



## **Water Framework Directive Assessment**

### **Cornwall and Isles of Scilly SMP2**

Cornwall and Isles of Scilly SMP2 WFD Assessment	Final report	Last printed:	February 2011
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# Water Framework Directive Assessment Cornwall and Isles of Scilly SMP2

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## EXECUTIVE SUMMARY

The Water Framework Directive came into force in 2000 and is the most substantial piece of EU water legislation to date. The Directive will need to be taken into account in the planning of all new activities in the water environment including Shoreline Management Plans.

The methodology devised for this assessment follows the Guidance for the assessment of SMPs under the Directive has been developed by the Environment Agency. An initial screening of the Draft River Basin Management Plan has allowed the SMP2 policy development to be influenced by the RBMP and to consider opportunities for delivering mitigation measures for Heavily Modified Waterbodies.

All Transitional and Coastal Waterbodies and Groundwater Bodies in the Cornwall and Isles of Scilly SMP2 area were identified and assessed along with freshwater bodies that are within the Environment Agency's Tidal Flood Zone 3 (0.5% annual flood probability).

For all Transitional, Coastal and freshwater bodies in the SMP2 area, the hydromorphological parameters that could be changed by SMP policies, with potential impact on Biological Quality Elements, were identified. Groundwater bodies were also considered.

The suggested SMP2 policies were, for each policy unit, assessed against the Environmental Objectives. A summary of achievement (or otherwise) of the Environmental Objectives at the water body scale was completed.

There are 20 Coastal and Transitional Waterbodies, 88 River Waterbodies, 1 Lake and 10 Groundwater Bodies identified in the Cornwall and Isles of Scilly SMP2 area. There are no High Status Waterbodies in the area.

For many of the Cornwall and Isles of Scilly SMP2 Management Areas, it is considered unlikely that the proposed policies will affect the current or target Ecological Status (or Potential) of the relevant Water Framework Directive Waterbodies. For those Management Areas where the policies have the potential to impact, these impacts can either be avoided or mitigated by conditions or criteria applied to the actions that are required to implement those policies.

There are a number of heavily modified Waterbodies in the SMP2 area, although many such Coastal Waterbodies are designated for fisheries rather than urbanisation and coast protection. The only coastal waterbody that is heavily modified by coast protection works is Carrick Roads Outer. Relevant Heavily modified Transitional Waterbodies are the Hayle River and Looe River, with the former modified by coast protection, and Looe by flood defences. Fourteen River Waterbodies in the SMP2 are modified by urbanisation, with most also modified by flood protection.

There are limited opportunities in Carrick Roads Outer to reduce the level of coast protection due to the national and local significance of Falmouth and its Docks. Similarly there is no realistic options for the SMP to reduce flood defences at Looe.

However, at Hayle, Managed Realignment of the estuary and river from Griggs Causeway through towards St Erth is supported by the preferred policies. This will address one of the Mitigation Measures identified by the River Basin Management plan.

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For the Heavily Modified River Waterbodies, the principal impact the SMP can make is ensuring that no barriers to fish movement are introduced. Any further enhancements, such as to increase connectivity between floodplains and the channel, can only be considered at a scheme level. An example of this will be the River Fowey through Lostwithiel where the SMP supports setting back of defences to improve connectivity with the floodplain.

Therefore, Environmental Objectives WFD2 and 3 are considered to be met.

The SMP2 policies are unlikely to have any negative impacts on Groundwater Bodies. On the Isles of Scilly, where there is the strongest link between coast protection and saline intrusion, protection of community groundwater sources is an important driver for policy selection. As such, in the medium to longer term the SMP2 is likely to only have positive or neutral impacts on Groundwater Bodies. So Environmental Objective WFD4 is considered to be met.

## **1.0 INTRODUCTION**

### **1.1 Purpose of the Report**

The Water Framework Directive (referred to in this report as the Directive) came into force in 2000 and is the most substantial piece of EU water legislation to date. The Directive will need to be taken into account in the planning of all new activities in the water environment. Therefore, the Environment Agency (the competent authority in England and Wales responsible for delivering the Directive) has recommended that decisions setting policy, including large-scale plans such as Shoreline Management Plans (SMPs), take account of the requirements of the Directive.

The 'Water Framework Directive Guidance for the Assessment of SMPs' has recently been developed by the Environment Agency. The guidance describes the methodology for assessing the potential hydromorphological change and consequent ecological impact of SMP policies and ensuring that SMP policy setting takes account of the Directive.

This guidance can now be applied to the assessment of the Cornwall and Isles of Scilly SMP2 policy options in terms of the requirements of the Directive.

### **1.2 Background**

The EU Water Framework Directive was transposed into law in England and Wales by the Water Environment (Water Framework Directive) (England and Wales) Regulations 2003. The requirements of the Directive need to be considered at all stages of the river and coastal planning and development process. For the purposes of large-scale plans, such as SMPs, the consideration of the requirements of the Directive when setting and selecting policies must be necessarily high level but sets the framework for future delivery of smaller-scale strategies or schemes. The Directive requires that Environmental Objectives be set for all surface and ground waters in each EU member state. The default Environmental Objectives of relevance to the SMP2 are shown in Table 1.1.

Specific mitigation measures will be set for each River Basin District (RBD) to achieve the Environmental Objectives of the Directive. These measures are to mitigate impacts that have been or are being caused by human activity. In other words, measures to enhance and restore the quality of the existing environment. These mitigation measures will be delivered through the River Basin Management Plan (RBMP) process and listed in a Programme of Measures within the RBMP. The RBMPs have been consulted on and final plans were produced in December 2009.

**Table 1.1<sup>†</sup> Environmental Objectives<sup>#</sup> in the Directive**

Objective	Description
WFD1	No changes affecting high status sites.
WFD2	No changes that will cause failure to meet surface water Good Ecological Status/Potential or result in a deterioration of surface water Ecological Status/Potential
WFD3	No changes which will permanently prevent or compromise the environmental objectives being met in other water bodies.
WFD4	No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.

# Generic environmental objectives (based on Article 4.1 of the Water Framework Directive).

† From EA Guidance doc “Water Framework Directive: step by step process for assessing Shoreline Management Plans (OI 82\_09)”, 2009.

### 1.2.1 Preventing deterioration in Ecological Status or Potential

A default Objective in all water bodies is to prevent deterioration in either the Ecological Status or, for Heavily Modified Water Bodies (HMWB) or Artificial Water Bodies (AWB), the Ecological Potential of the water body. Any activity which has the potential to have an impact on ecology (as defined by the biological, physico-chemical and hydromorphological Quality Elements listed in Annex V of the Directive) will need consideration in terms of whether it could cause deterioration in the Ecological Status or Potential of a water body. It is, therefore, necessary to consider the possible changes associated to baseline policies for each water body within the SMP2 area so that a decision making audit is available should any later failure to meet the Environmental Objectives needs to be defended.

### 1.2.2 Achieving Objectives for EU protected sites

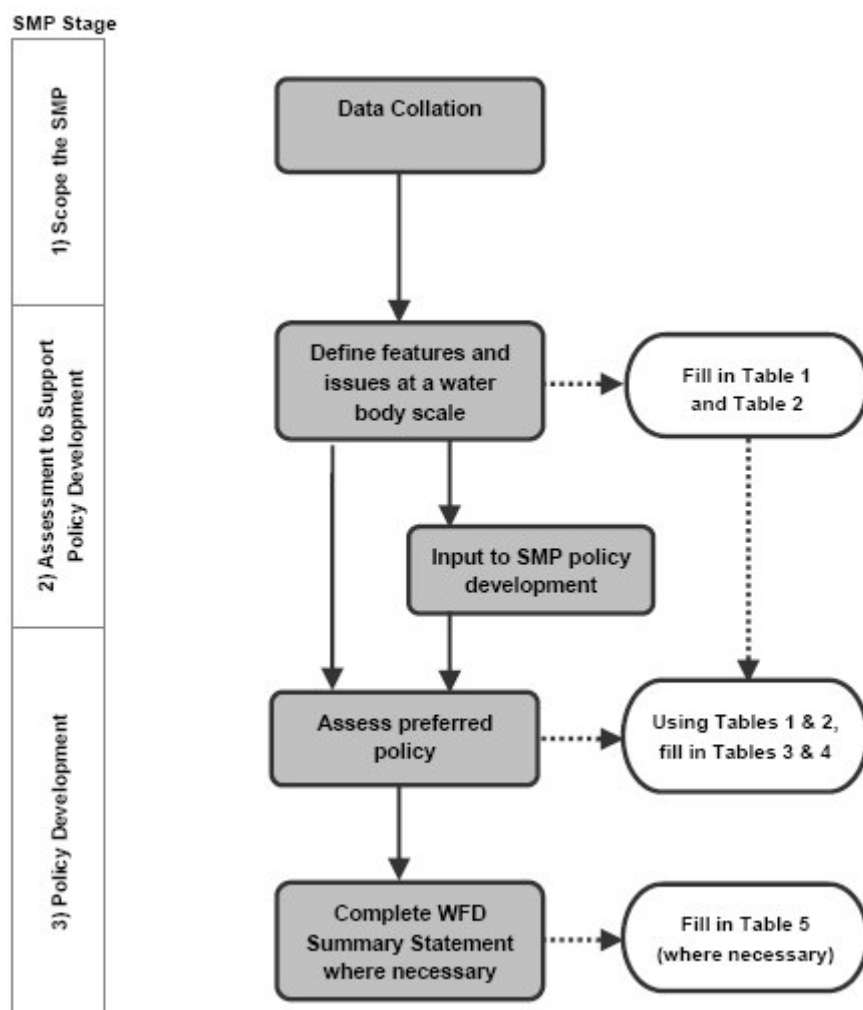
Where there are sites protected under EU legislation (e.g. the Birds or Habitats Directives, Shellfish Waters Directive), the Directive aims for compliance with any relevant standards or objectives for these sites. Therefore, where a site which is water dependent in some way is protected via designation under another EU Directive and the Good Ecological Status or Good Ecological Potential targets set under the Water Framework Directive would be insufficient to meet the objectives of the other relevant environmental Directive, the more stringent targets would apply.

## 2.0 ASSESSMENT METHODOLOGY

The methodology devised for this assessment follows the Guidance for the assessment of SMPs under the Water Framework Directive which has been developed by the Environment Agency.

An initial screening of the Draft River Basin Management Plan has allowed the SMP2 policy development to be influenced by the RBMP and to consider opportunities for delivering mitigation measures for Heavily Modified Waterbodies. Figure 2.1 shows the Water Framework Directive Process for SMPs.

**Figure 2.1. Water Framework Directive Assessment process for SMPs.**



## 2.1 Scoping the SMP2 – Data Collation

All the Transitional and Coastal water bodies present within the Cornwall and Isles of Scilly SMP2 area were identified, and all the landward freshwater water bodies that potentially could be influenced by SMP2 policies using our (Environment Agency) Tidal Flood Zone 2 maps were also identified.

For each of these water bodies' its WFD ID number, classification details (including Biological Quality Element (BQE) information and Artificial / Heavily Modified Water Body designation) and its environmental objectives was identified, as far as possible from the Draft River Basin Management Plan.

All the Groundwater bodies that could potentially be impacted by SMP policies were identified by reviewing the Water Framework Directive compliance mapping for groundwater risk and the Groundwater Bodies designated as being '**at risk**', '**probably at risk**' or at '**Poor Status**', with regard to saline intrusion, within the SMP2 area. Again for each waterbody its ID number, classification details (including Biological Quality Element information) and environmental objectives were identified.

The locations of groundwater abstractions with Source Protection Zones (SPZs) within the SMP2 area were also identified.

Any discrepancies between water body boundaries and SMP2 boundaries were examined and any locations where changes of the SMP2 boundary would be recommended to attain consistency with water body boundaries were identified for the next round of SMPs.

## 2.2 Defining Features and Issues

The next step was to identify the relationships between Biological Quality Elements and their physical dependencies for each of the Water Framework Directive Waterbodies.

The Water Framework Directive features which SMP2 policies may affect are the Biological Quality Elements of water bodies. The issues are the hydromorphological and physical parameters (upon which the BQEs are dependent) that could potentially be changed.

For all Transitional, Coastal and freshwater water bodies in the SMP2 area, the hydromorphological parameters that could be changed by potential SMP2 policies, with potential impact on the BQEs, were identified using Assessment Tables 1a, 1b 1c 1d and 1e.

The key features and issues identified in Assessment Tables 1a – 1e were then transferred into Assessment Table 2 and the water body classification and Environmental Objectives set out in Section 2.1 were used to populate the final column of Assessment Table 2.

## 2.3 Assess preferred SMP policies against WFD environmental objectives

The preferred SMP2 policies were, for each policy unit and for each time epoch (0-20, 20-50 and 50-100 years), confirmed and recorded in Table 3. The policies were then assessed against the Environmental Objectives (Table 1.1). Using the information provided in tables 1a – 1e and table 2, the potential impacts of the SMP2 policy for each Management Area was assessed against the Environmental Objectives.

The potential changes to the relevant physical and hydromorphological parameters were identified and noted.

The assessment of the SMP2 policies also considered potential for them to impact upon any landward freshwater bodies. These landward freshwater bodies could potentially be impacted where SMP policy for a policy unit is No Active Intervention (NAI) or Managed Realignment (MR), as these policies could result in saline inundation of a freshwater habitat.

Groundwater bodies were also considered as NAI and MR policies could result in the freshwater – saltwater interface moving landwards, which combined with abstraction pressures could result in saline intrusion and deterioration of the Groundwater body.

For Management Areas where the extent of the total catchment of the groundwater abstraction (identified by zone 3 of Source Protection Zone) extended to the coastline, it was considered that an SMP2 policy could potentially cause deterioration in the quality of the abstraction due to saline intrusion. Consideration was also given to Transitional and Coastal water bodies where SMP2 policies could lead to a deterioration in status or potential as a result of groundwater pollution.



Following the assessment of SMP policies for each Policy Unit, a summary of the achievement (or otherwise) of the environmental objectives at the water body scale was completed (Assessment Table 4). This table also considers the cumulative effect of SMP policies on each water body.

Where any environmental objectives have not be met for one or more Policy Units within a water body, then in order to document the justification behind the selection of the preferred SMP policy, a Water Framework Directive Summary Statement was completed for that Waterbody (Assessment Table 5).

If all the environmental objectives were met within a water body there was no requirement to complete a Summary Statement.

Any recommendations for local management options, further investigations or monitoring requirements that are made in the Water Framework Directive summary statement, should also be included in the action plan within the SMP report, together with any associated deadlines or suggested timescales.

### **3.0 RESULTS**

#### **3.1 Scoping the SMP2 – Data Collation**

##### **3.1.1 Transitional and Coastal water bodies**

There are some 20 Transitional and Coastal water bodies (Tables 1a & 1b) within the Cornwall and Isles of Scilly SMP2 area (Figure 3.1). Including 7 Transitional water bodies, 2 of which are designated as Heavily Modified and 5 which are not designated. There are 13 Coastal water bodies, 8 of which are designated as Heavily Modified, 5 which are not designated in the River Basin Management Plan.

