# Axe and Exe River Improvement Project Project Plan

















Axe Vale Rivers Association





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## Introduction

Agriculture covers the majority of both of the catchments, which range from extensively managed moorland, such as found on Exmoor, to intensive arable farming around Exeter (see figure 1). Whilst the Axe, is an important grass growing area, specialising in dairy farming (see figure 2).



Figure 1. Map of the River Exe with WFD compliance.



Figure 2. Map of the River Axe (excluding the Yarty) and the compliance with WFD.

### **River Exe Characteristics**

The River Exe catchment covers a large area (1,530 km<sup>2</sup>) and drains a diverse range of habitats from the moorland and mires of the Exmoor National Park where the river rises, to the lowland floodplains and the City of Exeter where it flows into the Exe Estuary. The River Exe rises at a level of 450 m AOD on Exmoor and descends 87.7 km to its tidal limit with an average gradient of 5.2 m/km. The River Culm rises at 280m AOD on the Blackdown Hills. It descends 45.3 km along an average gradient of 5.1m/km to its confluence with the River Exe at Stoke Cannon.

The River Exe catchment extends across several different landscape types. The Rivers Exe and Barle rise in 'The Chains' in the wet open moorland of Exmoor, before running south-eastward through a steep sided valley with extensive ancient semi-natural oak woodlands. Further east, smaller tributaries run-off the Brendon Hills, with the river Haddeo dammed in the mid 1970's to create Wimbleball Reservoir. Much of the Exmoor landscape has been modified by man, with extensive enclosure and agricultural improvement taking place in the 19<sup>th</sup> Century, giving it a softer, less rugged, appearance than Dartmoor.

Below Dulverton there is a transition where the River Barle joins the River Exe. From here the Exe and its tributaries cut through the Culm Measures creating valleys with rounded ridges between. The floodplain starts to widen out and there are meadows alongside the river on the valley floor. Reaching Tiverton marks another change, this time to the important rich farmland of the Devon Redland, which extends to the coast and includes the valleys of the larger tributaries of the River Exe like the Creedy and the Culm.

The headwaters of the River Exe lie on Middle and Upper Devonian rocks. The rock strata are a complex sequence of slates, siltstones, thin limestones and sandstones. These rocks act as a minor aquifer, usually yielding only sufficient water to meet the private domestic requirements, however, they provide essential support to the baseflow of the upper reaches of the river Exe, Barle and Batherm during extended low flows.

The average annual rainfall for the catchment is 1,097mm which is higher than the national mean (908mm). However it ranges from 772mm on the eastern side of the catchment to 2,108 mm on Exmoor. The maximum daily mean flow of 286.95 cumecs and the maximum instantaneous flow of 492.56 m<sup>3</sup>/s were both recorded on the 4<sup>th</sup> December 1960 at Thorverton resulting in significant flooding of Exeter and Tiverton, emphasizing the need for flood alleviation schemes, which were subsequently built in the 1970's.

As in the majority of river catchments in Devon, the River Exe catchment is of great importance for nature conservation. Indeed it contains some of the finest sites in the South West. The Exe Estuary and surrounding land are designated as a Special Protection Area (SPA) under the EC Birds Directive and as a wetland of International

Importance, especially as a waterfowl habitat, under the terms of the RAMSAR Convention.

Twenty-seven sites are also designated Sites of Special Scientific Interest (SSSI) including a number of river and wetland sites. In particular, the River Barle (SSSI) is considered to be the best English example of a river which has an acidic upland character grading into a rich sandstone type.

### **River Axe Characteristics**

The river Axe rises near Cheddington in Dorset and is joined by several tributaries before discharging into the sea at Seaton approximately 44km from its source. The river drains a catchment area of 426 km<sup>2</sup> and has a fairly shallow gradient of 4.3 m/km.

The Yarty is the principal tributary of the Axe. Rising near Staple Hill in Somerset it flows south for approximately 24km, where it is joined by the Corry Brook, before meeting the Axe at its junction 1km south-west of Axminster. The Yarty is much steeper than the River Axe with an average gradient of 8.5 m/km.

