

Company Registration Number

07840801
Charity number: 1150278

JBA TRUST LIMITED
UNAUDITED
FINANCIAL STATEMENTS

31 OCTOBER 2020

(A company limited by guarantee)

ArmstrongWatson[®]
Accountants, Business & Financial Advisers

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**REFERENCE AND ADMINISTRATIVE DETAILS OF THE COMPANY, ITS TRUSTEES AND ADVISERS
FOR THE YEAR ENDED 31 OCTOBER 2020**

Trustees

Rob Lamb, JBA (Managing Director)
Jeremy Benn, JBA
Jim Hall, University of Oxford
Keith Beven, Lancaster University
Nick Russell, Independent Financial Consultant

Company registered number

07840801

Charity registered number

1150278

Registered office

1 Broughton Park, Old Lane North, Broughton, Skipton, North Yorkshire, BD23 3FD

Company secretary

C Robson

Independent examiners

Armstrong Watson Audit Limited, Number 3, Acorn Business Park, Airedale Business Centre, Skipton, North Yorkshire, BD23 2UE

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TRUSTEES' REPORT
FOR THE YEAR ENDED 31 OCTOBER 2020

The Trustees present their annual report together with the financial statements of the company for the 1 November 2019 to 31 October 2020. The Trustees confirm that the Annual Report and financial statements of the company comply with the current statutory requirements, the requirements of the company's governing document and the provisions of the Statement of Recommended Practice (SORP), applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2015) as amended by Update Bulletin 1 (effective 1 January 2015).

Trustees Annual Report

The JBA Trust is a charity that enhances understanding and management of risks in the water environment by enabling research, education and training.

We work with leading academic researchers, NGOs, charities and the JBA Group of companies in four key areas:

- Providing training and education in schools and in the water management community
- Facilitating collaboration between academia and industry to deliver high quality scientific research
- Supporting post-graduate education by providing technical expertise and financial bursaries for taught postgraduate (e.g. PGCert, MSc) and research (e.g. MRes, PhD) studentships
- Publishing and disseminating research outputs, enabling knowledge exchange and sharing good practice

Director's Report

This year has tested everyone's resilience. Despite lockdowns and restrictions on society in 2020, we have been fortunate to have continued support from our sponsors.

We have also had to adapt. Our strategy has always been to take a wide range of approaches in promoting research, supporting education and sharing knowledge. We have blended in-person engagement at events, often using our physical models, with digital content. We have attended and supported conferences and meetings, whilst also using online collaboration tools and publishing research. We adopted this multi-modal strategy because we thought, and still think, it is the most effective way for us to deliver public benefit. But it has also given us the capacity to adapt over the past year.

Our usually busy schedule of engagement events paused completely in March 2020 with the onset of strict public health measures in the UK. We quickly shifted our focus to digital content with the launch of a set of online resource packs, driven by the sudden switch to home learning. Our packs are geared towards two school age ranges, and to higher education. I am pleased to say that more than 2,700 visitors have accessed our learning packs since we published them.

We have been learning, along with all our partners, about how to "do" research and knowledge-sharing through lockdowns, social distancing and working from home (or is it living at work?). We have contributed to academic conferences that moved online, and continue to see outputs being produced from our research collaborations, with seven peer-reviewed journal papers published over the last year. Our academic partners have been making huge efforts to adapt and keep projects going, especially

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where this has involved changes, sometimes extensive, to planned lab work, field visits or physical model applications.

It's been heartening to see the graduate researchers we support finding ways to keep their projects moving forwards. We have been able to help four graduate students approach and achieve successful completion of their doctorates. I am very pleased that we have also supported new graduate researchers starting PhD projects this year, working on important topics in environmental risks and resilience. Starting a three- or four-year research project is a big commitment and daunting enough in any circumstances, let alone having to do it all through online meetings. Hopefully, we will be able to meet in person before too long.

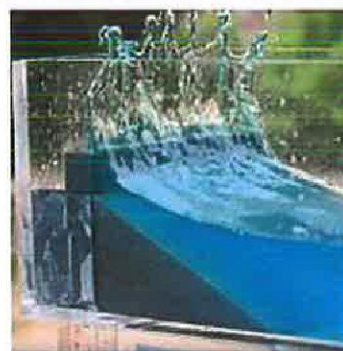
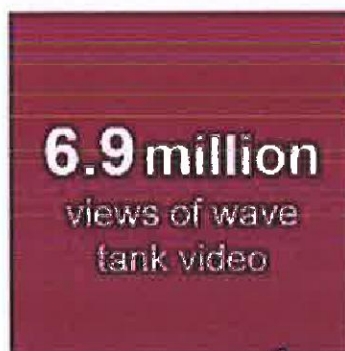
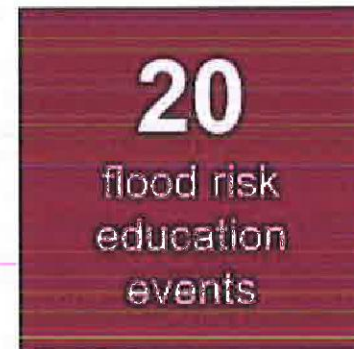
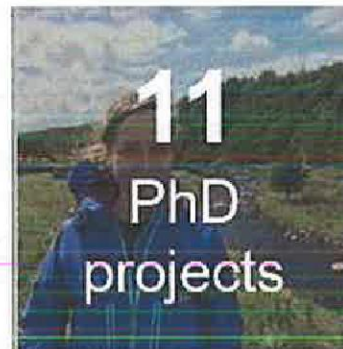
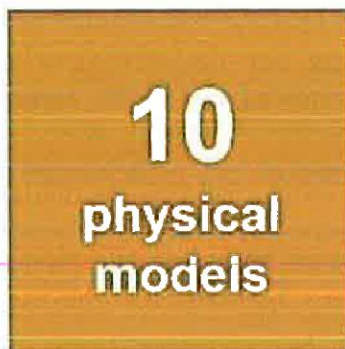
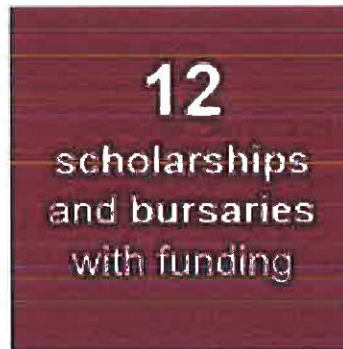
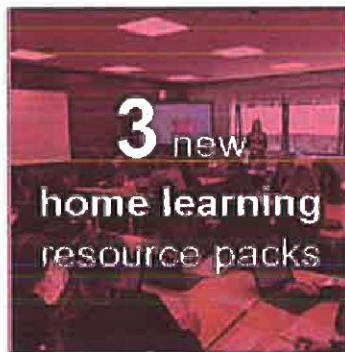
Looking ahead to the coming year, we are adapting our plans and systems of work in the hope that we may be able to safely re-introduce some in-person engagement activities. Meanwhile, we will continue to focus on digital content. Covid-19 is causing significant disruption to learning at all levels, which will doubtless have repercussions over the coming years. We will be exploring how we can keep helping students and educators through our digital resources, interactive online events and "virtual" placements.

