

Queensland
REEF WATER
QUALITY
Program



Investment Report

2023–2024

Acknowledgement

We acknowledge the continuing management and custodianship of Country across the Great Barrier Reef Region by its Traditional Owners whose rich cultures, heritage values, enduring connections and shared efforts continue to protect land, sea and sky Country for future generations. We pay our respect to their Elders, past, present, and emerging.

We recognise the continuous living culture of Aboriginal and Torres Strait Islander peoples – their diverse languages, customs and traditions, knowledges, and systems – and the deep relationship and responsibility to Country as integral to their identity and culture.

We thank Traditional Owners for their enduring stewardship and protection of the Great Barrier Reef for thousands of generations – and for their ongoing guidance and partnership in the shared efforts to protect the Great Barrier Reef.

Contents

Acknowledgement	2
Introduction	4
Program Objectives	5
Program Work Areas	6
Progress Summary	7
Progress Highlights.....	10
Investment Table 1 – 2023-2024 Expenditure of Funding Allocated to Phase 2 of the Program (2021-2022 to 2025–2026)	14
Figure 1: Program goal and objectives.....	5
Figure 2: Alignment of the QRWQP Work Areas with the Reef 2050 WQIP Implementation Work Areas	6

Introduction

The Queensland Reef Water Quality Program (Program) is the Queensland Government's key response to addressing water quality impacts affecting the Great Barrier Reef (Reef). It delivers key activities as part of implementing actions in the Reef 2050 Water Quality Improvement Plan 2017–2022 (Reef 2050 WQIP), which supports the water quality theme of the Reef 2050 Long-Term Sustainability Plan (Reef 2050 Plan).

In 2021–2022, a further five years of investment was approved, and in 2023, the Queensland Reef Water Quality Program website was updated to include the approved investment over the life of the Program. It can be found [here](#). A Monitoring, Evaluation, Reporting and Improvement (MERI) framework has also been developed.

This report covers activities and investments for the 2023–2024 financial year. Department names referenced in this report relate to the 2023–2024 reporting year, prior to the machinery of Government changes that took effect from the 1st of November 2024. At the time of publication:

- the Department of Environment, Science and Innovation (DESI) is now known as the Department of the Environment, Tourism, Science and Innovation (DETSI).
- the Department of Agriculture and Fisheries (DAF) is now known as the Department of Primary Industries.
- the Department of Resources (DoR) is now known as the Department of Natural Resources and Mines, Manufacturing and Regional and Rural Development.

The Office of the Great Barrier Reef and World Heritage (OGBR&WH), sitting within the then DESI (now DETSI), has overseen the delivery of the QRWQP and worked with the above government partners to ensure outcomes are achieved during the period.

Funding composition for Phase 2 of the Program (2021–2022 to 2025–2026)

The total investment for the five-year period of the Queensland Reef Water Quality Program 2021–2022 to 2025–2026 is \$289.6 million, comprised of:

- \$270.1 million allocated to the Program from the Queensland 2021–2022 budget,
- \$10 million allocated to support the Reef Credits Scheme through the Reef Credit Fund,
- \$9.5 million balance remaining from the discontinued Farming in Reef Catchments Rebate Scheme reallocated to continue supporting farmers.

Program funding will be used to leverage additional funds from other organisations, including the Australian Government and private investors.

Partners across industry, not-for-profit organisations, research organisations, Australian and local governments, landholders, Traditional Owners, and private organisations also co-invest and provide in-kind contributions to the Program.

Program Objectives

During the period 2021–2022 to 2025–2026, the Program is designed to accelerate progress towards the Reef 2050 WQIP targets by:

- Improving land management through voluntary and regulatory approaches,
- Restoring resilient and functional landscapes, with a particular focus on gullies and streambanks to drive progress towards the sediment targets,
- Building regional capacity to support regional economies,
- Delivering, supporting and translating best available science and knowledge.

The Program's goal and objectives are shown below.

GOAL



OBJECTIVES

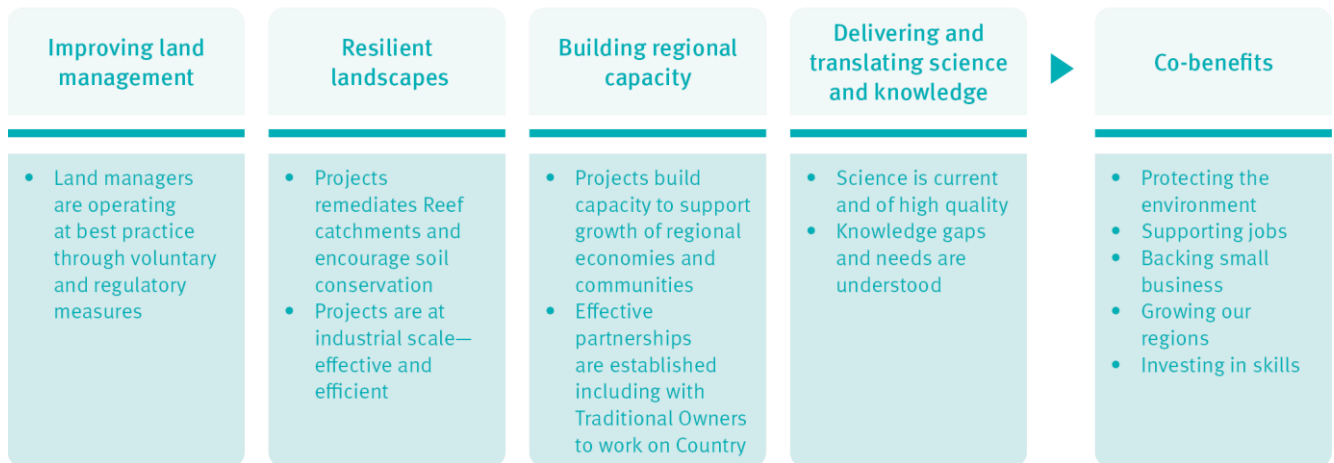


Figure 1: Program goal and objectives

Program Work Areas

To ensure a continued cohesive and coordinated delivery effort with structured governance arrangements, all sub-programs and individual projects were delivered under one of seven Work Areas aligned to the Reef 2050 WQIP:

1. Supporting the agricultural industry,
2. Restoring functional landscapes including soil health,
3. Urban and point source innovation program,
4. Foundational science and translation,
5. Robust governance,
6. Paddock to Reef program (P2R) and report cards,
7. Improving Threatened Species in the GBR World Heritage Area.

These work areas are aligned with the Reef 2050 WQIP Implementation work areas shown in figure 2, ensuring that the Program continues to accelerate progress towards the Reef 2050 WQIP targets.

QRWQP Work Areas	Reef 2050 WQIP Implementation Areas						
	A - Responding to the challenge: Actions to progress towards targets			B - Enabling delivery			
	A1: Minimum practice standards apply	A2: Culture of innovation and stewardship	A3: Catchment restoration	B1: Applying the best available science and knowledge	B2: Coordinating and prioritising investment	B3: Governance to support coordinated decision making and accountability	B4: Evaluating performance
Supporting the agricultural industry - \$125.1M	✓	✓		✓		✓	✓
Restoring functional landscapes including soil health - \$75.1M		✓	✓			✓	
Paddock to Reef program & report cards - \$50M		✓				✓	✓
Urban point source and innovation program - \$14.7M	✓			✓		✓	
Foundational science and translation - \$5.1M	✓			✓			✓
Improving Threatened Species in Great Barrier Reef World Heritage Area - \$8M			✓				
Robust governance - \$11.6M					✓	✓	✓

Figure 2: Alignment of the QRWQP Work Areas with the Reef 2050 WQIP Implementation Work Areas

