



the mulloon institute
for environment, farming and society



ANNUAL REPORT 2019

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Cover: Volunteer Tree Planting Day at Westview Farm, for the Mulloon Community Landscape Rehydration Project

Who we are

OUR VISION

To support the rebuilding of a resilient Australian landscape which produces the water, soil and biodiversity required to produce food and water security for the Australian population in the short and long term.

The Mulloon Institute is a not-for-profit research, education and advocacy organisation that actively demonstrates, monitors and shares innovative approaches to regenerative land management.

Our landscape rehydration work helps build resilience into environmental systems and re-establishes the vital links between sustainable agriculture, healthy nutrition and productive communities. We use cutting edge land regeneration techniques, applied scientific research, training and education events, and community engagement to raise public awareness.

Our scientific and educational models are based on 30 years experience re-generating Mulloon Creek Natural Farms (MCNF) in the Southern Tablelands



Tony Coote AM
FOUNDER

Toni Coote
FOUNDER

OUR MISSION

The Mulloon Institute aims to support the regeneration of 100 agricultural landscapes over the next 10 years. Our current 'catchment scale' project is with landowners from the Mulloon Catchment.

of NSW. We actively engage with community projects that are working towards similar 'whole-of-catchment' improvement. We aim to connect environment, farming and society through practical demonstrations at our 'living laboratory' at MCNF and more broadly across Australia.

We're all about inspiring people to make a difference, with every regenerated inch of land contributing to the overall health of the soil, and in turn the wellbeing of us all.

The Mulloon Institute is a Registered Charity with the Australian Charities and Not-for-profits Commission (ACNC) and has Deductible Gift Recipient status. We have a suitably experienced and qualified Board, a panel of Key Advisers and Science Advisory Council in place as part of our proper governance structure.

OUR FOUNDERS

Tony Coote AM, BSc. MBA founded The Mulloon Institute in 2011 with his wife **Toni Coote**. Tony bequeathed the entire 5,700 acres of Mulloon Creek Natural Farms to the Institute for the continuation of long-term research and demonstration in perpetuity.

Tony and Toni sadly passed away in August 2018 and November 2018 respectively, leaving behind them a wonderful legacy.

Chairman's message



Gary Nairn AO
CHAIRMAN

On behalf of the Board of The Mulloon Institute (TMI) I trust you enjoy reading about our activities over the past year covered in this Annual Report. The interest displayed by an ever increasing number of followers and supporters has been wonderful to see and helps to ensure the ongoing success of TMI and the work we are doing.

It is now fifteen months and twelve months respectively that we lost our Founders, Tony Coote AM and Toni Coote. Many people have commented during that period that it is a shame Tony wasn't here to see the many great steps forward that have occurred. But during his final days he was very content with what he was leaving behind. He knew the foundations he had toiled on for so many years were about to be built upon.

For example, he was aware we had organised for the Prime Minister to visit TMI, albeit a different Prime Minister! He knew that would be a watershed (pun intended) moment for us. As you will recall that visit also included the Deputy Prime Minister, Michael McCormack, the then Agriculture Minister, David Littleproud and Senator Jim Molan.

There were two specific moments during that visit that stick in my mind such that I recount them at every opportunity. Firstly, down at Peter's Pond I told Scott Morrison that we had just experienced the seven driest months since records commenced in the late 1800's so despite no rain coming into the catchment there was water still trickling through the leaky weir. "Where has that water come from?" I asked the PM. He said, you tell me. "It has been banked in the landscape, we

rehydrated the landscape which is why we have cover on our ground. This is what is required to help farmers be resilient for the next drought," I answered. I saw the penny drop!

The second moment was in front of the TV cameras at the barn during the press conference. The Deputy Prime Minister when asked about what he saw and its relevance to drought he made the statement, "This should be rolled out right across the country!" We couldn't agree more.

Just four days after that visit the Australian Story program "Hope Springs" went to air and it included, as a late addition, reference to the PM visit. That episode was a wonderful tribute to Tony Coote and what he had established. That story plus the media resulting from the PM's visit had an instant impact on the work of TMI. Enquiry levels rose substantially and many more people just wanted to tell us how much they supported our work. Several months later we were also informed that we were to receive a substantial grant from the Federal Government from its National Landcare Program.

That grant is now allowing us to complete the Mulloon Community Landscape Rehydration Project (MCLRP) with comprehensive scientific monitoring and data collection. Work on the MCLRP is now well underway and there is a specific report on the MCLRP later in this Annual Report.

The escalation in enquiries has been for all aspects of our work. One of our most important tasks is to train more people in landscape repair and rehydration methodologies. During 2019, due to the level of demand, we increased the number of four day workshops



"This should be rolled out right across the country!"

Deputy Prime Minister Michael McCormack

L-R: Peter Andrews OAM, Gary Nairn AO, Minister David Littleproud, Deputy Prime Minister Michael McCormack, Senator Jim Molan, Prime Minister Scott Morrison

to seven. Six were held on TMI's 'living laboratory', Mulloon Creek Natural Farms (MCNF), with a seventh held recently at Wombramurra, near Nundle in north west NSW. These workshops, run in conjunction with Stuart Andrews' Tarwyn Park Training (TPT), are ideal introductions for farmers and landholders wanting to get repair and rehydration started on their properties. With an increase in the number of people doing this training the awareness across the country has increased such that I feel there is an unstoppable momentum occurring.

We also experienced a surge in enquiries for the services offered by our wholly owned Mulloon Consulting Contracting & Certifying (MCCC). Please see the separate report by MCCC's General Manager, Carolyn Hall, but suffice to say we have expanded our professional staff to meet the demand coming from farmers, landholders, landcare groups and community organisations in various parts of the country. Our work in the dry tropics of North Queensland is particularly noteworthy as it is not only addressing gully repair and sediment flow into the Great Barrier Reef, it is being done so that farmers also benefit from an agriculture production point of view.

As mentioned above TMI operates as a living laboratory on MCNF. Besides wanting our research work to go on in perpetuity, Tony also understood we need to demonstrate the value of our work to agriculture. So, MCNF as a working farm is critical to the overall success of TMI. The agricultural enterprise of MCNF produces organic, biodynamic, pasture raised eggs and grazes beef cattle. The poultry operation has gone through a strong growth period over the past twelve months due to increased demand for our award winning

eggs. You can read more on that in Farm Manager, Michael Fitzgerald's report.

