Sector: Impo Waterbody Information: Watert Watert Watert		Impoundments for Water Storage Waterbody Name Waterbody ID Waterbody Type	and Supply	Downstream NGR Watert Upstream NGR Watert	Easting ody ody	Northing]	List the pressures identifect designation for this waterb	I within the HMWB/AWB ody		
	Α	1	В	1	с	D	E	signficant pressure not ide HMWB/AWB designation	ecora other water uses appearing to cause ignificant pressure not identified within the IMWB/AWB designation		1
Pressure (physical modification)	Is the pressure present? (Y/N) If Yes, proceed to column B.	Potential Impacts	Is there a significant adverse ecological impact or, in the absence of any mitigation already in place, could there be a	Mitigation Measures I	Is the measure practicable given the characteristics of the water body? (Yes/No) If yes, proceed to Column D. If no, document and	Is the mitigation measure in place and adequate? (Yes/No) If No, proceed to Column E. If Yes document the mitigation measure and	Can the measure be implemented without having a significant adverse impact on use? (Yes/No) If yes, proceed to column F, if no	Can the measure be implemented without having a significant adverse impact on the wider environment? (Yes/No) If yes, proceed	Document: x : For measures not in place (proceed to Column H) ✓: For those already in	Will the mitigation measure provide more than a slight ecological benefit when considered alone or in combination with other measures? If	Document any reasons which could affect the inclusion of the measure in the RBMP (e.g. prioritisation in combination with other

		mitigation already in place, could there be a significant adverse impact? (V/N) if yes, proceed to column C, if no document and proceed to Column G.			yes, proceed to Column D. If no, document and proceed to column G.	E. If Yes document the mitigation measure and proceed to Column G.	(Yes/No) If yes, proceed to column F, if no document and proceed to Column G.	wider environment? (Yes/No) If yes, proceed to Column G, If no document and proceed to Column G.	 ✓: For those already in place and adequate - : For those screened out 	alone or in combination with other measures? If yes, proceed to Column I; if no, document	prioritisation in combination with other measures, disproportionate cost, other reasons why an extended deadline or less stringent target might be justified)
npoundment .	Adverse impact on the movement of salmon and sea trout between habitats important in their life cycles.		Structures or other mechanisms in place and managed to enable fish to access waters upstream and downstream of the impounding works.	1							
			Where structures or other mechanisms are in place to enable fish to access waters upstream of the impounding works, the volume and timing of flow releases is sufficient to enable and, where relevant, trigger fish migration.	2							
			Management of the risk of fish entrainment in turbines or intakes to enable downstream fish passage.	3							
			Enable access to relevant feeder-streams draining into the reservoir at appropriate times for spawning and migration.	4							
	Adverse impacts on the downstream over hows necessary to maintain river habitats and their associated aquatic plants or animals		estabilish an appropriate baseline now regime.	э							
			Re-engineering of the river where the flow regime cannot be modified.	6							
	Adverse impacts on the morphological characteristics of the downstream river		Maintain sediment management regime to avoid degradation of the natural habitat characteristics of the downstream river.	7							
			Provide flows to move sediment downstream (freshets and/ or spills).	8							
	Adverse impacts on the water quality of the downstream river		Ensure that good status of dissolved oxygen levels is being achieved downstream of the impounding works	9							
			Ensure that the thermal regime in waters downstream of the impounding works is consistent with good status conditions.	10							
	Adverse impacts on the level regime necessary to maintain loch habitats and their associated aquatic planis and animals in the impounded water body		Ensure the rate and range of any artificial drawdown is appropriately managed to maintain aquatic plant and animal communities in the shore zones of impoundments with gently shelving shore zones.	11							
			Ensure the seasonal pattern of water levels during each year is managed so as to enable the establishment and retention of aquatic plant and animal communities in the shore zone of the impoundment.	12							

Sector:	Inland Navigation						
Waterbody Information:	Waterbody Name		Easting	Northing	List the pressures identifed within the HMWB/AWB		
	Waterbody ID	Downstream NGR Waterbody	/		designation for this waterbody		
	Waterbody Type	Upstream NGR Waterbody	/				
					Record other water uses appearing to cause signficant		
					pressure not identified within the HMWB/AWB		
					designation		