Progress Summary

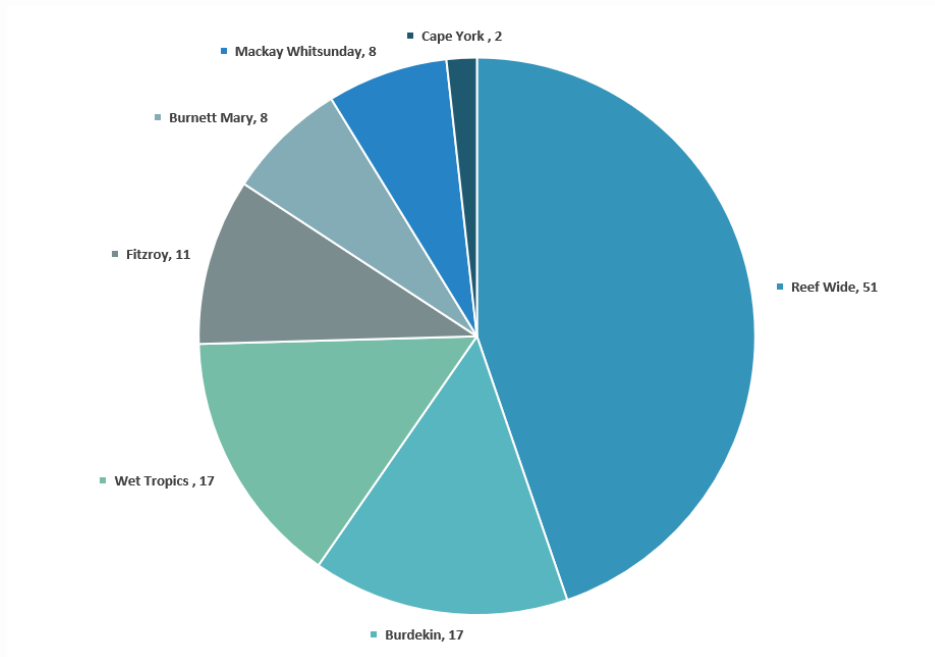
Number of projects delivered by Reef 2050 WQIP Action and/or Work Area

There were 90 projects operating during the 2023–2024 financial year.

The number of current projects refers to the number of projects underway during the reporting period. They may be new, continuing or about to be completed.

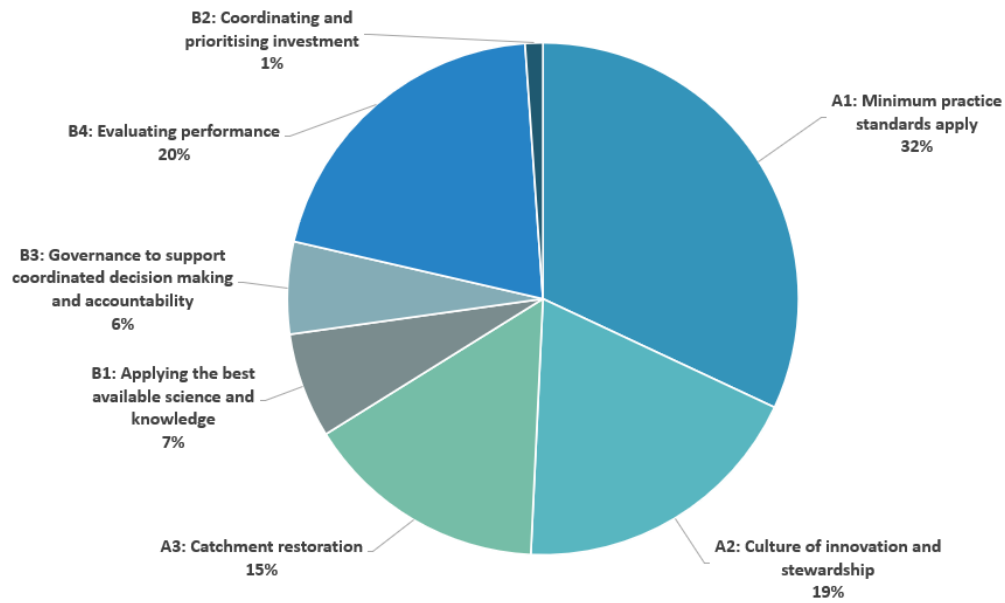
QRWQP Work Area	No. of Projects
Supporting the agricultural industry	28
Urban and point source innovation program	3
Restoring functional landscapes including soil health	26
Foundational science and translation	4
Robust governance	6
Paddock to Reef program and report cards	22
Improving Threatened Species in GBR World Heritage Area	1
Total Current Projects	90

2023-2024 Projects by Great Barrier Reef Region

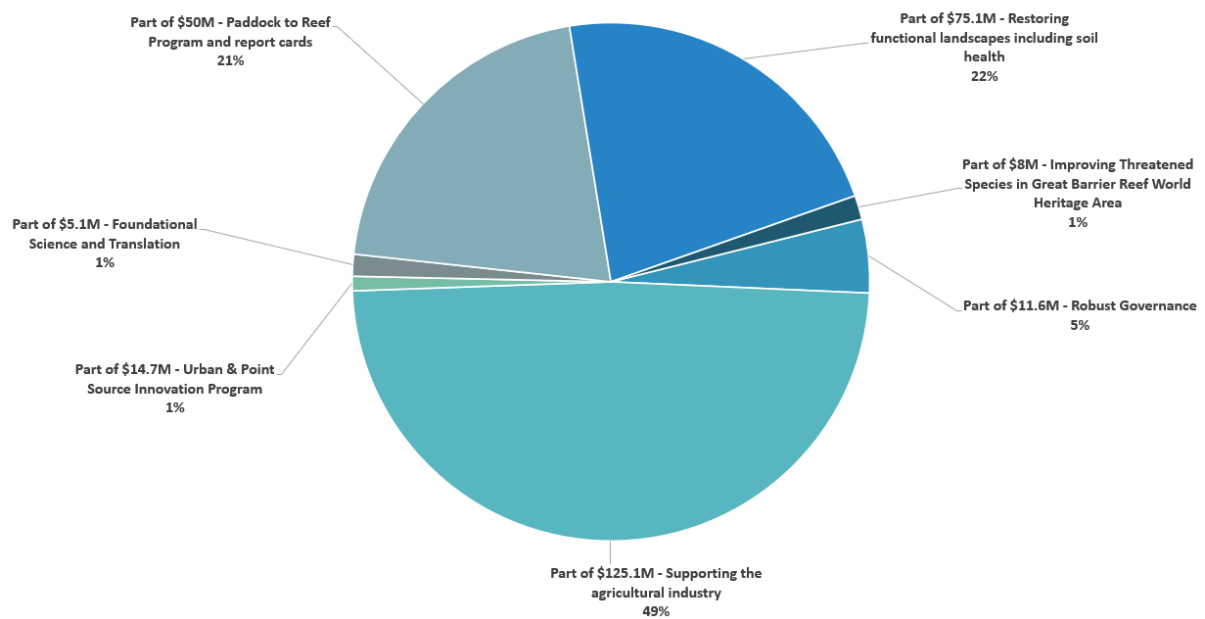


'Reef-wide' projects are delivered across all regions and are only counted once.

2023–2024 Expenditure by Reef 2050 WQIP Implementation Areas (%)



2023–2024 Expenditure QRWQP Work Area (%)



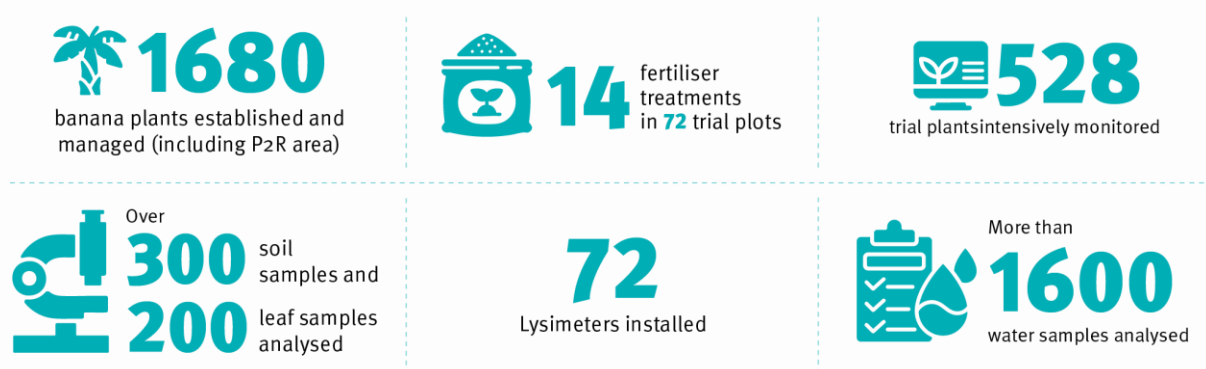
Progress Highlights

Supporting agricultural industries - \$125.1 million

Banana Nutrient Trials

The Banana Nutrient Trials commenced in late 2018 and includes sites established on commercial farms. The trials assess the agronomic performance of different nitrogen application rates to inform best management practice. Project settings and agronomic management is informed by a Project Reference Group which includes representatives from government, industry and farmers.