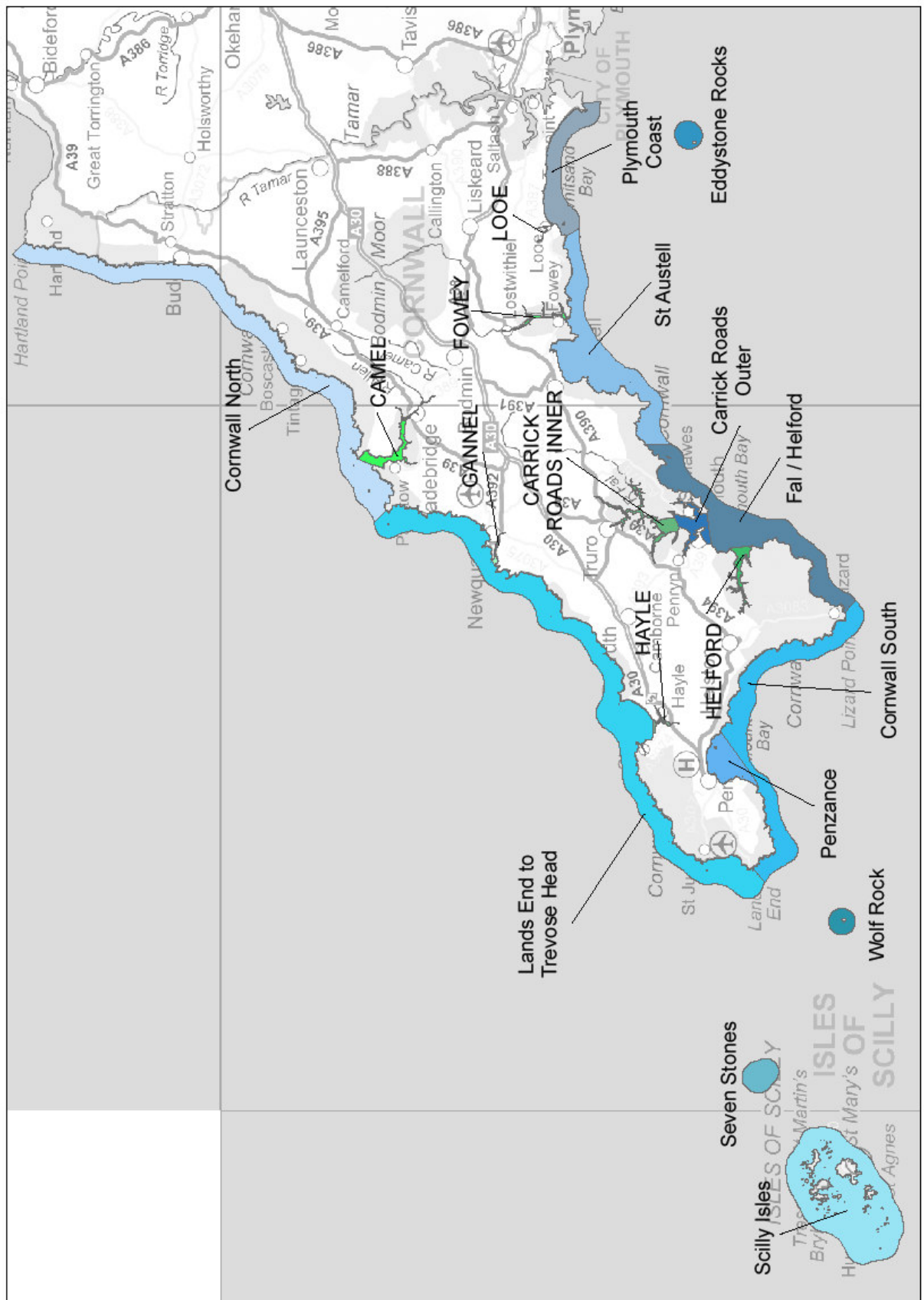
##### **3.1.2 Freshwater bodies**

There are 88 River water bodies identified (Table 1c) in the designated in the Cornwall and Isles of Scilly SMP2 area, 1 Lake waterbody (Table 1d). Of these, 15 River water bodies are designated as Heavily Modified and 73 are not designated under the River Basin Management Plan.

Relevant Freshwater bodies were identified as those that are within Tidal Flood Zone 2 and within the SMP2 area.

It should be noted that some River water bodies within the SMP2 area have been ruled out as they are either located on a section of coastline that is not connected to the tidal flood plain (e.g. cliffed section or steeply sloping channel), or they are protected by flood defences and dunes etc. There is little potential flood plain and landward recession of the mouths of these freshwater rivers and is not likely to impact them as water bodies.

**Figure 3.1 Transitional Coastal Waterbodies within the Cornwall and Isles of Scilly SMP2 Area**



### 3.1.3 Groundwater bodies

There are 10 Groundwater bodies identified (Table 1e, Figures 3.2, & 3.3) in the Cornwall and Isles of Scilly SMP2 area.

**Table 3.1 Groundwater Body Issues**

Groundwater Body	Issue
St Mary's GB40802G081200	Not at risk and at good status in terms of saline intrusion – no issues.
St Agnes GB40802G081300	Not at risk and at good status in terms of saline intrusion – no issues.
Bryher and Tresco GB40802G081700	Not at risk and at good status in terms of saline intrusion – no issues.
St Martin's GB40802G081800	Not at risk and at good status in terms of saline intrusion – no issues.
West Cornwall GB40802G800100	Not at risk and at good status in terms of saline intrusion – no issues.
South Cornwall GB40802G800200	Not at risk and at good status in terms of saline intrusion – no issues.
North Cornwall GB40802G800300	Not at risk and at good status in terms of saline intrusion – no issues.
Torrige and Hartland Streams GB40802G800600	Not at risk and at good status in terms of saline intrusion – no issues.
Looe and Fowey GB40802G806600	Not at risk and at good status in terms of saline intrusion – no issues
Tamar GB40802G806700	Not at risk and at good status in terms of saline intrusion – no issues.

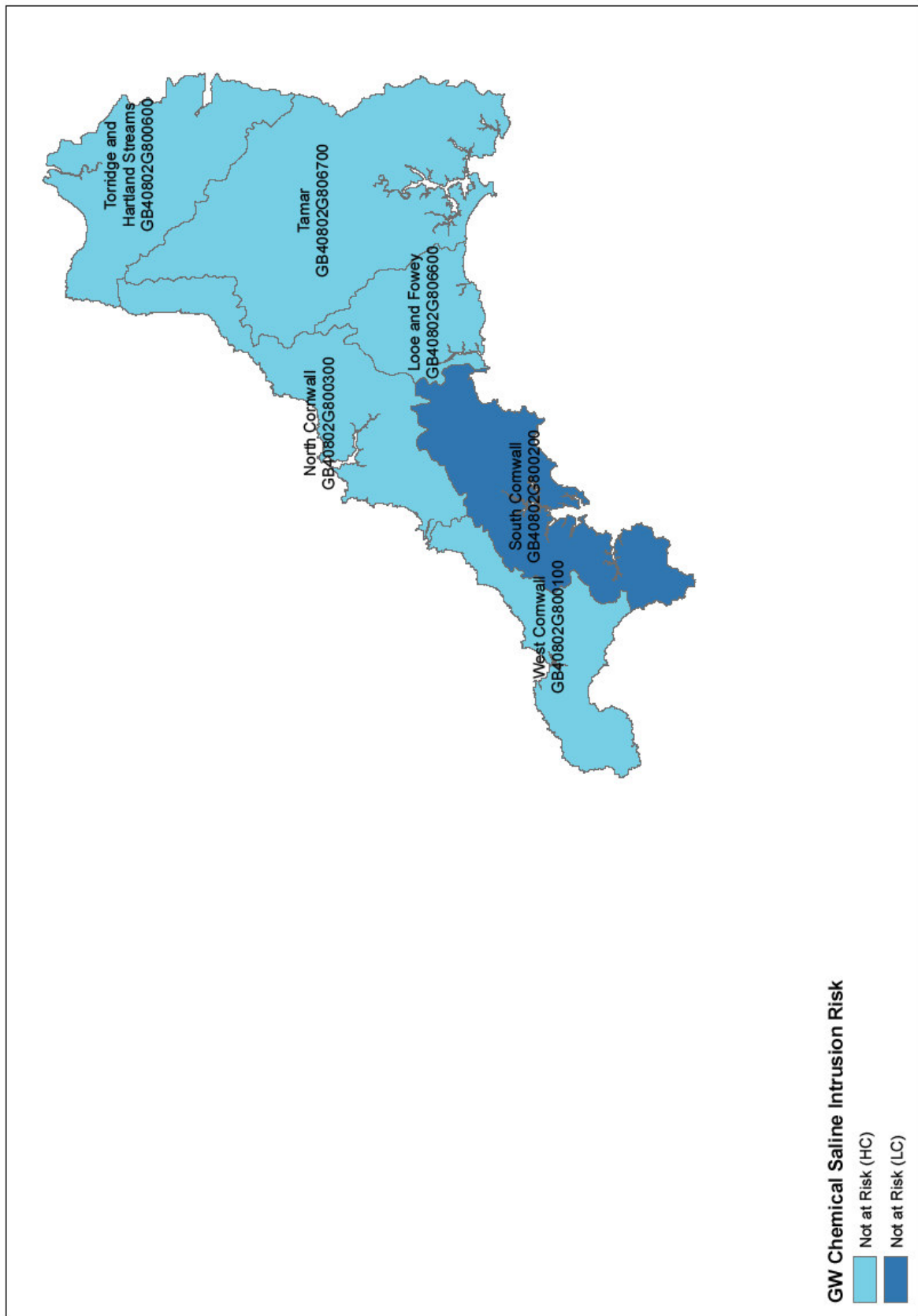
### 3.1.4 Source Protection Zones

The extent of the abstraction zones of the Groundwater bodies were identified through the use of Zone 3 of the Environment Agency's Source Protection Zones.

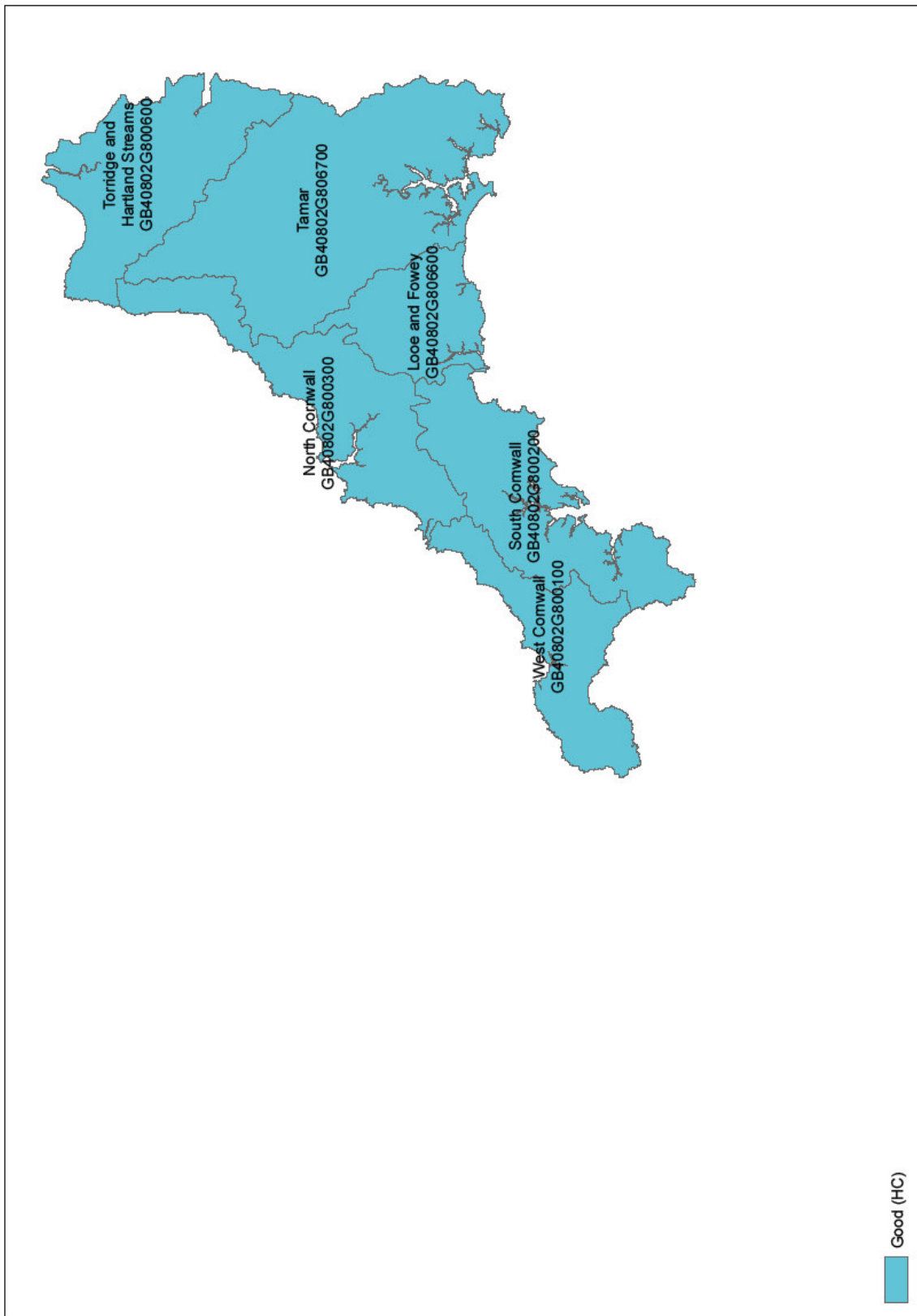
Where zone 3 of an abstraction extends as far as the coast the SMP2 policy could cause deterioration in the quality and quantity of the abstraction owing to saline intrusion.

There are no locations where Source Protection Zone 3 is near the coastline (figure 3.6), there are no issues regarding deterioration in quality of abstractions due to saline intrusions.

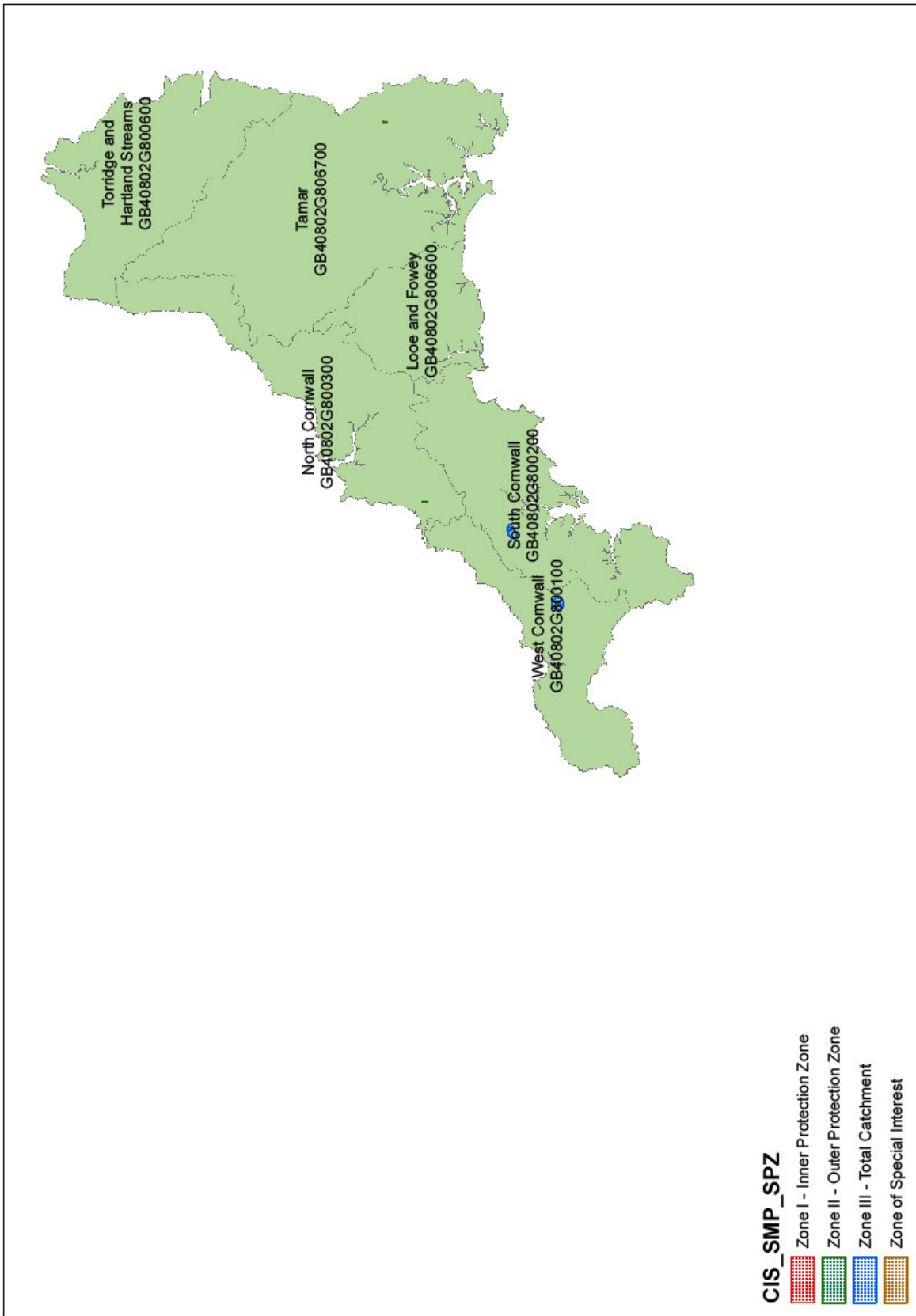
**Figure 3.2 Groundwater Body Chemical Risk within the Cornwall and Isles of Scilly SMP2 Area.**



**Figure 3.3 Groundwater Body Chemical Status within the Cornwall and Isles of Scilly SMP2 Area.**



**Figure 3.4 Groundwater Body Source Protection Zones within the Cornwall and Isles of Scilly SMP2 Area.**



### 3.1.4 Boundary Issues

There are several boundary issues within the Cornwall and Isles of Scilly SMP2 Area. The majority of the Transitional and Coastal waterbody boundaries are inconsistent with the SMP2 Management Area boundaries.