The Covid-19 pandemic has caused almost everyone to take an immediate and pressing stake in risk analysis, modelling and data. It has concentrated attention on the connections between health, society, environment, economies and communities. Increasingly, there is a sense of urgency about our relationship with the environment. We need skilled, knowledgeable people across a wide range of scientific, engineering, technical and creative disciplines to tackle environmental challenges of resilience and sustainability, along with recovery from the pandemic. We will increase our support for graduate training over the coming year and will be exploring further ways in which we can help create opportunities for education and training at different levels.

Finally, a word of thanks to the directors of the JBA Group companies for their commitment to the JBA Trust, and, in particular, the individuals who have at various times offered and given extra in-kind support privately to help us with our work during a difficult year.

Professor Rob Lamb, Managing Director

Highlights





1 Environmental education and training

We support a wide range of activities aimed at encouraging students at schools and universities across the country to develop or enhance their interests in water and environmental management, which could also ultimately lead them to pursue careers in the field. Our education and training activities also extend to the wider community, and to flood risk management professionals.

Home learning resources

From March 2020, COVID-19 restrictions meant that our normal educational outreach activities in schools and to the wider community, in particular our physical model demonstrations, were significantly limited. However, we were able to adapt our activities and continue our support for the STEM (Science, Technology, Engineering and Maths) curriculum. In response to the first COVID lockdown in the UK, we focused on supporting those having to learn from home by creating and launching three new packages of online home learning resources in April 2020.

The home learning resources are packaged by age and have the STEM curriculum at their heart, with elements of engineering, maths and geography included in each topic in the context of flood risk and water management. Our physical models play a big part in many of the topics, but others can be explored without a demonstration model. The resources include videos, worksheet activities, puzzles, case studies and exercises. [There were 2,700 visits to our learning resource packs, with over 1,000 individual resources downloaded.](#) The learning resources can be accessed and downloaded at www.jbatrust.org/how-we-help/learning-resources/.

River Structures

Rivers are often controlled and managed using man-made structures like dams, bridges and culverts. This topic explores how some of these engineering structures affect the flow of water in the rivers.

Click here to watch

Hydraulic flume showing structures in rivers

Structures in rivers: what they are and why they are built

Activities

A worksheet about engineered structures in rivers

A worksheet about water level and velocity

A worksheet about predicting water level

A worksheet about water level and flow for 14-16 year olds

A worksheet about engineered structures for 14-16 year olds

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Physical models

Prior to COVID-19 restrictions, we were able to use our physical models of rivers and coasts to raise awareness, and demonstrate the technical principles, of flood and coastal risk management. Our [suite of physical models](#) includes four different sized hydraulic flumes, two wave tanks, an AR (Augmented Reality) sandbox and a PARM (Projection Augmented Relief Model).

We demonstrated these models at schools and events across the country to support the school curriculum, STEM events and highlight careers in environmental risk management.

In 2019-2020, the flumes were used at 11 events, including three primary schools and two secondary schools. Our mini flume was also used to support a community event held by the River Worth Friends, a group which aims to raise the status of the river amongst local people. An overview of our physical models is provided below.

Hydraulic flumes

Our hydraulic flumes all show the flow of water in a simple channel, driven by a system of re-circulating pumps. The collection comprises a [trailer flume](#), a [free-standing flume](#), a [mini flume](#) and a [sectional flume](#). Scale models of typical engineered structures such as weirs, bridges, culverts and debris screens show how different structures interact with the flow and affect flood risk.

The sectional hydraulic flume is the latest addition to our suite of models. Built in sections, which can be clipped together in different combinations, this flume is specifically designed to demonstrate culvert and debris screen hydraulic behaviour.

Different structures and lengths of channel can be combined with varying water flow rates to represent a wider variety of situations than in our simpler models. The new flume can be extended in one metre increments, from 1m to 5m long. There are also 10° and 30° bend modules.

Pipes, arched culverts, service crossings and debris or security screens can be added in any order or combination, to show how they affect flow rates and water levels. The flume can also demonstrate the effect of changes in gradient and flow rate on water levels, as well as variations in channel roughness.

This year we uploaded [new videos of the hydraulic flume](#) with a comprehensive commentary on how engineered structures affect flow in rivers. The video has had 1.9 million views since it was posted in January 2020.



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Wave tanks

In the [wave tanks](#), different types and combinations of coastal defences can be demonstrated, and their effectiveness at preventing overtopping and flood risk tested.

Our wave tank education video shows the rates of overtopping for a beach during a storm surge, vertical and recurved sea walls, stepped and sloped revetments, rock armour and submerged near-shore breakwater. It has had 6.9 million views on the [JBA Trust YouTube channel](#) since it was posted in October 2016.

The video is also being used a resource to support the Geography GCSE AQA curriculum.



PARM

[PARM](#) (Projection Augmented Relief Model) tools use a 3D printed landscape based on LIDAR data to create an accurate model that is then augmented with projected images, for example of areas at risk of flooding.

We are continuing our collaboration with Dr Gary Priestnall at the University of Nottingham to communicate about flood risk in Skipton, North Yorkshire. We supported Emily Richardson, a research-based Masters student, to explore how a 'virtual' online PARM simulator helps people understand flood risk, helping her to adapt her research to the Covid-19 restrictions. Emily's research will help us target our education and engagement activities to improve how we communicate about flood risk concepts and strategic decision making.



Augmented Reality Sandbox

The [sandbox](#) is a very interactive visualisation tool that shows how topography affects water moving through a catchment. Participants can shape the sand to create their own river catchments and valleys which are then 'augmented' in real time by a projector which shows a coloured elevation map and contour lines. Virtual rain can be introduced to explore how catchment management and river engineering can affect the flow of water.

The sandbox and PARM were used at an Interactive Geography Day, delivered for 120 pupils at Ermysted's School in Skipton, in January 2020. The models were also used for eight other public engagement, careers and training events, including one at the Wildfowl & Wetlands Trust in Slimbridge in February 2020.



Weather station

We installed a wireless Davis Vantage Pro 2 automatic weather station and manual rain gauge at our Broughton Park office near Skipton, North Yorkshire.

The weather station measures air temperature, humidity, wind speed and direction, rainfall and pressure. In addition, a manual rain gauge is read at 09:00 GMT each day for calibration purposes.

