of cultural and natural heritage and ensure that effective and active measures are taken for these.</p> <p>The Convention recognises the way in which people interact with nature and encourages signatories to</p> <ul style="list-style-type: none"> • integrate the protection of cultural and natural heritage into regional planning programmes; • set up staff and services at their sites; • undertake scientific and technical conservation research; and • adopt measures which give this heritage a function in the day-to-day life of the community. 	<ul style="list-style-type: none"> • Establishment of measures for the protection of monuments of national importance by virtue of the historical, architectural, traditional, artistic or archaeological interest attaching to them. Includes the site of the monument, the means of access to it and any land required to preserve the monument from injury or to preserve its amenities. • World Heritage Sites in Ireland are specific locations that have been included in the UNESCO World Heritage Programme list of sites of outstanding cultural or natural importance to the common heritage of humankind. Two such sites in Ireland have been designated 		<p>The Dumfries & Galloway SMP should consider sites of cultural and natural heritage and ensure they are protected from loss or damage resulting from alterations to the Dumfries & Galloway shoreline.</p>
<i>Geology, Soils and Landuse</i>				
<p>EU Thematic Strategy for Soil Protection [COM(2006) 231] (including proposals for a Soil Framework Directive)</p>	<p>Highlights a need for action to prevent the ongoing deterioration of Europe's soils.</p> <p>The Soil Thematic Strategy would seek to:</p>	<ul style="list-style-type: none"> • Objective of integrating soil protection into other EU policies, including agriculture and rural. 		<p>The provisions of the European Strategy should form a framework for soil protection and improvement that the Dumfries & Galloway SMP should take into account.</p>

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
	<ul style="list-style-type: none"> • Establish common principles for the protection and sustainable use of soils; • Prevent threats to soils, and mitigate the effects of those threats; • Preserve soil functions within the context of sustainable use; and • Restore degraded and contaminated soils to approved levels of functionality. 	<ul style="list-style-type: none"> • Promotion of rehabilitation of industrial sites and contaminated land. 		
<i>Landscape and Visual Amenity</i>				
<p>European Landscape Convention (ETS No. 176), Florence, 20 October 2000</p>	<ul style="list-style-type: none"> • Promotion of the protection, management and planning of European landscapes and organising European co-operation on landscape issues. • Applies to the entire territory of the Parties and covers natural, rural, urban and peri-urban areas. • Inclusion of landscapes that might be considered outstanding as well as everyday or degraded landscapes. • Aimed at the protection, management and planning of all 	<ul style="list-style-type: none"> • Respond to the public's wish to enjoy high-quality landscapes and to play an active part in the development of landscapes. • Each administrative level (national, regional and local) should draw up specific and/or sectoral landscape strategies within the limits of its competences. These are based on the resources and institutions which, when co-ordinated in terms of space and time, allow policy implementation to be programmed. The various strategies should be 		<p>Making alterations to the Dumfries & Galloway shoreline could potentially have implications on landscapes and visual amenity.</p>

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
	<p>landscapes and raising awareness of the value of a living landscape.</p> <ul style="list-style-type: none"> Complements the Council of Europe's and UNESCO's heritage conventions. 	<p>linked by landscape quality objectives.</p>		
<i>Water</i>				
<p>EU Marine Strategy Framework Directive (2008/56/EC)</p>	<ul style="list-style-type: none"> Provides a framework to protect the marine environment across Europe. 	<ul style="list-style-type: none"> To achieve Good Environmental Status (GES) of the EU's marine waters by 2020 and to protect the resource base upon which marine-related economic and social activities depend 		<p>The Dumfries & Galloway SMP will have regard to this Directive and seek to contribute, wherever possible, towards the achievement of its objectives.</p>
<p>The 'Floods' Directive, 2007 (2007/60/EC)</p>	<p>This Directive provides a framework for the assessment and management of flood risks, aiming to reduce the adverse consequences associated with flooding for human health, the environment, cultural heritage and economic activity.</p>	<p>Member States must:</p> <ul style="list-style-type: none"> assess the risk of flooding of all water courses and coast lines, map the flood extent and assets and humans at risk in these areas at River Basin level and in areas covered by Article 5(1) and 13(1); and implement flood risk management plans and take adequate and coordinated measures to reduce this flood risk. <p>Member States were required to establish flood risk management plans</p>		<p>The Dumfries & Galloway SMP will need to be aware of areas identified as being at risk of flooding and should not contribute to flood risk.</p>