During 2023–2024, the project supported new trial rates at the then DAF (now DPI) South Johnstone research facility. Planted in late October 2023, the sites were designed to replicate commercial practices as much as possible. They were instrumented with soil moisture probes and lysimeters to monitor the movement of nutrients within the soil water. The sites grew well with the extended wet season with the first bunches harvested in June 2024, eight months after planting.



A second site at the then DAF's (now DPI's) South Johnstone facility has been established to understand the commercial and water quality outcomes relating to 'Factors Other Than Rate' where different practices and forms of fertiliser will be examined. The Project Reference Group decided on the various treatments rates for the trial. In preparation for these trials lysimeters were installed in late 2023 and automated commercial fertigation systems procured, along with a fallow crop grown on the pre-formed mounds.

Integrated Engagement and Capacity Building Project

The Integrated Engagement and Capacity Building Project delivered three major components across all the Reef regions within 2023–2024, including farmer group peer-to-peer learning, extension training and the Reef Extension Think Tank.

The farmer peer-to-peer learning component of the project supported 40 farmer groups across the Reef regions and covered major industries including sugarcane, grazing, horticulture, and other cropping, in two rounds of project funding. Thirteen different organisations collaborated to support the farmer group peer-to-peer learning projects. Training was also delivered through four online workshops to assist farmer groups develop their project ideas and write funding applications with 40 people attending these sessions.

Under the extension training component of this project, 46 training workshops were delivered to 360 participants from 96 organisations. Five eLearning modules with supporting written guides were developed and another five are in development. The modules form a training program that can be used independently or in conjunction with other training workshops.

In late May 2024, the Reef Extension Think Tank 'Enabling Change in a Changing World' was held in Townsville. Ninety-three people from 28 organisations attended representing all Reef Regions and the sugar, grazing, bananas, grains and horticulture industries. This event supported a community of practice for extension professionals and provided a safe place to explore ideas and challenges in delivering extension. Experienced extension practitioners were able to pass on learnings to those early in their career and for early career practitioners to connect and build their community. Participants ranged from graduates to practitioners with 30 plus years' experience.

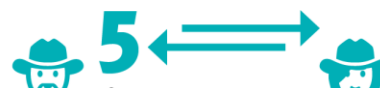
Agriculture Water Treatment Innovation and Extension

The Agriculture Water Treatment Innovation and Extension Research Project commenced in 2023–2024. The project is assessing the reduction of dissolved inorganic nitrogen (DIN) in vegetated drains.

More than twenty drains were inspected with baseline monitoring undertaken at six sites over the wet season. Two drain trial sites were established with monitoring equipment installed and site assessments were conducted on four farms to identify potential sites for treatment systems.

 **39** farmer peer-to-peer learning groups supported across all six GBR regions and major industries sugarcane, grazing, horticulture and other cropping.

572
farmer group members engaged.

 **5** farmer peer-to-peer learning project case studies

 **46** training workshops delivered to **360** extension staff from **96** organisations

 **5**
extension eLearning modules developed

93 people from **28** organisations attended the 2024 Reef Extension Think Tank, representing all GBR regions and industries (Sugar, Grazing, Horticulture (including Bananas) and Grains)

In response to stakeholder needs, the project also included the development and release of the 'Monitoring guidelines to quantify nitrogen reduction in vegetated treatment systems (constructed treatment wetlands and vegetated drains)'. The guidelines help researchers and natural resource managers design water monitoring systems to effectively and consistently monitor pollutant reduction in vegetated water treatment systems. Along with the research component, this project also facilitated six networking meetings of regional wetland groups and the Treatment Systems Community of Practice, involving over 100 participants from across the Reef regions.

Restoring functional landscapes (including soil health) - \$75.1 million

Reef Place-Based Integrated Projects

The Reef Place-Based Integrated Projects seek to improve Reef water quality and add value to whole-of-catchment and local economies across a range of cross-sector settings.

The initiative is being delivered in two stages with Stage One delivered in early 2023–2024, facilitating collaboration, discussion, project ideation, and innovation among stakeholders to explore opportunities to improve Reef water quality and deliver other co-benefits in the Reef catchment. Six workshops were delivered across five catchments and sub catchments: Fitzroy, eastern Cape York and Mackay Whitsunday, Lower Burdekin (Haughton, Burdekin Delta and Don -partial) and Herbert.

The second stage focuses on project design and delivery through the \$5.5 million Stage Two – Reef Place-Based Integrated Projects Grants Program, released to the market in May 2024.

This funding was complemented by an additional \$750, 000 from the Department's Natural Capital Program to encourage integration opportunities and support local natural capital projects and capacity building.

In addition to supporting water quality, land management and environmental outcomes, the projects look more broadly and promote skills and jobs, regional growth, and enduring legacy outcomes across the Reef catchment.

Place-based projects respond to local needs and encompass a variety of opportunities from agricultural land and catchment management to natural capital, agricultural supply chains, and circular economy initiatives.

Improving Threatened Species in the Great Barrier Reef World Heritage Area - \$8 million

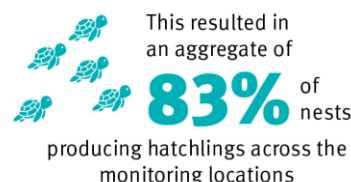
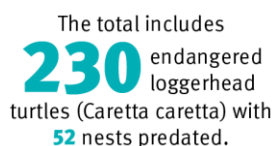
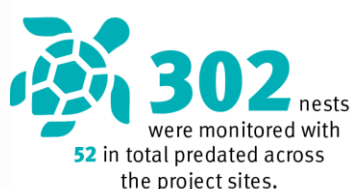
Improving Threatened Species in the Great Barrier Reef World Heritage Area

The project is coordinated by the Burnett Mary Regional Group (BMRG) and supports marine turtle monitoring across four locations from Bundaberg to Agnes Water. The region supports the largest concentration of nesting marine turtles on the eastern Australian mainland and has the most significant concentration of nesting loggerhead turtles (*Caretta caretta*) in the South Pacific. All species of marine turtle are listed as threatened in Queensland.

The primary goal of this project is to increase the survival of marine turtle egg clutches and hatchlings by reducing the impacts of feral predation on marine turtle rookeries. Community volunteers provide nest protection and feral animal control at priority rookeries during the nesting season.



Picture: Moore Park Loggerhead Hatchling Run



While delivering on-ground actions to protect the turtles, the project is also enhancing and increasing First Nations and local community engagement and participation in turtle nest protection and predator control.

The funding supports feral animal control (including fox, wild dog and pigs) along with capacity building for local community groups and partners including the Gidarjil Land and Sea Rangers.

Paddock to Reef program and report cards - \$50 million

The Reef Water Quality Report Card summarises progress towards the Reef 2050 WQIP land and catchment management targets, water quality targets, and inshore marine and wetland condition objectives. The information in these reports assesses the combined impact of actions and identifies whether further measures need to be taken to address water quality in the Great Barrier Reef.

The report card is produced through the Paddock to Reef Integrated Monitoring, Modelling and Reporting Program (Paddock to Reef program). Modelling is used to evaluate the impacts of changes in land management. The Reef Water Quality Report Card 2021 and 2022 was released in May 2024. Overall, there is continued progress, especially towards the particulate nutrient targets, with slower progress towards the dissolved inorganic nitrogen and sediment targets.

Foundational Science and Translation - \$5.1 million

Digital Transformation in water quality monitoring - Tahbil

In May 2024, the then DESI (now DETSI), with co-investment from the Queensland Reef Water Quality Program, launched Queensland's largest collection of water quality data points dating back 38 years.

Information available on the new Tahbil webpage is a game changer for the way that water quality data is accessed and used to inform decision making by governments, industry and community groups.

Tahbil, meaning fresh water in the Turrbal language, hosts more than three million data points from water samples taken from across Queensland, including across Reef catchments, by more than 30 individuals and organisations. This includes the Queensland Parks and Wildlife Service, Indigenous rangers, Landcare groups, industry and property owners.

The launch of Tahbil delivered on a recommendation from the Senate Inquiry into the Great Barrier Reef to provide an open data policy and identify leading and sustainable practices.