	Δ	1	В	1		С	D	F	F	G	н	
Pressure (physical modification)	Is the pressure present? (Y/N) If Yes, proceed to column B.		Is there a significant adverse ecological impact or, in the absence of any mitigation already	Mitigation Measures	No.	Is the measure practicable given the characteristics of the water body? (Yes/No) If	Is the mitigation measure in place and adequate? (Yes/No) If No, proceed to Column E. If Yes	Can the measure be implemented without having a significant adverse impact on use?	Can the measure be implemented without having a significant adverse impact on the	Document: x : For measures not in place (proceed to Column H)	Will the mitigation measure provide more than a slight ecological benefit when considered	Document any reasons which could affect the inclusion of the measure in the RBMP (e.g.
			in place, could there be a significant adverse impact? (V/N) if yes, proceed to column C, if no document and proceed to Column G.			yes, proceed to Column D. If no, document and proceed to column G.	document the mitigation measure and proceed to Column G.	(Yes/No) if yes, proceed to column F, if no document and proceed to Column G.	wider environment? (Yes/No) If yes, proceed to Column G, If no document and proceed to Column G.	 ✓: For those already in place and adequate -: For those screened out 	alone or in combination with other measures? If yes, proceed to Column I; if no, document	prioritisation in combination with other measures, disproportionate cost, other reasons why an extended deadline or less stringent target might be justified)
Hard bank protection E.g. Steel piling, vertical walls. Includes hard bank protection in a state of disrepair.		Loss of riparian zone / marginal habitat / loss of connectivity / loss of sediment input / loss of wave energy absorption		Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	1*							
				Preserve and where possible enhance ecological value of marginal aquatic habitat, banks and riparian zone Preserve and where possible restore bistoric	2							
				aquatic habitats	3^							
Measures 4, 5 and 6 are referred to in the	AINA report and an	e for NEW MODIFICATIONS ONLY	-	Operational and structural shanges to looks	4-6				r	F	-	
All types of locks, including locks in a state of disrepair, and weirs associated with locks		upstream, reduced bedload downstream		and weirs	7*							
(Also consider impacts associated with hard bank protection and sediment management)		population movements		Install fish passes	8*							
Other navigation structures Maintenance areas / docks / drv docks /		Invasive species transfer		Awareness raising / information boards (invasive species)	9							
marinas / slipways / rowing steps		Source of fine sediment / deposition of fine sediment		Awareness raising / information boards (boat wash / sources of fine sediment)	10							
(Also consider impacts associated with Measure 11 is referred to in the AINA repo	rt and is for NEW M	ADDIFICATIONS ONLY			11							
Realignment / Re-profiling / Re-grading for navigation		Loss of morphological diversity and habitat		Increase in-channel morphological diversity	12*							
Sediment management		Direct loss of / impact to aquatic habitats / hydromorphology		Sediment management strategies (develop and revise)	13							
		Transfer of fine sediment downstream										
		Bankside erosion and impacts to riparian habitats										
		Source of fine sediment (disposal of dredgings on banks)										
De-watering (for maintenance of navigable channel)		Loss / impact to aquatic flora and fauna		Phased de-watering and other techniques	14							
Vegetation control		Physical disturbance of bed and or bank- increased		Selective vegetation control regime	15							
		sediment input; sediment mobilisation and loss of marginal / riparian vegetation		Appropriate vegetation control technique	16							
		······		Appropriate timing	17							
		Transfer and establishment of alien invasive species		Appropriate techniques (invasive species)	18							
Boat Movement Surface water disturbance and turbulence created by passage of hull		Bank Erosion / loss of marginal, riparian vegetation (boat wash)		Encourage reduction of boat wash impacts through traffic management in sensitive areas	19							
(Also consider impacts associated with				Encourage use of environmentally friendly vessel design	20							
on-line moorings and sediment management)				Bank rehabilitation	21							
				Awareness raising / information boards (boat wash / sources of fine sediment)	10							
		Bed scour / Sediment mobilisation / macrophyte disturbance (propeller action)		Lateral zoning to concentrate boats within a central track	22*							
				Encourage use of environmentally friendly vessel design	20							
		Transfer and establishment of alien invasive species		Awareness raising / information boards (invasive species)	9							

* Measures that are not applicable to AWBs (i.e. canals). These measures should be screened out at Column C when assessing an AWB *Italics* denote measures that are applicable to more than one impact.It may not be necessary to re-assess the measure, please see Guidance.

Sector:	
Waterbody Information:	

FRM River and Drainage Watercourses

Waterbody Name		Easting	Northing	
Waterbody ID	Downstream NGR Waterbody			l
Waterbody Type	Upstream NGR Waterbody			l

List the pressures identifed within the HMWB/AWB designation for this waterbody	
Record other water uses appearing to cause significant pressure not identified within the HMWB/AWB designation	

