

Ehen, Calder & Whitehaven Catchment Action Plan

Action Required	Issues being addressed	Project Name	Project description	Status						
				Proposed idea	Developed idea	Appraisal/ Scoping	Agreed as feasible	Funded project	Current phase complete	Complete
Strengthening defences Engineered defences and infrastructure improvements to reduce flood risk	<ul style="list-style-type: none"> Flood risk to properties 	Fairways, Seascale Flood Attenuation Scheme	Flood water storage to reduce flood risk to Seascale. Project led by Cumbria County Council.							
		Seamill Coastal Erosion Protection	Improve coastal defences, which have failed. Project led by Copeland Borough Council.							
		St Bees & Sandwith Coastal Erosion Protection	Improve current standard of protection from coastal erosion and flooding, project led by Copeland Borough Council.							
		Parton fluvial and surface water flooding investigation	Flood relief scheme to reduce flooding from overland flows led by Cumbria County Council. Currently being investigated, a pipe collapse has been located and funding				Not economically feasible			
		Ennerdale Bridge Flood Alleviation Scheme	Environment Agency project to manage flood risk from Croasdale beck							
		Skirting Beck, Egremont	Managing flood risk from Skirting Beck and Whangs Beck via measures including culvert improvements, storage areas, SUDS and property level resilience. Led by The Environment Agency.					Funded through Environment Agency		
		East Whitehaven culverts	Cumbria County Council project to reduce flooding from local culverts							
		Railway Terrace, Seascale	The modelling showed the flooding event was likely caused by a blockage. Modelling with a "clean" system shows little risk to the properties. Therefore a large scale flooddefence project is not required.					Not required		
		Moresby watercourse investigation	Flood relief scheme to reduce flooding from overland flows led by Cumbria County Council. Currently being investigated, a pipe collapse has been located and funding being sought to repair and possibly replace.							
		Whitehaven Coastal Erosion and Flooding protection (Whitehaven South Beach Appraisal)	Appraisal of options for reducing flood risk to Whitehaven led by Copeland Borough Council				Not economically feasible			
		Seascale Coastal Erosion Protection	Improve current standard of protection from coastal erosion and flooding, project led by Copeland Borough Council							
Natural Flood Management Suite of measures to 'slow the flow' and hold water in the landscape	<ul style="list-style-type: none"> Flood risk in villages across the catchment Biodiversity – Poor habitat in wider catchment Water Quality – Diffuse water pollution from agriculture Resilience to drought 	Whtiriggs beck black pipe Seascale	Replace a degrading culvert with a reedbed and open swale system to reduce contamination of bathing waters and reduce flood risk.					Funded by Cumbria county Council		
		Making space for water schemes	Small infrastructure improvements and water storages features to reduce flood risk to villages across the area					Funded by Cumbria county Council		
River & Lake Restoration Restoring natural river courses and functioning, lakes and wetlands	<ul style="list-style-type: none"> Flood risk Resilience to drought Biodiversity – Poor in-stream habitat 	Keekle restoration phase 1	Restoration project to remove plastic liner from historic mining activity and reinstate the bed over a 160 m trial site of the River Keekle.							
		Keekle restoration phase 2	Restoration project to remove plastic liner from historic mining activity and reinstate the bed over full 2.5 km site of the River Keekle.							
		Harrington Nature reserve	De-silting the reservoir and reduce future siltation. Create a new designed wetland and reinstate a substantial area of open water.					Funded by Allerdale Borough Council		

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In-stream Habitat Improvements Increasing instream habitat diversity, bank stabilisation, riparian fencing	• Biodiversity – Poor in-stream habitat	Electro-fishing and habitat surveys	Programme of annual fish and habitat surveys to target improvement works							
		River Ehen Pearl Mussel Project	United Utilities are funding West Cumbria Rivers Trust to deliver multi-benefit actions in the upper River Ehen catchment to improve water quality and habitat to help secure the future of the population of freshwater pearl mussels. Follows on from the successful EU LIFE+ Pearls in Peril project.					Funded by United Utilities		
		Adopt-a-Beck Kirk and Black beck	Implementation of a programme of river bank and in-river habitat improvement works on Black and Kirk beck by West Cumbria Rivers Trust.					Funded by NuGEN		
Biosecurity Preventing spread of invasive non-native species	• Biodiversity – Poor in-stream habitat • Biodiversity – Poor habitat in wider catchment	Check, Clean, Dry campaign	Renewed partnership drive to promote good biosecurity throughout the area for recreation activities .							
Invasive non-native species control Reducing the impact and preventing further spread of invasive non-native species	• Biodiversity – Poor in-stream habitat	River Ehen invasive non-native species control	Programme of eradication by West Cumbria Rivers Trust including spraying American skunk cabbage, injecting Japanese knotweed, mink control and volunteer events to pull Himalayan balsam.					Funded by Natural England		
		Cumbria freshwater Invasive non-native species initiative	Overarching strategy for tackling invasive non-native species across Cumbria							
Enhancing Agri-Environments Improving farm infrastructure and land management	• Water Quality – Diffuse water pollution from agriculture • Biodiversity – Poor in-stream habitat (linked to SAC failure)	Adopt-a-Beck Kirk and Black beck	Implementation of a programme of works to reduce diffuse pollution and improve habitat on Black and Kirk beck by West Cumbria Rivers Trust.					Funded by NuGEN		
		Water friendly farming projects	Farm advice and projects to improve water quality on Lowca, Pow and Newmill beck							
		Catchment Sensitive Farming	Natural England Initiative to provide training, advice and grant support for farmers and land managers to reduce water and air pollution from agriculture					Funded by Natural England		
Peat restoration Restoring areas of degraded and eroded peat	• Flood risk – to properties • Biodiversity – Poor habitat in wider catchment • Resilience to drought	Heckbarley fell peat restoration	Restoration of areas of degraded peat							
		Banna fell	Restoration of areas of degraded peat							
Tackling pollution from private waste water treatment Increasing awareness around septic tank maintenance and drainage misconnections	• Water Quality – Pollution from waste water	'Call of Nature' campaign Lowca, Pow and Newmill beck	Increase awareness of septic tank new laws, required maintenance and pollution issues to private home owners and small businesses.							
Woodland creation and management Increasing cover of riparian and catchment woodlands and management of existing woodlands	• Flood risk – to properties • Resilience to drought • Biodiversity – Poor habitat in wider catchment • Biodiversity – Poor in-stream habitat • Water Quality – Diffuse water pollution from agriculture	Wild Ennerdale	A partnership of organisations (Forestry Commission, United Utilities, National Trust and Natural England) working with local landowners to restore natural processes in the Ennerdale valley							
		Egremont Woodland creation	Idea proposed by Forestry Commission to plant native woodlands upstream of Egremont to slow the flow during flood events and increase habitat diversity.							
		Keeping Rivers Cool	Working with landowners to create more woodland cover, especially in riparian areas, building on current work by the Woodlands Trust and Forestry Commission							
Education & Engagement Increasing opportunities for people to learn, enjoy and volunteer for rivers	• Engagement – Lack of access to rivers/opportunities to enjoy and learn about rivers	Wild Rivers education	School visits and field trips to educate primary school children about how rivers work and how to look after them					Funded by United Utilities		
		River Watchers West coast	Events, guided walks and volunteer opportunities to encourage greater involvement in the natural environment							