Data recorded from this weather station is freely available for use by schools, universities and communities. It can be used for a variety of educational projects, for example weather reporting, data handling and understanding meteorological measurements.

Real time weather information is available on our [weather station dashboard](#).



Flow meter

Our Valeport 'Braystoke' Model 001 flow meter is an easy to use and reliable method of measuring water velocity in a variety of open channel environments, including salt, fresh and effluent water, from shallow streams to tidal waterways, and is ideal for field study use and hydrometric work. The portable flow meter and display unit are particularly useful for education and outreach activities, research and monitoring projects and flow gauging technique training. This year, we have been developing resources to support its use by students, professional groups and communities.

The flow meter was kindly donated by the Canal and River Trust in October 2019.





2 Science and research

One of the aims of JBA Trust is to facilitate collaboration between academia and industry and deliver scientific research that improves society's understanding and management of risks in the environment. We publish and disseminate the resulting research outputs, enabling knowledge exchange and sharing best practice.

Collaborative research

In 2019-20 we worked with universities, research institutions, public sector and charitable organisations. We are pleased to report on the good progress of the following collaborative research projects.

Third UK Climate Change Risk Assessment

The Third UK Climate Change Risk Assessment (CCRA) report was published in July 2020. It updates the projections of current and future flood risk to predict how flood risk would affect properties, people and assets in the mid to late century.

The analysis considered river, coastal, surface water and groundwater flooding, taking into account population growth, adaptation measures and climate change using the new UKCP18 climate projections.

The CCRA Evidence Report is used to inform the UK Government's actions to adapt to the challenges of climate change.

We supported the CCRA through co-authorship of the research on future flood risk, including analysis of the role of nature-based flood risk management approaches.

[Access the Third UK Climate Change Risk Assessment, Future Flood Risk \(CCRA\) reports](#)



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The role of Digital Technologies in understanding, mitigating and adapting to environmental change

Partners: Lancaster University

We have been supporting a 5-year EPSRC funded research project at Lancaster University led by Professor Gordon Blair, looking at three areas of innovation: the Internet of Things (IoT), cloud computing and data science. In the first year the team focused on utilising digital technologies to enhance flood modelling within a concentrated programme of agile development – a “Flood Modelling Sprint”.

We co-hosted and participated in workshops with the Lancaster University team in 2017 and 2018 to identify industry drivers and technology needs in applications of flood risk modelling. A wide range of organisations were part of this process including the Environment Agency, ECMWF, United Utilities, Oxford University, CEH and JBA.

The outputs of the workshops were incorporated into research papers, including a publication in the journal Environmental Modelling and Software on “Models of Everywhere revisited: A technological perspective”, in December 2019. The paper is a technological perspective on an approach to environmental modelling that emphasises models to learn about places.

We also contributed to a paper on data-driven decision support in flood risk management published in the Journal of Flood Risk Management in August 2020. This work demonstrated examples of the use of semantically-enriched data, natural language processing and semantic queries to blend structured data from detailed flood models with post-flood event reports.

[Access “Models of everywhere revisited: A technological perspective”](#)

[Access “Rethinking data-driven decision support in flood risk management for a big data age”](#)



DARE - Data Assimilation for the RESilient city

Partners: Reading University

We are working with Professor Sarah Dance at Reading University who was awarded a Fellowship (EPSRC Senior Fellow in Digital Technology for Living with Environmental Change) and is leading the DARE project – Data Assimilation for the RESilient city.

This project has led to the development of a PhD topic on data assimilation using Earth observation data for 2D flood modelling through the SCENARIO DTP (Doctoral Training Partnership) and with help from our sponsors we are supporting a doctoral research student, Helen Hooker.

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Historical chronology of flash flood and hail events

Partners: David Archer, Newcastle University and Reading University

This year, we added a database to our website, produced by David Archer, that lists flash flood events in Britain derived from historical reports dating back over more than 200 years. The aim is to support improved assessments of flash flood risk for a given location and more generally of catchment vulnerability to flash flooding. Flash floods arising from intense rainfall are rare events at a specific location and there may be few if any recent records. A search of a chronology of more than 200 years provides a better basis for assessing the probability of occurrence than the limited observations currently available, especially for surface water floods.

This chronology is a culmination of the "SINATRA" (Susceptibility of catchments to INTense RAInfall and flooding) research project that we worked on with Newcastle and Reading universities and was funded by the UK NERC Flooding from Intense Rainfall programme (the 'early chronology').

[Access the British Chronology of Flash Floods](#)



Yorkshire iCASP

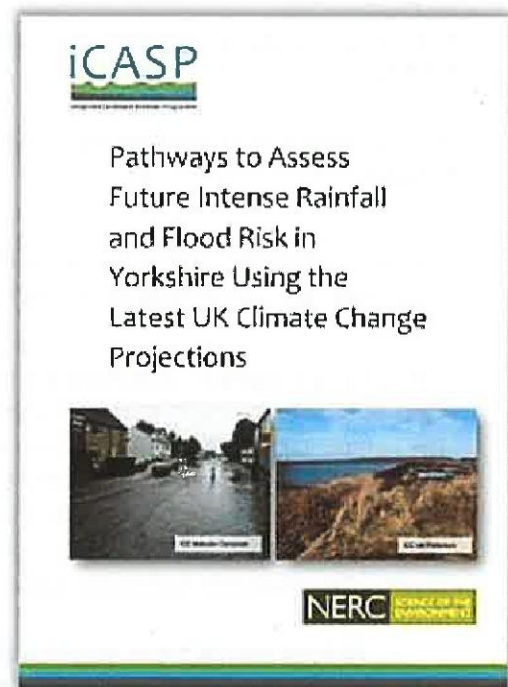
Partners: Led by Universities of Leeds, Sheffield and York, with the National Centre for Atmospheric Science. 16 additional 'springboard' partners (including industry, NGOs and government)

iCASP is a 5-year programme that will utilise £4.5m of NERC funding combined with in-kind and delivery support from partners to inform policy, investment decisions and new practice for regional and national agencies focusing on the Ouse catchment.

It aims to build on NERC-funded science in climate change, flooding, integrated catchment management, carbon storage in soils, water quality and water resources to generate economic, societal and environmental benefits in rural and urban areas of Yorkshire. JBA Trust are a 'springboard' partner and sit on the governance panel.

Our technical contribution has focused on supporting the Yorkshire Region Climate Change Forum, providing case studies and guidance for organisations to update existing planning and assessment processes using UKCP18 data.

[Access iCASP resources and publications for UK climate projections](#)



Doctoral research projects

Our collaboration with universities across the UK enables us to support graduate researchers (research students) working on doctoral projects to develop advanced skills and deliver high quality research that helps enhance the understanding of a wide range of risks in the environment. We support doctoral researchers through a variety of programmes including doctoral training centres funded by UK Research and Innovation (UKRI).