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
		<p>focused on prevention, protection and preparedness for the areas identified as at risk of flooding by 2015.</p> <p>Member States were required to carry out an updated National Flood Risk Assessment by 2018 and to prepare updated Flood Risk Management Plans on the basis of the updated risk assessment. This is currently in progress.</p>		
<p>The EU Water Framework Directive (2000/60/EC), (as amended by Decision 2455/2001/EC and Directives 2008/32/EC, 2008/105/EC and 2009/31/EC.</p>	<p>Aims to improve water quality and quantity within rivers, estuaries, coasts and aquifers.</p> <p>Aims to prevent the deterioration of aquatic ecosystems and associated wetland by setting out a timetable until 2027 to achieve good ecological status or potential.</p> <p>Member States are required to manage the effects on the ecological quality of water which result from changes to the physical characteristics of water bodies.</p> <p>Action is required in those cases where these “hydro-morphological” pressures are having an ecological</p>	<ul style="list-style-type: none"> • Identification and establishment of individual river basin districts. • Preparation of individual river basin management plans for each of the catchments. These contain the main issues for the water environment and the actions needed to deal with them. • Establishment of a programme of monitoring water quality in each RBD. • Establishment of a Register of Protected Areas (includes areas previously designated under the Freshwater Fish and Shellfish Directives which have become sites designated for the protection of economically significant aquatic 		<p>The Dumfries & Galloway SMP will need to consider the requirements of the WFD and ensure that it does not compromise its objectives, and that it contributes to achieving its aims.</p>

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
	<p>impact which will interfere with the ability to achieve WFD objectives.</p> <p>The following Directives have been subsumed into the Water Framework Directive :</p> <ul style="list-style-type: none"> • The Drinking Water Abstraction Directive • Sampling Drinking Water Directive • Exchange of Information on Quality of Surface Freshwater Directive • Shellfish Directive • Freshwater Fish Directive • Groundwater (Dangerous Substances) Directive • Dangerous Substances Directive 	<p>species under WFD and placed on the Protected Areas register).</p> <ul style="list-style-type: none"> • Promotion of sustainable management of the water environment by carefully considering current land use and future climate scenarios, minimising the effects of flooding and drought events and facilitating long term improvements in water quality, including the protection of groundwater near landfill sites, as well as minimising agricultural runoff. 		
<p>Environmental Quality Standards Directive (Directive 2008/105/EC) (also known as the Priority Substances Directive), as amended by Directive 2013/39/EU.</p>	<ul style="list-style-type: none"> • Establishes environmental quality standards (EQS) for priority substances and certain other pollutants as provided for in Article 16 of the Water Framework Directive and aims to achieve good surface water chemical status in accordance with the provisions and objectives of Article 4 of the Water Framework Directive. 	<ul style="list-style-type: none"> • Apply the EQS laid down in Part A of Annex I to this Directive for bodies of surface water. • Determine the frequency of monitoring in biota and/or sediment of substances. • Monitoring shall take place at least once every year, unless technical knowledge and expert judgment justify another interval. • Notify the European Commission if the substances for which EQS 		<p>Impacts on water quality are of relevance to the Dumfries & Galloway SMP and proposed measures should not result in water pollution.</p>

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
		<p>have been established if a deviation of the monitoring is planned along with the rationale and approach.</p> <ul style="list-style-type: none"> Establish an inventory, including maps, if available, of emissions, discharges and losses of all priority substances and pollutants listed in Part A of Annex I to this Directive for each river basin district. 		
<i>Environment and Sustainable Development</i>				
<p>EIA Directive (2011/92/EU as amended by 2014/52/EU)</p>	<ul style="list-style-type: none"> Requires the assessment of the environmental effects of public and private projects which are likely to have significant effects on the environment. Aims to assess and implement avoidance or mitigation measures to eliminate environmental effects, before consent is given of projects likely to have significant effects on the environment by virtue, inter alia, of their nature, size or location are made subject to a requirement for development consent and an assessment with regard to their effects. 	<ul style="list-style-type: none"> All projects listed in Annex I are considered as having significant effects on the environment and compulsorily require an EIA. For projects listed in Annex II, a "screening procedure" is required to determine the effects of projects on the basis of thresholds/criteria or a case by case examination. The competent authority may give a decision on whether a project requires EIA. Requirement for identification, description and assessment in an appropriate manner, in the light of each individual case, on the direct 		<p>The Dumfries & Galloway SMP may need to have regard to the EIA regulations in relation to its proposed policies and actions.</p>

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
		<p>and indirect effects of a project on the following factors: human beings, fauna and flora, soil, water, air, climate and the landscape, material assets and the cultural heritage, the interaction between each factor.</p> <ul style="list-style-type: none"> • Requirement for consultation with relevant authorities, stakeholders and public allowing sufficient time to make a submission before a decision is made. • Establishment of a recognised structure and content for the Environmental Impact Statement, which is the document submitted as a written account of the EIA. • Inclusion of proposed flood risk management schemes in EIA screening process. 		
SEA Directive (2001/42/EC)	<ul style="list-style-type: none"> • Seeks to integrate environmental considerations into the preparation of plans and programmes as a means of ensuring a high level of protection for the environment whilst also promoting sustainable development. 	<ul style="list-style-type: none"> • Requires an SEA for plans/programmes which are prepared for agriculture, forestry, fisheries, energy, industry, transport, wastewater management, telecommunications, tourism, town & country planning or land use and which set the framework for future development 		The Dumfries & Galloway SMP is required to have regard to the SEA regulations.