Our Science Advisory Council (SAC) was of immense benefit to our work with all our scientific research directed by that body. I am very grateful for the input from the eminent scientists on the SAC and particularly thank its chair, Professor Stephen Dovers, who has detailed its undertakings over the past year in a separate report. We also maintained our link to the UK's Rothamsted Research through one of our key advisers, Professor John Crawford.

The newest addition to TMI during 2019 was the establishment of a Mulloon Law Committee (MLC) under the leadership of Matt Egerton-Warburton. This committee was formed specifically to investigate potential legislative solutions to current regulations involving environmental repair in streams. In the first instance the MLC has prepared a submission to the review by the Natural Resources Commission (NRC) on the Water Sharing Plans for the Greater Metropolitan Region. We fall within that region so our experiences in working to improve the quality of the water that ultimately flows into the Sydney Catchment were the subject of that submission.

The MLC is an example of how TMI is using the many and varied expertise that resides within our group of key advisers. When an issue is identified we pull together the individuals best placed to consider it and then ultimately advise the Board. We are very grateful to all our key advisers and look forward to tapping into their collective knowledge on an ongoing basis.

In August 2019 we held the inaugural Tony Coote AM Memorial Lecture in NSW Parliament House. With over 150 supporters present the dinner and lecture, delivered by our Patron Major General Michael Jeffery AC AO (Mil) CVO MC (Retd), was a wonderful start to what will be a yearly event, honouring our Founder with the subject matter relevant to Tony's work and vision for the Australian landscape and agriculture. One of our key advisers, Peter Howarth OAM, was instrumental in ensuring its success and is already helping plan next year's event.

In conclusion, it has been quite an amazing and eventful year for TMI, MCCC and MCNF. We have achieved much that our Founders would be very proud of. I thank all our staff for their passion, loyalty and sheer hard work, they have made it all happen. My personal thanks to my fellow Board members, Charles Cupit, Jim Guilfoyle, Diana Cavanagh and Richard Allsopp, their collective guidance has ensured the many challenges faced were overcome

and the many opportunities offered were taken up. In particular, I mention Jim Guilfoyle who will be leaving the Board at our AGM. No-one has more knowledge of MCNF than Jim and combined with his long time friendship with Tony and his passion for what we are doing, his input to TMI has been invaluable. While he won't be on the Board I know he will always be about, thank you Jim.

Finally my thanks to the many partners, supporters and donors, all of whom make the work of The Mulloon Institute possible. The universities, government instrumentalities and businesses play a vital role in partnering with us as we expand our knowledge and deliver demonstrations to the agricultural sector and society in general. Those individuals and organisations who have generously provided funding for our operations we are eternally grateful and look forward to your ongoing support through 2020 as we take landscape repair, rehydration and regenerative agriculture to the next level. Exciting times ahead!

Natural Sequence Farming course underway at Mulloon Creek Natural Farms with Stuart Andrews

"The course and the information I was exposed to has completely altered my view of Country, not 'the' country. I feel a totally different connection to the land, and a responsibility to do something to improve our country." *Justine Makeham, NSF training participant*



SCIENCE ADVISORY COUNCIL REPORT



Emeritus Professor Stephen Dovers
SCIENCE ADVISORY COUNCIL CHAIR

The TMI Science Advisory Council (SAC) provides oversight, guidance and quality assurance across the scientific, experimental and evidence-based aspects of TMI activities.

A major issue across many regenerative agricultural initiatives, both locally and globally, has been a lack of structured experimental design that records before-and-after conditions and the detail of project management and management interventions. This is a gap that TMI seeks to fill through the SAC.

In keeping with the principles of adaptive management, in complex systems where uncertainty is present but the need to act positively is accepted, management interventions are constructed as hypotheses, to be implemented, monitored and analysed to continually improve knowledge and practice.

Recently, the major focus for the SAC has been the Mulloon Community Landscape Rehydration Project (MCLRP), and the ongoing implementation of the Research Plan that sets out priorities for monitoring, data, data management and analysis.

The SAC comprises members with recognized expertise in hydrology, biology, ecology, soil science and environmental management, all of whom provide their services pro bono to support the Institute's mission and projects.

The SAC met four times over the year, in August and December 2018 and in February and May 2019, supported by TMI staff Luke Peel and Peter Hazell.

A sub-committee working on the development of a baseline description of the MCLRP experimental design met twice during this time. Individual SAC members were also engaged over the year providing feedback on specific issues, advising on student research projects, reviewing proposals and reports, and involvement in TMI events.

The 2019 major and very welcome Australian Government funding input required significant effort by TMI staff and SAC members to identify and prioritise investments in the scientific monitoring program.

Major agenda items and ongoing areas of discussion and advice over the year:

- Development of expanded research collaborations with the ANU, other Australian universities, and Rothamsted Research.
- Remote sensing technologies to extend data capture and monitoring of landscape and hydrological conditions across the Mulloon catchment.
- Maintenance, extension and renewal of key components of the MCLRP monitoring equipment array, including steam gauges, piezometers, soil sampling and analysis.
- Future programs to implement, monitor and analyse innovative and sustainable approaches to vertebrate pest and weed management.
- The link between educational visits by school and university groups, with meaningful data-gathering field exercises to provide both data and enhanced scientific skills.



"Being able to actually use these research techniques in the field multiple times gave me an understanding of how they work much better than any kind of classroom learning would have given me."

ANU Environmental Field School participant

Students from ANU conducting Landscape Function Analysis during the ANU Environmental Field Trip

- Commissioning and review of biodiversity baseline and monitoring reports, including fish, birds, frogs and land use history and condition.
- Potential endangered species reintroduction programs within suitable locations within the MCLRP project area.

In a year where significant additional resourcing and the implementation of key management intervention in the stream have been achieved, the SAC has now seen the MCLRP evolve from an idea, through to a plan, and now on the verge of providing an unprecedented, evidence-based information source to inform future initiatives in regeneration of landscape for environmental, social and economic benefit.