The Axe catchment is underlain by rocks dating from the Triassic through to the Cretaceous Periods. Most of the major river valleys have associated deposits of river gravels and alluvium, whilst the slopes in the catchment are mainly covered by brown earth soils. Land surrounding the main river channel and some tributaries is typically fine loamy soil, slowly permeable and subject to seasonal waterlogging. Pockets of slowly permeable clayey soils may also be found over the mudstone.

The Axe is a fairly rural catchment being mainly agricultural in nature, with some light industry limited to the three main urban areas around Chard, Axminster and Seaton. There is considerable variation in the rainfall across the catchment, from the wet high grounds of the Blackdown Hills and the North Dorset downs to the more sheltered lowland areas of the Axe estuary. Average annual rainfall varies with altitude, from 820mm along the coast to over 1,067mm on high ground.

Virtually the entire catchment falls within designated landscape areas, with three large sections being recognised as being of national importance. These are the Dorest, Blackdown and East Devon Areas of Outstanding Natural Beauty (AONB's). The coastal section of the catchment contains some of the region's most spectacular sites with its recent attainment of World Heritage Site Status to recognise, in particular, the geological importance of the Dorset and East Devon coastline.

### **Background & Partnership**

The main stem of the Axe flows through an almost unbroken agricultural landscape from its source to the sea. From its junction with the river Blackwater, for the 13km to the Estuary, the river Axe is designated a Site of Special Scientific Interest (SSSI), this section is also designated as a Special Area of Conservation (SAC) under the EC Habitats Directive. The River Axe was designated as a SAC as it contains particular species of water crowfoot (*ranunculus spp.*) and water-starwort (*Callitriche spp.*). This vegetation typically grows in small, lowland rivers on chalk/limestone geology. The growth of these plant species can be adversely affected by siltation and trampling by livestock. Important fish, including Atlantic salmon, bullhead and lamprey are also found in the Axe. Likewise the spawning success of fish can also be affected by fine sediment clogging potential spawning gravels, with barriers to migration, such as weirs also limiting the populations within the river.

The decline in habitat and water quality of the River Axe has become of increasing concern in recent years. The river Axe currently fails to meet good ecological status for most of its length, with the problem of diffuse pollution, unrestricted livestock access to the river and soil and riverbank erosion being widespread. These issues are particularly widespread along the Axe SSSI/SAC with the SSSI failing to achieve favourable condition on most recent assessment by Natural England, as a result of siltation and diffuse pollution amongst other issues.

Following on from the Axe Valley and Cycleau Projects, Catchment Sensitive Farming (CSF) has been working closely with farmers to directly tackle these issues. Most of the upper and main river Axe is currently a priority area for targeting CSF advice and grant funding. The Axe and Exe River Improvement Project (AERIP) will therefore concentrate its targeted farm advisory work outside of this area, on another failing tributary, the River Blackwater. Whilst work to improve fish passage, will target weirs in the upper main stem to improve the access to the headwaters.

In order to help the Rivers Axe and Exe and their tributaries meet and pass WFD good ecological status. A wide ranging project partnership must pull together with all the other local stakeholders involved from across the respective catchments to address the significant issues and pressures that the catchments are under. This will range from South West Water, with Wimbleball, its strategic water supply reservoir on Exmoor; to the significant number of individual landowners and farmers that partake in agriculture, the primary industry across most of these rural catchments. There is a well established network of parties that are interested in working together to ensure that the rivers are protected and enhanced; from the very active riparian interests to the government agencies with important overseeing regulatory roles.

# **WFD Catchment Report Card**

Axe Waterbody Cluster



Figure 3. River Axe Map with selected Waterbody ID's.

With its source high on Exmoor, linked to its extensive moorland farming, the River Exe is fortunate to have higher quality water and riverine habitat within the Exmoor National Parks protected landscape. It was probably not coincidental that with high rainfall and steep valleys that a site on Exmoor was chosen for a significant water supply reservoir. However, this has brought the associated tributaries of the Haddeo and Pulham their own unique set of problems linked to regulated flows and heavy modification. Further down the catchment as the soils become more productive, the intensity of farming increases, as do the threats to water quality. It is probably therefore no surprise to find the most significant problems located with the Crediton Red Soils stretching across the Culm and Creedy River Valleys.