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevant Legislation	Relevance to the Strategy
		<p>consent of projects listed in the EIA Directive.</p>		
<p>Environmental Liability Directive (2004/35/EC)</p>	<ul style="list-style-type: none"> Establishes a framework for environmental liability based on the 'polluter-pays' principle, to prevent and remedy environmental damage. Relates to environmental damage caused by occupational activities (listed in Annex III), and to any imminent threat of such damage occurring by reason of any of those activities; damage to protected species and natural habitats caused by any occupational activities other than those listed in Annex III, and to any imminent threat of such damage occurring by reason of any of those activities, whenever the operator has been at fault or negligent. 	<ul style="list-style-type: none"> Describes procedures for circumstances where environmental damage has occurred. Requires the polluter to take all practicable steps to immediately control, contain, remove or otherwise manage the relevant contaminants and/or any other damage factors in order to limit or to prevent further environmental damage and adverse effects on human health or further impairment of services and the necessary remedial measures. Establishes measures for cases where environmental damage has not yet occurred, but there is an imminent threat of such damage occurring. The regulations make the polluter financially liable and allow the competent authority to initiate cost recovery proceedings where appropriate. 		<p>The Dumfries & Galloway SMP may need to have regard to the directive in relation to its proposed measures.</p>

NATIONAL

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Related Legislation or Plans	Relevance to the Strategy
<i>Biodiversity, Flora and Fauna</i>				
The Nature Conservation Act 2004	<ul style="list-style-type: none"> National strategy for the maintenance and enhancement of biological diversity, which should be integrated across other policy sectors. 	<ul style="list-style-type: none"> Requires the government to report on progress with the strategy every three years. 	UN Convention on Biological Diversity (1992) Strategic Plan 2011 to 2020 "Living in Harmony with Nature".	The Dumfries & Galloway SMP should look for opportunities to conserve, and where possible restore, biodiversity.
The 2020 Challenge	<ul style="list-style-type: none"> Focuses on the desired outcomes for 2020 and is Scotland's response to the European Biodiversity Strategy for 2020 and the UN 'Aichi' targets. 	<ul style="list-style-type: none"> Shows how the Scottish Government, its public agencies, Scottish business and others can contribute to the Strategy's aims as well as supporting sustainable economic growth. 	European Biodiversity Strategy for 2020. UN 'Aichi' targets.	The Dumfries & Galloway SMP should have regard for the strategic aims of this document and seek to, wherever possible, seek to preserve and protect Scotland's biodiversity.
Scotland's Biodiversity: It's in Your Hands	<ul style="list-style-type: none"> Sets out how the government will conserve biodiversity for the health, enjoyment and wellbeing of the people of Scotland now and in the future. 	<ul style="list-style-type: none"> The strategy set out a vision for 2030 as well as objectives and desired outcomes to achieve this. 	UN Convention on Biological Diversity (1992) Strategic Plan 2011 to 2020 "Living in Harmony with Nature". European Biodiversity Strategy for 2020.	The Dumfries & Galloway SMP should have regard for the objectives of this strategy and seek to contribute towards its desired outcomes where possible.
The Wildlife and Natural Environment (Scotland) act 2011	<ul style="list-style-type: none"> Modernises existing legislation and extends the regime for controlling non-native and invasive species. 	<ul style="list-style-type: none"> Introduces new regime for regulating invasive and non-native species 	Wildlife and Countryside Act 1981 The Deer (Scotland) Act 1996	The Dumfries & Galloway SMP will have regard for this legislation, in particular, taking