SMP2 and WFD Water body boundaries are consistent in the following areas:

The Lizard Point is both the boundary between SMP Management Areas 15 and 16, and between the South Cornwall and Fal/Helford Coastal Waterbodies.

Lands End is the boundary between SMP Management Areas 23 and 24, and the Cornwall South and Lands End to Trevoze coastal Waterbodies.

Trevoze Head is the boundary between SMP Management Areas 33 and 34, and Lands End to Trevoze Head and North Cornwall coastal Waterbodies.

Hartland Point is the northern boundary of the SMP and the North Cornwall coastal waterbody

Policy Development Zone 14 matches the coastal boundaries of the Camel transitional waterbody.

Policy Development Zone Scilly matches the Scilly Isles coastal water body.

Policy Unit 31.3 matches the boundaries of the Gannel transitional waterbody.

Although many of the SMP2 Management Area boundaries are inconsistent with water body boundaries they have been set on the basis of coastal processes and/or socioeconomic reasons and, hence, it is often not appropriate to adjust them. There are, however, a few locations where the changing the SMP boundary could be considered, in the future, to logically align with the WFD water bodies without affecting the SMP policy setting. Alternatively WFD water body boundaries may need to be revised to reflect the SMP analysis of boundaries between open coast and estuarine processes. These areas are:

SMP Management Area 27 Hayle Estuary has been extended in the final plan to include Porth Kidney Sands to match the Hayle transitional water body boundary.

Management Area 5 could be extended to the downstream limit of the Fowey transitional waterbody, or vice versa based on transition from open coast to estuarine process limits.

Carrick Roads Outer could be truncated to between Zone Point and Pendennis Point to match the coastal processes reflected in the SMP.

Carrick Roads Outer could extend to Turnaware Point, again to reflect open coast processes used in the SMP.



### 3.1.5 High Status water bodies.

There are no high status waterbodies in the Cornwall and Isles of Scilly SMP2 area.

## 3.2 Defining Features and Issues

For the Transitional and Coastal water bodies and the Freshwater Bodies in the Cornwall and Isles of Scilly SMP2 Area, the hydromorphological parameters that could potentially be affected by the SMP2 policies and the Biological Quality Elements that are dependent upon these are shown in Assessment Table 1. The key features and issues for each water body are then summarised in Assessment Table 2.

Of the River water bodies in the Cornwall and Isles of Scilly SMP2 area only those that are considered to be potentially affected by the SMP2 policies have been included in the Assessment Tables.

## 3.3 Assessment Against the Environmental Objectives

Assessment Table 3 is a more in depth assessment of the SMP2 policies and indicates whether there is potential for the Environmental Objectives to be compromised at a Management Area scale.

Assessment Table 4 assesses the potential failure of Environmental Objectives at the Water body scale.

This allows potential areas of concern to be highlighted and consequently track the decisions that have been made within the SMP2 to meet conditions required to defend any later failure.

## 4.0 CONCLUSIONS

For many of the Cornwall and Isles of Scilly SMP2 Management Areas, it is considered unlikely that the proposed policies will affect the current or target Ecological Status (or Potential) of the relevant Water Framework Directive Waterbodies. For those Management Areas where the policies have the potential to make an impact, these impacts can either be avoided or mitigated by conditions or criteria applied to any actions to implement those policies.

There are some 17 management areas where either managed realignment or hold the line policies could affect the outfalls of watercourses either to the open coast or to estuaries. Schemes or strategies to deliver these policies need to ensure that, as part of the works, barriers to fish movement are not introduced, and that where possible existing barriers are reduced. In none of the locations are there any apparent technical reasons why these schemes can not meet this criteria, and as such it is appropriate to include this as a constraint on any implementation action.

There are no High Status Waterbodies in the Cornwall and Isles of Scilly SMP2 area, so Environmental Objectives WFD1 is not applicable to this assessment.



There are a number of heavily modified Waterbodies in the SMP2 area, although many are designated for fisheries activities rather than urbanisation and coast protection. The only coastal waterbody that is heavily modified by coast protection works is Carrick Roads Outer. Relevant Heavily modified Transitional Waterbodies are the Hayle River and Looe River, with the former modified by coast protection, and Looe by flood defences. Fourteen River Waterbodies in the SMP2 are modified by urbanisation, with most also modified by flood protection.

There are limited opportunities in Carrick Roads Outer to reduce the level of coast protection due to the national and local significance of Falmouth and its Docks. Similarly there is no realistic options for the SMP to reduce flood defences at Looe.

However, at Hayle, Managed Realignment of the estuary and river from Griggs Causeway through towards St Erth is supported by the preferred policies and therefore will address one of the Mitigation Measures identified by the River Basin Management plan.

For the Heavily Modified River Waterbodies, the principal impact the SMP can make is ensuring that no barriers to fish movement are introduced; any further enhancements, such as to increase connectivity between floodplains and the channel, can only be proposed at a scheme level. An example of this will be the River Fowey through Lostwithiel where the SMP supports setting back of defences to improve connectivity with the floodplain.

The Environmental Objectives WFD2 and 3 are therefore considered to be met by the Cornwall and Isles of Scilly SMP2.

The SMP2 policies are unlikely to have any negative impacts on Groundwater Bodies. On the Isles of Scilly, where there is the strongest link between coast protection and saline intrusion, protection of community groundwater sources is an important driver for policy selection. As such, in the medium to long term, the SMP2 is likely to only have positive or neutral impacts on Groundwater Bodies. So Environmental Objective WFD4 is considered to be met.

There were four main recommendations to look into where the SMP boundaries or RBMP boundaries could be changed to match. SMP boundaries are based on coastal processes, and also social and economic reasons, so are realistically unlikely to change in most cases.

One change that has been made for the Final Plan has been to include Porth Kidney Sands within the SMP Management Area 27 - Hayle Estuary to match the Hayle transitional water body boundary.

The other changes to consider in the future are:-

- either to extend Management Area 5 to the downstream limit of the Fowey transitional waterbody, or to truncate the transitional waterbody boundary based on transition from open coast to estuarine process limits;
- Carrick Roads Outer could be truncated to between Zone Point and Pendennis Point to match the coastal processes reflected in the SMP;
- Carrick Roads Outer could extend to Turnaware Point, again to reflect open coast processes used in the SMP.

Assessment Table 1a – Biological indicators for coastal water bodies

Feature	Biological Quality Element	Phytoplankton				Macrophytes						Phytobenthos (diatoms only)	Macroalgae			Angiosperms				Benthic/macro invertebrate				Fish																									
		Residence time	Water depth	Thermal regime	Turbidity	Slope	Longitudinal position	Shoreline complexity or heterogeneity	Light quality and quantity (for macroalgae and bryophytes)	Episodicity of flows and inundation	Turbidity	Baseflow (in chalk streams)	Riparian shade and structure	Substrate conditions	No hydromorphological elements determined.	Episodicity (at low end of velocity spectrum)	Salinity	Abrasion (associated to velocity)	Inundations (tidal regime)	Sediment loading	Land elevation	Salinity	Abrasion (associated to velocity)	Beach water table (TWIC)	Light	Groundwater connectivity	Availability of leaf litter/organic debris	Connecting with riparian zone	Heterogeneity of habitat (substrate, provision of shelter)	Continuity for migration routes	Presence of macrophytes	Accessibility to nursery areas (elevation of saltmarsh, connectivity with shoreline/riparian zone)																	
		Water Body Type																																															
GB620806050000	Eddystone Rocks	Coastal	NO policy being applied																																														
GB620806060000	Wolf Rock	Coastal	NO policy being applied																																														
GB620806110001	St Austell	Coastal	X	X	X	X																																											
GB620806110003	Plymouth Coast	Coastal	X	X	X	X																																											
GB620806570000	Cornwall South	Coastal	X	X	X	X																																											
GB620807080000	Scilly Isles	Coastal	X	X	X	X																																											
GB620807090000	Seven Stones	Coastal	NO policy being applied																																														
GB620807100000	Pool of Bryher	Coastal	X	X	X	X																																											
GB650806250000	Carrick Roads Outer	Coastal	X	X	X	X																																											
GB650806330000	Fal / Helford	Coastal	X	X	X	X																																											
GB650806340000	Penzance	Coastal	X	X	X	X																																											
GB610807680001	Lands End to Trevoze Head	Coastal	X	X	X	X																																											
GB610807680002	Cornwall North	Coastal	X	X	X	X																																											

### Assessment Table 1b – Biological indicators for transitional water bodies

Feature	Biological Quality Element	Phytoplankton					Macrophytes					Phytobenthos (diatoms)	Macroalgae		Angiosperms				Benthic/macro invertebrate				Fish								
Issue	Potential for change in hydromorphological or physical parameter	Residence time																													
		Water depth																													
		Thermal regime																													
		Turbidity																													
		Longitudinal position																													
		Shoreline complexity or heterogeneity																													
		Light quality and quantity (for macroalgae and bryophytes)																													
		Episodicity of flows and inundation																													
		Turbidity																													
		Baseflow (in chalk streams)																													
Riparian shade and structure																															
Substrate conditions																															
<b>Water Body Type</b>																															
GB510804806400	FOWEY	Transitional	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
GB520804806300	LOOE	Transitional	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
GB520804809100	HELFORD	Transitional	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
GB520804814400	CARRICK ROADS INNER	Transitional	X	X	X	X								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
GB530804906600	CAMEL	Transitional	✓	✓	✓	✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
GB530804906700	HAYLE	Transitional	✓	✓	✓	✓								✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
GB540804906500	GANNEL	Transitional	✓	X	X	✓								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	✓		

Assessment Table 1c – Biological indicators for river water bodies

Feature	biological Quality Element	Phytoplankton	Macrophytes	(diatoms only)	benign/macro invertebrate	Fish
Issue	Potential for change in hydromorphological or physical parameter					
	<b>Water Body Type</b>					
GB108048001140	River Kennal	Turbidity		No hydromorphological elements determined.	Connectivity with riparian zone	Accessibility to nursery areas (connectivity with shoreline/riparian zone)
GB108048001420	FOWEY	Thermal regime			Availability of leaf litter/organic debris	Presence of macrophytes
GB108048001400	Lerrin River	Water depth			Groundwater connectivity	Substrate conditions
GB108048001850	SWANPOOL STREAM	Residence time			Light	Continuity for migration routes
GB108048001880	ARGYL STREAM				Beach water table (TraC)	Heterogeneity of habitat (substrate, provision of shelter)
GB108048002070	LARRIGAN RIVER					
GB108048002090	NEWLYN RIVER					
GB108048002230	St.Austell - Pentewan Stream					
GB108048002280	ST. AUSTELL RIVER					
GB108048002290	TYWARDREATH STREAM					
GB108048002330	ALLEN (FAL)					
GB108048002430	PENRYN RIVER					
GB108049000070	MENALHYL					
GB108049000520	ANGARRACK STREAM					
GB108049000690	PERRANPORTH STREAM					
GB108049006910	River Amble					
GB108049006990	Camel and Menalhyll (Tidal) Port Isaac					
GB108049007280	BUDE CANAL -River Meet					
GB108049007290	Strat and Neot' - Flesburg streams					
GB108048001160	CARMON RIVER					
GB108048001170	River Cober					
GB108048001180	Fal (Tidal), Tresillian, Tuero - Treworga					
GB108048001190	Fal (Tidal), Tresillian, Tuero - Penpol Creek					



Assessment Table 1c – Biological indicators for river water bodies, continued

Feature	Biological Quality Element	Phytoplankton			Macrophytes								Phytoplankton (diatoms only)	Benthic/macro invertebrate				Fish							
		Residence time	Water depth	Thermal regime	Turbidity	Slope	Longitudinal position	Shoreline complexity or heterogeneity	Light quality and quantity (for macroalgae and bryophytes)	Episodicity of flows and inundation	Turbidity	Baseflow (in chalk streams)	Riparian shade and structure	Substrate conditions	No hydromorphological elements determined.	Beach water table (TrAC)	Light	Groundwater connectivity	Availability of leaf litter/organic debris	Connectivity with riparian zone	Heterogeneity of habitat (substrate, provision of shelter)	Continuity for migration routes	Substrate conditions	Presence of macrophytes	Accessibility to nursery areas (connectivity with shoreline/riparian zone)
Issue	Potential for change in hydromorphological or physical parameter																								
	Water Body Type																								
GB108048001840	MAENPORTH STREAM	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048001860	GWEEK RIVER	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048001870	LESTRAINES RIVER - Helford	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048001890	Helford,Lizard,Carrick Roads - Percuil River SE	Canal	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002060	PORTHLEVEN STREAM	SSSI Ditch	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002080	CHYANDOUR BROOK	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002100	TREVAYLOR STREAM	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002110	MARAZION RIVER	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002140	CARNE STREAM - Pendower	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002180	St.Austell - West Portholland Stream	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002210	PORTHOLLAND STREAM	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002220	MEVAGISSEY STREAM	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002250	CAERHAYS STREAM	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002260	Par - Polmear Stream	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002320	River Seaton	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002340	KENWYN	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002350	TRESILLIAN RIVER	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002410	ROSEVEAR RIVER	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002420	TREWINCE STREAM - Port Navas	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002440	Helford,Lizard,Carrick Roads Pecuil River E	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002450	Helford,Lizard,Carrick Roads	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GB108048002460	MYLOR STREAM	River	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Assessment Table 1c – Biological indicators for river water bodies, continued

