

Mount Isa City Council Environmental Management Plan

2020 - 2025



**Report**

Mount Isa City Council Environmental Management Plan

Lead Consultant

Healthy Environs Pty Ltd

Prepared for

Mount Isa City Council

Authors

Luke Ragless

Sally Modystach

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Acknowledgement of Country

We acknowledge the Traditional Owners of country throughout Australia and their connections to land, sea and community. We pay our respect to their Elders past, present and emerging, and extend that respect to all Aboriginal and Torres Strait Islander peoples today.

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Message from the Mayor

I am pleased to present Council's Environmental Management Plan 2020-2025 to the community. This plan will form a significant part of how Council will sustain, protect and manage the extraordinary natural environment in the Mount Isa area over the next five years.

It was made possible thanks to the hard work of Council's Environmental Services team working in close consultation with Healthy Environs, and I thank them all for their efforts in putting this important document together.

I also wish to thank everyone who took part in the community consultation that was carried out earlier this year – either via the face-to-face community feedback sessions, or Council's online survey.

Their input and feedback provided crucial insights into what the community's priorities are and assisted in the creation of this document.

Council takes pride in its commitment to sustaining the local natural environment.

Our initiatives include organising and running the Great Northern Clean-Up, supporting community-led environmental projects, providing community grants for environmental, cultural and outdoor initiatives, and the continued maintenance and enhancement of Mount Isa's natural environment through, amongst other activities, beautifying and maintaining the City's CBD, parks and green spaces.

These vital community and local initiatives all add up to ensure the local environment is kept healthy and that Mount Isa is a city we can all continue to be proud of.

Her Worship Danielle Slade
Mayor of Mount Isa

Executive Summary

The Environmental Management Plan 2020-2025 details how Mount Isa City Council will work to improve environmental outcomes in the municipality over the next 5 years. It is the key document for guiding Council planning, decision-making and activities that impact on our local environment.

The Environmental Management Plan represents a holistic approach to environmental policy and action by Council. The Plan outlines a shared vision for the future of our environment, priority actions and Council's role.

Consultation for the Plan included a community survey, which received 58 responses, a school survey which had 59 responses across three primary schools and two workshops- one with Council staff and one with representatives of community stakeholder groups and organisations. Throughout consultation, various environmental issues, current activities and opportunities for improvement were identified, which informed the 5 themes for

the Environmental Management Plan: Natural Environment, Waste Minimisation, Water Resources, Environmental Health and Community Engagement. Within each of these themes are a number of goals, desired outcomes, objectives and actions to assist Council in achieving its stated vision:

To recognise, protect, manage and promote our unique natural environment to ensure the economic, environmental, social and cultural values are developed for long term sustainability.

The Environmental Management Plan acknowledges that Council can only have direct control

over some of the environmental challenges it faces and so the focus of this plan will be on Council's sphere of influence in enhancing environmental sustainability and how Council can best support the efforts of individuals, households, businesses, industry and agencies and community groups. By developing the Environmental Management Plan, Council is demonstrating environmental stewardship in its own activities, and guiding the City towards becoming an environmentally conscious and sustainable city that provides a healthy environment for a growing population.

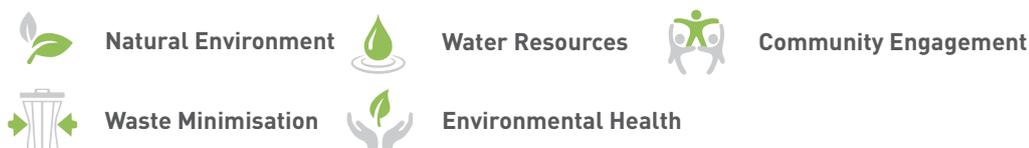
1.

Introduction

1.1 Vision

“To recognise, protect, manage and promote our unique natural environment to ensure the economic, environmental, social and cultural values are developed for long term sustainability.” – Mount Isa City Council Corporate Plan 2018-2023.

Informed through Council’s vision and consultation with the community, the Environment Management Plan is focused around five key themes:



1.2 Purpose

Mount Isa City Council recognises the importance of our stewardship role in environmental management. We understand the strong link between the wellbeing of the community, the environment and the economy and therefore we are dedicated to taking a holistic approach to managing all-natural environmental assets by not only preserving, but enhancing, their ecological functions.

As outlined in the Corporate Plan 2018-2023, Council is committed to creating an innovative and culturally diverse city. A healthy environment is one of the pillars of the Corporate Plan, which includes strategies to recognise, protect, manage and promote our unique natural environment to ensure the economic, environmental, social and cultural values are developed for long term sustainability.