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		<ul style="list-style-type: none"> Makes changes to the licencing system for protected species Makes operational changes to the management of Sites of Special Scientific Interest 		heed of its regulation regarding protected sites and species.
The Nature Conservation (Scotland) Act 2004	<ul style="list-style-type: none"> Provides for a greater degree of protection for Scotland's biodiversity and sites of conservation. 	<ul style="list-style-type: none"> Places duties on public bodies in relation to the conservation of biodiversity. Increases protection for Sites of Special Scientific Interest Amends legislation of Nature Conservation Orders Strengthens wildlife enforcement regulations 	Wildlife and Countryside Act 1981	The Dumfries & Galloway SMP will be developed so as to comply with this legislation; seeking, where possible, to preserve and protect Scotland's natural environment to the greatest extent possible.
The Habitats Regulations 1994 (and amendments)	<ul style="list-style-type: none"> Implement the species protection requirements of the Habitats Directive in Scotland on land and inshore waters (0-12 nautical miles). 	<ul style="list-style-type: none"> Details and designates for protection, a number of European animal and plant species Introduces designated Special Areas of Conservation 	EU Habitats Directive	The Dumfries & Galloway SMP will have regard for the protection afforded to the species and sites designated as a result of this legislation.
<i>Water</i>				
Flood Risk Management (Scotland) Act 2009	<ul style="list-style-type: none"> Transposes the EU Floods Directive into Scots law and brings Scottish flooding legislation up to date. 	<ul style="list-style-type: none"> The EU Floods Directive purpose is to establish a framework for the assessment and management of flood risk. It aims to reduce and mitigate the adverse consequences 	EU Floods Directive	The Dumfries & Galloway SMP will seek to comply with the objectives of this legislation. Sustainable, long term flood risk management and

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Related Legislation or Plans	Relevance to the Strategy
		of flooding on human health, environment, cultural heritage, economic activity		protection to people and property are core aims of the SMP.
Natural Flood Management Handbook 2015	<ul style="list-style-type: none"> A practical guide to flood risk management measures which work with natural features and processes to manage the sources and pathways of flood waters (natural flood management). 	<ul style="list-style-type: none"> To provide guidance in relation to an approach to flood risk management which is more sustainable than traditional methods such as hard defences. To encourage investment into natural flood management measures. 	Marine (Scotland) Act	The objectives and policies of the Dumfries & Galloway SMP will seek to support natural coastal processes and deliver projects that include NFM measures.
National Marine Plan 2015	<ul style="list-style-type: none"> Provides a consistent framework for the continued operation of existing marine regulatory and legislative requirements. It covers the management of both Scottish inshore and offshore waters (12 to 200 nautical miles) and was prepared in accordance with the EU Directive 2014/89/EU. 	<ul style="list-style-type: none"> To ensure that increasing demands for the use of the marine environment are managed, that the economic development of marine industries is encouraged and that environmental protection is incorporated into marine decision making. 	Marine (Scotland) Act	The Dumfries & Galloway SMP will have regard for the principles and objectives of the National Marine Plan and will aspire to contribute towards their achievement.
A Guide to Managing Coastal Erosion in Beach/Dune Systems	<ul style="list-style-type: none"> Provides guidance in relation to the options available for managing coastal erosion. 	<ul style="list-style-type: none"> To assist in the practical management of marine erosion along dunes and beaches. 		The Dumfries & Galloway SMP will have consideration for this guidance and will seek to adhere to best practice where applicable.

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Water Environment (Controlled Activities) (Scotland) Regulations 2011 (as amended)	<ul style="list-style-type: none"> Applies regulatory controls over activities which may affect Scotland's water environment including rivers, lochs, transitional waters (estuaries), coastal waters, groundwater and groundwater dependent wetlands. 	<ul style="list-style-type: none"> Aims to control impacts on the water environment, including mitigating the effects on other water users. 		The Dumfries & Galloway SMP will have regard for these regulations and will seek to comply with their objectives to limit adverse impacts upon the water environment.
Water Environment and Water Services (Scotland) Act 2003	<ul style="list-style-type: none"> Transposes the EU Water Framework Directive into Scots law. The Act gives Scottish Ministers powers to introduce regulatory controls over certain activities in order to protect and improve Scotland's water environment. 	<ul style="list-style-type: none"> Part 1 relates to protection of the water environment and to the implementation of the WFD to protect and improve the water environment, to promote sustainable water use, reduce discharges of priority substances and cease discharges of priority hazardous substances, and to contribute to mitigating the effects of floods and droughts. Part 2 covers issues relating to the provision of water and sewerage services. Part 3 deals with the making of orders and regulations under the Act. 	EU WFD	The Dumfries & Galloway SMP will seek to comply with the objectives of this legislation.
The Marine (Scotland) Act 2010	<ul style="list-style-type: none"> Introduces a duty to protect and enhance the marine environment and includes measures to help boost economic investment and 	<ul style="list-style-type: none"> Introduces new marine planning system 		The Dumfries & Galloway SMP will seek to comply with the objectives of this legislation.