MULLOON COMMUNITY LANDSCAPE REHYDRATION REPORT



Peter Hazell
MCLR PROJECT COORDINATOR

By far the biggest excitement this year was being awarded \$3.8 million over five years by the Federal Minister for Agriculture and Water Resources, Hon. David Littleproud for vital on-ground works in the Mulloon Community Landscape Rehydration Project.

The aim of the project is to progressively rebuild the natural landscape function of the Mulloon catchment in southern NSW and boost its resilience to climatic extremes, leading to more reliable stream flows, improved ecosystem functioning and enhanced agricultural productivity. This catchment-scale project will demonstrate best practice in landscape function restoration and will be used as a model to facilitate implementation of similar projects across Australia.

Project activities include: re-establishing the functional hydro-ecological connection between the creeks and the floodplains of lower Mulloon and its tributaries through the further installation of around 90 in-stream structures to raise the water level and slow and spread the flow; exclusion of livestock from 50km of creek; installation of nearly 100,000 plants; reinstatement of complex pond, wetland and riparian habitat for 11 rare and threatened bird species and two endangered frog species.

Long-term monitoring of the catchment-scale project will demonstrate its effectiveness, with benchmarks established for stream and groundwater hydrology, water quality, biodiversity and landscape function. Baseline surveys have already been completed for fish, birds, frogs, aquatic invertebrates, riparian and instream

vegetation, soil properties and landscape greenness. Ongoing research conducted during the project will be shared in papers and at conferences.

Training and education will be delivered to the more than 20 landholders involved in the project, as well as workshops and field days planned to engage the broader community. Landcare and catchment groups are being encouraged to undertake similar works in their own catchments and are being provided with instructions on how to do this in their regions. The project engages academics, university students, school students and landholders in training and education as well as in the extensive monitoring activities. Through this project, The Mulloon Institute has engaged with all levels of government and has an extensive, nationwide community of interest interacting via social media.

During the year, two Controlled Activity Applications (CAAs) were approved from the Natural Resources Access Regulator (NRAR) to undertake on-ground works at Mulloon Farm (South) and Westview. Along with the works undertaken earlier in the year on Mulloon Farm (North), these works form Stage 1 of the MCLR and ran from March 2018 until January 2019, with 14 erosion control structures installed along a further 3.5 km of Mulloon Creek. Two successful volunteer tree planting days were held at Mulloon Farm (North) and Westview as part of the works, with nearly 1,000 native seedlings planted out including trees, sedges, grasses and reeds.

The rain that finally came towards the end of 2018 allowed for some magnificent even flows and ponding to

occur over and behind the structures, already showing the value of the repair work.

Also of great excitement during the year, was Soils for Life featuring the MCLRP in one of their case studies on regenerative landscape management practices around Australia. The Mulloon Creek Catchment Case Study includes video clips featuring Gary Nairn AO, Project Coordinator Peter Hazell, and landholders and managers Sue and Ulli Tuisk, Gerry Carroll and Andrew Robinson, and John West. Also included is a comprehensive baseline assessment of the vegetation condition within the MCLRP and the Mulloon catchment by Dr Richard Thackway of VAST Transformations. This work will allow us to compare the effects of installing leaky weirs to rehydrate soil-landscapes during the project. View the case study here: <https://www.soilsforlife.org.au/case-studies/mulloon-creek-catchment>

Regular hydrological instrumentation maintenance has been conducted by Luke Peel, James Diack and experienced hydrologist Tony Bernardi (ANU) during the

period at the Home Farm, Duralla, Mulloon Farm and Palerang. Maintenance of this instrumentation is vital to the successful monitoring of the MCLRP as it captures critical baseline data prior to works being conducted in Mulloon Creek, and the ongoing monitoring of results into the future. Field reconnaissance for the substantial expansion of hydrological monitoring instrumentation across the Mulloon catchment has also been conducted with the assistance of Dr Leah Moore (UC) and Richard Campbell (Hydroterra).

The CAA for Palerang was finished in April 2019, with Pete Hazell, Cam Wilson and Bill McAlister doing a great job preparing the comprehensive documentation which covers a further 3kms of creek and 15 structures. This second stage of construction is expected to begin in November 2019. And as we go to print, the CAA for the Mulloon Creek section of Duralla (MCNF) is being assessed by the NRAR, with works also expected to begin shortly.

Top: Leaky weir construction at 'Westview' farm, Mulloon Creek, November 2018. Bottom: Same structure after rain, December 2018.



"It's going to make a hell of a difference I think."
John West, land owner and manager at 'Westview'



MULLOON CONSULTING CONTRACTING & CERTIFYING REPORT



Carolyn Hall
GENERAL MANAGER MCCC

2019 Highlights:

- Detailed designs and concept designs prepared for 11 different properties in the North Queensland Dry Tropics region.
- Queensland version of the 'Landscape Rehydration' training manual created.
- 6 site assessments delivered on the Southern Tablelands and in the Upper Hunter.
- Workshops delivered in QLD and WA.
- Conference presentation at the Regenerative Agriculture Conference Perth WA.
- Presentations delivered in Bathurst, Capertee, Holbrook (Bibbaringa Farm) and Canberra.
- Technical contribution to the controlled activity approval (CAA) applications for Palerang & Duralla.
- Partnered in 4 major grant applications.
- Delivery of advice and action to Mulloon Creek Natural Farms on weed control.
- Anne Gibson Landscape Planner joined our team.

MCCC continues to experience strong demand for our services across the country particularly in NSW and Queensland with interest growing in South Australia, Victoria and in Western Australia. The demand for advice

reflects the continued dry conditions across Australia and the desire by landholders to take action.

Cam Wilson produced detailed designs for 11 different properties for the North Queensland Dry Tropics Landscape Rehydration Project along with concept designs for 12 properties. These detailed designs are progressively being constructed across the area around Townsville, Charters Towers, Collinsville and Jericho in Central Queensland.

Peter Hazell has been active delivering workshops in the Fitzroy Basin region in Queensland, presentations across the Southern Tablelands and a presentation to the Regenerative Agriculture Conference in Perth WA.

MCCC have also partnered in four major grant applications with the Riverina Local Land Services, Forestry Corporation of New South Wales and the Australian National University Spring Valley Farm Demonstration Site and with the University of Canberra.