Robust Governance - \$11.6 million

[Reef 2050 WQIP Review](#)

The Reef 2050 WQIP guides how governments, Reef communities, Traditional Owners, industry, and partners work together to improve the quality of the water from Reef catchments flowing to the Great Barrier Reef.

A review of the Reef 2050 WQIP commenced in 2023–2024 and provides an opportunity to build on successes and plan for the future, incorporating the knowledge and experience of Reef communities.

The four phases of the Reef 2050 WQIP review are outlined below:

1. Listening phase: listening to Reef communities about successes to date, key learnings, aspirations and concerns. Engagement activities included an open survey, information seminars and mini-workshops.
2. Drafting phase: Working with Reef communities to draft new objectives, implementation principles and priority actions for the next Reef 2050 WQIP. Engagement activities to date have included surveys, workshops and interviews.
3. Reviewing phase: Reef communities will have the opportunity to review a draft Reef 2050 WQIP and provide feedback. Engagement activities may include surveys, seminars and workshops.
4. Finalisation: Reef communities will be informed of how their input contributed to a final Reef 2050 WQIP.

Implementing Traditional Owner science, knowledge, aspirations and grassroots approaches in the next Reef 2050 WQIP is a crucial part of the review. During 2023–2024, Traditional Owner aspirations for the Reef provided in previous processes, including the Reef 2050 Traditional Owner Implementation Plan were reviewed. This will inform further engagement with Traditional Owners to ensure the next Reef 2050 WQIP aligns with, and builds on, the extensive work in the Reef space delivered by Traditional Owners to date.

Finalisation of the plan is expected by mid-2025.



Investment Table 1 – 2023-2024 Expenditure of Funding Allocated to Phase 2 of the Program (2021-2022 to 2025–2026)

This table covers activities and investments for the 2023–2024 financial year. Department names referenced in this table relate to the 2023-2024 reporting year, prior to the machinery of Government changes that took effect from the 1st of November 2024. At the time of publication:

- the Department of Environment, Science and Innovation (DESI) is now known as the Department of the Environment, Tourism, Science and Innovation (DETSI).
- the Department of Agriculture and Fisheries (DAF) is now known as the Department of Primary Industries (DPI).
- the Department of Resources (DoR) is now known as the Department of Natural Resources and Mines, Manufacturing and Regional and Rural Development (DNRMMRRD).

QRWQP Sub-Program	Project Name	Project Lead Agency	2023-2024 Project Achievements	Expenditure
Advancing coastal farming systems	Advancing Coastal Farming systems	DAF (now DPI)	The project has contributed significantly to the identification and location of Paleochannels and is currently assessing these landscape features for their contribution to the nutrient loss pathway. Implementation of demonstration sites has led to Bundaberg Sugar Limited planting some 800 hectares of sugarcane into standing soybean stubble. The project contributed three peer-reviewed papers to the Australian Society of Sugar Cane Technologists on the integration of grain legumes in the sugarcane farming system to improve input use efficiency and the implications of nutrient management from the use of mill by-products. There has been a significant capacity building exercise with the delivery of the Soybean Masterclasses in Bundaberg, Mackay and Burdekin; where 70% of agronomists rated their understanding of soybean production as 7/10 compared to only 18% prior to attending the two-day workshop.	\$1,293,473
Agriculture Water Treatment Innovation and Extension	Agriculture Water Treatment Innovation and Extension	DAF (now DPI)	Assessing dissolved inorganic nitrogen (DIN) reduction in vegetated drains research project commenced, with over 20 drains inspected and baseline monitoring undertaken at six sites over the wet season. Two drain trial sites have been established with monitoring equipment installed. Site assessments were conducted on farms to identify potential sites for treatment systems. Guidelines released in response to stakeholders' needs for a consistent and effective approach to monitoring pollutant reduction by vegetated treatment systems. Facilitated six networking meetings of regional wetland groups and the Treatment Systems Community of Practice, involving over 100 participants.	\$317,774

Alluvial Gully Remediation Techniques	Demonstrating alluvial gully remediation techniques in the Upper Burdekin Spyglass Research Station	DAF (now DPI)	Baseline assessment reporting provided direct to DESI (now DETSI). Remediation work contracted for earth works to be completed by November 2024. Technical detailed designs completed. Baseline water quality monitoring interim water quality report provided by James Cook University detailing 2023–2024 wet season events. Wet season monitoring of vegetation completed by DAF (now DPI). Soil surveys completed by DESI (now DETSI) including chemical and physical soil analysis. A Technical Advisory Group meeting was held in May 2024.	\$150,000
Banana Incentive Program	Banana Incentive Program	DESI (now DETSI) OGBR&WH	Thirty-four grower projects have been established with improved practices across 1,742 hectares on banana growing lands in the Wet Tropics. Case studies have been produced to share learnings with industry across a variety of communication platforms. Australian Banana Growers' Council published a co-investment value of \$809, 587 by growers towards their projects.	\$488,441
Banana Nutrient Trials	Banana Nutrient Trials	DAF (now DPI)	New rates trial at South Johnstone DAF (now DPI) farm planted in late October 2023, serviced by commercial fertigation system. Site has been instrumented with soil moisture probes and lysimeters to monitor movement of nutrients in soil water. Collaboration with Paddock to Reef monitoring group is positive and mutually beneficial. Second new trial at South Johnstone DAF (now DPI) farm to be planted in October 2024.	\$931,847
Best Management Practice (BMP)	Banana - BMP	DESI (now DETSI) OGBR&WH	The project has achieved over 29% of the benchmarking targeted hectares with growers undertaking Farm Priority Plans, being supported to demonstrate compliance with regulatory standards, participating in the Banana BMP Best Practice Fund and undertaking practice change. Six workshops (including nutrient and sediment workshops) have been held with good attendance by growers. Case studies have been produced to share learnings with industry across a variety of communication platforms.	\$649,742
	BMP Program Delivery	DESI (now DETSI) OGBR&WH	Continued support to the delivery of BMP projects within Reef Catchments.	\$344,293
	Hort360 - BMP	DESI (now DETSI) OGBR&WH	Up till 30 June 2024 the Hort360GBR Phase 2 Project reported benchmarking of 77% of the target area and 57% of the known total area of horticulture in the Reef catchment. Further, the project reported Reef Certification of 80% of the target area and 55% of the benchmark area. Engagement was reported with 786 properties and benchmarked 47% of them. Case studies have been produced to share learnings with industry across a variety of communication platforms. 2,304 hectares of practice change has been reported.	\$873,450

	Smartcane BMP	DESI (now DETSI) OGBR&WH	The percentage of accredited cane land saw a marked increased within 2023–2024 reporting periods. Total accredited cane land as of 30 June 2024 reported at 168,072 hectares. Maintained reaccreditation and number of benchmarked businesses.	\$1,200,000
Data System	Program Data Systems and Tools	DESI (now DETSI) OGBR&WH	Data Systems to be maintained to facilitate the management, reporting, and oversight of the QRWQP.	\$273,529
Digital Transformation in WQ Monitoring	Digital Transformation in WQ Monitoring	DESI (now DETSI) Sciences	Tahbil, water data portal was delivered and launched publicly on 9 May 2024.	\$203,293
EcoMarkets	EcoMarkets	DESI (now DETSI) OGBR&WH	The milestones under the funding agreement with Eco-Markets Australia continued to be met, including regarding engagement activities, methodology support, and scheme expansion investigation.	\$551,773
Economic Evaluation and Prioritisation Program	Economic Evaluation and Prioritisation	DAF (now DPI)	Completed milestone activities, including a total of 59 economic analyses for research projects. Developed nine economics publications including case studies. Delivered training workshops on economic decision support tools to 81 landholders. Completed 48 one-on-one engagements with landholders across 19 regional towns to support assessment of management options. Completed 763 interactions with stakeholders.	\$1,196,893
Embedding Grains Practice in Reef Catchments	Embedding Grains Practice in Reef Catchments	DAF (now DPI)	This project reported 57 practice changes through to the Paddock to Reef (P2R) program. During the year, 53 enterprises were benchmarked managing 107,980 hectares of cropping land, as a part of this process, 37 support plans were developed to further encourage practice change. 11 extension and training activities were delivered to 251 growers from 170 farming enterprises with 65% of attendees indicating they are planning to implement change in their business as a result of the knowledge and skills they gained at the events. Twenty-one per cent of these are planning to implement these changes in the next 12 months.	\$802,000
Enhanced Managing Pesticide Risks in GBR Catchments	Enhanced Managing Pesticide Risks in GBR Catchments	DAF (now DPI)	Collaborative relations delivering activities with industry bodies, service providers, contractors and resellers, agronomists and community groups across all priority catchments. Empowering industry groups to assist producer's growth in knowledge, skills and enhanced decision making to improve pesticide stewardship. Voluntary compliance through education and awareness leading to informed decision making.	\$875,731
Erosion and sediment control and urban stormwater management capacity building	Erosion and sediment control and urban stormwater management capacity building	DESI (now DETSI) OGBR&WH	Established the scoping and planning of projects, ready for implementation in 2024-2025.	\$200,443