		Α		В		1	С	D	E	F	G	н	
Pressure (physical modification)	Sub-pressure	is the pressure present? (Y/N) if Yes, proceed to column B.	Potential Impacts	Is there a significant adverse ecological impact or, in the absence of any mitigation already in place, could there be a significant adverse impact? (VM) y toes, proceed to column C, if no document and proceed to Column G.	Mitigation Measures	No.	Is the measure practicable given the characteristics of the water body? (Yes/No) If yes, proceed to Column D. Hno, document and proceed to column G.	Is the mitigation measure in place and adequate? (versNo) # No, proceed to Column E. If Yes document the mitigation measure and proceed to Column G.	Can the measure be implemented without having a significant adverse impact on use? (VersNo) I yes, proceed to column F, if no document and proceed to Column 6.	Can the measure be implemented without having a significant adverse impact on the vider environment? (YasNby If yes, proceed to Column G, If no document and proceed to Column G.	Document: x: For measures not in place (proceed to Column H) y: For those already in place and adequate - : For those screened out	Will the mitigation measure provide more than a slight ecological benefit when considered alone or in combination with other measures? IV eso, proceed to Column I; if no, document	Document any reasons which could affect the inclusion of the measure in the RBMP (e.g. prioritisation in combination with other measures, disproportionate cost, other reasons why an extended deadline or less stringent target might be justified)
Bank and bed reinforcement and in- channel structures	Hard protection e.g. Steel piling, vertical walls and gabion baskets. Includes hard bank protection in a state of disrepair.		Loss of riparian zone / marginal habitat / loss of lateral connectivity / loss of sediment input		Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	1							
					Protect and enhance ecological value of marginal aquatic habitat, banks and riparian zone	2							
					Protect and restore historic aquatic habitats	3							
			Loss of sediment continuity (lateral) - build up of sediment in the channel		Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	4							
					Protect and enhance ecological value of marginal aquatic	5							
					habitat, banks and riparian zone								
					Protect and restore historic aquatic habitats	6							
	Dams, sluices, weirs and		Loss of biological continuity - interference with		Operational and structural changes to sluices and weirs	7							
	Area a abo		non population movements		Install fish passes	8							
			Loss of sediment continuity (longitudinal) - build		Removal of structure	9							
			up of sediment upstream, reduced bedload downstream										
Channel alteration	Realignment / re-profiling / regrading		Loss of morphological diversity and habitat		Retain marginal aquatic and riparian habitats	10							
					Increase in-channel morphological diversity, e.g. install instream features; 2 stage channels	11							
	Culverts		Loss of morphological diversity and habitat		Re-opening existing culverts	12							
					Alteration of channel bed	13							
			Continuity		Re-opening existing culverts	14							
Floodplain modification	Flood banks and flood walls		Loss of riparian zone / marginal habitat / loss of lateral connectivity / loss of sediment input		Flood bunds (earth banks)	15							
					Set-back embankments (a type of managed retreat)	17							
					Improve floodplain connectivity	18							
Operations and maintenance	Sediment management (including dredging)		Direct loss of / impact on aquatic habitats / hydromorphology		Sediment management strategies (develop and revise) which could include a) substrate reinstatement, b) sediment traps, c) allow natural recovery minimising maintenance, d) riffle	19							
			Transfer of fine sediment downstream		construction, e) reduce all bar necessary management in flood risk areas								
			Bankside erosion and impacts on riparian habitats										
			Source of fine sediment (disposal of dredgings										
	Removal/clearance of urban		Loss of aquatic habitats		Appropriate channel maintenance strategies and techniques	20							
	trash and woody debris		-		e.g. minimise disturbance to channel bed and margins								
			I ransfer of time sediment downstream		Appropriate channel maintenance strategies and techniques e.g. remove woody debris only upstream of, or within, areas of urban flood risk	21							
	Vegetation control		Physical disturbance of bed and or bank - increased sediment input; sediment mobilisation and loss of marginal / riparian vegetation		Appropriate vegetation control regime e.g. a) minimise disturbance to channel bed and margins. b) selective vegetation management for example only cutting from one side of the channel, c) providing/reducing shade, d) seasonal maintenance	22							
			Transfer and establishment of alien invasive species		Appropriate techniques to prevent transfer of invasive species e.g. appropriate training of operational staff	23							
	Pipes, inlets, outlets and off- takes		Hydromorphological alterations of water and sediment inputs through artificial means		Appropriate techniques to align and attenuate flow to limit detrimental effects of these features	24							
Land use (Not in itself a sustainable flood management pressure)	Intensive land use		Changes to vegetation, hydrology and sediment supply		Land management strategies (develop and revise), including SUDS and changes in farming practices and forest management	25							

Sector:	Wider Environment					
Waterbody Information:	Waterbody Name		Easting	Northing	List the pressures identifed within the HMWB/AWB designation for this	
	Waterbody ID	Downstream NGR Waterbody			waterbody	
	Waterbody Type	Upstream NGR Waterbody				
					Record other water uses appearing to cause significant pressure not identified within the HMWB/AWB designation	