We have faced challenges this year with a project on the Southern Tablelands requiring development approval at the local government level, we are supporting the landholder to progress this project. The experience is a sharp reminder that our work does not readily fit under the standard development pathway and this will require further work and liaison with the newly formed Mulloon Law Committee.

Our team has continued to develop while our senior landscape designer Cam Wilson has taken leave to complete his masters degree. We have been ably assisted



"One of the aims for 'The Hub' is to create a meeting place for all sorts of folk to come together and share ideas about grazing, ecology, and everything in between." *Garlone Moulin, Mt Pleasant Station*

L-R: Bill McAlister, Peter Hazell, James & Louis Moulin-Gordon (Mt Pleasant Station), Rod Kerr (NQ Dry Tropics). Photo: Garlone Moulin

by Peter Hazell who has delivered workshops and advice to landholders, undertaken detailed design work and supervised construction. Bill McAlister has developed technical skills in site assessment and in detailed design through practical work on the Palarang and Duralla CAAs.

Our small team continues to grow with the addition this year of Anne Gibson as a Landscape Planner who is rapidly building her knowledge on landscape rehydration and recently led the creek walk at The Mulloon Institute Field Day in November 2019.

MCCC, TMI and MCNF are parts of the same whole and we work together to deliver services through MCCC, education and advocacy through TMI and to demonstrate on-ground practical works at our living laboratory at Mulloon Creek Natural Farms.

The hard work of the team at MCCC saw us achieve a small profit in the 2018-2019 financial year. Continued expansion of our team in the coming years will allow us to increase our services and deliver advice to more landholders and land managers. The development of in-house training for our new recruits will ensure

a continued focus on technical excellence, and the development of links with ground breaking regenerative famers across Australia will also contribute to the depth of the advice we can offer.

Our work would not be possible without our dedicated team and thanks must go to Cam Wilson, Peter Hazell, Bill McAlister, and Anne Gibson, support has also come from Luke Peel, Kelly Thorburn, James Diack and more recently Max Brunswick. We enjoy the continued support of the TMI Board and particularly the Chairman Gary Nairn – thank you. MCNF Farm Manager Michael Fitzgerald and his team also provide support to MCCC and the opportunities shown to our team to be involved in on ground activities on the farm are invaluable. Our work is also supported by the team at Bedford CA and thanks must go to Raymon Kaawi for his continued support.

MCCC looks forward to expanding our team in the coming years, developing relationships across the regenerative farming sector and to continued success at the property and catchment scale.

MULLOON CREEK NATURAL FARMS REPORT



Michael Fitzgerald
GENERAL MANAGER MCNF

This year we had the very great honour of receiving the prestigious Australia Organic Limited's Chairman's Award in recognition of Tony Coote's support and contribution to organic farming in Australia, particularly through his work with Mulloon Creek Natural Farms and The Mulloon Institute.

Mulloon Creek Natural Farms (MCNF) continued its Biodynamic/Organic certification with Australian Organic this year and retained its accreditation with Humane Choice for the egg operations.

MCNF also underwent the Savoury Institute's Ecological Outcomes Verification (EOV) process, which recognises producers who are increasing biodiversity and landscape function. This independently audited accreditation program is 'the science inside' Land to Market.

At MCNF we continue to produce the best certified organic eggs on the market. By the end of June 2019, we had 24,000 birds in production and 8,000 young birds coming on to lay, producing in excess of 74,000 eggs per week. At the time of writing (November 2019), we have 30,000 birds in lay producing 108,000 eggs per week!

It's been nearly a year since the first batch of birds enjoyed the new broodshed, and in that time we've also: built 10 new laying sheds; installed 5 km of new fencing and refurbished 9 km of existing fencing for poultry; installed 5 km of new piping, 6 new water tanks and 1 new solar pump; installed 20 new gateways; and, built 1 new brood shed and associated infrastructure and fencing.

MCNF is one of the largest employers in the Bungendore district with over 20 people working across both farms at any one time, a third of whom are backpackers. We employed a total of 33 backpackers this year and it's great that they can support the local community during their stay. It's the tireless efforts of our staff that keeps MCNF at the forefront of pastured egg production, both financially and ecologically.

MCNF also actively supports our local community through egg donations to local community groups, including Bungendore Tigers, Breakfast for Breast Cancer, Pre-school Fundraising Barbecue, Fundraiser for Planned Retirement Village, and the Majors Creek Music Festival. We also support the Dawn Service and Gunfire Breakfast on Anzac Day, which Tony Coote always took great pride in attending, and our staff are continuing this tradition of attendance.

MCNF is proud to support The Mulloon Institute (TMI) by being its 'living laboratory' where research into landscape rehydration can be conducted. Our staff also enjoy the learning process of being part of TMI activities and undertaking training.

Mulloon Consulting Contracting & Certifying has been working with us to develop an overall farm plan for MCNF. This includes a weed management plan and a recent volunteer day took a 'hands-on' approach to tussock control.

MCNF continues to develop its media presence, with Kelly Thorburn's flair for creativity keeping MCNF at the

forefront of media, with a growing social media profile and several externally produced articles featuring the farms during the year, including the Australian Story program on ABC and a BBC Future article on TMI and MCNF. Closer to home, Olive one of our guardian Maremmas also featured on the front cover of the Bungendore Directory this year.

Kelly is working closely with Sales and Marketing Manager Tony Booth to keep brand awareness of our eggs at the top. Tony's dogged determination is starting to see results with increasing egg sales, particularly through our major outlet Harris Farm Markets who we especially thank for supporting our eggs.

This year MCNF experienced its second year of reduced rainfall, resulting in destocking of cattle numbers to match the carrying capacity. This will help us retain ground cover so growth will occur rapidly when the rains eventually return. Uncontrolled grazing pressure from kangaroos and deer are adding to the challenges of maintaining groundcover and increasing carrying capacity. We are currently investigating exclusion fencing to maintain a balance between controlled and uncontrolled grazing.