Farmers for the Future	Farmers for the Future	DESI (now DETSI) OGBR&WH OGBR&WH	In 2024 the Home Hill State School continued to demonstrate to students growing a variety of production plants in their Dig INN plot using drip irrigation, mulching practices and by-products for soil improvement. Students also took part in the Sweetest Schools Competition involving stakeholders (Burdekin Productivity Services, growers, Sugar Research Australia, CANEGROWERS) guiding students to grow the best stick of sugarcane. The school has also hosted guest speakers from Sugar Research Australia, BIFFMAC and NQ Dry Tropics discussing issues around natural resource management, erosion, water quality, catchment care, plant trials, research, careers and sugarcane production. New contract awarded for 2024–2025.	\$9,090
Fine Scale Water Quality Monitoring Program	Fine Scale Water Quality Monitoring	DESI (now DETSI) Sciences/ OGBR&WH	Contractor engaged and trained to undertake the monitoring. Sites maintained, water quality monitored, and data provided to 1622WQ application. Two communications reports for both the Lower Herbert and Lower Burdekin sites published. Data communication App under development. MERI and communications plan on track to be delivered.	\$994,193
Agricultural Extension Work Placement Program	Agricultural Extension Work Placement Program - Agriculture and environmental monitoring	DESI (now DETSI) OGBR&WH	In February 2024, eight host organisations and eight trainees commenced the 15-month Agricultural Extension Work Placement Program (AEWPP). These trainees were in: Wet Tropics, Burdekin and Burnett Mary catchment with Resource Consulting Services (RCS); Burdekin Productivity Services (BPS); Farmacist; NQ Dry Tropics; Burnett Mary Regional Group (BMRG); Agri Tech Solutions; Australian Banana Growers Council (ABGC); Aglantis. Four trainees are working in the cane sector, two in the grazing sector for improved land and soil management: one within the banana industry and one in a management role.	\$800,000
Grazing Resilience and Sustainable Solutions (GRASS)	GRASS	DESI (now DETSI) OGBR&WH	The mid-term independent evaluation of the GRASS program and the legacy evaluation of GRASS (2019–2022) were co-designed with GRASS partners, ready for the market in 2024–2025.	\$169,258
	GRASS - BMRG	DESI (now DETSI) OGBR&WH	Twenty-two Action Plans for Land Management were developed covering 5,981 hectares of grazing land to guide improved grazing practices over 1,527 hectares of poor and degraded land. Fifteen financial assistance incentives were contracted to improve degraded land. Three projects were submitted to P2R with an estimated sediment saving of 34 tonnes and an area of 2,080 hectares.	\$527,533
	GRASS - DAF	DAF (now DPI)	Forty-four Action Plans for Land Management were developed covering 344,964 hectares of grazing land to guide improved grazing practices over 18,503 hectares of poor and degraded land. DAF (now DPI) also assisted Natural Resource Management Groups across the Burdekin, Fitzroy and Burnett Mary regions to develop financial assistance incentives.	\$652,000

	GRASS – Fitzroy Basin Association	DESI (now DETSI) OGBR&WH	Forty-eight Action Plans for Land Management were developed covering 179,101 hectares of grazing land to guide improved grazing practices over 21,936 hectares of poor and degraded land. Thirty-four financial assistance incentives were contracted to improve degraded land. Eleven projects were submitted to P2R with an estimated sediment saving of 37 tonnes and an area of 1,712 hectares.	\$799,342
	GRASS – NQ Dry Tropics	DESI (now DETSI) OGBR&WH	Twenty-eight Action Plans for Land Management were developed covering 585,632 hectares of grazing land to guide improved grazing practices over 62,047 hectares of poor and degraded land. Twenty-five financial assistance incentives were contracted to improve degraded land. Eight projects were submitted to P2R with an estimated sediment saving of 38 tonnes and an area of 4,862 hectares.	\$695,704
Grazing Extension - Support	Grazing Extension Support Project	DAF (now DPI)	There have been 453 activities recorded for the year. 1,082 beef producers have participated in activities. Ninety-one per cent of activities were delivered one-to-one. A key focus on one-to-one interactions is following up to group activities. A mixture of group and one-to-one extension methods has proven to be effective to encourage practice change. Forage budgeting workshops in Burdekin and GLM Edge workshop delivered in Burnett Mary in May 2024. Presentations at – Beef 2024 seminars, North Australia Fire Management forum, Breeder Management field day hosted by NQ Dry Tropics, and Reef Think Tank. Meet and greet with DESI (now DETSI) compliance officers to build relationships and improve communication.	\$1,536,000
Grazing Land Management Support	Land Condition Program	DAF (now DPI)	Project staff and DAF (now DPI) extension teams completed an additional 546 land condition assessments in the target catchments using the LCAT app. A second iteration of land condition mapping for the Reef catchments. This produced three annual layers of land condition mapping for the target catchments and showed a significant improvement over the previous iteration. The project technical workshop was completed in May 2024. This included staff from DAF (now PI), DESI (now DETSI), and UQ, and covered project progress and planning for the final two years. Work continues on the Pasture Plant ID guide. Latex and R coding have been developed to output the final version and the work is on track for completion in 2025.	\$423,000
	Science to Support Climate Smart Grazing Land Management	DESI (now DETSI) Sciences/DAF (now DPI)	The MYFORAGE service on Queensland Governments Long Paddock website provides land managers with access to customised reports to help with making land management decisions. Reports such as the 'Long-Term Carrying Capacity report', 'Pasture Growth Alert report' and 'Ground Cover report' aim to assist graziers manage risks associated with Queensland's variable and drought prone climate. A new 'Seasonal Pasture Budget report' is being developed to assist graziers with their stocking rate decisions given their current conditions and the 3- 6 month forecast pasture growth.	\$699,614

			Strip tillage machine received by Ayr Research Station to start reduced tillage in vegetable crops. Engagement of collaborators for four targeted commercial properties for life of project.	
Gully and Streambank Remediation Program	Gully and Streambank Remediation - Burdekin	DESI (now DETSI) OGBR&WH	Designs and on-ground works commencement has been achieved.	\$152,689
	Gully and Streambank Remediation - Fitzroy	DESI (now DETSI) OGBR&WH	Designs and mid-stage works assessment has been achieved.	\$651,344
	Gully and Streambank Remediation - Wet Tropics	DESI (now DETSI) OGBR&WH	Designs complete and works commencement underway.	\$610,668
	Gully and Streambank Remediation Program	DESI (now DETSI) OGBR&WH	Continued implementation support of the Gully and Streambank Remediation projects.	\$192,484
Governance Initiative	Program Implementation	DESI (now DETSI) OGBR&WH	Continued implementation of the QRWQP and management.	\$604,357
Horticulture research and development (R&D)	Horticulture R&D: addressing the R&D knowledge gaps	DAF (now DPI)	<p>Engaged macadamia and avocado peak industry body representatives at Bundaberg and shared updates on future paddock scale monitoring project concepts, current data, and seek advice on project reference group participation. Macadamia on-farm trials assessing water sediment and nutrient samples, yield and soil health were completed for the second season with an additional site added in 2024.</p> <p>Facilitated adoption of automated field platforms into intensive vegetable production for precision crop and soil health management and deliver extension events. Replicated cover cropping and reduced tillage for soil health and nitrogen capture trial site planted at Bowen, initial soil sampling completed. Strip tillage machine received by Ayr Research Station to identify benefits of reduced tillage in vegetable crops.</p>	\$671,690
Improved Reef Communication and Science	Improved Reef Communication and Science	DESI (now DETSI) OGBR&WH	Development and soft launch of the DESI (now DETSI)/Queensland Government Protecting the Great Barrier Reef web portal in 2023 and supporting Our Reef Our Wonder social media advertising campaign. Further Great Barrier Reef market research undertaken. Quarterly Reef 2050 Communications Network meetings held, and Queensland Government Reef communications meetings held every two months.	\$451,978