The purpose of Mount Isa City Council’s Environmental Management Plan 2020-2025 is to guide planning, decision-making and activities to support the delivery of these broad strategies to address current, emerging and future environmental issues facing the City of Mount Isa over the next five years.

1.3 Council’s Role

The Plan acknowledges that Council can only have direct control over some of the environmental challenges it faces. While Council works with a range of stakeholders to achieve desired environmental outcomes, the focus of this plan will be on Council’s sphere of influence in enhancing environmental sustainability and how Council can best support the efforts of individuals, households, businesses, industry and agencies and community groups. Council’s role will vary from being a direct **provider** of services and programs, a **facilitator** of community and stakeholder action, a **partner** working with other agencies, a **regulator** of legislative requirements and an **advocate** on behalf of the community.



1.4 Development of the Plan

The Environmental Management Plan is the result of research on the trends and issues influencing Mount Isa’s future, as well as an extensive survey of community views and detailed conversations with staff, stakeholders, community groups and leaders.

A key stakeholder workshop was held in February 2020, which attracted 14 attendees representing 10 different key stakeholder groups. This workshop was designed to discover what stakeholders consider are the environmental assets needing to be protected, what are the biggest environmental pressures in Mount Isa and what strengths and opportunities exist for improvement. Workshop participants also considered what they as community and industry stakeholders are doing to contribute to a better environment.

A staff workshop was held in February 2020, attended by 17 Council staff across 13 Council sections. The role of this workshop was to discover how their work is connected to environmental issues, what they consider are the environmental assets needing to be protected, what are the biggest environmental pressures in Mount Isa and what strengths and opportunities exist for improvement as well as what Council is already doing to address challenges.

Throughout February and March 2020, a community survey was held to identify local environmental features that the community value as well as the environmental issues and opportunities which need to be addressed. The survey received 58 responses. Throughout this period a primary school survey was conducted to engage students about environmental issues of importance to them and their ideas on Council and community actions to improve the environment in Mount Isa. This survey received 59 student responses across three primary schools.

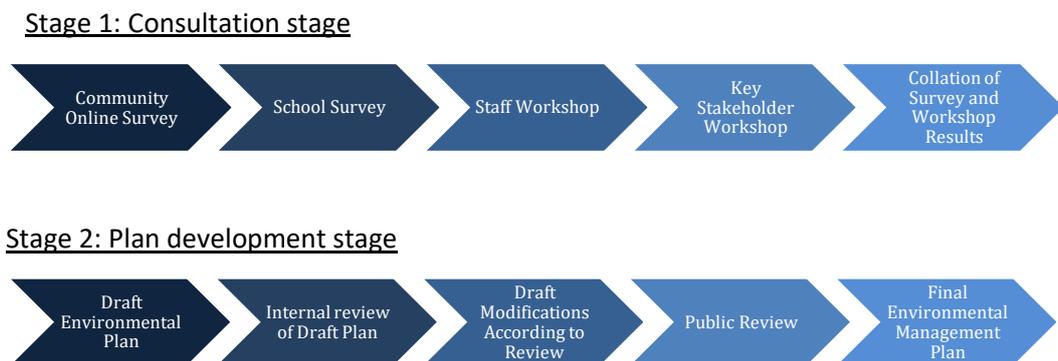


Figure 1 – Stages of Environmental Management Plan Development

Throughout these consultations, we learned that the community values Mount Isa’s natural and rugged areas including Lake Moondarra, biodiversity and access to

nature, while placing importance on the City's ability to manage and minimise waste, resource use and manage the health of the environment. These values are encompassed in the five Environmental Management Plan themes:

- **Natural Environment**
- **Waste Minimisation**
- **Community Environment**
- **Water Resources**
- **Environmental Health**

1.5 Council's Strategic Planning Framework

The Corporate Plan 2018-2023 is the key document that will guide the Mount Isa City Council's activities. It sets out Council's vision and identifies the strategic directions, priorities and strategies Council will pursue to ensure that the Mount Isa region continues to be a great city through innovation, diversification and cultural enhancement, not only today but into the future. The Corporate Plan has five key pillars:



People and Communities

To establish safe and healthy communities with a strong sense of identity which supports the people and groups who work, live, play and visit here.



Prosperous and Supportive Economy

To develop a prosperous and diverse local economy which supports existing industry and encourages new and innovative business and practices.