Six key farm staff have now completed the Natural Sequence Farming course with Tarwyn Park Training and have been busy installing rehydration contours on sloping country to help improve landscape fertility. We will be establishing further key sites over the coming years to continue this process as we roll out the MCNF Farm Plan, including placing fertility heaps 'in situ' on hill slopes which will then allow nutrients to move naturally


down the slope via gravity, fertilising the landscape in the process.

We continue applying our 'MCNF-made' Biodynamic preparation '500' soil spray across both farms annually, and the atmospheric '501' spray twice yearly on Duralla, and when the opportunity arrives on Home Farm. Compost heaps at Duralla have been established to which Biodynamic compost preparations have been added.

These changes in landscape function and soil fertility are very important in the ongoing role of the farm as the living laboratory. We are building our knowledge of the benefits of MAIA grazing software and how it can help us record and refer to changes as they occur in grazing patterns and carrying capacity. The MAIA grazing technology also allows us to build a story around management practices and rainfall patterns.

Thanks to all MCNF farm staff for your service and commitment, as well as the TMI and MCCC staff. Thanks to TMI Chairman Mr Gary Nairn for his support and enthusiasm for MCNF, TMI and MCCC and his continuing commitment to the symbiotic relationship of the three entities. Thanks to Carolyn Hall for her unwavering enthusiasm and support. Special mention goes to Raymon Kaawi for his help with financial interpretations, and personal thanks to Jim Guilfoyle for his encouragement and mentoring. Finally, acknowledgement goes to the MCNF Board whose continuing support, advice and knowledge promotes the growth of the farms and its people, as we strive to achieve the vision and values of our founder Tony Coote.

The step diffusion system contour installed on sloping country on Home Farm.



"I was blown away by the field day on Friday and the potential to increase the use of Mulloon Creek Natural Farms as a teaching resource for sustainability by schools."
Liz Martyn, Mini Field Day participant

Our Team



PATRON



Major General the Honourable Michael Jeffery
AC, AO (Mil), CVO, MC (RETIRED)

Former Governor-General of Australia and Governor of Western Australia who now serves as Australia's first National Advocate for Soil Health. Michael had a rich and rewarding career with the Australian Army during which he was awarded the Military Cross and the South Vietnamese Cross of Gallantry. Michael chairs various organisations including Future Directions International, Soils for Life, Outcomes Australia, and Australian Trachoma Alliance.

BOARD



The Hon. Gary Nairn AO
CHAIRMAN

Former Member for Eden-Monaro (1996-2007).
Parliamentary Secretary to Prime Minister John
Howard, with responsibility for water reform,
Special Minister of State.



Richard Allsopp

Founder of Rundles Auctions. Chair of
Regional Development Australia – Riverina
NSW. Patron of Country Hope.



Diana Cavanagh

Tony Coote's daughter. Passionate biological
farmer, interested in long-term human health
and nutrition.



Charles Cupit

Director of Bedford CA. Member of the
Institute of Chartered Accountants. Fellow of
the Taxation Institute of Australia.



Jim Guilfoyle

Farm manager at Mulloon Creek Natural
Farms until 1997. Previous General manager
and Director with Romani Pastoral Co.

SCIENCE ADVISORY COUNCIL

Science Advisory Council members give generously of their time and their contributions to direct and review The Mulloon Institute's research.



Emeritus Professor
Stephen Dovers
SAC CHAIRMAN

Past director of the Fenner School of Environment & Society at Australian National University (2009-2017). Honorary Professor at Charles Darwin University, a Fellow of the Academy of Social Sciences in Australia.



Professor John Crawford

Integrated Solutions Lab Flagship Leader at Rothamsted Research (UK). Previous Head of Sustainability and Complex Systems at University of Sydney.



Dr John Field

Senior Lecturer at the Fenner School of Environment & Society at the Australian National University.



Dr David Freudenberger

Senior Lecturer (Casual) and Researcher with the Fenner School of Environment & Society at the Australian National University.



Walter Jehne

Soil microbiologist, former CSIRO Climate Scientist, founder of Healthy Soils Australia.



Professor Neil Mann

Retired professor of nutritional biochemistry with active interest in the evolution of the human diet.



Dr Michael Wilson

Director of Environmental Monitoring and Evaluation at the Murray-Darling Basin Authority.

KEY ADVISERS

All Key Advisers generously volunteer their time and expertise to lead and govern The Mulloon Institute. All Board Members are ex officio members of the Key Advisers.



Kate Dowling

WWF Australia Governor



Christine Ellis

Senior natural resource management communicator



Tony Hill

'Land to Market Australia' leader



Peter Howarth OAM

'Primary Club of Australia' Founder



Douglas Isles

Investment Specialist for Platinum Asset Management



Rose Nairn (Stellino)

'Dwell for Australia' Founder



Martin Royds

'Natural Sequence Farming Association' Founder



Di Yeldham

Arthouse Gallery Director

MULLOON LAW COMMITTEE

Advises The Mulloon Institute Board on specific legal and regulatory issues.



Matt Egerton-Warburton
MLC CHAIRMAN

Senior Corporate Lawyer,
King & Wood Malleison



Mark Beaufoy

Partner,
King & Wood Malleison



Wilfred Finn

General Counsel,
Associate Director of Aither

We're engaging with Landcare groups across Australia who are keen to be champions for landscape rehydration in their own catchment.



East Gippsland Landcare members listening to Peter Hazell on a tour at Mulloon Creek Natural Farms.

2019 FINANCIAL STATEMENTS

THE MULLOON INSTITUTE LIMITED

ABN 53 153 605 531

DIRECTORS' REPORT

The directors present their report on the company for the financial year ended 30 June 2019.

Information on Directors

The names of each person who has been a director during the year and to the date of this report are:

- Mr Gary Roy Nairn
- Mr Charles Gordon Cupit
- Mr Richard Rundle Allsopp
- Mr William James Yule Guilfoyle
- Ms Diana Elaine Cavanagh
- Mr Antony Edmund Rundle Coote, retired 8 August 2018

Directors have been in office since the start of the financial year to the date of this report unless otherwise stated.

Operating Results

The operating surplus of the company after providing for income tax amounted to \$9,822,495.

Significant Changes in the State of Affairs

There have been no significant changes in the state of affairs of the Company during the year.

Principal Activities

The principal activities of the company during the financial year were fundraising activities for charitable purposes.