Feature	Biological Quality Element	Phytoplankton				Macrophytes							Phytoplankton (diatoms only)	Benthic/macro invertebrate				Fish							
		Residence time	Water depth	Thermal regime	Turbidity	Slope	Longitudinal position	Shoreline complexity or heterogeneity	Light quality and quantity (for macroalgae and bryophytes)	Episodicity of flows and inundation	Turbidity	Baselink (in chalk streams)		Riparian shade and structure	Substrate conditions	Beach water table (T <sub>rac</sub> )	Light	Groundwater connectivity	Availability of leaf litter/organic debris	Connectivity with riparian zone	Heterogeneity of habitat (substrate, provision of shelter)	Continuity for migration routes	Substrate conditions	Presence of macrophytes	Accessibility to nursery areas (connectivity with shoreline/riparian zone)
Issue	Potential for change in hydromorphological or physical parameter																								
	Water Body Type																								
GB108048002470	PERCUI RIVER	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108048002480	St.Austell - Portmellon	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108048002500	PENKEVIL STREAM	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108048002510	Tresillian River	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049000110	ISSEY STREAM	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049000120	PORTHCOTHAN STREAM	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049000130	POLMORLA STREAM	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049000190	CAMEL	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049000380	HAYLE	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049000450	NANCE STREAM (Lelant)	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049000460	Hayle Tidal, Lands End, St. Ives - Lelant Saltings	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049000560	ROSEWORTHY STREAM	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049000570	RED RIVER	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049000700	BOLINGEY STREAM	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049006890	Harlyn Water	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049006970	Camel and Menalhyll (Tidal) Polzeath	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049007020	Camel and Menalhyll (Tidal) - Port Quin	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049007170	VALENCY	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB108049007190	CRACKINGTON STREAM	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GB208049000000	PORTH STREAM	River	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Assessment Table 1d – Biological indicators for lake water bodies

Feature	Biological Quality Element	Phytoplankton		Macrophytes							Phytobenthos (diatoms only)	Macroalgae		Angiosperms				Benthic/macro invertebrate				Fish													
		Residence time	Water depth	Thermal regime	Turbidity	Slope	Longitudinal position	Shoreline complexity or heterogeneity	Light quality and quantity (for macroalgae and bryophytes)	Episodicity of flows and inundation	Turbidity	Baseflow (in chalk streams)	Riparian shade and structure	Substrate conditions	No hydromorphological elements determined.	Salinity	Episodicity (at low end of velocity spectrum)	Abrasion (associated to velocity)	Inundations (tidal regime)	Sediment loading	Land elevation	Salinity	Abrasion (associated to velocity)	Beach water table (Trac)	Light	Groundwater connectivity	Availability of leaf litter/organic debris	Connectivity with riparian zone	Heterogeneity of habitat (substrate, provision of shelter)	Continuity for migration routes	Substrate conditions	Presence of macrophytes	Accessibility to nursery areas (connectivity with shoreline/riparian)		
	Water Body Type																																		
GB30846556	The Loe	Lake	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>	>



**Assessment Table 2a – Features and Issues**

Feature		Issue	Water body classification and environmental objectives	Opportunity to deliver mitigation measures from the Programme of Measures and/or recommendations on preferred policy
Water body (including policy units affecting it)	Biological Quality Element	Potential for change in hydro-morphological or physical parameter		
Plymouth Coast (PU1.1 - PU3.8)	Phytoplankton	None	Classification: Good Environmental objectives: WFD2: No changes that will cause failure to meet surface water Good Ecological Status or Potential or result in a deterioration of surface water Ecological Status or Potential. WFD3: No changes which will permanently prevent or compromise the environmental objectives being met in other water bodies.	Avoid significant reduction in NAI
	Macroalgae	None		
	Angiosperms	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to riparian zone		
St Austell Coast (PU 4.1 - 45, PU 6.1 - 9.6)	Phytoplankton	None	Classification: Moderate (HMWB) Environmental objectives: WFD2 WFD3	Avoid significant reduction in NAI
	Macroalgae	None		
	Angiosperms	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to riparian zone and groundwater body		
Fal Helford Coast (PU 10.1 - 10.5, PU15.1 - 15.6)	Phytoplankton	None	Classification: Moderate (HMWB) Environmental objectives: WFD2 WFD3	Avoid significant reduction in NAI
	Macroalgae	None		
	Angiosperms	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to riparian zone and groundwater body		
Carrick Roads Outer (PU 11.1 - 11.10)	Phytoplankton	None	Classification: Moderate (HMWB) Environmental objectives: WFD2 WFD3	Avoid significant reduction in NAI
	Macroalgae	None		
	Angiosperms	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to riparian zone and groundwater body		
Cornwall South Coast (PU 16.1 - 18.4, PU 23.1 - 23.2)	Phytoplankton	None	Classification: Moderate (HMWB) Environmental objectives: WFD2 WFD3	Avoid significant reduction in NAI
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to riparian zone and groundwater body		
Penzance Coast (PU 19.1 - 23.1)	Phytoplankton	None	Classification: Moderate (HMWB) Environmental objectives: WFD2 WFD3	Avoid significant reduction in NAI
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to riparian zone and groundwater body		
Lands End to Trevoze Head Coast PU24.1 - 26.3, PU 28.1 - 33.7)	Phytoplankton	None	Classification: Moderate (HMWB) Environmental objectives: WFD2 WFD3	Avoid significant reduction in NAI
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to riparian zone and groundwater body		
Cornwall North Coast (PU34.1 - 34.4, PU 37.1 - 41.2)	Phytoplankton	None	Classification: Good Environmental objectives: WFD2 WFD3	Avoid significant reduction in NAI
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to riparian zone		
Scilly Isles Coast (PU42.1 - 46.14)	Phytoplankton	None	Classification: Good Environmental objectives: WFD2 WFD3	Avoid significant reduction in NAI
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to riparian zone		
Pool of Bryher Coast (PU45.1 - 45.13)	Phytoplankton	None	Classification: Good Environmental objectives: WFD2 WFD3	Avoid significant reduction in NAI
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to riparian zone		

**Assessment Table 2b – Features and Issues, continued**

Feature		Issue	Water body classification and environmental objectives	Opportunity to deliver mitigation measures from the Programme of Measures and/or recommendations on preferred policy
Water body (including policy units affecting it)	Biological Quality Element	Potential for change in hydro-morphological or physical parameter		
Looe Transitional (PU3.4 - 3.6)	Phytoplankton	None	Classification: Good (HMWB) Environmental objectives:	Avoid significant reduction in NAI and barriers to fish movement
	Macrophytes	None	<ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to groundwater, riparian zone.		
	Fish	Continuity of migration routes and accessibility to nursery areas		
Fowey Transitional (PU5.1 - 5.3)	Phytoplankton	None	Classification: Good Environmental objectives:	Avoid significant reduction in NAI
	Macrophytes	None	<ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to groundwater, riparian zone.		
	Fish	Continuity of migration routes and accessibility to nursery areas		
Carrick Roads Inner transitional (PU11.1, 11.4, 11.5, PU12.1 - 12.5)	Phytoplankton	None	Classification: Moderate Environmental objectives:	Avoid significant reduction in NAI, give direction on appropriate dredging and coastal squeeze pressure
	Macrophytes	None	<ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to groundwater, riparian zone and sediment loading.		
	Fish	Accessibility to nursery areas and continuity with riparian zone		
Helford Transitional (PU 14.1 - 14.9)	Phytoplankton	None	Classification: Moderate Environmental objectives:	Avoid significant reduction in NAI and barriers to fish movement
	Macrophytes	None	<ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impact on connectivity to groundwater, riparian zone.		
	Fish	Continuity of migration routes and accessibility to nursery areas		
Hayle transitional (PU 27.1 - 27.5)	Phytoplankton	Impact on residence time, thermal regime, turbidity	Classification: Moderate (HMWB) Environmental objectives:	Avoid AL, give direction on dredging and tidal FRM activities. Consider managed realignment of defences, Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone
	Macrophytes	None	<ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Impacts on episodicity, salinity, abrasion, inundation		
	Fish	Potential change of habitat range and connectivity, obstruction to migration routes		
Gannel transitional (PU 31.3)	Phytoplankton	Potential impacts on residence time, thermal regime, turbidity within estuary	Classification: Moderate Environmental objectives:	Avoid significant reduction in NAI, avoid or improve barriers to fish movement, support connectivity and habitat of riparian zone and floodplain
	Macrophytes	None	<ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Potential impacts on inundation times, connectivity and habitat of riparian zone		
	Fish	Potential change of habitat range and connectivity, obstruction to migration routes		
Camel transitional (PU 35.1 - 36.3)	Phytoplankton	potential changes to flow and sediment patterns	Classification: Moderate Environmental objectives:	Avoid significant reduction in NAI, give direction on dredging, support MR to improve floodplain connectivity, avoid barriers to fish movement
	Macrophytes	none	<ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impoundment and floodplain connectivity (and removal of), potential impact on connectivity to gw and riparian zone		
	Fish	potential barriers to fish & otter movement, loss of habitat		

**Assessment Table 2c – Features and Issues, continued**

Feature		Issue	Water body classification and environmental objectives	Opportunity to deliver mitigation measures from the Programme of Measures and/or recommendations on preferred policy
Water body (including policy units affecting it)	Biological Quality Element	Potential for change in hydro-morphological or physical parameter		
The Loe (PU 17.1 - 17.4)	Phytoplankton	Potential impacts on inundation times	Classification: Poor Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Give direction on impacts of climate change on Loe Bar position and saline intrusion
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	Connectivity and habitat of riparian zone, habitat range and connectivity		
	Fish	Potential impacts on connectivity and habitat of riparian zone, obstruction to migration routes		
River Seaton (PU2.3)	Phytoplankton	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
East Looe River, West Looe River (PU3.4 - 3.6)	Phytoplankton	None	Classification: Moderate; Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
Pont Pill (PU4.1)	Phytoplankton	None	Classification: Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	potential barriers to fish movement and loss of habitat range		
Fowey River (PU5.1, 5.3 and 5.4)	Phytoplankton	none	Classification: Moderate (HMWB) Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement. HMWB measures to consider: remove obsolete structures; increase in-channel morphological diversity; set-back embankments improve floodplain connectivity; retain marginal aquatic and riparian habitats; appropriate channel maintenance strategies and techniques
	Macrophytes	None		
	Phytobenthos (diatoms only)	none		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
Lerryn River (PU5.1)	Phytoplankton	None	Classification: Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	potential barriers to fish movement and loss of habitat range		
Par - Polmear Stream, Tywadreth Stream (and River Par) (PU6.3)	Phytoplankton	None	Classification: Good; Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		

**Assessment Table 2d – Features and Issues, continued**

Feature		Issue	Water body classification and environmental objectives	Opportunity to deliver mitigation measures from the Programme of Measures and/or recommendations on preferred policy
Water body (including policy units affecting it)	Biological Quality Element	Potential for change in hydro-morphological or physical parameter		
St Austell River, Pentewan Stream (PU8.2)	Phytoplankton	None	Classification: Moderate (HMWB); Moderate Environmental objectives:  ▪ WFD2 ▪ WFD3	Avoid significant reduction in NAI. Relevant HMWB mitigations measures:- remove obsolete structures; removal of hard bank reinforcement / revetment; improve floodplain connectivity; retain marginal aquatic and riparian habitats (channel alteration).
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
Mevagissey Stream (PU8.3)	Phytoplankton	None	Classification: Poor Environmental objectives:  ▪ WFD2 ▪ WFD3	Avoid barriers to fish movement
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
Portmellon Stream (PU8.4)	Phytoplankton	None	Classification: Good Environmental objectives:  ▪ WFD2 ▪ WFD3	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
Caerhays Stream (PU 9.3)	Phytoplankton	None	Classification: Moderate Environmental objectives:  ▪ WFD2 ▪ WFD3	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
Portholland (PU9.4)	Phytoplankton	None	Classification: Poor Environmental objectives:  ▪ WFD2 ▪ WFD3	Where possible support improved fish passage especially as part of any MR.
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
West Portholland Stream (PU9.5)	Phytoplankton	None	Classification: Moderate Environmental objectives:  ▪ WFD2 ▪ WFD3	Where possible support improved fish passage especially as part of any MR.
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
'Carne Stream' (PU 10.3)	Phytoplankton	None	Classification: Good Environmental objectives:  ▪ WFD2 ▪ WFD3	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
Percuil River (inc SE and E), Penpol Creek (PU11.1)	Phytoplankton	None	Classification: Good (inc SE and E); Moderate Environmental objectives:  ▪ WFD2 ▪ WFD3	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		

**Assessment Table 2e – Features and Issues, continued**

Feature		Issue	Water body classification and environmental objectives	Opportunity to deliver mitigation measures from the Programme of Measures and/or recommendations on preferred policy
Water body (including policy units affecting it)	Biological Quality Element	Potential for change in hydro-morphological or physical parameter		
Carnon River, Perranwell Stream, River Kenal (PU11.4)	Phytoplankton	None	Classification: Moderate; Bad; Moderate (HMWB) Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement. HMWB measures to consider: remove obsolete structures, removal of hard bank reinforcement / revetment, or replacement with soft engineering solution; preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone; retain marginal aquatic and riparian habitats.
	Macrophytes	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
Mylor Stream (PU11.5)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Penryn Stream, Argal Stream (PU11.7)	Macrophytes	None	Classification: Moderate (HMWB) Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Treworga, Trevaylor Stream, Penkevil Stream, Mether, Cowlands Creek (PU13.1)	Macrophytes	None	Classification: Good; Moderate; Moderate; Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Ruan River, Ruan River S (PU12.2)	Macrophytes	None	Classification: Moderate; Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Tresillian River (PU12.3)	Macrophytes	None	Classification: Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Rivers Allen, Kenwyn (PU12.4)	Macrophytes	None	Classification: Good; Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		

**Assessment Table 2f – Features and Issues, continued**

Feature		Issue	Water body classification and environmental objectives	Opportunity to deliver mitigation measures from the Programme of Measures and/or recommendations on preferred policy
Water body (including policy units affecting it)	Biological Quality Element	Potential for change in hydro-morphological or physical parameter		
River Tinney (PU12.5)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Swanpool (PU13.5)	Macrophytes	None	Classification: Moderate (HMWB) Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement. HMWB measures to consider: removal of hard bank reinforcement / revetment, or replacement with soft engineering solution; structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works; preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone; retain marginal aquatic and riparian habitats.
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Maenporth (PU13.6)	Macrophytes	None	Classification: Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Port Navas Stream, Manaccan River (PU14.1)	Macrophytes	None	Classification: Good; Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Mawnan Smith, Lestraines River, Constantine, Rosevear River, Mawgan, Trelowarren Stream, Frenchman's Creek, Manaccan E (PU14.1)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	Potential barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Trewince Stream (PU14.4)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Gweek E, River and W (PU14.5)	Macrophytes	None	Classification: Moderate, good, good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytoplankton	None		
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		

**Assessment Table 2g – Features and Issues, continued**

Feature		Issue	Water body classification and environmental objectives	Opportunity to deliver mitigation measures from the Programme of Measures and/or recommendations on preferred policy
Water body (including policy units affecting it)	Biological Quality Element	Potential for change in hydro-morphological or physical parameter		
Gweek E, River and W (PU14.5)	Macrophytes	None	Classification: Moderate, good, good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Helford (PU14.6)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, and avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
River Cober (PU17.3)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Portleven Stream (PU17.4)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Marazion River (PU19.5 - 20.1)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Trevaylor Stream, Chyandour Stream (PU20.2)	Macrophytes	None	Classification: Moderate; Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Larrigan River (PU21.3)	Macrophytes	None	Classification: Moderate (HMWB) Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	HMWB measures to consider (especially as part of any MR): removal of hard bank reinforcement, or replacement with soft engineering solution; increase in-channel morphological diversity; re-opening existing culverts; structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works; preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone; operational and structural changes to weirs, beach control, etc.; retain marginal aquatic and riparian habitats.
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	Potential barriers to fish movement and loss of habitat range		
	Phytoplankton	None		