There are historically significant partnerships already established across the catchments; with the Environment Agency working closely with the Axe riparian interests to restock salmon sourced from the river Exe after the complete collapse in the River Axe salmon population from the late 1990's. All riparian groups are keen to work together to see improvements and share knowledge as seen with the Westcountry Hatchery Forum. Through this joint working with the active Riparian Associations and the WRT, the Environment Agency has particularly good working relationships with the riparian interests helping to steer sustainable improvements. Together significant catchment management approaches are being developed; here the Environment Agency and the River Exe and Tributaries Association (RETA) are a particularly good example for partnership delivery of catchment actions.

Work through the AERIP will be guided to help tackle the problems of siltation and poor fish access, particularly in the Culm. Here, stocking will be an important component to help kick start the recovery of the salmon population whilst the longerterm water quality improvements from the work of CSF are seen. Likewise, whilst the AERIP tackles the problem of modified flows and a shortage of good quality of spawning gravel in the Haddeo, stocking will be an important aspect of the work both with RETA and with the local schools, with River Exe Salmon being hatched from ova in their own Classrooms, before release to their local rivers.

# **WFD Catchment Report Card**

Exe Waterbody Cluster



Figure 4. River Exe Map with selected Waterbody ID's.

WB Name	Exe	Exe	Exe	Batherm	Batherm	Haddeo	Haddeo	Pulham	Culm	Culm	Culm	Axe	Ахе	Blackwater
WB ID	9040	15050	15060	15070	14860	15090	20900	20910	14970	15000	14980	14840	8870	8850
Overall Status	Moderate	Moderate	Moderate	Poor	Moderate	Moderate	Moderate	Poor	Moderate	Poor	Poor	Poor	Poor	Moderate
Ecological Status	Moderate	Moderate	Moderate	Poor	Moderate	Moderate	Moderate	Poor	Moderate	Poor	Poor	Poor	Poor	Moderate
Chemical Status	Good	Good	х	х	х	х	х	х	Good	х	х	х	Good	х
Biological														
Fish	High	х	Moderate	Moderate	Moderate	Moderate	Good	Poor	х	Moderate	Poor	Good	х	Good
Invertebrates	х	High	High	High	х	High	High	Good	Good	High	Good	High	High	High
Macroalgae	х	х	х	х	х	х	х	х	х	х	х	х	х	х
Macrophytes	х	Good	High	High	х	Good	х	х	х	Moderate	х	Moderate	Moderate	х
Phytobenthos	Moderate	Moderate	Good	Poor	х	Moderate	х	х	х	Poor	х	Poor	Poor	х
Phytoplankton	х	х	х	х	х	х	х	х	х	х	х	х	х	х
Physio-Chem														
Ammonia	High	High	High	Moderate	High	High	High	High						
Dissolved O <b>x</b> ygen	Good	High	High	High	High	High	High	High	High	High	High	High	High	High
рН	High	High	High	High	High	High	High	High						
Phosphate	Good	High	High	Good	Good	High	High	High	Moderate	Moderate	Good	Moderate	Moderate	Poor
Temperature	High	High	Good	High	Good	High	Good	High						
Specific Pollutants	High	High	High	Moderate	High	High	High	High						
Hydro-														
morphology														
Hydrology	Not High	Moderate	Not High	Not High	Not High	Х	Х	High	Not High	High	Not High	High	Not High	High
Morphology	Х	Good	Good	Good	Good	Х	Х	Good	Good	Good	Good	Good	Good	Good

#### **Action Plan**

The Axe and Exe River Improvement Project will aim to tackle the key issues that are affecting the ecological and chemical status of rivers and improve the WFD status. It will work with the key local partners like RETA, Axe Vale Rivers Association, farmers, landowners, National Park, AONBs and the Environment Agency and will aim to employ a full time member of staff for 3 years in order to deliver the project.

Where WFD water bodies are failing for fish, targeted fisheries work will be conducted including the improvement of degraded habitat to encourage fish populations, particularly in the improvement to riparian areas that lack suitable cover for fish, such as where they have been degraded by unrestricted cattle access.