Improving knowledge and research for horticulture and cropping activities	Improving knowledge and research for horticulture and cropping activities	DESI (now DETSI) Sciences	<p>Initial paddock-scale modelling of off-site losses of nitrogen and sediment from 12 horticultural crops was undertaken and enabled the prioritisation of future investments and research.</p> <p>This study highlighted significant knowledge gaps and the need for high quality data specific to the Reef catchment including field trials and assessments of management practice adoption rates.</p>	\$159,792
Integrated communications, engagement and capacity building	Communication and engagement	DAF (now DPI)	Market research expanded to include 301 recreational fishers as well as 300 primary producers in the Reef catchments, to support a whole ecosystem approach to communication. Advertising campaign delivered across online and print mediums were targeted to producer interests. Training on communication and media techniques delivered to 61 DAF (now DPI) extension and research staff and others working in the Reef catchment in Cairns, Townsville, Mackay, Rockhampton and Emerald.	\$220,789
	Enhanced Extension	DAF (now DPI)	<p>The Integrated Engagement and Capacity building project has introduced the development of eLearning modules for core training courses, with each also having a written course guide. Five modules have been completed and another five are in development. The farmer peer-to-peer component of the Integrated Engagement and Capacity Building Project has supported 40 farmer groups, located across all six Reef regions and cover major industries sugarcane, grazing, horticulture, and other cropping.</p> <p>2024 Reef Extension Think Tank 'Enabling Change in Changing World' was held in Townsville on 28-30 May 2024 with 93 attendees from 28 organisations.</p>	\$1,565,901
Land Use Mapping Update	Land Use Mapping Update - Reef Catchments	DESI (now DETSI) Sciences	The 2021 Reef land use mapping was completed, delivered to P2R modellers and is available as open data.	\$6,727
Major Integrated Projects (MIPs)	Major Integrated Projects (MIPs) - Burdekin	DESI (now DETSI) OGBR&WH	The Landholders Driving Change (LDC) panel was re-invigorated to co-design the project's implementation across grazing land management, other land uses, water quality monitoring and engagement of Traditional Owners. Landholders participated in the community water quality monitoring program and trailed innovative grazing management practices. A dedicated Traditional Owner on Country officer has been engaged as part of the project team.	\$1,700,158
	Major Integrated Projects (MIPs) - Wet Tropics	DESI (now DETSI) OGBR&WH	<p>Local scale water quality monitoring was undertaken at 10 sub-catchment sites with data that was subsequently presented to approximately 100 local participants across the Johnston and Tully catchments.</p> <p>Approximately 150 hours of technical and scientific support has been provided to 12 extension officers from CANEGROWERS, Sugar Research Australia and ABGC to facilitate the delivery of ongoing small group and individual grower engagement activities.</p>	\$750,000

Paddock to Reef program	Data management and delivery SSIMR	DoR (now DNRMMRRD)	The redevelopment of SSIMR to replace the Data Recording Tool for Science (DARTS) and the Science Knowledge and Information Provision (SKIP) is proceeding well. SSIMR 2.0 is an advanced data management application automating the near real-time extraction of data from experimental field-based projects undertaken by the Paddock to Reef paddock monitoring team. The proof of concept for SSIMR 2.0 has been successfully implemented for two paddock monitoring projects and is on track to be expanded to full production in 2024–2025.	\$246,000
	Great Barrier Reef Catchment loads monitoring	DESI (now DETSI) Sciences	The 2022–2023 loads data were calculated and delivered to the Source Catchment Modellers. The 2022–2023 Pesticide Risk Metric data were calculated delivered to the OGBR&WH, and published in the Pesticide Risk Metric Dashboard. The 2020–2021 and 2021–2022 Current Pesticide Risk data were calculated and published in the Reef Water Quality Report Card 2021 and 2022. Revision of the pesticide risk metric progressing are included as part of PhD project. Twenty pesticides added to the risk tool so far.	\$2,980,765
	GBR Catchment modelling	DESI (now DETSI) Sciences	Continued implementation support to the Great Barrier Reef catchment modelling project.	\$186,862
		DoR (now DNRMMRRD)	External review of the Paddock and Catchment Modelling completed and the report was made available on the Queensland Government Library. Catchment models delivered to eReefs for the water quality target setting. Model rebuild continuing for the Spatial Management Prioritisation (SMP) project informing the Reef 2050WQIP and the 2023 Reef Water Quality Report Card. Models for SMP due to be delivered September 2024 and Reef Water Quality Report Card models due first half 2025.	\$1,585,000
	Great Barrier Reef ground cover monitoring	DESI (now DETSI) Sciences	Delivered final ground cover data and information for incorporation into the Reef Water Quality Report Card 2021 and 2022. Developed new ground cover reporting targets/objectives. Provided seasonal ground cover data for the water quality models.	\$313,573
	Reef Water Quality Report Card	DESI (now DETSI) OGBR&WH	Released the Reef Water Quality Report Card 2021 and 2022 in May 2024.	\$610,323
	Great Barrier Reef Wetland mapping and extent	DESI (now DETSI) Sciences	Delivered the wetland extent component of the Reef Water Quality Report Card assessing progress towards the Reef 2050 WQIP target of no loss of wetlands across the Great Barrier Reef catchment area.	\$92,781

Great Barrier Reef wetlands condition monitoring	DESI (now DETSI) Sciences	<p>Delivered the wetland condition component of the Reef Water Quality Report Card to assess progress towards the Reef 2050 WQIP objective of improved wetland condition. Wetland condition was reported in four regions, Wet Tropics, Burdekin, Fitzroy, Burnett Mary, with results showing wetlands in the Wet Tropics and Fitzroy are under the greatest pressure.</p> <p>Model-based power analysis methods were developed to apply to Cape York and other natural resource management regions. These are used to inform the sampling design.</p> <p>An independent review of the Wetland Condition Monitoring Program was conducted highlighting the robustness of the program monitoring design and its alignment with international best practice standards.</p>	\$558,857
Gully and streambank mapping	DoR (now DNRMMRRD)	Revision of high priority catchments that were part of the Qld government's commitment to UNESCO were completed on schedule. The revision has continued, and moderate priority catchments have been completed. The methodology for streambank mapping is still under development with the results of the current QWMN Streambank Erosion and Floodplain Deposition Modelling Improvements project and the Queensland River Classification Confinement Typologies to add to the development of the methodology.	\$190,000
Management Practice Adoption Reporting	DAF (now DPI)	<p>Land Management Target Review - 15 regional and commodity specific lists of effective practices for water quality were produced during this period to inform policy and support prioritisation of investment for Reef 2050 WQIP programs.</p> <p>Land Management Target Review - ADOPT process - Facilitated 46 stakeholder workshops with 15 technical working groups to inform adoption targets.</p> <p>Revised five documents articulating practices with greatest influence on off-farm water quality have been provided to Reef 2050 Independent Science Panel.</p>	\$957,376
Operational application of eReefs Model	DESI (now DETSI) Sciences	Catchment model outputs delivered to the eReefs modelling team on time for use in the water quality target setting modelling, as part of the revision of the Reef 2050 WQIP. The methodology for building these time series for delivery to eReefs has been developed further. Estimates of constituent loads discharged from river and creek systems are now being made using a probabilistic gradient boosted decision tree regression algorithm. This approach allows for prediction uncertainty to be quantified for the resulting model emulators. The models have been used to explore climate change scenarios using CMIP6 SSP5-8.5 meteorological forcing times series data.	\$197,304
Reef 2050 WQIP monitoring and evaluation support tools	DESI (now DETSI) OGBR&WH	<p>The Paddock to Reef Data Portal was released in September 2023. This is a publicly accessible web-based data delivery platform, focused on delivering the data publishing and sharing needs of OGBR&WH and the Paddock to Reef program.</p> <p>The Reef Water Quality Report Card 2021 and 2022 (interactive) was released in May 2024.</p>	\$150,000