Services and Infrastructure

To establish innovative and efficient infrastructure networks that services the local communities and industries.



Healthy Environment

To recognise, protect, manage and promote our unique natural environment to ensure the economic, environmental, social and cultural values are developed for long term sustainability.



Ethical and Inclusive Governance

To practice inclusive and ethical governance through proactive engagement with all sectors of the community, council and all levels of government.

The Environmental Management Plan sits alongside the Tourism Development Strategy, Economic Development Strategy and Mount Isa Planning Scheme. Together, these strategic documents help Council to deliver on the Corporate Plan. The structure of environment-related plans and strategies is shown in Figure 3. Please note that not every environment-related plan and strategy is shown here. Rather, a selection is presented to show the different levels of Council strategic plans and their relationship to each other.

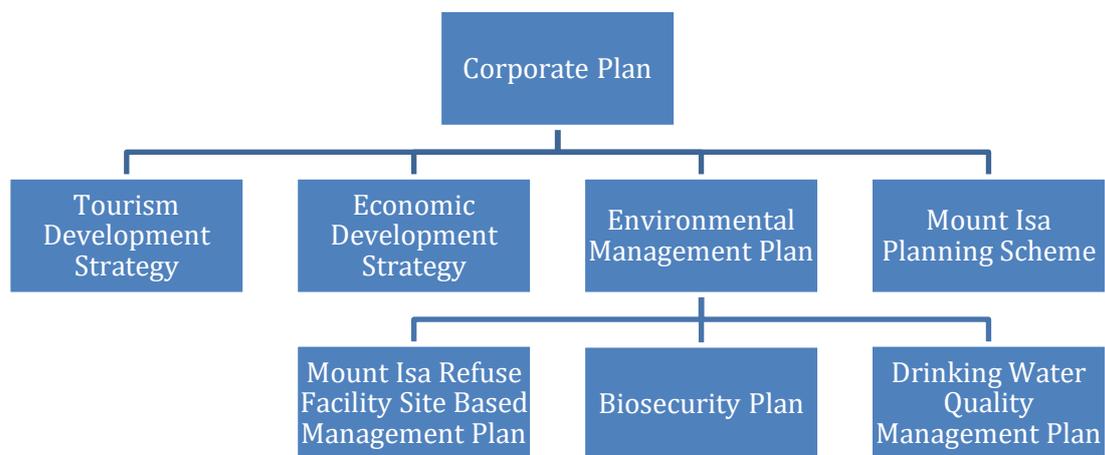


Figure 3 – Council Strategic Framework

1.6 Our Environment

The outback city of Mount Isa is located in the heart of Queensland’s North West Mineral Province¹, about 1,820 km north west from Brisbane and 880 km to the west of the nearest major town, Townsville. Mount Isa covers an area of 43,713 km²², including the township of Camooweal 191km North West of the City. Mount Isa not only proudly calls itself the second largest city in Australia by geographical area, but it is the administrative, commercial and industrial centre for Queensland’s North West³

¹ A Strategic Blueprint for Queensland’s North West Mineral Province

² ABS, Population Estimates by Local Government Area (ASGS 2018) 2017 to 2018

<https://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/3218.02017-18>

³ Corporate Plan 2018-2023

Starting as a humble mining town less than 100 years ago, Mount Isa has grown into a city of approximately 18,878⁴ people while experiencing continued longevity unheard of when it comes to mining communities⁵.

Situated in the Mount Isa Inlier Bioregion, Mount Isa experiences vast changes in natural landscapes. From the rugged Selwyn Range, sprawling red deserts and spinifex plains to the banks of the Leichhardt river and the nationally important wetland Lake Moondarra which acts as a permanent water source for the city and over 80 species of birds. The area around Mount Isa supports over 480 native species of fauna and over 1,100 species of native flora⁶, some of which are found nowhere else in the world. The region's environment provides important habitat for 31 threatened species of plants and animals (Appendix 1) including the Diamond head turtle, Purple-necked wallaby, Carpentarian Grasswren, and the Critically Endangered Curlew sandpiper, Eastern curlew, and Great knot⁷.