The introduction of spawning gravels will also help improve the recruitment of local fish stocks, particularly where there is a known deficiency, such as below Wimbleball Reservoir. Information from the WIPS and from the local Environment Agency Team have all been used to guide these actions, particularly as far as sediment and nutrient transfer are concerned, which will be key in tributaries such as the Blackwater on the Axe and the Batherm on the Exe. Here agricultural/diffuse pollution issues within a catchment and failures for phosphate or phytobenthos, will also be targeted with agricultural best practice advice alongside soil testing. Demonstration events of best practice will be organised for groups of farmers in each catchment. Farmers will have the loan of a soil aerator to clearly understand the benefits of removing surface compaction, to help reduce runoff and thereby maximise the productivity of pastures through the efficient utilisation of manures and fertiliser. As well as fencing, alternative drinking supplies will be encouraged to reduce the intrusion of livestock and associated soil input to watercourses.





Figure 5. Photograph above left of cattle causing damage to banks when drinking from River Exe.

Figure 6. Photograph above right of an Irish Pipe Bridge River Axe, Manor Farm, Seaborough.

Where fish failures and specific issues such as weirs are preventing fish migration these will also be tackled. Direct improvements to weirs with the installation of fish passes will be undertaken, thereby ensuring good access to the spawning grounds upstream.

#### **Outputs**

We aim to assist the Environment Agency in delivering a GES (Good Ecological Status) for fish and other biological failures by 2015.

Each activity is designed according to best practices described in the Environment Agencies River Restoration Handbook and the Guidance manuals of the River Restoration Centre. However the Westcountry Rivers Trust has extensive experience in land and river management and has co-authored several Environment Agency guides including the Management of Woody Debris, Strategic Bankside Coppicing and the management of Riparian Woody Debris. Additionally WRT authored the Best Farming Practice Guidance notes currently used by the Catchment Sensitive Farming Initiative and the Trust is contracted by CSF and DEFRA nationally to train Farm Advisors for delivery of Integrated Farm Advice.

The table below gives proposed projects for delivery within the catchments. The table is a complete list of activities which we feel will help meet WFD good status by 2015, but this does not preclude additional activity which we will try to encourage in partnership with local stakeholders to meet other objectives of priority areas (DWI) (Habitats and Species)

Waterbody ID	Name	Failure	Action
GB108045020900 GB108045015090	Haddeo	Fish (Moderate)	Electrofishing survey- to determine fish abundance pre and post works
00100043013030		(Moderate)	Habitat creation-
		Photobenthos (Moderate)	1 km Selective coppicing and introduction of Large Woody Debris (25 stems)
			Gravel Augmentation – 15 sites to have gravel introduced to create improved spawning areas. Gravel Loosening – 15 sites to have gravels loosened mechanically. Gravel Washing – 10 sites to have gravels washed by water powered pump.
			Sediment Traps/Diverters – Implement 4 sediment traps/diverters to prevent direct run-off from forestry tracks to the river.

**Table 2:** Outlines water-body, failure and proposed action

GB108045020910	River Pulham	FISH (POOR)	<ul> <li>Habitat creation- 1km Selective coppicing and introduction of Large Woody Debris (25 stems) to provide instream cover for fish and habitat for invertebrates.</li> <li>Fencing – 1 km river.</li> <li>Sediment Traps/Diverters – Implement 4 sediment traps/diverters to prevent direct run-off from forestry tracks to the river.</li> </ul>
			Work with South West Water- Potential improvements Brompton Regis STW.
GB108045014860	River	Fish	Habitat creation-
GB108045015070	Batherm	(Moderate)	2km Selective coppicing and introduction of Large Woody Debris (50 stems)
		Phytobenthos (Poor)	<b>Fencing -</b> 2km of fencing and installation of alternate drinking to reduce intrusion of livestock and bank side erosion.
			Nutrient management- 25 soil tests per year to be made available to farmers in the catchment.
			Farm demonstration – Workshops and loan of aerator to reduce run-off
			Electrofishing survey- to determine fish abundance pre and post works
GB108045009040 GB108045015050 GB108045015060	River Exe	Fish (Moderate) Phytobenthos (Moderate)	Weir easement- Improve migratory fish passage for the main river and tributaries upstream Works at Pynes (SX 917 626), Exwick (SX 905 505) and Cowley (SX 908 537) weirs to improve fish passage will all greatly benefit upstream reaches.
			1km Selective coppicing and introduction of Large Woody Debris (25 stems)
			Improvements in water quality from upstream reaches will benefit the phytobenthos in these main river sections.