**Assessment Table 2h – Features and Issues, continued**

Feature		Issue	Water body classification and environmental objectives	Opportunity to deliver mitigation measures from the Programme of Measures and/or recommendations on preferred policy
Water body (including policy units affecting it)	Biological Quality Element	Potential for change in hydro-morphological or physical parameter		
Newlyn River (PU21.4)	Macrophytes	None	Classification: Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Lelant Saltings, Nance Stream (PU27.2)	Macrophytes	None	Classification: Moderate; Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Hayle River (PU27.3)	Macrophytes	None	Classification: Poor Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Angarrack Stream (PU27.4)	Macrophytes	None	Classification: Moderate (HMWB) Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement. HMWB measures to consider: preserve and, where possible, restore historic aquatic habitats ; preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone; retain marginal aquatic and riparian habitats.
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Red River (PU28.3)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Perranporth Stream, Bolingey Stream (PU 30.1)	Macrophytes	None	Classification: Moderate (HMWB); Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement, especially as part of any MR. HMWB measures to consider include: removal of hard bank reinforcement / revetment, or replacement with soft engineering solution; where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone.
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Porth Stream (PU32.4)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Menahyl (PU33.3)	Macrophytes	None	Classification: Moderate (HMWB) Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		



**Assessment Table 2i – Features and Issues, continued**

Feature		Issue	Water body classification and environmental objectives	Opportunity to deliver mitigation measures from the Programme of Measures and/or recommendations on preferred policy
Water body (including policy units affecting it)	Biological Quality Element	Potential for change in hydro-morphological or physical parameter		
Porthcothan Stream (PU33.5)	Macrophytes	None	Classification: Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Harlyn Water (PU34.2)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement, especially as part of any MR
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Issey Stream (PU35.4)	Macrophytes	None	Classification: Poor Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Polmorla Stream (PU35.5)	Macrophytes	None	Classification: Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid barriers to fish movement
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
River Amble (35.8)	Macrophytes	None	Classification: Moderate (HMWB) Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	As part of any MR, where possible, increase in-channel morphological diversity; improve fish access to waters upstream and downstream of the impounding works, retain marginal aquatic and riparian habitats (through channel alteration)
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Polzeath (PU36.2)	Macrophytes	None	Classification: Moderate Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, avoid obstructing fish migration for any MR
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Port Quin (PU 37.2)	Macrophytes	None	Classification: Good Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, avoid obstructing fish migration for any MR
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		
Bude Canal (Neet) (PU40.3)	Macrophytes	None	Classification: Moderate (HMWB) Environmental objectives: <ul style="list-style-type: none"> <li>▪ WFD2</li> <li>▪ WFD3</li> </ul>	Avoid significant reduction in NAI, where possible consider options to:- increase in-channel morphological diversity; ensure fish access to waters upstream; enhance ecological value of marginal aquatic habitat, banks and riparian zone; operational and structural changes to locks, sluices, weirs, beach control, etc; retain marginal aquatic and riparian habitats (for any channel alteration)
	Phytobenthos (diatoms only)	None		
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials		
	Fish	barriers to fish movement and loss of habitat range		
	Phytoplankton	None		

**Assessment Table 2j – Features and Issues, continued**

Feature		Issue		Water body classification and environmental objectives	Opportunity to deliver mitigation measures from the Programme of Measures and/or recommendations on preferred policy
Water body (including policy units affecting it)	Biological Quality Element	Potential for change in hydro-morphological or physical parameter			
'Strat and Neet' - Crooklets Stream (PU40.4)	Phytoplankton	None		Classification: Moderate (HMWB) Environmental objectives:  ▪ WFD2 ▪ WFD3	Avoid obstructions to fish migration
	Macrophytes	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	potential impact on connectivity to gw and riparian zone, shading and plant materials			
	Fish	barriers to fish movement and loss of habitat range			
Tamar (GW) (PU1.1 - 1.2)	Phytoplankton	None		Classification: Poor Environmental objectives:  ▪ WFD4: No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.	No significant influence
	Macrophytes	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	None			
	Fish	None			
Looe and Fowey (GW) (PU2.1 - 5.3)	Phytoplankton	None		Classification: Poor Environmental objectives:  ▪ WFD4: No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.	No significant influence
	Macrophytes	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	None			
	Fish	None			
South Cornwall (GW) (PU6.1 - 16.5)	Phytoplankton	None		Classification: Poor Environmental objectives:  ▪ WFD4: No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.	No significant influence
	Macrophytes	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	None			
	Fish	None			
West Cornwall (GW) (PU17.1 - 30.4)	Macrophytes	None		Classification: Poor Environmental objectives:  ▪ WFD4: No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.	No significant influence
	Phytoplankton	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	None			
	Fish	None			
North Cornwall (GW) (PU31.1 - 40.4)	Macrophytes	None		Classification: Poor Environmental objectives:  ▪ WFD4: No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.	No significant influence
	Phytoplankton	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	None			
	Fish	None			
Hartland and Torridge (GW) (PU41.1 - 41.2)	Macrophytes	None		Classification: Good Environmental objectives:  ▪ WFD4: No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.	No significant influence
	Phytoplankton	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	None			
	Fish	None			
St Mary's (GW) (PU42.1 - 42.21)	Macrophytes	None		Classification: Good Environmental objectives:  ▪ WFD4: No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.	Avoid increasing risks of saline intrusion
	Phytoplankton	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	None			
	Fish	None			
St Martins (GW) (PU43.1 - 43.4)	Macrophytes	None		Classification: Good Environmental objectives:  ▪ WFD4: No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.	Avoid increasing risks of saline intrusion
	Phytoplankton	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	None			
	Fish	None			
Bryher and Tresco (GW) (PU45.1 - 45.13)	Macrophytes	None		Classification: Good Environmental objectives:  ▪ WFD4: No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.	Avoid increasing risks of saline intrusion
	Phytoplankton	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	None			
	Fish	None			
St Agnes (GW) (PU46.1 - 46.14)	Macrophytes	None		Classification: Good Environmental objectives:  ▪ WFD4: No changes that will cause failure to meet good groundwater status or result in a deterioration groundwater status.	Avoid increasing risks of saline intrusion
	Phytoplankton	None			
	Phytobenthos (diatoms only)	None			
	Benthic/Macro invertebrates	None			
	Fish	None			

**Assessment Table 3a – Assessment of SMP policy against environmental objective**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		VFD 1	VFD 2	VFD 3	VFD 4
Plymouth Coast, Tamar (G'w)	MA01 Whitsand Bay to Downderry	1.1	Undefended cliffs & beach	Do Nothing	NAI	NAI	NAI	Neutral or minor positive impacts to the coastal waterbody. The management intent is to maintain the natural amenity value of the area and allow natural processes, which sustains community identity and commercial viability of the area and recognises the tourist and recreation importance of the area.	N/A	✓	✓	N/A
		1.2	Portwrinkle	Hold the line	HTL	MR	MR					
Plymouth Coast; River Seaton, Looe and Fowey (G'w)	MA02 Downderry & Seaton	2.1	Downderry East	Do Nothing	NAI	NAI	NAI	Neutral or minor positive impacts on the coastal waterbody. Any MR of the road at Seaton must avoid introducing barriers to fish movement. The management intent is to maintain the natural amenity value of the area and allow natural processes, which sustains community identity and commercial viability of the area and recognises the tourist and recreation importance of the area. Management which recognises the need for adaptation of the shoreline communities at Seaton and Downderry is also important	N/A	✓	✓	✓
		2.2	Downderry West	Hold the line	HTL	MR	MR					
		2.3	Seaton Beach	Hold the line	MR	NAI	NAI					
Plymouth Coast, St Austell, Looe (trans), East Looe River, West Looe River, Looe and Fowey (G'w)	MA03 Seaton to Pencarrow Head	3.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Neutral or long term minor positive impacts on the coastal waterbodies. No barriers to fish movement introduced. The management intent is to maintain the natural amenity value of the area and allow natural processes, which sustains community identity and commercial viability of the area and recognises the tourist and recreation importance of the area.	N/A	✓	✓	✓
		3.2	Millendreath	Hold the line	NAI	NAI	NAI					
		3.3	Plaidy	Hold the line	HTL	NAI	NAI					
		3.4	East Looe	Hold the line	HTL	HTL	HTL					
		3.5	Upper Looe River	Not previously considered	NAI	NAI	NAI					
		3.6	West Looe & Hannafore	Hold the line	HTL	MR	NAI					
		3.7	Talland	Hold the line	NAI	NAI	NAI					
		3.8	Polperro	Hold the line	HTL	HTL	HTL					
St Austell, Fowey (trans), Pont Pill, Fowey River, Looe and Fowey (G'w)	MA04 Pencarrow Head to Gribbin Head	4.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Coastal waterbody unaffected. Avoids introducing impacts to transitional waterbodies. No obstructions to migration routes introduced. The overarching management principle is to maintain the natural amenity value of the area and allow natural processes, which sustains community identity and commercial viability and recognises the tourist and recreation importance of the area.	N/A	✓	✓	✓
		4.2	Polruan	Hold the line	HTL	HTL	HTL					
		4.3	Fowey (defended)	Hold the line	HTL	HTL	HTL					

**Assessment Table 3b – Assessment of SMP policy against environmental objective, continued**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		WFD 1	WFD 2	WFD 3	WFD 4
Fowey (trans), Fowey River, Lerryn River, Looe and Fowey (GW)	MA05 Fowey Estuary (above Boddinick) including tributaries	5.1	Undefended intertidal areas	Not previously considered	NAI	NAI	NAI	Supports improvements on floodplain connectivity on River Fowey; no obstructions to migration routes introduced. Fowey River HMWB mitigation measures should be considered, especially as part of any HTL or MR scheme at Lostwithiel, such as setting-back embankments to improve floodplain connectivity and increasing in-channel morphological diversity. The overarching management principle is to maintain the natural amenity value of the area and allow natural processes, which sustains community identity and commercial viability and recognizes the tourist and recreation importance of the area.	N/A	✓	✓	✓
		5.2	Lerryn	Not previously considered	HTL	HTL	HTL					
		5.3	Golant	Not previously considered	NAI	NAI	NAI					
		5.4	Lostwithiel	Not previously considered	HTL/MR	HTL/MR	HTL/MR					
St Austell, Par - Polmear Stream, Tywodreth Stream (and River Par), South Cornwall (GW)	MA06 Gribbin Head to Par Docks	6.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Minor positive impacts on the coastal waterbody. MR at Par Sands aims to protect dune system, but must avoid introducing barriers to fish movement. The overarching management principle is to promote shoreline management which maintains the natural amenity value and landscape designations. This should take account of the tourist and recreational importance of the area and the need for natural evolution of the coast where possible.	N/A	✓	✓	✓
		6.2	Polkerris	Hold the line	MR/HTL	MR/HTL	MR/HTL					
		6.3	Par Sands (includes Par and St Elazey)	Do nothing	NAI	MR	MR					
		6.4	Par Docks	Hold the line	MR	NAI	NAI					
St Austell, South Cornwall (GW)	MA07 Par Docks to Black Head	7.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Minor positive impacts to the coastal waterbody long term. The overarching management principle is to promote shoreline management which maintains the natural amenity value and landscape designations. This should take account of the tourist and recreational importance of the area (including the historic harbour at Charlestown) and the need for natural evolution of the coast where possible.	N/A	✓	✓	✓
		7.2	Carlyon Bay	Do nothing	NAI	NAI	NAI					
		7.3	Charlestown Harbour; west beach	Hold the line	HTL/MR	HTL/MR	HTL/MR					
		7.4	Duporth	Do nothing	NAI	NAI	NAI					
		7.5	Porthpean	Hold the line	MR	MR	NAI					
St Austell, Pentewan Stream, St Austell River, Mevagissey Stream, Portmellon, South Cornwall (GW)	MA08 Black Head to Dodman Point	8.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Potential minor positive impacts through dune enhancement at Pentewan, and MR at Portmellon. Any MR or HTL scheme must ensure that no barriers to fish movement are introduced. HMWB mitigation measures for the St Austell River, such as removing obsolete structures, and increasing in-channel morphological diversity, principally relate to upstream of SMP boundary, but MR will support this. The management intent is to retain the character and attraction of locations such as Mevagissey but to allow remaining commercial activities to function efficiently. An important management intent is to support the adaptation of communities to coastal change. Continued maintenance of access links (roads and pathways) will be important. Policy to establish a more sustainable long-term shoreline position for the pocket beaches and coves is also an important aspect of management intent within this area.	N/A	✓	✓	✓
		8.2	Pentewan Harbour & Village	Do nothing; retreat the line	MR	MR	HTL					
		8.3	Pentewan Beach	Hold the line	NAI	MR	NAI/ HTL					
		8.4	Mevagissey	Hold the line	HTL/MR	HTL/MR	HTL					
		8.5	Portmellon	Hold the line	HTL	MR	MR					
		8.6	Gorran Haven	Hold the line	HTL	HTL	MR					

**Assessment Table 3c – Assessment of SMP policy against environmental objective, continued**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		WFD 1	WFD 2	WFD 3	WFD 4
St Austell, Fal/Helford, Caerhays Stream, Portholland, West Portholland Stream, South Cornwall (GW)	MA09 Vergan Bay	9.1	Undefended Cliffs	Do nothing	NAI	NAI	NAI	Very minor positive impact at Hemmick; long term minor positive impact at Porthluney through enhanced sand dunes. Any MR or HTL scheme must ensure that no barriers to fish movement are introduced.  The management intent is to retain the character and attraction of locations but to allow the remaining commercial activities to function efficiently. An important management intent is to support the adaptation of communities to coastal change. Continued maintenance of access links (roads and pathways) will be important. Policy to establish a more sustainable long-term shoreline position for the pocket beaches and coves is also an important aspect of management intent within this area.	N/A	✓	✓	✓
		9.2	Hemmick Beach	Not previously considered	MR	NAI	NAI					
		9.3	Porthluney Cove	Do nothing	NAI	MR	MR					
		9.4	East Portholland	Hold the line	HTL	MR	MR					
		9.5	West Portholland	Hold the line	NAI	NAI	NAI					
		9.6	Portloe	Hold the line	HTL	HTL	HTL					
Fal/Helford, Carne Stream (Pendower), South Cornwall (GW)	MA10 Gerrans Bay	10.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Very minor positive impacts to the coastal waterbody; no barriers to fish movement are introduced.  The management intent is to retain the character and attraction of locations but also to allow the remaining commercial activities to function efficiently. An important aspect of the management intent would be to support the adaptation of communities to coastal change. Continued maintenance of access links (roads and pathways) will be important. Policy to establish a more sustainable long-term shoreline position for the pocket beaches and coves is also an important aspect of management intent within this area.	N/A	✓	✓	✓
		10.2	East Pendower	Hold the line	MR	NAI	NAI					
		10.3	West Pendower	Do nothing	NAI	NAI	NAI					
		10.4	Portscatho	Hold the line (do nothing for undefended cliff)	HTL	HTL	HTL					
Carrick Roads Outer, Carrick Roads Inner, [HLC] Percuil River SE, [HLC] Percuil River E, Percuil River, [FTT] Penpol Creek, [Perranwell Stream] Cannon River, Perranwell Stream, River Kenal, Mylor Stream, Penryn Stream, Argal Stream, South Cornwall (GW)	MA11 Lower Fal	11.1	Undefended estuary	Do nothing	NAI	NAI	NAI	Minor positive impacts to transitional and coastal waterbodies. MR at Penryn and Perranworthal introduce scope to mitigate coastal squeeze at head of estuaries, but upstream of SAC. MR at Penryn, and possibly Flushing represent the only options to provide HMWB mitigation measures for Carrick Roads Outer due to significance of port operations, and importance of retail frontage at Falmouth. No barriers to fish movement are introduced. The shoreline is only to be defended where properties and infrastructure are currently at risk. Natural processes are to be unconstrained across the majority of the management area.	N/A	✓	✓	✓
		11.2	St Mawes	Hold the line (selective)	HTL	HTL	HTL					
		11.3	St Just-in- Roseland	Hold the line	HTL	HTL	HTL					
		11.4	Restronguet Passage	Not previously considered	NAI	NAI	NAI					
		11.5	Devoran/ Perranworthal	Hold the line	NAI/ MR	NAI/ MR	NAI/ MR					
		11.6	Mylor Quay	Hold the line	HTL	HTL/ MR	HTL/ MR					
		11.7	Mylor Bridge	Not considered in SMP1	NAI	NAI	NAI					
		11.8	Flushing	Not fully considered	HTL	MR	MR					
		11.9	Penryn	Not previously considered	HTL	MR	MR					
		11.10	Pendennis Point	Do nothing	NAI	NAI	NAI					