It's not only amazing living flora and fauna that make the region's environment so important, Mount Isa is also home to the UNESCO World Heritage Listed Riversleigh Fossil Site. Riversleigh Fossil Site is among the world's top 10 fossil sites. It contains some of the best fossil records of the evolution of mammal fauna from the last 30 million years⁸. Located at Camooweal is the Camooweal Caves National Park, a 13,800 hectare national park consisting of a eucalyptus, spinifex and wattle shrubland with Mitchel grass plains. More notable though, is the extensive system of caves that were formed when water worked its way through 500 million year old layers of dolomite. This created a series of caverns, connected by vertical shafts and sinkholes, some up to 75m long⁹

The landscapes and natural features of the region are culturally important to the residents of the region and in particular to local indigenous communities. Mount Isa is situated on the traditional lands of the Kalkadoon and Indjilandji people, who lived a subsistence lifestyle, and followed patterns of hunting, gathering, fishing and trade throughout their country, moving from one site to another to allow resources to replenish.

Kalkadoon craftsmen were famous for the quality of their stone implements. Hand-crafted tools were traded by the Kalkadoon people with other Aboriginal groups across western Queensland, as far South as Birdsville.

With industries in Mount Isa- mining and cattle grazing, being so land intensive, sustainable management practices are important to help protect and preserve the natural environment.

⁴ ABS, Population Estimates by Local Government Area (ASGS 2018) 2017 to 2018

<https://www.abs.gov.au/AUSSTATS/abs@.nsf/DetailsPage/3218.02017-18>

⁴ Corporate Plan 2018-2023

⁵ Corporate Plan 2018-2023

⁶ Wildlife of Mount Isa local government area, *Wetland Info*, Department of Environment and Science, Queensland www.wetlandinfo.des.qld.gov.au/wetlands/facts-maps/wildlife/?AreaID=lga-mount-isa

⁷ Queensland Government, Species List (Accessed 17 June 2020)

<https://www.qld.gov.au/environment/plants-animals/species-information/species-list>

⁸ Riversleigh Fossil Mammal Site

⁹ Queensland Government, Parks and Forests, About Camooweal Caves

<https://parks.des.qld.gov.au/parks/camooweal-caves/about.html>

MOUNT ISA BY NUMBERS

Figure 4
Our Environment Facts
and Figures

The City



ESTIMATED
POPULATION

18,878

AREA
(KM²)

43,713



UNESCO WORLD
HERITAGE LISTED
RIVERSLEIGH
FOSSIL SITE

Natural Environment & Biodiversity



NATIONAL
PARKS

3

WETLANDS AREA
(KM²)

1,523.3

THREATENED SPECIES OF
PLANTS AND ANIMALS

31



NATIVE SPECIES
OF FAUNA

480

OPEN SPACES

20+

NATIVE SPECIES OF
FLORA

1,100

Diverted from Landfill Since 2018



TONNES OF
STEEL

55

TONNES OF
E-WASTE

43

TYRES

700+



LITRES OF
ENGINE OIL

8,400

CONTAINERS
RECYLCED SINCE 2018

2,323,000

Natural Resources



WATER SUPPLIED TO MOUNT ISA
CUSTOMERS FROM LAKE
MOONDARRA AND LAKE JULIUS
(LITRES)

17,000,000,000

ORE PROCESSED
THROUGH
MOUNT ISA MINES
(TONNES PER YEAR)

11,000,000

2.

Strategic Plan

2. Strategic Plan

2.1 Natural Environment

‘That our environment is maintained at healthy levels, that we do not destroy or irretrievably damage the land and environment.’

Resident feedback- Community Survey

The State of our Natural Environment

Mount Isa is rich in its natural environment and biodiversity from rugged mountain ranges, to undulating valleys, open red soil deserts and flowing waterways.

Rising to the South East of the City is the Selwyn Ranges, an ancient mountain range from where the Leichhardt River begins. This river cuts through the center of Mount Isa and snakes north from the city where it finds Lake Moondarra. Lake Moondarra is an artificial lake built on the Leichhardt River to supply the city with water. Listed as a Nationally Important Wetland, not only is it an important water source for the City, it plays a vital ecological role. As a permanent water source in the semi-arid environment that is Mount Isa, Lake Moondarra acts as a refuge for more than 80 species of birds¹⁰. At the northern boundary of Mount Isa, near Camooweal is the Camooweal Caves National Park, Boodjamulla National Park and UNESCO World Heritage Listed Riversleigh Fossil Site. In between is the red soil deserts covered with low Eucalypt woodlands and spinifex grasslands. These diverse environments allow the City to be home to a vast array of wildlife, including many threatened species. The unique environment of Mount Isa is not without its pressures. One such pressure is the impact of pest plants and animals. As a member of the North West Queensland Regional Organisation of Councils, Mount Isa City Council is on of the co-signatories of North West Queensland Regional Weed and Pest Animal Management Strategy 2020 – 2024¹¹, which aims to achieve awareness, leadership, surveillance and prevention of pest impacts, implementation and monitoring of information regarding pests in the region.