GB108045014970 GB108045015000	River Culm	Fish (Moderate)	Weir Easement –Improve migratory fish passage at Uffculme (ST 065122) and Whitehall (ST 127138) weirs.
GB108045014980		Fish (Poor)	Habitat improvement – 1km Selective coppicing and Introduction of Large Woody Debris (25 stems).
		Phytobenthos	
		(Poor)	Electrofishing survey- to determine fish abundance pre and post works
GB108045008850	Blackwater	Phosphate	Electrofishing survey- to determine fish abundance pre and post works
		(Poor)*	
			<b>Fencing -</b> 2km of fencing and installation of alternate drinking to reduce intrusion of livestock and bank side erosion.
			Farm demonstration – Workshops and loan of aerator to reduce run-off.
			Stock management - Provision of cattle tracks to reduce sedimentation.
			Nutrient management- 25 soil tests per year to be made available to farmers in the catchment.
GB108045014840 GB108045008870	Axe	Phytobenthos (Poor)	Weir Easement – Improve migratory fish passage at Clapton weir and at Manor Farm, Seaborough.
			Improved access for salmonids to the headwaters of the River Axe.

**Table 3** – Gantt chart showing timings of actions for the Axe and Exe RIP.

Q1 runs from May to July, Q2 from August to October and so on.

AERIP	ERIP					20	13			20	)14	
ТАЅК	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
1 - Review												
Desk study (data collation)	1											
Annual review (report)				1				1				1
Additional monitoring (sites)	40					40				40		40*
2 - Restore												
Fencing (km)		1		1		1		1	1	1		
Cattle Troughs						1		1		1		
Coppicing (km)			2				2				2	
Large Woody Debris Intro(Sites)			25			25	25			25	25	
Gravel cleaning (sites)		10				10				10		
Gravel augmentation (sites)		15				15				15		
Cattle Tracks				2		2				2		
Sediment Diverters/Traps	2			2				2			2	
Fish Passes		2				2				3		
3 - Restock												
Restocking locations (sites)		10				10				10		
4 - Re-engage												
Salmon in the classroom				4				4				4
Soil Testing with farmers			10				10				10	
Community events	1	1	1	1	1	1	1	1	1	1	1	1
Partnership meetings	1		1		1		1		1		1	

\* RETA to provide some funding to undertake the final electrofishing monitoring in summer 2015

### **Outcomes**

The implementation of these works will help to address WFD failures in the region and also tackle local issues to individual rivers and catchments. There will also be significant ecosystem service benefits such as an improvement in raw water quality, which will help the Environment Agency meet objectives under the bathing water quality directive.

By working with individual landowners across a catchment there is scope for significant catchment scale improvements through targeted improvement works. The reduction in bankside erosion will reduce tonnes of soil being eroded and will act as a buffer against nutrient and agro-chemicals from fields. The advice provided to farmers will also help them become more aware of the impacts they are having and reach a practical and economic solution.

The completion of walkover surveys will provide current and future conservationists with a valuable resource which will also allow future work to be targeted and may highlight new issues that require attention. Electrofishing surveys and hydro-geomorphological assessment pre and post work will also allow us to assess work improvements and provide a baseline against which further improvements can be made.

The work has been targeted using local knowledge and that gained from the Waterbody Implementation Plans to help directly improve the ecological status of rivers. The Westcountry Rivers Trust also has extensive experience (15+ years) of delivering such projects, having a wide remit that currently covers large agricultural improvement projects such as Upstream Thinking which is a £2.9m project in partnership with South West Water. There are also pan European fisheries research projects including AARC Project and work that that's has been undertaken through the River Improvement Fund through DEFRA.

## **Summary Impact appraisal**

 Table 4. Adapted after the Millennium Ecosystem Assessment and details the estimated delivery in other