The projects we supported in 2019-20 are summarised below; more information about each project can be found on the [PhD research](#) pages of our website.

Table 1. Summary of doctoral research projects

Topic	Partners	Researcher
Storm clustering and its influence on coastal morphology and defences	University of Southampton, Environment Agency	Luke Jenkins
Enhancing forecasting flood inundation mapping through data assimilation	Reading University	Helen Hooker
Understanding and estimating uncertainty in global flood risk models	Bristol University	Georgios Saralidis
Modelling wave interactions over space and time	Lancaster University	Jake Grainger
Examining the role of habitat quality in determining river ecosystem resilience to extreme flood events	University of Leeds, Environment Agency	Andrew Johnson
Estimating flood frequency using documentary and floodplain sedimentary archives to extend flood series	University of Lincoln, Environment Agency	Josephine Westlake
Methods and tools to communicate climate change and air quality risk	Lancaster Environment Centre	Suzanne van Zijlen
Hydrodynamically- and ecologically-driven design of weirs, hydropower plants and fish passes	University of Leeds	Tom Padgett
Multi-scale sediment and debris impacts of Natural Flood Management (NFM) measures	University of Leeds	Eleanor Pearson
Impact of woody debris on hydro-geomorphological processes and flood risk	University of Leeds, Yorkshire Dales Rivers Trust	Zora Van Leeuwen
Impact of a Water Level Management Plan on the Humberhead Wetlands	Edinburgh University, Natural England	Ashley Buchan

As our programme matures, the graduate researchers we have supported are completing their work and generating research outputs.

This year, for example, working with the Fluid Dynamics Centre for Doctoral Training (CDT) at the University of Leeds, we supported PhD student Tom Padgett to develop a modelling tool to optimise weir, fish pass and hydro-electric power (HEP) plant configurations for given river discharge regime and channel dimensions. Tom's paper was published in the Royal Society Open Science journal in January 2020.

[Access journal paper on using computational fluid dynamics to improve fish pass design](#)



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Publication summary 2019-20

During the year, we supported and co-authored studies published as papers in peer-reviewed scientific journals. The peer review process can be lengthy, and so some of these papers report on research activity carried out in previous years.

Table 2. Summary of papers published in 2019-20

Title	Journal	Authors	Status
Individual-based model of juvenile eel movement parametrized with computational fluid dynamics-derived flow fields informs improved fish pass design	Royal Society Open Science	Padgett T.E., Thomas R.E., Borman D.J., Mould D.C.	Published
Models of Everywhere Revisited: A Technological Perspective	Environmental Modelling and Software	Blair, G, Beven, K, Lamb, R, Bassett, R, Cauwenberghs, K, Hankin, B, Dean, G, Hunter, N, Edwards, L, Nundloll, V, Samreen, F, Simm, W & Towe, R	Published
Rethinking data-driven decision support in flood risk management for a big data age	Journal of Flood Risk Management	Towe, R, Dean, G, Edwards, L, Nundloll, V, Blair, G, Lamb, L, Hankin, H, Manson, S.	Published
Developing observational methods to drive future hydrological science: Can we make a start as a community?	Hydrological Processes	Beven, K., Asadullah, A., Bates, P., Blyth, E., Chappell, N., Child, S., Cloke, H., Dadson, S., Everard, N., Fowler, H. J., Freer, J., Hannah, D. M., Heppell, K., Holden, J., Lamb, R., Lewis, H., Morgan, G., Parry, L., & Wagener, T.	Published
A risk-based network analysis of distributed in-stream leaky barriers for flood risk management	Natural Hazards and Earth System Sciences	Hankin, B., Hewitt, I., Sander, G., Danieli, F., Formetta, G., Kamilova, A., Kretschmar, A., Kiradjeiev, K., Wong, C., Pegler, S., Lamb, R.	Published Code and data SI on JBA Trust GitLab site
Modelling the Clustering of Extreme Events for Short-Term Risk Assessment	J. Agricultural, Biological and Environmental Statistics	Towe, R., Tawn, J., Eastoe, E., Lamb, R.	Published
Third UK Climate Change Risk Assessment (CCRA3): Future flood risk	Committee on Climate Change, London	Sayers, P., Horritt, M., Carr, S., Kay, A.L., Mauz, J., Lamb, R., Penning-Rowsell, E.	Published



3 Support for students in higher education

There are many academic subjects that touch upon our core interests in environmental risks and resources. Whilst undergraduate courses such as Geography and Environmental or Physical Sciences are important, the relevant specialist training often comes into greater focus at postgraduate (masters or doctoral) level. JBA Trust therefore emphasises support for students and projects at this level.

Masters projects

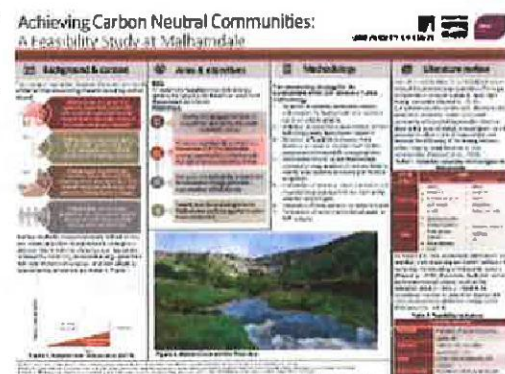
JBA Trust helps provide students with placements, technical expertise and access to software resources and case study data, as well as offering a platform for them to share highlights from their research projects. The students we help have gained insight into how methodologies and techniques are applied in industry and have an opportunity to see how they will be able to use their skills in a future career.

In 2019-20, the JBA Trust helped five students from the Universities of Nottingham and Leeds. The students worked with support from our colleagues in the JBA Group of companies on these MRes and MSc projects:

- Achieving Carbon Neutral Communities: A Feasibility Study at Malhamdale
- Channel capacity estimation
- Developing a PARM simulator to explore how online tools can improve understanding of flood risk
- Characterising and Design of Runoff Attenuation Features
- Rewilding in the English landscape: Appraising the benefits

We also support the dissemination and publication of the students' research.

Poster summaries of the MSc projects are available on our [MSc Research](#) webpages.



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The British Hydrological Society, JBA Trust and Environment Agency Studentship Awards

In 2019-20 we continued our partnership with the British Hydrological Society (BHS) and the Environment Agency to support students working towards MSc qualifications in hydrology, water resources, catchment management and other related subjects. Twelve bursaries of £1,500 were awarded and we have now supported 77 students since 2011.



Applications for these bursaries were managed using the web-based system that we developed in 2014 and have maintained since. This continued to work well and enabled us to coordinate the assessment process with the BHS and Environment Agency effectively.