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Related Legislation or Plans	Relevance to the Strategy
	growth in areas such as marine renewables	<ul style="list-style-type: none"> Minimises the number of licences required for development within the marine environment Introduced new powers to protect and manage areas of importance for marine life 		
The River Basin Management Plan for the Scotland River Basin 2015 - 2027	<ul style="list-style-type: none"> Scotland's route map for protecting and improving the water environment of the Scotland river basin district. 	<ul style="list-style-type: none"> To provide an understanding of the present condition of the Scotland River Basin District. 		The Dumfries & Galloway SMP will have consideration for the Plan and will seek to, where possible, protect and enhance the quality of the Scottish River Basin District.
Scottish Planning Policy 2014	<ul style="list-style-type: none"> A statement of Scottish Government policy of how nationally important land use planning matters should be addressed across the country. 	<ul style="list-style-type: none"> Sets out national planning policies which reflect Scottish Ministers' priorities for operation of the planning system and for the development and use of land. 	Town and Country Planning (Scottish) 1997 Act. National Planning Framework for Scotland.	The Dumfries & Galloway SMP will have regard for the principles of this policy document relating to climate changes and flood risk. It will seek to adhere to said principles to the greatest extent possible.
<i>Climatic Factors</i>				
Low Carbon Scotland: Meeting our Emissions Reduction Targets 2013 - 2027	<ul style="list-style-type: none"> Sets out how Scotland can deliver its statutory annual targets for reduction in greenhouse gas emissions for the period 2013 – 	<ul style="list-style-type: none"> Seeks to achieve the objectives of the Climate Change (Scotland) Act 2009 and related policies in a manner which is just and sustainable and which promotes 	Climate Change (Scotland) Act 2009.	The Dumfries & Galloway SMP will have regard for national and international objectives featured and referred to within this document. It will seek to

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Related Legislation or Plans	Relevance to the Strategy
	2027 set through the Climate Change (Scotland) Act 2009.	good governance and the responsible use of sound science.		contribute towards the achievements of these objectives; supporting, where possible, the measures which have been developed and set out within this document.
Scotland's Climate Change Adaptation Framework	<ul style="list-style-type: none"> Presents a national, co-ordinated approach to climate change; setting out the risks and opportunities associated with such. It further provides an overarching framework for the Sector Action Plans. 	<ul style="list-style-type: none"> Aims to lead planned adaptation across all sectors to increase the resilience of Scotland's communities, and the natural and economic systems on which they depend, to the impacts of climate change. 	Climate Change (Scotland) act 2009.	The Dumfries & Galloway SMP will have regard for the risks and opportunities addressed within this framework. It will seek, where possible, to contribute towards its objectives and those to which it refers.
Climate Change (Scotland) Act 2009	<ul style="list-style-type: none"> Establishes the statutory framework for greenhouse gas emissions reductions in Scotland. 	<ul style="list-style-type: none"> Seeks to reduce GHG emissions in Scotland by 42% by 2020 and 80% by 2050. 		The Dumfries & Galloway SMP will have regard to this climate change strategy to contribute towards the achievement of the objectives of the regulatory framework.
The Climate Change (Annual Targets) (Scotland) Order 2010	<ul style="list-style-type: none"> Sets the first batch of annual emissions reduction targets, for the period 2010-2022 	<ul style="list-style-type: none"> Sets the first batch of annual emissions reduction targets, for the period 2010-2022 	Climate Change (Scotland) Act 2009	The Dumfries & Galloway SMP will have regard to the targets outlined within this order and will remain conscientious of the need to limit the emission of CO ₂ with regard to the measures it proposes.

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Related Legislation or Plans	Relevance to the Strategy Plans
<i>Geology, Soils and Landuse</i>				
The Environmental Impact Assessment (Scotland) Regulations 1999	<ul style="list-style-type: none"> • Implements the requirements of the EIA Directive in Scotland, • Requires the assessment of the environmental effects of public and private projects which are likely to have significant effects on the environment. 	<ul style="list-style-type: none"> • All projects listed in Schedule 1 are considered as having significant effects on the environment and compulsorily require an EIA. • For projects listed in Schedule 2, a "screening procedure" is required to determine the effects of projects on the basis of thresholds/criteria or a case by case examination. The competent authority may give a decision on whether a project requires EIA. • Requirement for identification, description and assessment in an appropriate manner, in the light of each individual case, on the direct and indirect effects of a project on the following factors: human beings, fauna and flora, soil, water, air, climate and the landscape, material assets and the cultural heritage, the interaction between each factor. 	EIA Directive 2011 (and amendment 2014)	The Dumfries & Galloway SMP may need to have regard to the EIA regulations in relation to its proposed policies.
The Environmental Assessment (Scotland) Act 2005	<ul style="list-style-type: none"> • Implements the requirements of the SEA Directive in Scotland. 	<ul style="list-style-type: none"> • Requires an SEA for plans/programmes which are prepared for agriculture, forestry, 	SEA Directive 2001.	The Dumfries & Galloway SMP is required to have regard for the SEA Regulations.