No significant changes in the nature of the company's activity occurred during the financial year.

Events After the Reporting Date

No matters or circumstances have arisen since the end of the financial year which significantly affected or may significantly affect the operations of the company, the

results of those operations, or the state of affairs of the company in future financial years.

Environmental Issues

The company's operations are not regulated by any significant environmental regulations under a law of the Commonwealth or of a state or territory of Australia.

Dividends Paid or Recommended

No dividends were paid or declared since the start of the financial year. No recommendation for payment of dividends has been made.

Options

No options over issued shares or interests in the company were granted during or since the end of the financial year and there were no options outstanding at the date of this report.

Indemnification and Insurance of Officers and Auditors

No indemnities have been given or insurance premiums paid, during or since the end of the financial year, for any person who is or has been an officer or auditor of the company.

Auditors' Independence Declaration

The lead auditors' independence declaration in accordance with section 307C of the Corporations Act 2001, for the year ended 30 June 2019 has been received and can be found on page 17.

Signed in accordance with a resolution of the Board of Directors:

Director: _____
Mr Gary Roy Nairn

Dated: 20 November 2019

THE MULLOON INSTITUTE LIMITED
ABN 53 153 605 531

STATEMENT OF PROFIT OR LOSS AND OTHER COMPREHENSIVE INCOME
FOR THE YEAR ENDED 30 JUNE 2019

	Note	2019 \$	2018 \$
Income		11,006,299	2,170,360
Expenditure		(1,183,804)	(2,070,733)
Surplus for the year		<u>9,822,495</u>	<u>99,627</u>
Total comprehensive income for the year		<u>9,822,495</u>	<u>99,627</u>

The accompanying notes form part of these financial statements.

THE MULLOON INSTITUTE LIMITED
ABN 53 153 605 531

STATEMENT OF FINANCIAL POSITION
AS AT 30 JUNE 2019

	Note	2019 \$	2018 \$
ASSETS			
CURRENT ASSETS			
Cash and cash equivalents	2	887,531	115,303
Trade and other receivables	3	107,438	10,129
Other current assets	4	3,500	3,500
TOTAL CURRENT ASSETS		998,469	128,932
NON-CURRENT ASSETS			
Financial assets	5	10,000	10,000
Property, plant and equipment	7	9,076,302	126,302
TOTAL NON-CURRENT ASSETS		9,086,302	136,302
TOTAL ASSETS		10,084,771	265,234
LIABILITIES			
CURRENT LIABILITIES			
Trade and other payables	6	21,880	24,838
TOTAL CURRENT LIABILITIES		21,880	24,838
TOTAL LIABILITIES		21,880	24,838
NET ASSETS		10,062,891	240,396
EQUITY			
Retained surplus	8	10,062,891	240,396
TOTAL EQUITY		10,062,891	240,396

The accompanying notes form part of these financial statements.

THE MULLOON INSTITUTE LIMITED
ABN 53 153 605 531

STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED 30 JUNE 2019

	Note	2019 \$	2018 \$
CASH FLOWS FROM OPERATING ACTIVITIES			
Donations and grant income		1,377,572	678,017
Payments to suppliers and employees		(817,752)	(622,727)
Event income		211,984	31,557
Interest received		424	33
		772,228	86,880
Net cash provided by operating activities			
CASH FLOWS FROM INVESTING ACTIVITIES			
Payments for investments		-	(10,000)
		-	(10,000)
Net cash provided by (used in) investing activities			
Net increase in cash held		772,228	76,880
Cash at beginning of financial year		115,303	38,423
Cash at end of financial year	2	887,531	115,303

The accompanying notes form part of these financial statements.



THE MULLOON INSTITUTE LIMITED
ABN 53 153 605 531

NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 30 JUNE 2019

1: Statement of Significant Accounting Policies

The Mulloon Institute Limited is a not-for-profit company limited by guarantee, incorporated and domiciled in Australia.

Reporting basis and conventions

The directors have prepared the financial statements on the basis that the company is a non reporting entity because there are no users dependent on general purpose financial statements. The financial statements are therefore special purpose financial statements that have been prepared in order to meet the requirements of the Corporations Act 2001.

The financial statements have been prepared in accordance with the mandatory Australian Accounting Standards applicable to entities reporting under the Corporations Act 2001, and the significant accounting policies, where applicable, disclosed below which the directors have determined are appropriate to meet the needs of members. Such accounting policies are consistent with the previous period unless stated otherwise.

The financial statements have been prepared on an accruals basis and are based on historical costs unless otherwise stated in the notes.

Accounting Policies

Property, plant and equipment

Each class of Property, plant and equipment is carried at cost or fair value less, where applicable, any accumulated depreciation and impairment.

Financial Instruments

Financial instruments are recognised initially using trade date accounting, i.e. on the date that company becomes party to the contractual provisions of the instrument.

On initial recognition, all financial instruments are measured at fair value plus transaction costs (except for instruments measured at fair value through profit or loss where transaction costs are expensed as incurred).

Loans and receivables

Loans and receivables are non-derivative financial assets with fixed or determinable payments that are not quoted in an active market. They arise principally through the provision of goods and services to customers but also incorporate other types of contractual monetary assets.

After initial recognition these are measured at amortised cost using the effective interest method, less provision for impairment. Any change in their value is recognised in profit or loss.

The company's trade and most other receivables fall into this category of financial instruments.

In some circumstances, the company renegotiates repayment terms with customers which may lead to changes in the timing of the payments, the company does not necessarily consider the balance to be impaired, however assessment is made on a case-by-case basis.

Available-for-sale financial assets

Available-for-sale financial assets are non-derivative financial assets that do not qualify for inclusion in any of the other categories of financial assets or which have been designated in this category. The company's available-for-sale financial assets comprise listed securities.

All available for sale financial assets are measured at fair value, with subsequent changes in value recognised in other comprehensive income.

Gains and losses arising from financial instruments classified as available-for-sale are only recognised in profit or loss when they are sold or when the investment is impaired.

In the case of impairment or sale, any gain or loss previously recognised in equity is transferred to the profit or loss.

Subsequent recoveries of amounts previously written off are credited against other expenses in profit or loss.