**Assessment Table 3d – Assessment of SMP policy against environmental objective, continued**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		WFD 1	WFD 2	WFD 3	WFD 4
Carrick Roads Inner, [FTT] Trewoaga, [FTT] Ruan River S, Ruan River, River Fal, Penkevil Stream, [FTT] Mether, Tresillian River, Trevells Stream - Pencalanick, Allen, Kenwyn, River Tinnay, [FTT] Cowlands Creek, South Cornwall (GW)	MA12 Upper Fal	12.1	Undefended Estuary	Not previously considered	NAI	NAI	NAI	MR mitigates impacts of coastal squeeze and will support improved connectivity to the floodplain especially at Tresillian and possibly Boscowen Park. Realignment schemes or strategies at Truro, Calenick and Tresillian must avoid introducing barriers to fish movement, and must have no adverse impact on the integrity of the SAC.	N/A	✓	✓	✓
		12.2	Ruanlanior-ne	Not previously considered	NAI	NAI	NAI					
		12.3	Tresillian	Not previously considered	HTL	HTL/ MR	HTL/ MR					
		12.4	Truro - Upper Basin	Not previously considered	HTL/ MR	HTL/ MR	HTL/ MR					
		12.5	Calenick Creek	Not previously considered	MR	MR	MR					
Carrick Roads Outer, Fal / Helford, Swanpool Stream, Maenporth Stream, South Cornwall (GW)	MA13 Pendennis Point to Rosemullion Head	13.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Neutral to minor positive impacts on coastal waterbodies, policy unit is predominantly undefended cliffs. Managed Realignment opportunities at Swanpool and Maenporth are to be reviewed in the short term, this review should ensure that no barriers to fish movement are introduced and where possible existing barriers are improved or removed. These works are only due to be carried out in the medium to long term.	N/A	✓	✓	✓
		13.3	Castle Beach and Gullingvase	Hold the line	HTL	HTL	HTL					
		13.4	Swanpool Beach	Hold the line	HTL	MR	MR					
		13.5	Maenporth	Hold the line	HTL	MR	MR					
Helford, HLC Mawnan Smith, Port Navas Stream, Tewince Stream, Lestraines River, HLC Constantine, HLC Gweek E, Gweek River, Helford River (Gweek W), Rosevear River, HLC Mawgan, Treloswarren Stream, HLC, HLC Frenchman's Creek, HLC Helford, Manaccan River, HLC Manaccan E, South Cornwall (GW)	MA14 Helford	14.1	Undefended estuary	Not previously considered	NAI	NAI	NAI	Neutral to minor positive impacts, as the overall management intent is to let natural processes dominate. Any MR or HTL scheme at Gweek must ensure that no barriers to fish movement are introduced.	N/A	✓	✓	✓
		14.2	Durgan	Not previously considered	NAI	NAI	NAI					
		14.3	Helford Passage	Not previously considered	NAI	NAI	NAI					
		14.4	Gweek	Not previously considered	MR	MR	MR					
		14.5	Gweek Quay	Not previously considered	HTL	HTL	HTL					
		14.6	Helford	Hold the line	NAI	NAI	NAI					
		14.7	Flushing	Not previously considered	NAI	NAI	NAI					
		14.8	Gillan	Not previously considered	NAI	NAI	NAI					
Fal / Helford, South Cornwall (GW)	MA15 Lizard East (Nare Point to Lizard Point)	15.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Neutral or longer term very minor positive impacts to the coastal waterbody. Any medium to long term MR at Porthallow must ensure that no barriers to fish movement are introduced. The overarching management principle is to allow the natural evolution of the coast, while supporting the viability of the coastal communities and their adaptation to coastal change where necessary (particularly at Coverack). Introducing management policy which allows the establishment of a more sustainable long-term shoreline position for the pocket beaches and coves is an important aspect of management intent within this area.	N/A	✓	✓	✓
		15.2	Porthallow	Hold the line	HTL	MR	MR					
		15.3	Porthoustock	Do nothing	NAI	NAI	NAI					
		15.4	Coverack	Hold the line	HTL	MR	MR					
		15.5	Kennack Sands	Not previously considered	MR	MR	MR					
		15.6	Cadgwith	Hold the line	HTL	HTL	HTL					

**Assessment Table 3e – Assessment of SMP policy against environmental objective, continued**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		WFD 1	WFD 2	WFD 3	WFD 4
Cornwall South, South Cornwall (Gw)	MA16 Lizard West (Lizard Point to Baulk Head)	16.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Neutral to long term very minor positive impact on coastal waterbody. The overarching management principle is to allow the natural evolution of the coast, while supporting the viability of the coastal communities and their adaptation to coastal change where necessary.	N/A	✓	✓	✓
		16.2	Mullion Cove	Hold the line	NAI	NAI	NAI					
		16.3	Poldhu Cove	Hold the line	NAI	NAI	NAI					
		16.4	Church Cove	Hold the line	NAI	NAI	NAI					
		16.5	Jangge-ryn (Winnianton)	Do Nothing	MR	MR	NAI					
Cornwall South, The Looe, River Cober, Porthleven Stream, West Cornwall (Gw)	MA17 Baulk Head to Trewavas Head	17.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Neutral impact on coastal water body. Management intent is to support the diverse nature of this part of the Cornish coastline and the Cornwall AONB and Lizard Heritage Coast. The intent is also to support the resilience of locally important infrastructure and access routes. This will support promotion of community resilience in the face of coastal change, particularly along the more actively eroding stretches of coast at Gunwalloe and Porthleven. For Loe Bar the intent is to manage water levels in Pool, allow natural response and roll back of barrier with intervention as an exception. This should avoid introducing any barriers to fish movement.	N/A	✓	✓	✓
		17.2	Gunwalloe Fishing Cove	Hold the line	NAI	NAI	NAI					
		17.3	Loe Bar & Pool	Hold the line	MR	MR	MR					
		17.4	Porthleven	Hold the line	HTL	HTL	HTL					
Cornwall South, West Cornwall (Gw)	MA18 Trewavas Head to The Greeb	18.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Neutral to longer term minor positive impacts on Coastal Waterbody. MR at Praa Sands must avoid introducing barriers to fish movement, and may provide improvements to Beach/Dune system connectivity. Management intent is to support the diverse nature of this part of the Cornish coastline and the Cornwall AONB and Lizard Heritage Coast. The intent is also to support the resilience of locally important infrastructure and access routes. This is to support community resilience in the face of coastal change, and adaptation strategies where required, particularly along the more actively eroding stretches of coast at Praa Sands.	N/A	✓	✓	✓
		18.2	Praa Sands East (Hendra Beach)	Do nothing	MR	MR	NAI					
		18.3	Praa Sands West (Sydney Cove)	Hold the line	MR	MR	NAI					
		18.4	Perran Sands (Perranuthnoe)	Do Nothing	NAI	NAI	NAI					
Penzance, Marazion River, West Cornwall (Gw)	MA19 Marazion to Longrock	19.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Very minor positive impact on coastal waterbody with move to NAI in the short term at Marazion East. The overarching management principle is to support the adaptation and resilience of this current continuously defended coastline to changes in the coastal conditions.	N/A	✓	✓	✓
		19.2	Marazion east (Venton Cove)	Hold the line	NAI	NAI	NAI					
		19.3	Marazion Town frontage	Hold the line	HTL	HTL	HTL					
		19.4a	St Michael's Mount - causeway	Hold the line	HTL	NAI	NAI					
		19.4b	St Michael's Mount - harbour	Hold the line	HTL	HTL	HTL					
		19.5	Marazion west	Hold the line	HTL	HTL	HTL					
		19.6	Marazion Marsh	Hold the line	HTL	HTL	HTL					



**Assessment Table 3f – Assessment of SMP policy against environmental objective, continued**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		WFD 1	WFD 2	WFD 3	WFD 4
Penzance, Trevaylor Stream, Chyandour Stream, West Cornwall (Gw)	MA20 Longrock to Penzance	20.1	Longrock	Hold the line	HTL	MR	MR	Possible longer term positive impact on coastal waterbody by MR. Any schemes to avoid introducing barriers to fish movement. Management principle is to support adaptation and resilience of continuously defended coastline to changes in coastal conditions. Wherever possible, the management intent would be to introduce more width into the intertidal area. This would support and enhance both the natural defence provided by the foreshore and recreational opportunities.	N/A	✓	✓	✓
		20.2	Eastern Green	Hold the line	HTL	MR	MR					
		20.3	Chyandour	Hold the line	HTL	HTL	HTL					
Penzance, Larrigan River, Newlyn River, West Cornwall (Gw)	MA21 Penzance & Newlyn (Albert Pier to Sandy Cove breakwater)	21.1	Penzance Harbour & Docks	Hold the line	HTL	HTL	HTL	Possible longer term positive impact on coastal waterbody by MR at Wherrytown. Scheme to avoid introducing barriers to fish movement. Management principle is to support adaptation and resilience of continuously defended coastline to changes in coastal conditions. Wherever possible, the management intent would be to introduce more width into the intertidal area. This would support and enhance both the natural defence provided by the foreshore and recreational opportunities.	N/A	✓	✓	✓
		21.2	Wherry Town	Hold the line	HTL	MR	MR					
		21.3	Newlyn Harbour	Hold the line	HTL	HTL	HTL					
Penzance, West Cornwall (Gw)	MA22 Sandy Cove breakwater to Spaniard Point	22.1	Cliff Road to Mousehole	Hold the line	HTL	HTL	HTL	Minor neutral impact. Management principle is to support the adaptation and resilience of this continuously defended coastline to changes in the coastal conditions.	N/A	✓	✓	✓
		22.2	Mousehole	Hold the line	HTL	HTL	HTL					
Penzance, Cornwall South, West Cornwall (Gw)	MA23 Spaniard Point to Lands End (Gw)	23.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Neutral to very minor positive impact. Management principle is to allow the natural evolution of the coast while supporting the coastal communities in the area and their adaptation to coastal change. Supporting tourist amenities is important in assisting the adaption of communities.	N/A	✓	✓	✓
		23.2	Lamorna Cove	Hold the line	NAI	NAI	NAI					
Lands End to Trevoze Head, West Cornwall (Gw)	MA24 Lands End to St Ives	24.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Minor neutral impact. Management principle is to allow the natural evolution of the coast while supporting the coastal communities in the area and their adaption to coastal change. Supporting tourist amenities and the World Heritage Site features is important in assisting the adaption of communities.	N/A	✓	✓	✓
		24.2	Sennen Cove	Hold the line	HTL	HTL	HTL					
		24.3	Whitesand Bay (Gwynver)	Do Nothing	NAI	NAI	NAI					
Lands End to Trevoze Head, West Cornwall (Gw)	MA25 Clodgy Point to Porthminster Point (St Ives)	25.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Neutral Impact. Defended frontage is not significant at the Coastal Waterbody scale and does not threaten retention of beaches. Management principle is to manage the coast at St Ives to maintain the amenity value of the beaches, harbours and surrounds, and to allow the natural and unconstrained evolution of the coast along the remainder of the St Ives Bay shoreline. In addition, all management should support the adaptation and resilience of the coastal communities, particularly St Ives, which is likely to display most sensitivity to climate change and sea level rise.	N/A	✓	✓	✓
		25.2	Porthmeor	Hold the line	HTL	HTL	HTL					
		25.3	Porthgidden to the pier	Hold the line	HTL	HTL	HTL					
		25.4	St Ives Harbour	Hold the line	HTL	HTL	HTL					
		25.5	Porthminster Beach	Hold the line	HTL	HTL	HTL					
Lands End to Trevoze Head, Hayle (trans), West Cornwall (Gw)	MA26 Porthminster Point to Hayle Estuary	26.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Minor positive impact. Management principle is to manage the coast at Carbis Bay to maintain the amenity value of the beaches, and surrounds, and to allow the natural and unconstrained evolution of the coast along the remainder of the St Ives Bay shoreline.	N/A	✓	✓	✓
		26.2	Carbis Bay	Hold the line	NAI	NAI	NAI					



Assessment Table 3g – Assessment of SMP policy against environmental objective, continued

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		VFD 1	VFD 2	VFD 3	VFD 4
Hayle (trans), HLS Lelant Saltings, Nance Stream, Hayle (river), Angarrack Stream, West Cornwall (GW)	MA27 Hayle Estuary	27.0	Porth Kidney	Do Nothing	NAI	NAI	NAI	MR at Hayle will provide improved connectivity of tidal to freshwater habitat, and with floodplain. This addresses HMWB mitigation measures to preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone. Any MR strategy or scheme for the River Hayle (as a HMWB mitigation measure) must ensure free passage of fish, but should support Environmental Objectives.	N/A	✓	✓	✓
		27.1	Lelant Towans	Hold the line	MR	MR	MR					
		27.2	Lelant	Hold the line	HTL	HTL	HTL					
		27.3	St Erth (Hayle River above Lelant)	Not previously considered	HTL/ MR	HTL/ MR	HTL/ MR					
		27.4	Griggs Quay/ Causeway	Hold the line	HTL	MR	MR HTL					
		27.5	Harbour, East Quay & South Quay	Hold the line	HTL	HTL	HTL					
		27.6	Copperhouse Pool	Hold the line	HTL	HTL	HTL					
Lands End to Trevoze Head, Red River, West Cornwall (GW)	MA28 Black Cliff to Godrevy Point	28.1	Black Cliff	Do nothing	NAI	NAI	NAI	Minor positive impacts through Managed Realignment at Red River (this must avoid introducing barriers to fish movement) and management of dune system. Management principle is to manage the coast at St Ives, Carbis Bay and Hayle to maintain the amenity value of the beaches, harbours and surrounds, and to allow the natural and unconstrained evolution of the coast along the remainder of the St Ives Bay shoreline. In addition, all management should support the adaptation and resilience of the coastal communities.	N/A	✓	✓	✓
		28.2	Mexico to Gwithian Towans	Retreat the line	MR	MR	MR					
		28.3	Gwithian Beach & Red River	Hold the line	MR	MR	MR					
		28.4	Godrevy Cliffs	Do nothing	NAI	NAI	NAI					
Lands End to Trevoze Head, West Cornwall (GW)	MA29 Godrevy Point to St Agnes Head	29.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Minor positive to neutral impacts on coastal waterbody. Management principle is to allow natural evolution of the coast while recognising the need to support the adaptation and resilience of the coastal settlements. Continuing to support the recreational and amenity value of the coast is an important part of this intent but it cannot dictate the long-term shoreline position where a more sustainable long-term realignment is desirable.	N/A	✓	✓	✓
		29.2	Portreath Beach	Hold the line	HTL	MR	MR					
		29.3	Portreath Harbour	Hold the line	HTL	HTL/MR	HTL/MR					
		29.4	Porthtowan	Hold the line	MR	MR	MR					
Lands End to Trevoze Head, Perranporth Stream, Bolingey Stream, West Cornwall (GW)	MA30 St Agnes Head to Pentire Point West	30.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Neutral to minor positive impact. Longer term MR at Perranporth must avoid introducing barriers to fish movement and consider other HMWB mitigation measures. Management principle is to allow natural evolution of the coast while recognising the need to support the adaptation and resilience of the coastal settlements. Continuing to support the recreational and amenity value of the coast is an important part of this intent but it cannot dictate the long-term shoreline position where a more sustainable long-term realignment is desirable.	N/A	✓	✓	✓
		30.2	Trevaunance Cove	Hold the line	NAI/ HTL	NAI/ HTL	NAI/ MR					
		30.3	Perranporth	Hold the line	HTL	MR	MR					
		30.4	Perran Beach	Hold the line	NAI	NAI/ MR	NAI/ MR					
		30.5	Penhale and Holywell Bay	Do Nothing	NAI	NAI	NAI					