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Related Legislation or Plans	Relevance to the Strategy
	<ul style="list-style-type: none"> Seeks to integrate environmental considerations into the preparation of plans and programmes as a means of ensuring a high level of protection for the environment whilst also promoting sustainable development. 	fisheries, energy, industry, transport, waste/ water management, telecommunications, tourism, town & country planning or land use and which set the framework for future development consent of projects listed in the EIA Directive		
The Scottish Soil Framework 2009	<ul style="list-style-type: none"> Sets out the vision for soil protection in Scotland. 	<ul style="list-style-type: none"> Seeks to promote the sustainable management and protection of soils consistent with the economic, social and environmental needs of Scotland. 	The EU's Seventh Environmental Action Programme.	The Dumfries & Galloway SMP will have regard for the implications of any proposed measures upon the soils within the Study Area. It will seek, where possible, to minimise any detrimental impact(s) which proposed measures may have upon soil quality.
The Land Reform (Scotland) Bill 2015	<ul style="list-style-type: none"> Seeks to enhance the relationship between the people of Scotland and the land by way of enhancing Scottish land rights. 	<ul style="list-style-type: none"> Requires the Scottish Government to publish a statement on land rights and responsibilities every five years. Established the Scottish Land Commission Aims to promote better collaboration and engagement between landowners and communities. 		The Dumfries & Galloway SMP will respect the land rights of the local community.

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Related Legislation or Plans	Relevance to the Strategy
Land Use Strategy 2016-2021	<ul style="list-style-type: none"> A strategic policy framework for land use. 	<ul style="list-style-type: none"> Land-based businesses working with nature to contribute more to Scotland's prosperity Responsible stewardship of Scotland's natural resources Urban and rural communities better connected to the land 	Climate Change (Scotland) Act 2009	The Dumfries & Galloway SMP will be developed in accordance with the objectives of this framework.
<i>Landscape and Visual Amenity</i>				
The Planning etc. (Scotland) Act 2006	<ul style="list-style-type: none"> Establishes the foundations for the National Planning Framework and Expands upon and amends existing planning legislation 	<ul style="list-style-type: none"> Provides for the designation of National Scenic Areas (NSAs) 	Town and Country Planning (Scotland) Act 1997	There are three NSAs within the Study Area (Fleet Valley, East Stewartry Coast and Nith Estuary). The Dumfries & Galloway SMP will have regard to these and will seek to minimise any such negative impacts which might occur as a result of the Dumfries & Galloway SMP.
<i>Material Assets and Infrastructure</i>				
The National Planning Framework	<ul style="list-style-type: none"> Sets the context for development planning in Scotland and provides a framework for the spatial development of Scotland as a whole. 	<ul style="list-style-type: none"> To support economic growth, regeneration and the creation of well-designed places To reduce carbon emissions and adapt to climate change 	The Town and County Planning (Scotland) Act 1997 The Planning etc. (Scotland) Act 2006	The Dumfries & Galloway SMP will have regard to the Framework and will seek to contribute towards the achievement of its objectives.

Directive/ Plan/Programme	High Level Description	Key Objectives, Actions etc.	Related Legislation or Plans	Relevance to the Strategy
		<ul style="list-style-type: none"> To protect and enhance Scotland's natural cultural assets 		
Planning Advice Notes and Circulars	<ul style="list-style-type: none"> PANS provide advice in relation to various subjects relating to planning. 	<ul style="list-style-type: none"> To provide guidance in relation to planning and environmental issues/subjects. 	Scottish Planning Policy.	The Dumfries & Galloway SMP will seek to adhere to the good practice guidelines set out within PANS and Circulars.
<i>Population and Human Health</i>				
Equally Well 2008	<ul style="list-style-type: none"> A public health strategy for Scotland with a focus on health inequalities. 	<ul style="list-style-type: none"> Aims to reduce people's exposure to factors in the physical and social environment that cause stress, damage health and wellbeing and lead to inequalities. 		The Dumfries & Galloway SMP will have regard for the health of the population; both locally and on a regional scale. It will seek, wherever possible, to improve the health of the population and reduce any associated inequalities.
Good Places, Better Health: A New Approach to Environment and Health in Scotland 2008	<ul style="list-style-type: none"> The Scottish Government's strategy on health and the environment. 	<ul style="list-style-type: none"> Aims to create environments free from significant hazards and to create positive physical environments which nurture better health and wellbeing. 	Equally Well	The Dumfries & Galloway SMP recognises the need to create safe and positive environments for health. It will endeavour to provide for such environments wherever possible.
<i>Cultural, Architectural and Archaeological Heritage</i>				