Available-for-sale financial assets

A significant or prolonged decline in value of an available-for-sale asset below its cost is objective evidence of impairment, in this case, the cumulative loss that has been recognised in other comprehensive income is reclassified from equity to profit or loss as a reclassification adjustment. Any subsequent increase in the value of the asset is taken directly to other comprehensive income.

Impairment of Non-Financial Assets

At the end of each reporting period the company determines whether there is an evidence of an impairment indicator for non-financial assets.

THE MULLOON INSTITUTE LIMITED
ABN 53 153 605 531

NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 30 JUNE 2019

Where this indicator exists the recoverable amount of the asset is estimated.

Where assets do not operate independently of other assets, the recoverable amount of the relevant cash-generating unit (CGU) is estimated.

The recoverable amount of an asset or CGU is the higher of the fair value less costs of disposal and the value in use. Value in use is the present value of the future cash flows expected to be derived from an asset or cash-generating unit.

Where the recoverable amount is less than the carrying amount, an impairment loss is recognised in profit or loss.

Reversal indicators are considered in subsequent periods for all assets which have suffered an impairment loss, except for goodwill.

Cash and Cash Equivalents

Cash and cash equivalents comprises cash on hand, demand deposits and short-term investments which are readily convertible to known amounts of cash and which are subject to an insignificant risk of change in value.

Goods and Services Tax (GST)

Revenue, expenses and assets are recognised net of the amount of goods and services tax (GST), except where the amount of GST incurred is not recoverable from the Australian Taxation Office (ATO).

Receivables and payables are stated inclusive of GST.

Cash flows in the cash flow statement are included on a gross basis and the GST component of cash flows arising from investing or financing activities which is recoverable from, or payable to, the taxation authority is classified as operating cash flows.

Comparative Amounts

Comparatives are consistent with prior years, unless otherwise stated.

Where a change in comparatives has also affected the opening retained earnings previously presented in a comparative period, an opening statement of financial position at the earliest date of the comparative period has been presented.

2: Cash and Cash Equivalents	2019 \$	2018 \$
Bendigo Bank Act – 143417673	879,578	114,405
Bendigo Bank Act – 133721290	7,953	898
	<u>887,531</u>	<u>115,303</u>

Reconciliation of cash

Cash and cash equivalents reported in the statement of cash flows are reconciled to the equivalent items in the statement of financial position as follows:

Cash and cash equivalents	887,531	115,303
	<u>887,531</u>	<u>115,303</u>

3: Trade and Other Receivables

Current

Sundry debtors	20,901	-
Trade debtors	78,452	4,400
GST receivable	8,085	5,729
	<u>107,438</u>	<u>10,129</u>

The carrying value of trade receivables is considered a reasonable approximation of fair value due to the short term nature of the balances.

4: Other Assets

Current

Donated auction items	3,500	3,500
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5: Other Financial Assets

Non-Current

Shares in subsidiaries

Mulloon Consulting Contracting & Certifying Pty Limited	10,000	10,000
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THE MULLOON INSTITUTE LIMITED
ABN 53 153 605 531

NOTES TO THE FINANCIAL STATEMENTS
FOR THE YEAR ENDED 30 JUNE 2019

6: Trade and Other Payables	2019 \$	2018 \$
Current		
Sundry creditors	11,129	-
PAYGW payable	10,751	24,838
	<u>21,880</u>	<u>24,838</u>

Trade and other payables are unsecured, non-interest bearing and are normally settled within 30 days. The carrying value of trade and other payables is considered a reasonable approximation of fair value due to the short term nature of the balances.

7: Property, Plant and Equipment

BUILDINGS

Buildings at market value

'Duralla', 369 Hazeldell Road, Mulloon	3,700,000	-
'Home Farm', 3585 Kings Hwy, Bungendore	5,250,000	-
Total Buildings	<u>8,950,000</u>	<u>-</u>

PLANT AND EQUIPMENT

Plant and Equipment

At cost	126,302	126,302
	<u>126,302</u>	<u>126,302</u>
Total Property, Plant & Equipment	<u>9,076,302</u>	<u>126,302</u>

8: Retained Surplus

Retained surplus at the beginning of the financial year	240,396	140,769
Net surplus for the period	9,822,495	99,627
Retained surplus at the end of the financial year	<u>10,062,891</u>	<u>240,396</u>

9: Statutory Information

The registered office of the company is:

The Mulloon Institute Limited
Level 16, 101 Miller Street
NORTH SYDNEY NSW 2060

The principal place of business is:

3585 Kings Highway
BUNGENDORE NSW 2621



THE MULLOON INSTITUTE LIMITED
ABN 53 153 605 531

DIRECTORS' DECLARATION

The directors have determined that the company is not a reporting entity and that this special purpose financial report should be prepared in accordance with the accounting policies described in Note 1 to the financial statements.

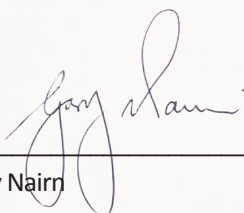
The directors of the company declare that:

1. The financial statements and notes, as set out on pages 1 to 12 are in accordance with the Corporations Act 2001 and:
 - (a) comply with Accounting Standards as stated in Note 1; and
 - (b) give a true and fair view of the company's financial position as at 30 June 2019 and of its performance for the year ended on that date in accordance with the accounting policies described in Note 1 to the financial statements.
2. In the directors' opinion, there are reasonable grounds to believe that the company will be able to pay its debt as and when they become due and payable.

This declaration is made in accordance with a resolution of the Board of Directors.

Director: _____

Mr Gary Roy Nairn



Dated: 20 November 2019

JAMES MATHERS & CO.
CHARTERED ACCOUNTANTS
ABN 75 996 318 927

JAMES I. MATHERS B.A., F.C.A.

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**INDEPENDENT AUDITORS' REPORT
TO THE MEMBERS OF THE MULLOON INSTITUTE LIMITED
A.B.N. 53 153 605 531**

Report on the Financial Report

We have audited the accompanying financial report of The Mulloon Institute Limited, which comprises the statement of financial position at 30 June 2019 and the profit and loss statement for the year then ended, notes comprising a summary of significant accounting and other explanatory information, and the directors' declaration.