**Assessment Table 3h – Assessment of SMP policy against environmental objective, continued**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		WFD 1	WFD 2	WFD 3	WFD 4
Lands End to Trevoze Head, Gannel, North Cornwall (GW)	MA31 Fistral & Crantock	31.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Neutral to longer term minor positive impact on coastal waterbody through dune management. Management intent is to facilitate continued popularity of Newquay as a tourist destination, but to do this against the backdrop of a management regime for the beaches and cliffs which protects and enhances their wild and rugged 'Cornishness'. Allowing natural evolution of the coast wherever possible and generally protecting and enhancing the coastal environment are critical to the continued prosperity of Newquay. Supporting the long-term adaptation of beaches (and their retention) is an important part of delivering the overarching management intent.	N/A	✓	✓	✓
		31.2	Crantock Beach	Not previously considered	NAI	NAI	NAI					
		31.3	The Gannel	Not previously considered	NAI	NAI	NAI					
		31.4	Pentiref South Fistral	Hold the line	HTL	NAI	NAI					
		31.5	Central Fistral and Dunes	Hold the line	MR	MR	MR					
		31.6	North Fistral	Hold the line	HTL	HTL/ MR	MR					
Lands End to Trevoze Head, Porth Stream, North Cornwall (GW)	MA32 Newquay Bay	32.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Neutral to minor positive impacts on coastal waterbody. Any scheme at Porth to avoid introducing barriers to fish movement. Management intent is to facilitate continued popularity of Newquay as a tourist destination, but to do this against the backdrop of a management regime for the beaches and cliffs which protects and enhances their wild and rugged 'Cornishness'. Allowing natural evolution of the coast wherever possible and generally protecting and enhancing the coastal environment are critical to the continued prosperity of Newquay. Supporting the long-term adaptation of beaches (and their retention) is an important part of delivering the overarching management intent.	N/A	✓	✓	✓
		32.2	Newquay Harbour & Towan Beach	Hold the line	HTL	HTL	HTL					
		32.3	Great Western Beach	Hold the line	HTL	HTL/ NAI	NAI					
		32.4	Tolcarne Beach	Hold the line	HTL	HTL/ NAI	NAI					
		32.5	Lusty Glaze	Hold the line	NAI	NAI	NAI					
		32.6	Porth	Hold the line	HTL	MR	NAI					
Lands End to Trevoze Head, Menahyl, Porthcothan Stream, North Cornwall (GW)	MA33 Trevelgue Head to Trevoze Head	33.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Neutral to minor positive with support for dune system at Mawgan Porth. Any MR scheme at Mawgan Porth must avoid introducing obstructions to migration routes and should support HMW/B mitigation measures including: removal of hard bank reinforcement or replacement with soft engineering solution; increase in-channel morphological diversity, where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone. Management principle is to allow the natural evolution of the coast while recognizing the need to support the adaptation and resilience of the coastal settlements. Continuing to support the recreational and amenity value of the coast is important but it cannot dictate the long-term shoreline position where a more sustainable realignment is desirable.	N/A	✓	✓	✓
		33.2	Watergate	Not previously considered	NAI	NAI	NAI					
		33.3	Mawgan Porth - road	Hold the line	MR	MR	NAI					
		33.4	Mawgan Porth - dunes	Hold the line	NAI	NAI	NAI					
		33.5	Porthcothan cliff	Do Nothing	NAI	NAI	NAI					
		33.6	Porthcothan beach	Hold the line	NAI/ HTL	NAI/ HTL	NAI/ HTL					
		33.7	Tregarnon	Do Nothing	NAI	NAI	NAI					
		33.8	Constantine Bay	Hold the line	NAI	NAI	NAI					

**Assessment Table 3i – Assessment of SMP policy against environmental objective, continued**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?				
				SMP1	2025	2055	2105		WFD 1	WFD 2	WFD 3	WFD 4	
Cornwall North, Harlyn Water, North Cornwall (GW)	MA34 Trevoze Head to Stepper Point	34.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Neutral to minor positive impact on coastal waterbody. In the medium to long term, any MR at Harlyn should ensure that no barriers to fish movement are introduced. Management principle to allow natural evolution of the coast while recognizing the need to support the adaptation and resilience of the coastal settlements. Continuing to support recreational and amenity value of the coast is important but it cannot dictate the long-term shoreline position where a more sustainable realignment is desirable.	N/A	✓	✓	✓	
		34.2	Harlyn Beach	Hold the line	HTL	MR	MR						
		34.3	Trevone cliffs	Hold the line	NAI	NAI	NAI						
		34.4	Trevone Beach	Hold the line	MR	MR	NAI						
Camel (trans), Issey Stream, Polmorla Stream, Camel (river), River Amble, North Cornwall (GW)	MA35 Camel Estuary (Stepper Point to Trebetherick Point)	35.1	Undefended cliffs and estuary banks	Mostly not assessed in SMP1	NAI	NAI	NAI	Improved floodplain connectivity with MR, especially at Amble Marshes. No obstructions to fish migration routes should be introduced. Any MR scheme or strategy at Amble Marshes must not introduce and where possible should reduce barriers to fish movement; other HMW/E mitigation measures should be considered in particular increasing in-channel morphological diversity. Management principle is to allow the natural evolution of the coast while recognizing the need to support the adaptation and resilience of the coastal and estuarine settlements through reducing flood risks and maintaining recreational and amenity facilities. Ensuring the resilience of Wadebridge as a community is particularly key, due to the magnitude of the flood risks.	N/A	✓	✓	✓	
		35.2	Padstow Harbour	Hold the line	HTL	HTL	HTL						
		35.3	Padstow south (Dinas)	Hold the line	NAI	NAI	NAI						
		35.4	Central Camel left bank	Not previously considered in SMP1	NAI	NAI	NAI						
		35.5	Wadebridge		HTL	HTL	HTL						
		35.6	Egloshayle left bank		HTL	MR	MR						
		35.7	Egloshayle right bank		HTL	HTL	HTL						
		35.8	Sladesbridge		HTL	MR	MR						
		35.9	Amble Marshes		HTL	MR	MR						
		35.10	Rock (Porthilly Cove)		Hold the line	NAI	NAI						NAI
		35.11	Rock		Hold the line	HTL	MR						MR
		35.12	Rock Dunes	Hold the line	NAI	NAI	NAI						
Camel (trans), C&M Polzeath, North Cornwall (GW)	MA36 Trebetherick Point to Pentire Point	36.1	Undefended cliffs	Do Nothing	NAI	NAI	NAI	Broadly neutral, with longer term minor positive impact at Polzeath. Any longer term MR scheme or strategy at Polzeath needs to ensure that obstructions to migratory fish are not introduced. Management principle is to allow the natural evolution of the coast while recognizing the need to support the adaptation and resilience of the coastal and estuarine settlements through reducing flood risks and maintaining recreational and amenity facilities.	N/A	✓	✓	✓	
		36.2	Polzeath	Hold the line	HTL	MR	MR						
		36.3	New Polzeath	Do nothing	NAI	NAI	NAI						
		36.4	Pentireglaze Haven	Do nothing	NAI	NAI	NAI						

**Assessment Table 3j– Assessment of SMP policy against environmental objective, continued**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		VFD 1	VFD 2	VFD 3	VFD 4
Cornwall North, C&M Port Quin, Valency, North Cornwall (Gw)	MA37 Pentire Point to Boscastle	37.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Neutral, with long term very minor positive impacts. MR at Port Quin and Port Gaverne need to ensure that obstructions to migratory fish are not introduced. Management principle is to allow the natural evolution of the coast, which should retain the tourism and amenity values of the area, recognising the need to support the adaptation and resilience of the coastal settlements, whilst aiming to maintain their overall character.	N/A	✓	✓	✓
		37.2	Portquin	Hold the line	MR	MR	NAI					
		37.3	Port Isaac	Hold the line	HTL	HTL	HTL					
		37.4	Port Gaverne	Hold the line	MR	MR	NAI					
		37.5	Tintagel	Do nothing/ not considered	NAI	NAI	NAI					
		37.6	Boscastle	Hold the line	HTL	HTL	HTL					
Cornwall North, North Cornwall (Gw)	MA38 North Boscastle to Wanson Mouth	38.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Very minor positive impact longer term. Management principle is to allow the natural evolution of the coast, which should retain the tourism and amenity values of the area, recognising the need to support the adaptation and resilience of the coastal settlements, whilst aiming to maintain their overall character.	N/A	✓	✓	✓
		38.2	Crackington Haven	Hold the line & Retreat the Line	HTL	MR	MR					
Cornwall North, North Cornwall (Gw)	MA39 Wanson Mouth to Higher Longbeak	39.1	Undefended cliffs & beach	Do nothing	NAI	NAI	NAI	Neutral, with longer term minor positive impacts. MR intent at Widemouth north to reinforce natural processes and should not introduce barriers to fish movement. Management principle to allow the natural evolution of the coast, which should retain the tourism and amenity values of the area while recognising the need to maintain the identity of the coastal settlements. Support long-term adaptation of Widemouth to coastal change is a key part of the management intent for this area.	N/A	✓	✓	✓
		39.2	Black Rock/ Widemouth south	Do nothing/ Hold the line	MR	MR	NAI					
		39.3	Widemouth north	Hold the line	MR	MR	NAI					
Cornwall North, Bude Canal (River Neet), Crooklets Stream, North Cornwall (Gw)	MA40 Higher Longbeak to Lower Sharpnose Point	40.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Neutral impacts, with minor longer term positive impacts to coastal waterbody. HTL for Bude Canal & River Neet must consider HMWB mitigation measures and not introduce obstructions to fish migration. MR for Crooklets Stream must not introduce barriers to fish migration. Management principle to allow the natural evolution of the coast, which should retain the tourism and amenity values of the area while recognising the need to maintain the identity of the coastal settlements. Support long-term adaptation of Bude to coastal change is a key part of the management intent for this area.	N/A	✓	✓	✓
		40.2	Bude Canal & River Neet	Not previously considered	HTL	HTL	HTL					
		40.3	Bude - Summerleaze	Hold the line	MR	MR	NAI					
		40.4	Bude - Crooklets	Hold the line	MR	MR	NAI					
Cornwall North, Hartland and Torridge (Gw)	MA41 Lower Sharpnose Point to Hartland Point	41.1	Undefended cliffs	Do nothing	NAI	NAI	NAI	Neutral impact on coastal waterbody. Management principle is to allow the natural evolution of the coast.	N/A	✓	✓	✓
		41.2	Hartland Quay	Do nothing (not considered)	NAI	NAI	NAI					

**Assessment Table 3k– Assessment of SMP policy against environmental objective, continued**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		WFD 1	WFD 2	WFD 3	WFD 4
Scilly Isles, St Marys (GW)	MA42 St Mary's	42.1	The Mermaid Wall	Hold the line	HTL	HTL	HTL	Neutral impact on coastal waterbody, positive impact if any on ground water body. Management intent is to support the adaptation of all island communities to the changing coastal conditions and developing their resilience to the impacts of climate change. However the techniques employed in doing so must be sensitive to managing the archipelago much as a fragile Marine Park eco-system.	N/A	✓	✓	✓
		42.2	The Quay	Hold the line	HTL	HTL	HTL					
		42.3	The Quay to Custom House	Hold the line	HTL	HTL	MR					
		42.4	Custom house to Carn Thomas	Hold the line	HTL	HTL	MR					
		42.5	Porth Mellon	Hold the line	HTL	MR	MR					
		42.6	Thomas Porth	Do nothing	NAI	NAI	NAI					
		42.7	Porth Loo	Retreat the line	NAI	MR	MR					
		42.8	Taylor's Island to Innisidgen	Do nothing	NAI	NAI	NAI					
		42.9	Innisidgen to Porth Hellick Point	Do nothing	NAI	NAI	NAI					
		42.10	Porth Hellick	Hold the line	HTL	MR	NAI					
		42.11	Salakee Down	Do nothing	NAI	NAI	NAI					
		42.12	Porth Minnick	Hold the line	HTL	MR	MR					
		42.13	Tolman Point	Do nothing	NAI	NAI	NAI					
		42.14	Tolman Point to Old Town Slip	Do nothing	NAI	NAI	NAI					
		42.15	Old Town Slip to Old Church	Hold the line	HTL	MR	MR					
		42.16	Old Church to Carn Leh	Do nothing	NAI	NAI	NAI					
		42.17	Carn Leh to Playground	Do nothing	NAI	NAI	NAI					
		42.18	Playground to Slipway	Hold the line	HTL	NAI	NAI					
		42.19	Slipway to Little Carn	Hold the line	HTL	HTL/ MR	MR					
		42.2	Little Carn to Sally Port	Hold the line	HTL	HTL/ MR	MR					
		42.21	Sally Port to the Quay (The Garrison)	Do nothing	NAI	NAI	NAI					

**Assessment Table 3I– Assessment of SMP policy against environmental objective, continued**

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		VFD 1	VFD 2	VFD 3	VFD 4
Scilly Isles, St Martins (GW)	MA43 St Martin's	43.1	Tean Sound	Do nothing	NAI	NAI	NAI	Neutral impact on coastal waterbody. Management intent is to support the adaptation of all island communities to the changing coastal conditions and developing their resilience to the impacts of climate change. However the techniques employed in doing so must be sensitive to managing the archipelago much as a fragile Marine Park eco-system.	N/A	✓	✓	✓
		43.2	St Martins Bay	Do nothing	NAI	NAI	NAI					
		43.3	St Martin's Flats	Do nothing	NAI	NAI	NAI					
		43.4	Middle Town	Do nothing	NAI	NAI	NAI					
Scilly Isles, Bryher and Tresco (GW)	MA44 Tresco	44.1	New Grimsby	Hold the line	HTL	HTL	HTL	Neutral impact on coastal waterbody. Management intent is to support the adaptation of all island communities to the changing coastal conditions and developing their resilience to the impacts of climate change. However the techniques employed in doing so must be sensitive to managing the archipelago much as a fragile Marine Park eco-system.	N/A	✓	✓	✓
		44.2	Castle Down	Do nothing	NAI	NAI	NAI					
		44.3	Island Hotel	Hold the line	HTL	HTL	MR					
		44.4	Old Grimsby	Do nothing	NAI	NAI	NAI					
		44.5	Rushy Point	Do nothing	NAI	NAI	NAI					
		44.6	South Beach / Pentle Bay	Advance the line	NAI	NAI	NAI					
		44.7	Appletree Bay	Advance the line	NAI	NAI	NAI					
		44.8	Tresco Flats	Retreat the line	NAI	NAI	NAI					