	Regional natural resource management body coordination and support	DESI (now DETSI) OGBR&WH	The Paddock to Reef Forums were delayed from May 2024 to August/September 2024 to incorporate 2022 Scientific Consensus Statement material released 1 August 2024. Regionally-specific communication products were produced including summaries of the Reef Water Quality Report Card 2021 and 2022 for each region, and a variety of factsheets, articles and videos pertaining to regionally-specific water quality projects.	\$515,621
	Riparian vegetation monitoring	DESI (now DETSI) Sciences	Delivered final riparian vegetation data and information for incorporation into the Reef Water Quality Report Card 2021 and 2022. Developed new riparian vegetation reporting targets.	\$84,569
	SPADES – Social Practices and Diffusion of Environmental Stewardship	DESI (now DETSI) OGBR&WH	Held interviews with key informants and completed a comprehensive collection of data on stewardship norms and artefacts.	\$103,904
	P2R Implementation - Science	DESI (now DETSI) Sciences	Continued program delivery support for Science's P2R programs.	\$249,000
Place-based integrated projects	Place-based Integrated Projects	DESI (now DETSI) OGBR&WH	Under Stage One: 5 workshops were delivered across five catchments and sub catchments: Fitzroy, Eastern Cape York and Mackay Whitsundays, Lower Burdekin (Haghton, Burdekin Delta and Don (partial) and Herbert. Stage Two Reef Place-Based Integrated Projects Grant Program 2024 was released to the market seeking to leverage investment and resources, and delivering co-benefits, in addition to water quality.	\$235,390
	Place-based Integrated Projects - Atherton Tablelands	DESI (now DETSI) OGBR&WH	Atherton Tablelands Integrated Collaboration (ATIC) Phase One was completed, delivering a co-design phase that included the establishment of an advisory group, qualitative interviews with landholders and local stakeholders generating over 120 ideas, mapping of opportunities, gaps and blockages to enable transition to regenerative agriculture and an implementation plan, including MERI reporting. Initiated Phase Two, focusing on four themes identified during Phase One, these are: 1) farmer education, 2) logistics and distribution, 3) consumer education, 4) Traditional Owners participation.	\$640,000
	Stage One - Reef Place-Based Integrated Projects	DESI (now DETSI) OGBR&WH	Reef Placed Based Integrated Projects – Stage one included 3 projects across QLD Reef catchments. These projects completed 5 regional workshops brought together a diverse range of stakeholders through a "business innovation hub" model to identify opportunities and enhance Stage Two submissions.	\$154,100

Point source evaluation and stewardship delivery	Point source evaluation and stewardship delivery	DESI (now DETSI) Sciences	Publication of two major reports: Review of Nutrient Release from Aquaculture Activities, and Leading Practice Sewage Treatment Plant Environmental Management Review. Extension of Collaborative Agreement with Griffith University for a further two years.	\$150,686
Practice change, on-ground programs supporting adoption and regulatory transition	Practice change, on-ground programs supporting adoption and regulatory transition	DESI (now DETSI) OGBR&WH	Continued delivery of practice change, on-ground programs.	\$1,750,270
QRWQP delivery, review and development	Program planning, implementation and development	DESI (now DETSI) OGBR&WH	Continued implementation of the delivery, review and development of the QRWQP.	\$884,768
Queensland River Management Framework	Queensland River Management Framework	DESI (now DETSI) Sciences	Queensland River Classification Scheme has been made available on the Queensland Government's Wetland Info website since October 2023. A report outlining the attributes and available data to develop sediment threat typology was completed and will be used for river attribute mapping undertaken by the Department.	\$186,468
Reef 2050	Reef 2050 Traditional Owner engagement and governance	DESI (now DETSI) OGBR&WH	Supported Reef 2050 Traditional Owner Steering Group members on governance and communication outcomes, meetings and attendance at Australian Marine Sciences Association Conference 2024 and World Oceans Forum 2024. Development of Reef TO communication products and social media profile about the Reef 2050 Traditional Owner Implementation Plan and the Reef 2050 Traditional Owner Implementation Plan Agreement to Partner between the TO Steering Group and the Commonwealth and Qld Environment Ministers. Development with experts of Reef Traditional Owner Taskforce Governance documents including a Terms of Reference.	\$695,132
Reef 2050	Reef 2050 Secretariat	DESI (now DETSI) OGBR&WH	Delivered two Reef 2050 Advisory Committee (RAC) meetings in July and October 2023, including a regional meeting in Cairns. Appointed new RAC Chair in June 2024. Hosted joint dinner with Independent Expert Panel, Minister Linard, and Senator Green for Penny Wensley's last meeting as Chairman in October 2023.	\$89,683
	Reef 2050 WQIP Review	DESI (now DETSI) OGBR&WH	Commenced the listening phase of stakeholder and community engagement of the Reef 2050 WQIP review including surveys, public seminars and other activities.	\$317,387
	Reef Water Quality Independent Science Panel	DESI (now DETSI) OGBR&WH	Five Independent Science Panel (ISP) meetings were held during the 2023–2024 financial year. In addition to normal business, the ISP signed off the 2022 Scientific Consensus	\$1,583

			Statement - Land use impacts on Great Barrier Reef water quality and ecosystem condition. Preparations for the Reef Water Quality Report Card 2021 and 2022 were reviewed through the ISP.	
Reef Assist program	Reef Assist program	DESI (now DETSI) OGBR&WH	Continued implementation support of the Reef Assist sub-program and projects.	\$376,153
	Reef Assist - Burdekin 2.4	DESI (now DETSI) OGBR&WH	Removal of 40 Weeds Of National Significance (WONS) weed trees (pond apple) by burning and slashing. Hosted three community tree planting events at two sites engaging 122 volunteers (1,068 nursery voluntary hours)	\$700,000
	Reef Assist - Burdekin 2.7	DESI (now DETSI) OGBR&WH	Installation of over 400 sediment control structures, including leaky weirs across the region. Weed management, along with installation of erosion control structures, took place over three properties within the Upper Burdekin, East Burdekin, and Black River catchments. Treated weeds included rubber vine, lantana, bellyache bush, neem, and Siam weed. Treatment methods were with basal bark, cut-stump, or foliar spray.	\$480,550
	Reef Assist - Cape York 2.1	DESI (now DETSI) OGBR&WH	Finalised gully remediation, fencing and training capabilities and sites at Mt Louis Station. Engagement with multiple suppliers (sub-contractors) to complete gully remediation once site is accessible at Normanby Station.	\$468,300
	Reef Assist - Fitzroy 2.6	DESI (now DETSI) OGBR&WH	215 hours of training completed through both formal and informal pathways covering a broad range of skills and techniques centred around remediation of gully erosion and work health and safety. Rock check structures built and installed by the Woorabinda. Rangers, providing not only physical repair of the gully network, but training and meaningful on-Country remediation applicable to a number of different areas across Woorabinda.	\$347,500
	Reef Assist - Mackay Whitsunday 2.5	DESI (now DETSI) OGBR&WH	Completion of engineer-designed gully and streambank remediation at three sites. Completion of revegetation works at three sites, which are now being maintained. Training of revegetation officers in local plant seed collection and propagation at community nursery.	\$700,000
	Reef Assist - Wet Tropics 2.11	DESI (now DETSI) OGBR&WH	Cyclone Jasper greatly impacted the delivery of this project. Planted over 1,000 plants and have undertaken relevant training.	\$332,150