Other pressures on the environment include grazing pressures, the legacy of historic mining activities, recreational activities, drought and pollution¹². The Mount Isa Mines lease 32,000 hectares of land, in a 52-kilometer-long strip, and hence recognise their responsibility to manage their environmental impacts through their Environmental Authority environmental monitoring programs. Mount Isa is fortunate to have most of its original vegetation intact. Although most of the land is grazed, there is a very low percentage of land clearing occurring¹³.

¹⁰ Australian Government, Department of Agriculture, Water and Environment- Directory of Important Wetlands <http://www.environment.gov.au/cgi-bin/wetlands/report.pl>

¹¹ North West Queensland Regional Weed and Pest Animal Management Strategy 2020 – 2024

¹² The North West Regional Plan 2010-2031

¹³ Environment and Science, Queensland Government, Local government areas- remnant vegetation www.publications.qld.gov.au/dataset/lga-remnant-veg/resource/

Having a healthy and diverse environment is vital in supporting the region's biodiversity. A healthy environment is also important for the wellbeing of the community. If the environment is healthy, we have access to clean air, water and food. It also encourages people to connect with nature, with research showing connecting with nature improves our health and wellbeing¹⁴. The natural landscapes of the City offer unique eco and nature-based experiences for residents and visitors alike. These opportunities offer experiences that allow visitors to gain an appreciation and understanding of the natural and cultural values the City has to offer. Of particular value are the national parks and the UNESCO World Heritage Listed Riversleigh Fossil Site.

This connection with land and nature is something our traditional custodians, the Kalkadoon and Indjilandji people, have known to be important. Resource sustainability was something they understood and so would often move camp to allow resources to replenish, following patterns of hunting, gathering, fishing and trade throughout their country. Kalkadoon craftsmen were famous for the quality of their stone implements. Hand-crafted tools were traded by the Kalkadoon people with other Aboriginal groups across western Queensland, as far south as Birdsville¹⁵

Our Natural Environment – Progress, Issues and Community Feedback

The progress we've made...

- Approximately \$400,000 was spent on CBD maintenance, including replanting for city beautification for the 2018-19 period
- Council organised and assisted Wild Dog Baiting program held throughout October 2018 then again June 2019 to help control the wild dog population throughout the area. A total of 3363kg of baits were deployed across 17 properties with the help of light aircraft.
- Development of the Mount Isa City Council Bio-Security Plan 2018 to help facilitate a cooperative approach to managing biosecurity risks.
- Throughout the 2018-19 period, spraying occurred for the control of several weed species including Bellyache Bush, Parkinsonia, Leucaena and Coral Cactus. This occurred, under strict guidelines, in the Leichhardt River and surrounding areas around Mount Isa and Camooweal.
- The Gulf Catchments Pest Task Force chaired by Mount Isa City Council's Rural Lands Officer participated in biannual meetings to discuss and plan the eradication of noxious weeds and pests.
- Over \$3 million has been invested towards park upgrades.
- Continued involvement and improvement of the UNESCO World Heritage Listed Riversleigh Fossil Site through membership on the Riversleigh Community and Scientific Advisory Committee and upgrades to the Centre.
- Providing a "Free Shrub Service" for homeowners to contribute to increase of green space.

¹⁴ White, M.P., Alcock, I., Grellier, J. *et al.* Spending at least 120 minutes a week in nature is associated with good health and wellbeing. *Sci Rep* **9**, 7730 (2019)

¹⁵ Mount Isa Aboriginal and Torres Strait Islander Peoples www.qld.gov.au/atsi/cultural-awareness-heritage-arts/community-histories/community-histories-m/community-histories-mount-isa

The issues we face...

- Pest plant and animals.
- Impacts of pollution, illegal activities and recreational activities on natural areas.
- Natural disasters and extreme weather events- more frequent fire, drought, flood.

Actions for the Natural Environment- What our community is telling us...

- Increase green space around the City- provide lush, clean, green and cool spaces.
- Encourage private gardens- green space and trees.
- Promote biodiversity through use of appropriate vegetation.
- Improved fire management.
- Access to natural areas and nature play.
- Protection of natural areas and ecosystems through pest management.