Assessment Table 3m– Assessment of SMP policy against environmental objective, continued

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		WFD 1	WFD 2	WFD 3	WFD 4
Scilly Isles, Pool of Bryher, Bryher and Tresco (GW)	MA45 Bryher	45.1	Great Porth North	Hold the line	HTL	NAI (pos HTL)	NAI (pos HTL)	Neutral impact on coastal waterbody, and ground water body. Management intent is to support the adaptation of all island communities to the changing coastal conditions and developing their resilience to the impacts of climate change. However the techniques employed in doing so must be sensitive to managing the archipelago much as a fragile Marine Park eco-system.	N/A	✓	✓	✓
		45.2	Stinking Porth	Do nothing	NAI	NAI	NAI					
		45.3	Gweal Hill	Do nothing	NAI	NAI	NAI					
		45.4	Great Popplestones	Hold the line	HTL	NAI	NAI					
		45.5	Little Popplestones	Hold the line	NAI	NAI	NAI					
		45.6	Popplestone Brow	Do nothing	NAI	NAI	NAI					
		45.7	Popplestone Brow to Hangman Island	Do nothing	NAI	NAI	NAI					
		45.8	Kitchen Porth	Do nothing	NAI	NAI	NAI					
		45.9	Post Office to the Bar	Do nothing	NAI	NAI	NAI					
		45.10	The Bar to the Quay	Do nothing	NAI	NAI	NAI					
		45.11	Southward	Do nothing	NAI	NAI	NAI					
		45.12	The Brow to Works Point	Do nothing	NAI	NAI	NAI					
		45.13	Works Point to Great Carn	Retreat the line	NAI	NAI	NAI					



Assessment Table 3n– Assessment of SMP policy against environmental objective, continued

Waterbodies in Policy Unit	Management Area	Policy Unit		SMP Policy				Assessment of impact (including list of water bodies affected)	Environmental objectives met?			
				SMP1	2025	2055	2105		WFD 1	WFD 2	WFD 3	WFD 4
Scilly Isles, St Agnes (GW)	MA46 St Agnes & Gugh	46.1	Tol Tuppens to Kittern Rock (Gugh)	Do nothing	NAI	NAI	NAI	Neutral impact on coastal waterbody; HTL for PU46.11- 46.12 will minimize risk of saline intrusion to Ground water body. Management intent is to support the adaptation of all island communities to the changing coastal conditions and developing their resilience to the impacts of climate change. However the techniques employed in doing so must be sensitive to managing the archipelago much as a fragile Marine Park eco-system.	N/A	✓	✓	✓
		46.2	Kittern Rock to The Hoe (Gugh)	Do nothing	NAI	NAI	NAI					
		46.3	The Hoe to the Bar (Gugh)	Do nothing	NAI	NAI	NAI					
		46.4	The Bar	Do nothing	NAI	NAI	NAI					
		46.5	The Bar to Tol Tuppens	Do nothing	NAI	NAI	NAI					
		46.6	Kallimag Point to the Jetty	Do nothing	NAI	NAI	NAI					
		46.7	The Jetty to the Bar	Hold the line	NAI	NAI	NAI					
		46.8	The Bar to Tean Plat Point	Do nothing	NAI	NAI	NAI					
		46.9	Tean Plat Point to Long Point	Do nothing	NAI	NAI	NAI					
		46.10	Long Point to Peregils Slips	Do nothing	NAI	NAI	NAI					
		46.11	Peregils Slips to Ginamoney Carn	Hold the line	HTL	HTL	HTL					
		46.12	Ginamoney Carn to Browarth Point	Hold the line	HTL	HTL	HTL					
		46.13	Browarth Point	Do nothing	NAI	NAI	NAI					
		46.14	Browarth Point to Kallimag Point	Hold the line	NAI	NAI	NAI					

**Assessment Table 4a - Summary of achievement (or otherwise) of environmental objectives for each water body in the SMP area.**

Water Body	Environmental objectives met?				WFD Summary Statement required?
	WFD1	WFD2	WFD3	WFD4	
Plymouth Coast (PU1.1 - PU3.8)	N/A	✓	✓	N/A	No
St Austell Coast (PU 4.1 - 45, PU 6.1 - 9.6)	N/A	✓	✓	N/A	No
Fal Helford Coast (PU 10.1 - 10.5, PU15.1 - 15.6)	N/A	✓	✓	N/A	No
Carrick Roads Outer (PU 11.1 - 11.10)	N/A	✓	✓	N/A	No
Cornwall South Coast (PU 16.1 -18.4, PU 23.1 - 23.2)	N/A	✓	✓	N/A	No
Penzance Coast (PU 19.1 - 23.1)	N/A	✓	✓	N/A	No
Lands End to Trevoze Head Coast (PU24.1 - 26.3, PU 28.1 - 33.7)	N/A	✓	✓	N/A	No
Cornwall North Coast (PU34.1 - 34.4, PU 37.1 - 41.2)	N/A	✓	✓	N/A	No
Scilly Isles Coast PU42.1 - 46.14)	N/A	✓	✓	N/A	No
Pool of Bryher Coast PU45.1 - 45.13)	N/A	✓	✓	N/A	No
Looe Transitional (PU3.4 - 3.6)	N/A	✓	✓	N/A	No
Fowey Transitional (PU5.1 - 5.3)	N/A	✓	✓	N/A	No
Carrick Roads Inner transitional (PU11.1, 11.4, 11.5, PU12.1 - 12.5)	N/A	✓	✓	N/A	No
Helford Transitional (PU 14.1 - 14.9)	N/A	✓	✓	N/A	No
Hayle transitional (PU 27.1 - 27.7)	N/A	✓	✓	N/A	No. MR is proposed at Griggs Causeway and St Erth, in line with HMWB mitigation measure. Any MR scheme to be conditional on avoiding the introduction of barriers to fish movement.
Gannel transitional (PU 31.3)	N/A	✓	✓	N/A	No
Camel transitional (PU 35.1 - 36.3)	N/A	✓	✓	N/A	No
The Loe (PU 17.1 - 17.4)	N/A	✓	✓	N/A	No
River Seaton (PU2.3)	N/A	✓	✓	N/A	No
East Looe River, West Looe River (PU3.4 - 3.6)	N/A	✓	✓	N/A	No
Pont Pill (PU4.1)	N/A	✓	✓	N/A	No
Fowey River (PU5.1, 5.3 and 5.4)	N/A	✓	✓	N/A	No MR to be considered downstream of Lostwithiel in line with HMWB mitigation measures
Lerryn River (PU5.1)	N/A	✓	✓	N/A	No
Par - Polmear Stream, Tywadreth Stream (and River Par) (PU6.3)	N/A	✓	✓	N/A	No
St Austell River, Pentewan Stream (PU8.2)	N/A	✓	✓	N/A	No
Mevagissey Stream (PU8.3)	N/A	✓	✓	N/A	No
Portmellon Stream (PU8.4)	N/A	✓	✓	N/A	No

**Assessment Table 4b - Summary of achievement (or otherwise) of environmental objectives for each water body in the SMP area, continued**

Water Body	Environmental objectives met?				WFD Summary Statement required?
	WFD1	WFD2	WFD3	WFD4	
Caerhays Stream (PU 9.3)	N/A	✓	✓	N/A	No
Portholland (PU9.4)	N/A	✓	✓	N/A	No
West Portholland Stream (PU9.5)	N/A	✓	✓	N/A	No
'Carne Stream' (PU 10.3)	N/A	✓	✓	N/A	No
Percuil River (inc SE and E), Penpol Creek (PU11.1)	N/A	✓	✓	N/A	No
Carnon River, Perranwell Stream, River Kenal (PU11.4)	N/A	✓	✓	N/A	No
Mylor Stream (PU11.5)	N/A	✓	✓	N/A	No
Penryn Stream, Argal Stream (PU11.7)	N/A	✓	✓	N/A	No
Treworga, Trevaylor Stream, Penkevil Stream, Mether, Cowlands Creek (PU13.1)	N/A	✓	✓	N/A	No
Ruan River, Ruan River S (PU12.2)	N/A	✓	✓	N/A	No
Tresillian River (PU12.3)	N/A	✓	✓	N/A	No
Rivers Allen, Kenwyn (PU12.4 - 12.7)	N/A	✓	✓	N/A	No. Medium term improvements to Truro FAS must ensure that barriers to fish movement are not created. This can be included as a criteria for any scheme or strategy.
River Tinney (PU12.8)	N/A	✓	✓	N/A	No. Any MR scheme at Calenick must ensure that barriers to fish movement are not created. This can be included as a criteria for any scheme.
Swanpool (PU13.4)	N/A	✓	✓	N/A	No. MR opportunities at Swanpool are to be reviewed in the short term, this review should ensure that no barriers to fish movement are introduced and where possible existing barriers are improved or removed. These works are only due to be carried out in the medium to long term.
Maenporth (PU13.5)	N/A	✓	✓	N/A	No. MR opportunities at Maenporth are to be reviewed in the short term, this review should ensure that no barriers to fish movement are introduced and where possible existing barriers are improved or removed. These works are only due to be carried out in the medium to long term.
Mawnan Smith, Port Navas Stream, Lestraines River, Constantine, Rosevear River, Mawgan, Trelowarren Stream, Frenchman's Creek, Manaccan River, Manaccan E (PU14.1)	N/A	✓	✓	N/A	No

**Assessment Table 4c - Summary of achievement (or otherwise) of environmental objectives for each water body in the SMP area, continued**

Water Body	Environmental objectives met?				WFD Summary Statement required?
	WFD1	WFD2	WFD3	WFD4	
Trewince Stream (PU14.4)	N/A	✓	✓	N/A	No
Gweek E, River and W (PU14.5)	N/A	✓	✓	N/A	No
Helford (PU14.6)	N/A	✓	✓	N/A	No
River Cober (PU17.3)	N/A	✓	✓	N/A	No
Portleven Stream (PU17.4)	N/A	✓	✓	N/A	No
Marazion River (PU19.5 - 20.1)	N/A	✓	✓	N/A	No. HTL at Marazion Marsh is intended to protect freshwater habitats in order to manage the impact of sea level rise on the SPA and SSSI site, this must include consideration of fish migration. Future Strategy will need to consider MR which would support natural coastal processes.
Trevaylor Stream, Chyandour Stream (PU20.2)	N/A	✓	✓	N/A	No. The SMP intent is to restore natural processes through realignment in the medium term. MR does not require introduction of barriers to fish movement and this can be included as a criteria for any scheme of strategy.
Larrigan River (PU21.3)	N/A	✓	✓	N/A	No. The SMP intent is to restore natural processes through realignment in the medium term. MR at Wherrytown does not require introduction of barriers to fish movement. This can be included as a criteria for any scheme or strategy.
Newlyn River (PU21.4)	N/A	✓	✓	N/A	No
Lelant Saltings, Nance Stream (PU27.2)	N/A	✓	✓	N/A	No
Hayle River (PU27.3)	N/A	✓	✓	N/A	No. MR is proposed at Griggs Causeway and St Erth, in line with HMWB mitigation measure. Any MR scheme to be conditional on avoiding the introduction of barriers to fish movement.
Angarrack Stream (PU27.4)	N/A	✓	✓	N/A	No. HTL at Cooperhouse Pool does not require any changes in the short term. Any longer term HTL schemes must ensure that no barriers to fish movement are created. This will be supported by Hayle Estuary and Carrack Gladden SSSI designation should support this.

**Assessment Table 4d - Summary of achievement (or otherwise) of environmental objectives for each water body in the SMP area, continued**

Water Body	Environmental objectives met?				WFD Summary Statement required?
	WFD1	WFD2	WFD3	WFD4	
Red River (PU28.3)	N/A	✓	✓	N/A	No. MR at Red River must avoid introducing barriers to fish movement and is in keeping with intent to restore natural processes. This can be included as a criteria for any scheme. Cornwall Council supported Red River working group objectives should support this.
Perranporth Stream, Bolingey Stream (PU 30.1)	N/A	✓	✓	N/A	No. Longer term MR at Perranporth must avoid introducing barriers to fish movement and consider other HMWB mitigation measures. This can be conditioned for any MR or FCRM scheme or strategy.
Porth Stream (PU32.4)	N/A	✓	✓	N/A	No
Menahyl (PU33.3)	N/A	✓	✓	N/A	No MR is proposed at Mawgan Porth to support dune system, and should consider further HMWB mitigation measures. Any MR scheme to be conditional on avoiding the introduction of barriers to fish movement.
Porthcothan Stream (PU33.5)	N/A	✓	✓	N/A	No
Harlyn Water (PU34.2)	N/A	✓	✓	N/A	No
Camel (PU35.4 - 35.8)	N/A	✓	✓	N/A	No
Issey Stream (PU35.4)	N/A	✓	✓	N/A	No
Polmorla Stream (PU35.5)	N/A	✓	✓	N/A	No
River Amble (35.8)	N/A	✓	✓	N/A	No. Any MR scheme or strategy at Amble Marshes must not introduce ,and where possible should reduce, barriers to fish movement; other HMWB mitigation measures should be considered in particular increasing in-channel morphological diversity. Amble Marshes SSSI designation and Water Level Management Strategy should support this criteria.
Polzeath (PU36.2)	N/A	✓	✓	N/A	No. Longer term MR at Polzeath must avoid introducing barriers to fish movement. This can be conditioned for any MR scheme or strategy.
Port Quin (PU 37.2)	N/A	✓	✓	N/A	No. MR at Port Quin must avoid introducing barriers to fish movement. This can be conditioned for any MR scheme.

**Assessment Table 4f - Summary of achievement (or otherwise) of environmental objectives for each water body in the SMP area, continued**

Water Body	Environmental objectives met?				WFD Summary Statement required?
	WFD1	WFD2	WFD3	WFD4	
Port Gaverne (PU 37.4)	N/A	✓	✓	N/A	No. MR at Port Gaverne must avoid introducing barriers to fish movement. This can be conditioned for any MR scheme.
Bude Canal (Neet) (PU40.3)	N/A	✓	✓	N/A	No. HTL for Bude Canal & River Neet must consider HMWB mitigation measures in particular, where possible, improving fish migration and educating on sensitive management practices. This can be included as a criteria for any scheme or strategy.
Crooklets Stream (PU40.4)	N/A	✓	✓	N/A	No. MR for Crooklets Stream must ensure that any scheme does not introduce any barriers to fish movement. This can be included as a criteria for any scheme.
Tamar (GW) (PU1.1 - 1.2)	N/A	N/A	N/A	✓	No
Looe and Fowey (GW) (PU2.1 - 5.3)	N/A	N/A	N/A	✓	No
South Cornwall (GW) (PU6.1 - 16.5)	N/A	N/A	N/A	✓	No
West Cornwall (GW) (PU17.1 - 30.4)	N/A	N/A	N/A	✓	No
North Cornwall (GW) (PU31.1 - 40.4)	N/A	N/A	N/A	✓	No
Hartland and Torridge (GW) (PU41.1 - 41.2)	N/A	N/A	N/A	✓	No
St Mary's (GW) (PU42.1 - 42.21)	N/A	N/A	N/A	✓	No
St Martins (GW) (PU43.1 - 43.4)	N/A	N/A	N/A	✓	No
Bryher and Tresco (GW) (PU45.1 - 45.13)	N/A	N/A	N/A	✓	No
St Agnes (GW) (PU46.1 - 46.14)	N/A	N/A	N/A	✓	No