		Α		В]	I	С	D	E	F	G	Н	I
ressure (physical odification)	Sub-pressure	Is the pressure present? (YIN) if Yes, proceed to column B.	Potential Impacts	Is there a significant adverse ecological impact or, in the absence of any mitigation already in place, could there be a significant adverse impact? (7M) yes, proceed to column C, if no document and proceed to Column G.	Mitigation Measures P	No.	Is the measure practicable given the characteristics of the water body? (<i>VesINo</i>) if yes, proceed to Column D. Hro. document and proceed to column G.	Is the mitigation measure in place and adequate? (Yes/No) If No, proceed to Column E. If Yes document the mitigation measure and proceed to Column G.	Can the measure be implemented without having a significant adverse impact on use? (Yes/NO) I yes, proceed to column F, if no document and proceed to Column G.	Can the measure be implemented without having a significant adverse impact on the wider environment? (result) If yes, proceed to Column G, If no document and proceed to Column G.	Document: x: For measures not in place (proceed to Column H) Y: For those already in place and adequate - : For those screened out	Will the mitigation measure provide more than a slight ecological benefit when considered alone or in combination with other measures? Y we, proceed to Column I; if no, document	Document any reasons which could affect the inclusion of the measure in the RBMP (e.g. prioritisation in combination with other measures, disproportionate cost, other reasons why an extended deadline or less stringent targe might be justified)
ank and bed inforcement and in- nannel structures	Hard protection e.g. Steel piling, vertical walls and gabion baskets. Includes hard bank protection in a state of disrepair.		Loss of riparian zone / marginal habitat / loss of lateral connectivity / loss of sediment input		Removal of hard bank reinforcement / revetment, or replacement with soft engineering solution	1							
					Protect and enhance ecological value of marginal aquatic habitat, banks and riparian zone Protect and rectore bictoric aguittic habitate	2							
			Loss of codiment continuity (lateral) - build up of	-	Pomoval of bard back reinforcement / revolutions	3						-	
			sediment in the channel		replacement with soft engineering solution								
					Protect and enhance ecological value of marginal aquatic habitat banks and riparian zone	5							
				Protect and restore historic aquatic habitats	6								
	Dams, sluices, weirs and		Loss of biological continuity - interference with		Operational and structural changes to sluices and weirs	7							
	gravel traps		fish population movements										
			I and of andiment continuity (Institution) build		Install fish passes	8							
beenel elteration Destinament / re-prefiling /		up of sediment upstream, reduced bedload downstream		Removal of suddule	9								
hannel alteration	Realignment / re-profiling /		Loss of morphological diversity and habitat		Retain marginal aquatic and riparian habitats	10							
					Increase in-channel morphological diversity, e.g. install instream features; 2 stage channels	11							
Culverts	Culverts		Loss of morphological diversity and habitat		Re-opening existing culverts	12							
			Centinuity		Alteration of channel bed	13							
			Continuity		Alteration of channel hed	14							
loodplain	Flood banks and flood walls		l oss of riparian zone / marginal habitat / loss of		Flood bunds (earth banks)	16							
odification			lateral connectivity / loss of sediment input										
					Set-back embankments (a type of managed retreat)	17							
nerations and	Sediment management		Direct loss of / impact on aquatic babitats /		Sediment management strategies (develop and revise) which	10							
aintenance	(including dredging)		hydromorphology		could include a) substrate reinstatement, b) sediment traps, c) allow natural recovery minimising maintenance, d) riffle								
			I ransfer of fine sediment downstream		flood risk areas								
			Bankside erosion and impacts on riparian habitats										
			Source of fine sediment (disposal of dredgings on banks)										
	Removal/clearance of urban trash and woody debris		Loss of aquatic habitats		Appropriate channel maintenance strategies and techniques e.g. minimise disturbance to channel bed and margins	20							
			Transfer of fine sediment downstream		Appropriate channel maintenance strategies and techniques e.g. remove woody debris only upstream of, or within, areas of urban flood risk	21							
Vegetation control	Vegetation control		Physical disturbance of bed and or bank - increased sediment input; sediment mobilisation and loss of marginal / riparian vegetation		Appropriate vegetation control regime e.g. a) minimise disturbance to channel bed and margins, b) selective vegetation management for sample only cutting from one side of the channel, c) providing/reducing shade, d) seasonal maintenance	22							
			Transfer and establishment of alien invasive species		Appropriate techniques to prevent transfer of invasive species e.g. appropriate training of operational staff	23							
	Pipes, inlets, outlets and off-		Hydromorphological alterations of water and sediment inputs through artificial means		Appropriate techniques to align and attenuate flow to limit	24							
and use	Intensive land use		Changes to vegetation, hydrology and sediment		Land management strategies (develop and revise), including	25							
lot in itself a ustainable flood lanagement ressure)			supply		SUDS and changes in farming practices and forest management								