Flood and Coastal Risk Management Scholarships

The challenges of more frequent extreme weather and new flood risk responsibilities mean that there is a growing need for skilled water and environmental risk management professionals. This year we continued to provide support through our scholarships to fully fund the tuition fees for Lancaster University's Flood and Coastal Risk Management Postgraduate Certificate course.

Congratulations to Daniel Turner, a Project Officer at the Yorkshire Dales Rivers Trust, who successfully completed his PGCert this year. Recipients of the scholarship since 2014 are:

- Will Barber, Flood Risk Engineering & Strategy Officer, Coventry City Council
- Michelle Fitzpatrick, engineer at the Vale of Glamorgan Council
- Vikki Teasdale, Senior SuDS Officer at Buckinghamshire County Council
- Allison Chapman, Flood Risk Engineer at Wirral Council
- Daniel Turner, Project Officer at the Yorkshire Dales Rivers Trust
- Peter Burrows, Development Engineer (SuDS) at Gateshead Council
- Faye Tomalin, Engineering Assistant in Flood and Coastal Risk Management at the Vale of Glamorgan Council
- Robin Gray, Pennine Prospects
- Stuart Edwards, North Yorkshire County Council



4 Building our reach and enabling knowledge exchange

Website

Our website enables people to easily access all our publications and educational resources, as well as find information about the Trust and our research projects. Our present website (www.jbatrust.org) launched in April 2016. It continues to help us deliver our charitable objectives of sharing best practice and supporting training and education.

Over 10,000 users visited the website in 2019-20 and we received an average of between one and two enquiries a week through the website about research support, our physical models, bursaries and scholarships and support for educational activities and events.

Social media

We use [Twitter](#) to publicise research outputs, new resources, publications or scholarships and awards. The number of @JBATrust followers is steadily growing and by the end of 2019-20 we had 777 followers. This year we also started a new Twitter account @JBATrustWeather that we use to share updates from our weather station based at Broughton Park.

YouTube channel

JBA Trust's [YouTube channel](#) hosts all our video resources. Since January 2020, the number of subscribers has increased from 12.5k to 37.1k. This year we uploaded new videos of the hydraulic flume with a comprehensive commentary on how engineered structures affect flow in rivers. The full-length flume video had nearly 2 million views in 2019-20.

We also uploaded a time-lapse of the new weather station, a video of the Skipton PARM and a new AR sandbox video.

To coincide with the first Central American World Bank/GFDRR "Understanding Risk" conference in Costa Rica, we created Spanish versions of the new videos, with translation subtitles for the flume, wave tank, PARM and sandbox videos.



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In 2019-20 we started to create a series of short careers videos to help inspire young people and to provide an insight into environmental science and engineering career opportunities. The first in our series of 'Careers for our Future Climate' videos was posted in October 2020 and will be of particular use for online career fairs.

The wave tank video continues to be very popular with over 6.9 million views since it was posted in November 2016. We have received feedback that it is being used as a resource to support the Geography GCSE AQA curriculum. The original hydraulic flume video has also proved popular with over 230,00 views since 2016.

Global reach

This year we responded to over 54 requests from around the world for support and assistance from people who, having seen our physical model and weather station resources, would like to build their own or set up their own educational project. The contacts came through social media or our website [contact us](#) pages.

By sharing factsheets and detailed specifications for our models, we aim to enable people to create their own educational resources to support their communities and raise awareness of flood risk management. In some cases, we have established an on-going dialogue with people who have approached us to help them with their own projects. We have helped high school and college students, university researchers, teachers and private individuals. The number of contacts relating to our physical models and weather station are shown below.



We were also able to track the impact of some of our published research outputs, including a paper on ['Vulnerability of bridges to scour: insights from an international expert elicitation workshop'](#) published in 2017.

Globally, the paper has been viewed 2,062 times, with 996 views in the United States of America, 196 in Germany, 172 in the UK and 160 in China and 76 in Canada. The paper has been referenced in published research 13 times.

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5 Directors and trustees

The Trustees serving during the year were as follows:

Trustees	Rob Lamb, JBA	(Managing Director of JBA Trust)
	Jeremy Benn, JBA	
	Jim Hall, University of Oxford	
	Keith Beven, Lancaster University	
	Nick Russell, Independent financial consultant	
Secretary	Craig Robson	

6 Structure, governance and management

JBA Trust is a company limited by guarantee and is governed by its Memorandum and Articles of Association. It was incorporated on 9 November 2011.

The trustees review the activities of JBA Trust every six months to ensure that they are focussed on supporting the purpose of the charity. The review also considers the strategic direction of the charity and considers how planned activities will contribute to public benefit.

We have referred to the guidance contained in the Charity Commission's general guidance on public benefit when reviewing our aims and objectives and in planning our future activities.

Appointment of trustees

On incorporation of the JBA Trust, the Board of Trustees was appointed by invitation.

To preserve independence of the JBA Trust from JBA Group companies, which provide part of its core funding, the JBA Trust's Articles of Association stipulate that the number of trustees connected to or employed by JBA Group shall always be less than half of the total number of trustees appointed at any given time.

The trustees are not remunerated (other than payment to cover travel and accommodation costs where required for JBA Trust business).

Trustee induction and training

Periodically, the trustees meet and are briefed on their legal obligations under charity and company law, updates to the Charity Commission's guidance on public benefit, the content of the Memorandum and Articles of Association and the JBA Trust business plan.

Organisation

The Board of Trustees meets every six months and is responsible for the strategic direction and policy of the charity. A Managing Director is appointed by the trustees to manage the day-to-day operations of the charity and is supported by a Programme Manager.

JBA TRUST LIMITED

(A company limited by guarantee)

Risk management

The trustees have a risk management strategy which comprises:

- An annual review of the risks the charity may face
- Policies and procedures in place to mitigate those risks
- Plans in place to minimise the impact of the risks should they materialise.

The principal risk to JBA Trust is financial sustainability. This is mitigated by having a robust reserves policy and a clear financial plan which is reviewed and subsequently approved by the trustees at the start of the financial year.

JBA Trust adopts policies and procedures from our host, the JBA Group, which are externally validated where applicable. These include policies on: Health and Safety; Energy Use; Environment; Sustainability; Social Responsibility; Equality and Diversity.

7 Financial review

The principal funding source for JBA Trust is JBA Group dividends. JBA Trust also aims to leverage funding for research projects by supporting partners in applying for funding from external organisations, for example Innovate UK or Research Councils. We also generate a small amount of additional income from hiring out our physical models to commercial organisations (no charges are made for educational or charitable activities). Personal donations are processed through an online giving platform that enables Gift Aid to be claimed efficiently.

Reserves Policy

Reserves are required to minimise the financial risks associated with the unlikely event of unplanned or unforeseen expenditure. The JBA Trust maintains sufficient reserves to cover all contractually committed expenditure or liabilities and operating costs for one year.