Directors' Responsibility for the Financial Report

The directors of the company are responsible for the preparation of the financial report that gives a true and fair view and have determined that the basis of preparation described in Note 1 to the financial report is appropriate to meet the requirements of the Corporations Act 2001. The directors' responsibility also includes such internal control as the directors determine necessary to enable the preparation of the financial report that gives a true and fair view and is free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on the financial report based on our audit. We conducted our audit in accordance with Australian Auditing Standards. Those standards require that we comply with relevant ethical requirements relating to audit engagements and plan and perform the audit to obtain reasonable assurance about whether the financial report is free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial report. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial report, whether due to fraud or error. In making those risk assessments, the auditors consider internal control relevant to the entity's preparation of the financial report that gives a true and fair view in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity's internal control. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of accounting estimates made by the directors, as well as evaluating the overall presentation of the financial report.

Liability limited by a scheme approved under Professional Standards Legislation

We believe that the audit evidence I have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Independence

In conducting our audit, we have complied with the independence requirements of the Corporations Act 2001. We confirm that the independence declaration required by the Corporations Act 2001, which has been given to the directors of the company, would be in the same terms if given to the directors as at the time of this auditor's report

Auditor's Opinion

In our opinion:

- a. the financial report of The Mulloon Institute Limited is in accordance with the Corporations Act 2001, including:
 - i. giving a true and fair view of the company's financial position as at 30 June 2019 and of its performance for the year ended on that date; and
 - ii. complying with Australian Accounting Standards, Australian Accounting interpretations, other authoritative pronouncements of the Australian Accounting Standards Board (AASB) and the Corporations Regulations 2001;

Name of Firm: James Mathers & Co
Chartered Accountants

Name of Principal: James I Mathers
James I Mathers

Address: 27 Bydown Street, Neutral Bay

Dated this 25 day of November 2019

Ref: 87303_1

THE MULLOON INSTITUTE LIMITED
ABN 53 153 605 531

PROFIT AND LOSS STATEMENT
FOR THE YEAR ENDED 30 JUNE 2019

	2019 \$	2018 \$
INCOME		
Donations – Cash		
General public	1,377,572	663,864
Donations – In Kind		
Antony and Toni Coote	-	68,305
Australian National University	80,000	70,000
Bedford CA	83,010	81,701
Community Contributions	76,000	76,000
CSIRO	10,000	5,000
Dept of Environment – Green Army	-	1,080,000
Local Land Services	15,000	7,000
NSW Dept of Primary Industries	10,000	5,000
NSW Fisheries	5,000	5,000
NSW Office of Environment & Heritage	15,000	8,000
Soils for Life	25,000	8,000
University of Canberra	40,000	35,000
University of New South Wales	-	5,000
University of Melbourne	10,000	-
	369,010	1,454,006
Bequests Received		
Estate of Antony Edmund Rundle Coote	8,950,000	-
Event income	309,293	35,957
Grant Income		
Local Land Services	-	16,500
Interest received	424	33
	11,006,299	2,170,360

The accompanying notes form part of these financial statements.

THE MULLOON INSTITUTE LIMITED
ABN 53 153 605 531

PROFIT AND LOSS STATEMENT
FOR THE YEAR ENDED 30 JUNE 2019

	2019 \$	2018 \$
EXPENSES		
Accountancy and Administration Fees	83,010	81,701
Advertising	5,000	-
Bank charges	6,182	2,324
Consultancy fees	262,250	200,000
Course expenses	200,219	48,223
Project expenses	25,511	103,188
Insurance	1,236	6,505
Office expenses	12,123	10,086
Project labour	-	1,080,000
Posting, printing and stationery	713	1,561
Salaries and wages	508,197	402,442
Software expenses	24,000	25,848
Superannuation contributions	48,057	37,710
Telephone and internet	164	1,965
Travel, accommodation and meals	7,142	69,180
	1,183,804	2,070,733
Surplus before operations	9,822,495	99,627

The accompanying notes form part of these financial statements.

THE MULLOON INSTITUTE LIMITED
ABN 53 153 605 531

SCHEDULE OF IN-KIND CONTRIBUTIONS
YEAR ENDED 30 JUNE 2019

Organisation / Individual	Amount \$	Detail
Australian National University	80,000	Five staff members on the TMI Science Advisory Committee. Access to ArcGIS license. Access to the soils lab and storage. Provision of Honorary Lecturer status for TMI staff allowing access to meeting rooms and facilities at the University. ANU students assisting with the rehabilitation of degraded landscapes.
Bedford CA	83,010	Accounting and administration support.
Community Contributions	76,000	Expertise and advice provided by the broader Mulloon Catchment community in relation to the MCLRP.
CSIRO	10,000	Advice and support for Australian Living Atlas.
Local Land Services	15,000	Advice, support and baseline monitoring activities. One member on the TMI Science Advisory Council.
NSW Department of Primary Industries	10,000	David Mitchell's time and expertise in relation to the MCLRP, primarily for hydrology and climate data instrumentation and data management and input.
NSW Fisheries	5,000	Advice and support in relation to fish survey and input into Controlled Activity Approvals.
NSW Office of Environment & Heritage	15,000	Advice and support in connection with bird surveys and threatened frog species restoration.
Soils for Life	25,000	Scientific and technical advice and support with field activities and community engagement. Preparing the Mulloon Creek Catchment case study.
University of Canberra	40,000	Dr Leah Moore's time on the Science Advisory Council. Tony Bernadi's time and expertise in relation to the MCLRP. Various staff members' inputs for advice and support for geology, hydro-geology, and student lab analysis for soil/rock analysis. Management of hydrological equipment and data by Tony Bernadi.
University of Melbourne	10,000	Advice and support from Professor Neil Mann and for conducting field surveys of groundwater and sub-surface soil and rock formations.
TOTAL	369,010	

The accompanying notes form part of these financial statements.

PARTNERS & SUPPORTERS



Australian Government
Department of Agriculture



Australian Government
Department of the Environment and Energy



Australian Government
Department of Education and Training



Australian Government



mulloon creek natural farms
following nature



mulloon (MCCC)
consulting, contracting & certifying
for environment, farming & society



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