 ecosystem services during the Axe and Exe River Improvement Project

Ecosystem Service	Estimated change	Notes
Provisioning services		
Fresh water	++	Purification of water by increased retention of sediment by buffers
Food (e.g. crops, fruit, fish, etc.)	-	Potential loss of grazing counteracted by improved management
Fibre and fuel (e.g. timber, etc.)	+	Coppicing opportunities for domestic use
Genetic resources	0	Small increase or neutral
Biochemicals, natural medicines,	0	Small increase or neutral
Ornamental resources (e.g. shells)	?	Not known
Regulatory services		
Air quality regulation	0	Small increase or neutral
Climate regulation (sequestration)	+	Net increase in greenhouse gas sequestration with small scale habitat shift
Water regulation (flooding, etc.)	+	Net increase in water storage with slowing flows
Natural hazard reg. (i.e. storms)	+	Valued in water regulation
Pest regulation	?	Not known
Disease regulation	?	Not known
Erosion regulation	++	Reduced erosion through improvement in bank stability
Water purification & treat waste	+	Valued in fresh water provision
Pollination	0	Small increase or neutral
Cultural services		
Cultural heritage	++	Increase in cultural knowlegde about fishing, farming and the river
Recreation and tourism	++	Improved direct fishing but also downstream bathing water
Aesthetic value	0	Valued in recreation
Spiritual and religious value	?	Not known
Inspiration of art, folklore, etc	0	Valued in culture
Social relations	0	Valued in culture
Supporting services		
Soil formation	+	Valued in erosion regulation and fresh water provision
Primary production	+	Quantification complex
Nutrient cycling	+	Valued in Climate regulation and fresh water provision
Water recycling	+	Valued in fresh water provision
Photosynthesis	+	Quantification complex
Provision of habitat	++	Net increase in diverse habitat

### **Dissemination of information**

Large sections of the River Axe and Exe have open access and are visited, walked and cycled by thousands of people each year. Therefore there is an excellent opportunity to educate and engage with the local community as well as significant numbers of tourists that visit East Devon and Exmoor.

As the value of the Axe and Exe increases both ecologically and as unique fisheries, there will be an increased number of people who will wish to visit, maintain and continue to restore them. Throughout the course of the project there will be knowledge transfer between all collaborative partners. Each partner will benefit from the other's experience, whether it be local knowledge, project management experience, or innovative approaches to a particular problem. Electrofishing data and that from any other surveys, including those for invasive species will be made available to project partners including the Environment Agency who may use it to target works or use as evidence to demonstrate improvements over time.

### **Management Plan**

WRT is an environmental charity (Charity No: 1135007) established in 1994 to secure the preservation, protection, development and improvement of the rivers, streams, watercourses and water impoundments in the Westcountry and to advance the education of the public in the management of water and water related activities.

The Trust's vision is to have living, working landscapes that deliver employment, food and amenity without negatively impacting biodiversity or raw water quality. We feel this can be achieved without heavy regulation and supervision by educating people about their place in the water cycle and its importance to their life. The river is the report card for how sustainably we live on the land.

To achieve its aims the Trust has won and led numerous projects ranging in scale from tens of thousands to multimillion-pound national and international projects. The Trust has delivered projects using National Structural Funds including Objective 5B, Objective 1 and most WRT are jointly leading the RDPE funded Country Sports and Tourism Project which is one of six selected to improve tourism in the region. The Trust has also delivered several major engineering projects in recent years installing fish passes and removing weirs.

Internationally WRT have led the Atlantic Salmon Arc Project (1 and 2) using European Interreg 3B funding for the Atlantic Area worth nearly £2 million over 5 years. WRT are currently leading the AARC project in partnership with 9 other EU universities and public authorities across 5 Member States which is worth nearly £3 million over three years (EA are an Associate Partner). WRT are also leading the Interreg IVB, North West Area, WATER project worth nearly £3.5 over three years in collaboration with UK and French partners including the Environment Agency. WRT have also been partners in several EU projects focussed on controlling Invasive Weeds, delivering Farm Management advice; compiling Eel Management plans for the region and undertaking primary research. WRT have been through rigorous financial and delivery audits undertaken by DEFRA or international EU Audit teams and have to date had not significant issues.

In summary WRT has all of the skills required to run and deliver the proposed projects. The Trust structure and staffing is included below:



The project will be led by a WRT based project coordinator in charge of overall project management and delivery. The project coordinator will work alongside a project accountant within WRT to ensure good governance, record keeping and financial acuity. The project coordinator will invite supporting partners to sit on a project steering group, which will meet at six-month intervals to review progress and integration. The project coordinator will report to existing partnership groups in the area to ensure maximum integration of the work with existing plans and partnerships.

The project accountant will compile quarterly claims for eligible costs and the Finance Director Lynne Hyland (ACCA) will sign off each claim. Accounts will be audited annually by an external auditor.