Plan for future periods

JBA Trust anticipates continued long-term funding from JBA Group. To ensure that the charity maximises the value of its income in carrying out its activities, the strategic plan focuses on continuing to seek match funding for research projects from funding bodies, including Universities and Research Councils. In the future JBA Trust may also wish to generate an income by licensing datasets, results or models generated by research.

The trustees declare that they have approved the Trustees Report above.

On behalf of the trustees

Rob Lamb, Managing Director of JBA Trust



13 May 2021

JBA TRUST LIMITED

(A company limited by guarantee)

GOING CONCERN

During March 2020 the global pandemic COVID-19 outbreak has had a significant impact on the worldwide economy. The trustees are aware of the effects that this may continue to have on the company and will continue to review and adopt the suitable operational strategies in order to safeguard the business for the ensuing 12 months.

The financial statements have been prepared on the going concern basis. This is based on the continued financial support of its trustees and creditors.

TRUSTEES' RESPONSIBILITIES STATEMENT

The Trustees (who are also directors of JBA Trust Limited for the purposes of company law) are responsible for preparing the Trustees' report and the financial statements in accordance with applicable law and United Kingdom Accounting Standards (United Kingdom Generally Accepted Accounting Practice).

Company law requires the Trustees to prepare financial statements for each financial year. Under company law the Trustees must not approve the financial statements unless they are satisfied that they give a true and fair view of the state of affairs of the charitable company and of the incoming resources and application of resources, including the income and expenditure, of the charitable company for that period. In preparing these financial statements, the Trustees are required to:

- select suitable accounting policies and then apply them consistently;
- observe the methods and principles in the Charities SORP;
- make judgments and accounting estimates that are reasonable and prudent;
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the charitable company will continue in operation.

The Trustees are responsible for keeping adequate accounting records that are sufficient to show and explain the charitable company's transactions and disclose with reasonable accuracy at any time the financial position of the charitable company and enable them to ensure that the financial statements comply with the Companies Act 2006. They are also responsible for safeguarding the assets of the charitable company and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

This report was approved by the Trustees, on 13 May 2021 and signed on their behalf by:


Rob Lamb, Managing Director of JBA Trust

JBA TRUST LIMITED

(A company limited by guarantee)

INDEPENDENT EXAMINER'S REPORT FOR THE YEAR ENDED 31 OCTOBER 2020

INDEPENDENT EXAMINER'S REPORT TO THE TRUSTEES OF JBA TRUST LIMITED (the 'company')

I report to the charity Trustees on my examination of the accounts of the company for the year ended 31 October 2020.

This report is made solely to the company's Trustees, as a body, in accordance with Part 4 of the Charities (Accounts and Reports) Regulations 2008. My work has been undertaken so that I might state to the company's Trustees those matters I am required to state to them in an Independent examiner's report and for no other purpose. To the fullest extent permitted by law, I do not accept or assume responsibility to anyone other than the company and the company's Trustees as a body, for my work or for this report.

RESPONSIBILITIES AND BASIS OF REPORT

As the Trustees of the company (and its directors for the purposes of company law) you are responsible for the preparation of the accounts in accordance with the requirements of the Companies Act 2006 ('the 2006 Act').

Having satisfied myself that the accounts of the company are not required to be audited under Part 16 of the 2006 Act and are eligible for independent examination, I report in respect of my examination of the company's accounts carried out under section 145 of the Charities Act 2011 ('the 2011 Act'). In carrying out my examination I have followed the Directions given by the Charity Commission under section 145(5)(b) of the 2011 Act.

INDEPENDENT EXAMINER'S STATEMENT

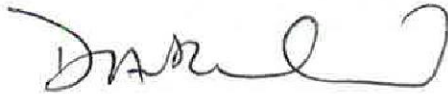
I have completed my examination. I can confirm that no matters have come to my attention in connection with the examination giving me cause to believe:

1. accounting records were not kept in respect of the company as required by section 386 of the 2006 Act; or
2. the accounts do not accord with those records; or
3. the accounts do not comply with the accounting requirements of section 396 of the 2006 Act other than any requirement that the accounts give a 'true and fair' view which is not a matter considered as part of an independent examination; or
4. the accounts have not been prepared in accordance with the methods and principles of the Statement of Recommended Practice for accounting and reporting by charities [applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102)].

I have no concerns and have come across no other matters in connection with the examination to which attention should be drawn in this report in order to enable a proper understanding of the accounts to be reached.

JBA TRUST LIMITED
(A company limited by guarantee)

Signed:



Dated: 13 May 2021

David Richmond FCA

Armstrong Watson Audit Limited
Number 3
Acorn Business Park
Airedale Business Centre
Skipton
North Yorkshire
BD23 2UE

JBA TRUST LIMITED
(A company limited by guarantee)

**STATEMENT OF FINANCIAL ACTIVITIES INCORPORATING INCOME AND EXPENDITURE ACCOUNT
FOR THE YEAR ENDED 31 OCTOBER 2020**

	Note	Unrestricted funds 2020 £	Total funds 2020 £	Total funds 2019 £
INCOME FROM:				
Donations and legacies	2	181,341	181,341	201,250
Investments	3	60	60	1,987
TOTAL INCOME		181,401	181,401	203,237
EXPENDITURE ON:				
Raising funds		-	-	745
Charitable activities	4,6,5	159,446	159,446	225,475
TOTAL EXPENDITURE		159,446	159,446	226,220
NET INCOME / (EXPENDITURE) BEFORE OTHER RECOGNISED GAINS AND LOSSES		21,955	21,955	(22,983)
NET MOVEMENT IN FUNDS		21,955	21,955	(22,983)
RECONCILIATION OF FUNDS:				
Total funds brought forward		277,339	277,339	300,322
TOTAL FUNDS CARRIED FORWARD		299,294	299,294	277,339

The notes on pages 6 to 13 form part of these financial statements.

JBA TRUST LIMITED

(A company limited by guarantee)
 REGISTERED NUMBER: 07840801

BALANCE SHEET
AS AT 31 OCTOBER 2020

	Note	£	2020 £	£	2019 £
FIXED ASSETS					
Tangible assets	9		8,884		13,836
CURRENT ASSETS					
Debtors	10	51,780		10,778	
Cash at bank and in hand		<u>250,362</u>		<u>258,939</u>	
		302,142		269,717	
CREDITORS: amounts falling due within one year	11	<u>(11,732)</u>		<u>(6,214)</u>	
NET CURRENT ASSETS			<u>290,410</u>		<u>263,503</u>
NET ASSETS			<u>299,294</u>		<u>277,339</u>
CHARITY FUNDS					
Unrestricted funds	12		<u>299,294</u>		<u>277,339</u>
TOTAL FUNDS			<u>299,294</u>		<u>277,339</u>

The company's financial statements have been prepared in accordance with the provisions applicable to companies subject to the small companies regime.