	Reef Assist - Wet Tropics 2.2	DESI (now DETSI) OGBR&WH	This project completed the revegetation of Stage 1 of wetland, included the planting of 1,019 native seedlings on three hectares. Alexandra Palm plants will provide additional habitat for Torres Strait Pigeons whose numbers have been decimated by the clearance of the Alexandra Palm Forest.	\$446,700
	Reef Assist - Wet Tropics 2.3	DESI (now DETSI) OGBR&WH	This project supported 1,650 volunteer hours contributed at Mulgrave Landcare nursery at Gordonvale and removal of 55 Weeds Of National Significance.	\$279,965
	Reef Assist - Wet Tropics 2.8	DESI (now DETSI) OGBR&WH	Seed collection and successful germination of seed stock in preparation for the planting season in 2024. Seed stock continue to be tubed ready for upcoming 2025 planting season. The project continues to provide economic stimulus to the local community through business expenditure focused on local providers. Weed maintenance activities have continued for 2023 planted areas and at 2022 planting sites.	\$458,583
	Reef Assist - Wet Tropics 2.9	DESI (now DETSI) OGBR&WH	Completed weed removal and planting of the Jubilee Heights site. Commenced the Mena Creek Site revegetation. Weed eradication of previously planted sites. Employment of nine new Jobfind Ready for Work employees. Propagated 25,000 native seedlings.	\$378,000
Reef Compliance and Regulation Program	Reef Compliance and Regulation – Ag ERA practice standards and ERA13A extension	DESI (now DETSI) ESR	Staff capability and program efficiencies continue to grow, and the number of inspections being delivered almost doubled for the 2023–2024 financial year compared to 2022–2023 (259 compared to 136). In 2023–2024, 257 producers, who conducted agricultural activities on a total of 49,628 hectares of sugarcane farms, 5,412 hectares of banana farms, and 1,751,502 hectares of grazing properties, were inspected. Since 1 December 2019, 551 producers, representing a total of 157,256 hectares of sugarcane farms, 11,135 hectares of banana farms, and 2,530,343 hectares of grazing properties have been inspected. The department also engages with agricultural advisers, industry stakeholders, and partner agencies such as natural resource management and Landcare groups to improve the accuracy of the information provided to farmers. In 2023–2024, 47 stakeholder engagements were conducted across Reef catchments.	\$4,101,393
Reef Credits	Reef Credits	DESI (now DETSI) OGBR&WH	Continued implementation support of the Reef Credits project. Scheme through the Reef Credit Fund.	\$122,035
Reef Program Implementation - DAF	Reef Program Implementation - DAF	DAF (now DPI)	This project delivered a series of online workshops that highlighted the DAF (now DPI) Reef projects and provided improved understanding and new networking and linkages. Held a two-day conference for all members of the DAF (now DPI) Reef team as well as representatives from OGBR&WH to build relationships, develop a common understanding and begin planning for the future of DAF's (now DPI's)	\$378,561

			Reef work. Established an operational-level governance body, a project leaders' reference group and more efficient communication channels that increased the effectiveness and robustness of governance frameworks.	
Reef Program Implementation - Science	Reef Program Implementation - Science	DESI (now DETSI) Sciences	Commenced management, review, and implementation of the QRWQP Five-Year Investment Plan and implementation of governance arrangements.	\$115,042
Reef Regulations Statutory Review	Reef Regulations Statutory Review	DESI (now DETSI) OGBR&WH	An independent contractor undertook 54 interviews with peak agricultural, conservation and regional natural resource management organisations, partners, and producers to learn more about the regulated community's experiences with implementing the regulations. Most producers interviewed as part of the independent stakeholder consultation indicated that there has been practice change because of the Reef regulations. This includes feedback from some producers that the Reef regulations have acted as a catalyst for change toward more progressive and sustainable farm practices, and increased awareness of the impacts of nutrients and sediment on the Reef. The interviews also highlighted that there are some challenges in understanding and applying the Reef regulations and accessing necessary support, particularly in more complex and diverse farm situations or when managing point source emissions.	\$145,600
Reef Science Partnership Program	Reef Science Partnership Program (RSPP) - Reef regulations and compliance support	DESI (now DETSI) OGBR&WH	Continued support to the implementation of the Reef Science Partnership Program across all Reef regions.	\$74,481
Regional Report Cards	Regional Report Card Partnerships	DESI (now DETSI) OGBR&WH	Annual regional report cards and stewardship reports developed and released for the Wet Tropics, Townsville Dry Tropics, Mackay-Whitsunday-Isaac, Fitzroy and Gladstone regions. Fitzroy Partnership for River Health was able to drastically reduce time lag between data collection and production of the annual Fitzroy Basin Report Card, through implementing its new Fitzroy Regional Receiving Environment Monitoring Program (FRREMP) increasing the real time relevance of report card results.	\$1,426,758
	Regional Report Cards - Human Dimensions	DESI (now DETSI) OGBR&WH	Continued implementation of the Human Dimensions aspect of the regional report cards.	\$3,018
	Regional Report Cards - Monitoring	DESI (now DETSI) Sciences	Monthly water quality data successfully collected in estuaries of the Wet Tropics, Dry Tropics and Mackay Whitsunday regions. Fish data collected in freshwater streams of the Wet Tropics in all basins from the Murray north to the Mossman. All data was included in the Regional Reef Report Cards	\$538,668

Soil mapping and modelling for Reef land use decision support tools	Soil mapping and modelling for Reef land use decision support tools	DESI (now DETSI) Sciences	Approximately 400 soil samples from the Burdekin catchment submitted for laboratory analysis. The results will improve the spatial prediction of soil attributes used in the decision support tool ('Reef Land Limitations Checker'). The tool is being maintained, with improvements planned.	\$112,681
Sugarcane Practice Change Program	Burdekin Yield Improvement Project	DESI (now DETSI) OGBR&WH	Six organisations contacted and delivering expert advice on improving crop nutrient use, addressing soil constraints and enhancing farm management planning to improve on-farm nutrient use efficiency. The six organisations are: Sugar Research Australia Limited (Wet Tropics and Burnett Mary regions), Tropical Agricultural Services Pty Ltd (Herbert), Farmacist Pty Ltd (Wet Tropics, Burdekin and Mackay Whitsunday regions), Innisfail District Cane Growers Organisation Limited, Resource Consulting Services Pty Ltd (Mackay Whitsunday), and Tully Cane Productivity Services Ltd.	\$90,909
	Burnett Mary Agronomy Project (BMAP)	DESI (now DETSI) OGBR&WH		\$71,393
	CANEGROWERS	DESI (now DETSI) OGBR&WH		\$180,545
	Going the Distance in the Mackay Whitsunday Region	DESI (now DETSI) OGBR&WH		\$90,909
	Going the Distance in the Wet Tropics Region	DESI (now DETSI) OGBR&WH		\$90,909
	Making positive change' in the Herbert region	DESI (now DETSI) OGBR&WH		\$90,900
	Project Pathfinder	DESI (now DETSI) OGBR&WH		\$90,980
Threatened species	Nest to Ocean Turtle Protection Program	DESI (now DETSI) Threatened Species	Projects have continued to deliver conservation outcomes for marine turtles within key marine turtle stock areas in Queensland through the control of predation on turtle nests by feral pigs, foxes, wild dogs, and the exclusion of goannas. The program continues to exceed the objectives and key performance indicators which is to demonstrate that the management actions implemented resulted in greater than 70% of nests, in treatment areas, producing marine turtle hatchlings - this year achieving 92% of nest producing hatchlings.	\$808,358

Traditional Owner Water Quality Monitoring	Inshore water quality monitoring 1.1		Inshore marine water quality sampling was carried out by Traditional Owners at 15 sites in the southern Great Barrier Reef at approximately two month intervals. In addition, water quality data and coral data collected in previous years was analysed by the Australian Institute of Marine Science (AIMS) and provided to Gidarjil along with recommendations for how to improve monitoring practices.	\$150,000
	Traditional Owner Water Quality Monitoring - Central and Northern	DESI (now DETSI) OGBR&WH		\$49,665
Urban water quality projects	Urban water quality projects	DESI (now DETSI) OGBR&WH		\$135,978
Wetlands in the Great Barrier Reef Catchments Management Strategy	Wetlands in the Great Barrier Reef catchments management strategy mapping	DESI (now DETSI) Sciences	Wetland mapping version 6 (2019) released June 2024. Public release of the Wide Bay – Burnett Aquatic Conservation Assessment. Conducted expert panels for the Fitzroy Aquatic Conservation Assessment.	\$477,246
	Wetlands in the Great Barrier Reef catchments management strategy implementation	DESI (now DETSI) Wetlands	Updated the Reef 2050 Wetlands Strategy and evaluation of the previous strategy which was then released in February 2024 as joint Australian and Queensland governments strategy; scope included the development of the database for tracking the implementation of 159 activities under the strategy; The Strategy Implementation Group formed with representation from Queensland and Australian Government representatives and holding regular, fortnightly meetings; project teams worked with DESI OGBR&WH to align the revised WQIP with the Reef 2050 Wetlands Strategy; held teleconferences, annual forum, and mini forum for the Great Barrier Reef Wetlands Network.	\$165,348
Grand Total				\$54,003,672