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Our Place in Time: The Historic Environment Strategy for Scotland 2014	<ul style="list-style-type: none"> Overarching strategy for the protection and promotion of the historic environment in Scotland. 	<ul style="list-style-type: none"> To provide ambition and direction for Scotland's historic environment. 		The Dumfries & Galloway SMP will seek to provide for the conservation of relevant historic environment assets and areas of cultural significance.
Historic Environment Scotland Policy Statement (June 2016)	<ul style="list-style-type: none"> Sets out how Historic Environment Scotland fulfils its regulatory and advisory roles and how it expects others to interpret and implement Scottish Planning and Policy. 	<ul style="list-style-type: none"> Highlights the necessity, and approach, of HES in relation to the preservation of Scotland's historic environment. Identifies principles of conservation of Scotland's historic environment. Emphasises the approach to be taken by relevant bodies with responsibilities for any aspect of the historic environment. 		The Dumfries & Galloway SMP will seek to provide for the conservation of relevant historic environment assets and areas of cultural significance in line with the advice given as part of this statement.

REGIONAL/SUB-REGIONAL

Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevance to the Strategy
Ayrshire Shoreline Management Plan 2018	<ul style="list-style-type: none"> Local Shoreline Management Plan for the North Ayrshire and South Ayrshire Council Areas. Covers the shoreline from the northern boundary of North Ayrshire to the southern limit of South Ayrshire at Galloway Burn. 	<ul style="list-style-type: none"> Aims to provide guidance to operating authorities and regulatory bodies as to future sustainable coastal flood and erosion risk management. 	The Dumfries & Galloway SMP will have regard to the objectives of this Plan. Potential for in-combination and cumulative impacts.
Dumfries & Galloway Council Local Development Plan 2 (2019)	<ul style="list-style-type: none"> Statutory document which provides detailed planning policies to ensure proper planning and sustainable development of area. Sets out objectives for future planning and development. 	<ul style="list-style-type: none"> Identifies issues of relevance to the area and outlines principles for future development of area. Is consistent with relevant Development Plans, Spatial Strategies and Planning Guidelines. 	The Dumfries & Galloway SMP will have regard to this Plan and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.
Draft Cumbria Coastal Strategy (due for completion March 2020)	<ul style="list-style-type: none"> Local Coastal Strategy for the Cumbria Council Area. 	<ul style="list-style-type: none"> The plan will evaluate and manage the risks related to coastal flooding and erosion along the Cumbrian coastline on a long-term scale. The Plan will build on existing proposals set out in the North-West England and North Wales SMP2, identifying potential future interventions required. 	The Dumfries & Galloway SMP will have regard to the objectives of this Plan. Potential for in-combination and cumulative impacts.
North-West England and North Wales Shoreline Management Plan 2 (SMP) 2010	<ul style="list-style-type: none"> Regional Shoreline Management Plan covering the coastline from the Great Orme in North Wales to the Scottish Border. 	<ul style="list-style-type: none"> Identifies the risks associated with erosion and flooding along the region's coastline. Provides a framework for medium to long term coastal erosion and flood risk planning. 	The Dumfries & Galloway SMP will have regard to the objectives of this Plan. Potential for in-combination and cumulative impacts.

Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevance to the Strategy
Flood Risk Management Strategy for Solway (SEPA 2015)	<ul style="list-style-type: none"> Scotland has been separated into 14 Local Plan Districts for flood risk management purposes. SEPA has collaboratively produced a Flood Risk Management Strategy for each Local Plan District. 	<ul style="list-style-type: none"> For priority areas within each district (called Potentially Vulnerable Areas) there is a description of the causes and consequences of flooding; the agreed goals or objectives of local flood risk management; and the specific actions that will deliver these actions over the short to long term. The Strategy describes an agreed ambition for managing flooding and the priority of actions to be taken forward to deliver this. 	The Dumfries & Galloway SMP will be developed in accordance with the objectives of this strategy. Sustainable, long term flood risk management and protection to people and property are core aims of the SMP.
Solway Local Flood Risk Management Plan (Dumfries & Galloway Council 2015)	<ul style="list-style-type: none"> Local Flood Risk Management Plan for the Solway Local Plan District. 	<ul style="list-style-type: none"> Presents actions to be taken to avoid and reduce the risk of flooding within 26 areas identified as being potentially vulnerable to flood risk across the Local Plan District. 	The Dumfries & Galloway SMP will be developed in accordance with the objectives of this Plan. Sustainable, long term flood risk management and protection to people and property are core aims of the SMP.
Dumfries & Galloway Local Biodiversity Action Plan (2009)	<ul style="list-style-type: none"> Aims to protect, conserve, enhance and restore biodiversity and ecosystem services across all spectrums. 	<ul style="list-style-type: none"> Outlines the status of biodiversity and identifies species of importance. Outlines objectives and targets to be met to maintain and improve biodiversity. Aims to increase awareness. 	The Dumfries & Galloway SMP will have regard to this Plan and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.
Dumfries Conservation Area Character Appraisal and Management Plan (2018)	<ul style="list-style-type: none"> Aims to highlight the importance of heritage at a strategic level. 	<ul style="list-style-type: none"> Manage and promote heritage as well as increase awareness. Aim to conserve and protect heritage. 	The Dumfries & Galloway SMP will have regard to this Plan and will (in combination with other users and bodies) cumulatively contribute

Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevance to the Strategy
			towards the achievement of its objectives.
Stranraer Conservation Area Character Appraisal and Management Plan (2018)	<ul style="list-style-type: none"> • Aims to highlight the importance of heritage at a strategic level. 	<ul style="list-style-type: none"> • Manage and promote heritage as well as increase awareness. • Aim to conserve and protect heritage. 	The Dumfries & Galloway SMP will have regard to this Plan and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.
Whithorn Conservation Area Character Appraisal and Management Plan (2018)	<ul style="list-style-type: none"> • Aims to highlight the importance of heritage at a strategic level. 	<ul style="list-style-type: none"> • Manage and promote heritage as well as increase awareness. • Aim to conserve and protect heritage. 	The Dumfries & Galloway SMP will have regard to this Plan and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.
Kirkcudbright Conservation Area Character Appraisal (2014)	<ul style="list-style-type: none"> • Aims to highlight the importance of heritage at a strategic level. 	<ul style="list-style-type: none"> • Manage and promote heritage as well as increase awareness. • Aim to conserve and protect heritage. 	The Dumfries & Galloway SMP will have regard to this Plan and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.
Gatehouse of Fleet Conservation Area Character Appraisal (2014)	<ul style="list-style-type: none"> • Aims to highlight the importance of heritage at a strategic level. 	<ul style="list-style-type: none"> • Manage and promote heritage as well as increase awareness. • Aim to conserve and protect heritage. 	The Dumfries & Galloway SMP will have regard to this Plan and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.

Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevance to the Strategy
Annan Conservation Area Character Appraisal (2014)	<ul style="list-style-type: none"> Aims to highlight the importance of heritage at a strategic level. 	<ul style="list-style-type: none"> Manage and promote heritage as well as increase awareness. Aim to conserve and protect heritage. 	The Dumfries & Galloway SMP will have regard to this Plan and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.
Crichton Conservation Area Character Appraisal (2016)	<ul style="list-style-type: none"> Aims to highlight the importance of heritage at a strategic level. 	<ul style="list-style-type: none"> Manage and promote heritage as well as increase awareness. Aim to conserve and protect heritage. 	The Dumfries & Galloway SMP will have regard to this Plan and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.
Caring for the Built Environment – Conservation Area Guidance, Dumfries & Galloway Council (2001)	<ul style="list-style-type: none"> Aims to highlight the importance of heritage at a strategic level. 	<ul style="list-style-type: none"> Manage and promote heritage as well as increase awareness. Aim to conserve and protect heritage. 	The Dumfries & Galloway SMP will have regard to this Plan and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.
Dumfries & Galloway Regional Tourism Strategy 2016-2020	<ul style="list-style-type: none"> Sets the regional strategy for tourism in the Dumfries & Galloway Council area. 	<ul style="list-style-type: none"> The strategy is based upon a partnership approach between public, private and community stakeholders to jointly influence, guide change and grow the value, volume and resilience of the tourism sector. An action and delivery plan accompanies this Strategy and is developed and refreshed annually with all partners. 	The Dumfries & Galloway SMP will have regard to this Strategy and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.

Plan/Programme	High Level Description	Key Objectives, Actions etc.	Relevance to the Strategy
Dumfries & Galloway Carbon Management Plan 2 and Climate Change Action Plan 2012	<ul style="list-style-type: none"> Aims to reduce the carbon footprint of Dumfries & Galloway Council, meeting national and international Climate Change duties and responsibilities. 	<ul style="list-style-type: none"> The Carbon Management Plan 2 (CMP2) sets out the key actions to enable Dumfries & Galloway Council to reduce their carbon footprint as a Council and meet emission reduction targets. 	The Dumfries & Galloway SMP will have regard to this Strategy and will (in combination with other users and bodies) cumulatively contribute towards the achievement of its objectives.