The Trustees consider that the company is entitled to exemption from the requirement to have an audit under the provisions of section 477 of the Companies Act 2006 ("the Act") and members have not required the company to obtain an audit for the year in question in accordance with section 476 of the Act.

The Trustees acknowledge their responsibilities for complying with the requirements of the Companies Act 2006 with respect to accounting records and the preparation of financial statements.

The financial statements have been prepared in accordance with the provisions applicable to companies subject to the small companies regime and in accordance with the provisions of FRS 102 Section 1A - small entities.

The financial statements were approved and authorised for issue by the Trustees on 13 May 2021 and signed on their behalf, by:



R Lamb
Director

The notes on pages 25 to 32 form part of these financial statements.

JBA TRUST LIMITED

(A company limited by guarantee)

NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 OCTOBER 2020

1. ACCOUNTING POLICIES

1.1 Basis of preparation of financial statements

The financial statements have been prepared in accordance with Accounting and Reporting by Charities: Statement of Recommended Practice applicable to charities preparing their accounts in accordance with the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) (effective 1 January 2015) - (Charities SORP (FRS 102)), the Financial Reporting Standard applicable in the UK and Republic of Ireland (FRS 102) and the Companies Act 2006.

JBA Trust Limited meets the definition of a public benefit entity under FRS 102. Assets and liabilities are initially recognised at historical cost or transaction value unless otherwise stated in the relevant accounting policy.

The principal activity of the company is to enhance understanding and management of risks in the water environment by enabling research, education and training.

The company is a company limited by guarantee incorporated and domiciled in the United Kingdom.

These financial statements have been presented in Pound Sterling as this is the currency of the primary economic environment in which the company operates.

1.2 Company status

The company is a company limited by guarantee. The members of the company are the Trustees named on page 1. In the event of the company being wound up, the liability in respect of the guarantee is limited to £10 per member of the company.

1.3 Going concern

During March 2020 the global pandemic COVID-19 outbreak has had a significant impact on the worldwide economy. The trustees are aware of the effects that this may continue to have on the company and will continue to review and adopt the suitable operational strategies in order to safeguard the business for the ensuing 12 months.

The financial statements have been prepared on the going concern basis. This is based on the continued financial support of its trustees and creditors.

The financial statements do not include any adjustment that would result in the withdrawal of this support.

JBA TRUST LIMITED

(A company limited by guarantee)

NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 OCTOBER 2020

1. ACCOUNTING POLICIES (continued)

1.4 Income

All income is recognised once the company has entitlement to the income, it is probable that the income will be received and the amount of income receivable can be measured reliably.

Donated services or facilities are recognised when the company has control over the item, any conditions associated with the donated item have been met, the receipt of economic benefit from the use of the company of the item is probable and that economic benefit can be measured reliably. In accordance with the Charities SORP (FRS 102), the general volunteer time of the Friends is not recognised and refer to the Trustees' report for more information about their contribution.

On receipt, donated professional services and donated facilities are recognised on the basis of the value of the gift to the company which is the amount the company would have been willing to pay to obtain services or facilities of equivalent economic benefit on the open market; a corresponding amount is then recognised in expenditure in the period of receipt.

Income tax recoverable in relation to donations received under Gift Aid or deeds of covenant is recognised at the time of the donation.

Income tax recoverable in relation to investment income is recognised at the time the investment income is receivable.

1.5 Expenditure

Expenditure is recognised once there is a legal or constructive obligation to transfer economic benefit to a third party, it is probable that a transfer of economic benefits will be required in settlement and the amount of the obligation can be measured reliably. Expenditure is classified by activity. The costs of each activity are made up of the total of direct costs and shared costs, including support costs involved in undertaking each activity. Direct costs attributable to a single activity are allocated directly to that activity. Shared costs which contribute to more than one activity and support costs which are not attributable to a single activity are apportioned between those activities on a basis consistent with the use of resources. Central staff costs are allocated on the basis of time spent, and depreciation charges allocated on the portion of the asset's use.

Support costs are those costs incurred directly in support of expenditure on the objects of the company and include project management carried out at Headquarters. Governance costs are those incurred in connection with administration of the company and compliance with constitutional and statutory requirements.

Costs of generating funds are costs incurred in attracting voluntary income, and those incurred in trading activities that raise funds.

Charitable activities and Governance costs are costs incurred on the company's educational operations, including support costs and costs relating to the governance of the company apportioned to charitable activities.

Grants payable are charged in the year when the offer is made except in those cases where the offer is conditional, such grants being recognised as expenditure when the conditions attaching are fulfilled. Grants offered subject to conditions which have not been met at the year end are noted as a commitment, but not accrued as expenditure.

JBA TRUST LIMITED

(A company limited by guarantee)

NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 OCTOBER 2020

1. ACCOUNTING POLICIES (continued)

1.6 Tangible fixed assets and depreciation

A review for impairment of a fixed asset is carried out if events or changes in circumstances indicate that the carrying value of any fixed asset may not be recoverable. Shortfalls between the carrying value of fixed assets and their recoverable amounts are recognised as impairments. Impairment losses are recognised in the Statement of financial activities incorporating income and expenditure account.

Tangible fixed assets are carried at cost, net of depreciation and any provision for impairment. Depreciation is provided at rates calculated to write off the cost of fixed assets, less their estimated residual value, over their expected useful lives on the following bases:

Plant and machinery	-	25% straight line
Motor vehicles	-	25% straight line
Equipment	-	25% straight line

1.7 Interest receivable

Interest on funds held on deposit is included when receivable and the amount can be measured reliably by the company; this is normally upon notification of the interest paid or payable by the Bank.

1.8 Debtors

Trade and other debtors are recognised at the settlement amount after any trade discount offered. Prepayments are valued at the amount prepaid net of any trade discounts due.

1.9 Cash at Bank and in hand

Cash at bank and in hand includes cash and short term highly liquid investments with a short maturity of three months or less from the date of acquisition or opening of the deposit or similar account.

1.10 Liabilities and provisions

Liabilities are recognised when there is an obligation at the Balance sheet date as a result of a past event, it is probable that a transfer of economic benefit will be required in settlement, and the amount of the settlement can be estimated reliably. Liabilities are recognised at the amount that the company anticipates it will pay to settle the debt or the amount it has received as advanced payments for the goods or services it must provide. Provisions are measured at the best estimate of the amounts required to settle the obligation. Where the effect of the time value of money is material, the provision is based on the present value of those amounts, discounted at the pre-tax discount rate that reflects the risks specific to the liability. The unwinding of the discount is recognised within interest payable and similar charges.

1.11 Fund accounting

General funds are unrestricted funds which are available for use at the discretion of the Trustees in furtherance of the general objectives of the company and which have not been designated for other purposes.

JBA TRUST LIMITED

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NOTES TO THE FINANCIAL STATEMENTS FOR THE YEAR ENDED 31 OCTOBER 2020

2. INCOME FROM DONATIONS AND LEGACIES

	Unrestricted funds 2020 £	Total funds 2020 £	Total funds 2019 £
Donations	116,193	116,193	126,050
Donated services	60,245	60,245	66,325
Sales	4,903	4,903	8,725
Flume income	-	-	150
	<u>181,341</u>	<u>181,341</u>	<u>201,250</u>
Total donations and legacies			
	<u>181,341</u>	<u>181,341</u>	<u>201,250</u>
Total 2019	<u>201,250</u>	<u>201,250</u>	

Donated services are provided by the trading subsidiaries of JBA Group Limited and are valued at standard chargeable rates.

3. INVESTMENT INCOME

	Unrestricted funds 2020 £	Total funds 2020 £	Total funds 2019 £
Interest received	60	60	1,987
	<u>1,987</u>	<u>1,987</u>	
Total 2019			

4. ANALYSIS OF GRANTS

	Grants to Institutions 2020 £	Grants to Support Activities 2020 £	Total 2020 £	Total 2019 £
Grants, Activities undertaken	14,048	92,283	106,331	148,142
	<u>27,820</u>	<u>120,322</u>	<u>148,142</u>	
Total 2019				

JBA TRUST LIMITED

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**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 OCTOBER 2020**

	2020	2019
	£	£
Grants to institutions	14,048	27,820
Research projects	32,262	49,784
Project pipeline development	20,228	10,304
Training projects	39,793	41,131
Seminars	-	19,103
Total	<u>106,331</u>	<u>148,142</u>

5. SUPPORT COSTS

	Activities undertaken	Total 2020	Total 2019
	£	£	£
Sub-Contractors associates	11,900	11,900	43,531
Sundry expenses	1,580	1,580	2,142
Sub-Contractors other	-	-	1,397
Communication and website	25,547	25,547	5,967
Computer consumables and software licences	452	452	343
Motor and travel expenses	2,057	2,057	7,610
Office costs	3,880	3,880	606
Insurance	509	509	494
Legal and professional	13	13	13
Depreciation	4,952	4,952	12,504
	<u>50,890</u>	<u>50,890</u>	<u>74,607</u>
<i>Total 2019</i>	<i><u>74,607</u></i>	<i><u>74,607</u></i>	

6. GOVERNANCE COSTS

	Unrestricted funds 2020	Total funds 2020	Total funds 2019
	£	£	£
Accountancy fees	2,202	2,202	2,700
Bank charges	23	23	27
	<u>2,225</u>	<u>2,225</u>	<u>2,727</u>

JBA TRUST LIMITED
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**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 OCTOBER 2020**

7. NET INCOME/(EXPENDITURE)

This is stated after charging:

	2020 £	2019 £
Depreciation of tangible fixed assets: - owned by the charity	<u>4,952</u>	<u>12,504</u>

During the year, no Trustees received any remuneration (2019 - £NIL).

During the year, no Trustees received any benefits in kind (2019 - £NIL).

During the year, no Trustees received any reimbursement of expenses (2019 - £NIL).

8. EMPLOYEES

The company has no employees other than the Trustees, in both the current and previous year.

9. TANGIBLE FIXED ASSETS

	Plant and machinery £	Motor vehicles £	Equipment £	Total £
Cost				
At 1 November 2019 and 31 October 2020	<u>37,189</u>	<u>20,100</u>	<u>1,607</u>	<u>58,896</u>
Depreciation				
At 1 November 2019	23,659	20,100	1,301	45,060
Charge for the year	<u>4,670</u>	<u>-</u>	<u>282</u>	<u>4,952</u>
At 31 October 2020	<u>28,329</u>	<u>20,100</u>	<u>1,583</u>	<u>50,012</u>
Net book value				
At 31 October 2020	<u>8,860</u>	<u>-</u>	<u>24</u>	<u>8,884</u>
At 31 October 2019	<u>13,530</u>	<u>-</u>	<u>306</u>	<u>13,836</u>

10. DEBTORS

	2020 £	2019 £
Trade debtors	350	-
Other debtors	51,430	10,778
	<u>51,780</u>	<u>10,778</u>

JBA TRUST LIMITED

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**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 OCTOBER 2020**

11. CREDITORS: Amounts falling due within one year

	2020 £	2019 £
Trade creditors	9,092	3,574
Accruals and deferred income	2,640	2,640
	<u>11,732</u>	<u>6,214</u>

12. STATEMENT OF FUNDS

STATEMENT OF FUNDS - CURRENT YEAR

	Balance at 1 November 2019 £	Income £	Expenditure £	Balance at 31 October 2020 £
Unrestricted funds				
General Funds	<u>277,339</u>	<u>181,401</u>	<u>(159,446)</u>	<u>299,294</u>

STATEMENT OF FUNDS - PRIOR YEAR

	Balance at 1 November 2018 £	Income £	Expenditure £	Balance at 31 October 2019 £
General Funds	<u>300,322</u>	<u>203,237</u>	<u>(226,220)</u>	<u>277,339</u>

13. ANALYSIS OF NET ASSETS BETWEEN FUNDS

ANALYSIS OF NET ASSETS BETWEEN FUNDS - CURRENT YEAR

	Unrestricted funds 2020 £	Total funds 2020 £
Tangible fixed assets	8,884	8,884
Current assets	302,142	302,142
Creditors due within one year	(11,732)	(11,732)
	<u>299,294</u>	<u>299,294</u>

JBA TRUST LIMITED

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**NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 31 OCTOBER 2020**

13. ANALYSIS OF NET ASSETS BETWEEN FUNDS (continued)

ANALYSIS OF NET ASSETS BETWEEN FUNDS - PRIOR YEAR

	<i>Unrestricted funds 2019 £</i>	<i>Total funds 2019 £</i>
Tangible fixed assets	13,836	13,836
Current assets	269,717	269,717
Creditors due within one year	(6,214)	(6,214)
	<u>277,339</u>	<u>277,339</u>

14. RELATED PARTY TRANSACTIONS

Included within debtors, amounts falling due within one year is an amount of £51,427 (2019 - £10,744) due from JBA Risk Management Limited. During the year, donations were received from JBA Risk Management Limited of £57,600 (2019 - £123,174).

During the year, donated services were received from Jeremy Benn Associates Limited of £118,607 (2019 - £66,325).

Both JBA Risk Management Limited and Jeremy Benn Associates Limited are under common control by virtue of the shareholdings and trusteeship of J R Benn.