'Having natural landscapes that encourage kids to play and interact with their environment'

Resident feedback – Community Survey



Goal 1 – Natural Environment

An environment that is protected and accessible by all. Biodiversity is promoted through appropriate actions and the environment is appreciated for its social, cultural, natural and ecological values.

Outcomes for Our Natural Environment

- Restored and healthy natural environment with sufficient long-term protection
- Reduced introduced pest species
- Increased biodiversity

Objectives for Our Natural Environment

- 1A. Maintain or improve the extent and biodiversity of land under Council's care and control
- 1B. Improve knowledge of natural areas and threatening processes
- 1C. The impacts of development on areas of ecological significance will be avoided or limited and best practice environmental management will be implemented
- 1D. Enhance engagement and partnerships between Council and stakeholders for managing the natural environment
- 1E. Increase resident and visitor engagement with the natural environment with a positive environmental outlook

Table 1: Action Plan for our Natural Environment

Action Number	Objective	Priority Actions	Council's Role	Community Stakeholders	Department	Timeframe
1.01	1B	Conduct biodiversity assessment of natural areas to determine baseline for development of a Biodiversity Strategy.	Facilitator Provider	Kalkadoon Nation, Consultant, Department of Environment and Science, Mount Isa Water Board	Environmental Services	2022
1.02	1A 1B	Develop Biodiversity Strategy – incorporating a Wetland Strategy- and establish biodiversity targets based on 1.01 with a focus on threatened or unique flora and fauna of the region.	Provider	Landcare, Southern Gulf Natural Resource Management (SGNRM), Kalkadoon Nation, Pest Advisory Group, QLD Department of Environment and Science, Mount Isa Water Board	Environmental Services	2022
1.03	1A 1D	Control and manage introduced plant and animal pests in order to limit potential impacts on fragile local ecosystems and unique flora and fauna.	Provider Facilitator	Landcare, SGNRM, Kalkadoon Nation, Pest Advisory Group	Environmental Services	2020-2025

Action Number	Objective	Priority Actions	Council's Role	Community Stakeholders	Department	Timeframe
1.04	1A	Increase in indigenous vegetation – grasses, shrubs and trees planted by Council including riparian.	Provider	Kalkadoon Nation, Landcare Mount Isa, SGNRM	Environmental Services	2025
1.05	1A 1C	Review and update planning provisions to ensure areas of high biodiversity value are appropriately identified and protected.	Provider		Environmental Services	2020
1.06	1A 1D 1E	Encourage the use of indigenous and water wise plants by individuals and businesses within the community.	Facilitator	SGNRM, Kalkadoon Nation, Landcare groups, local community groups	Environmental Services Communications Team	2020-2025
1.07	1A 1B 1D	Provide planting guides, and education programs for the community, local nurseries and landscapers.	Provider	SGNRM, Landcare, local community groups and businesses	Environmental Services	2020-2025
1.08	1A 1B 1C	Review Council's in-house environmental initiatives and implement improvements.	Provider		Environmental Services	2021
1.09	1B 1C 1D	Work with relevant groups and agencies to educate rural landowners on sustainable and environmentally responsible land management practices.	Facilitator	SGNRM, Landcare	Environmental Services Communications Team	2020-2025
1.10	1E	Engage with the community to increase awareness on the importance of native species, including threatened or endangered flora and fauna.	Facilitator	Community Groups, Schools and SGNRM	Environmental Services	2020-2025
1.11	1E	Manage human-wildlife conflict and promote co-existence strategies, particularly with transient Little Red Flying-Fox colonies.	Facilitator	Community Groups, and Department of Environment and Science	Environmental Services	2020-2025
1.12	1D 1E	Continued improvement of the Riversleigh Fossil Centre and involvement on Riversleigh Community and Scientific Advisory Committee.	Provider, advocator	Department of Environment and Science	Environmental Services Tourism	2020-2025

2.2 Waste Minimisation

‘Recycle, Reduce, Reuse.’

Student feedback- School Survey

The State of Waste Minimisation

As a dynamic and growing state of more than 5 million people¹⁶, Queensland, is experiencing increasing amounts of waste production. Waste production through the way we live plays a big part in the future of our environment as it represents how much we extract, manufacture and consume. This puts pressures on our resources including water, energy, minerals etc. and as waste is produced, it requires space for landfill, or ideally, recycling and compost facilities, which are managed by Council. This production of waste is related to population growth, but unfortunately, the current increase of waste is greater than the state’s population growth rate¹⁷.

To address this issue, the Queensland Government is committed to improving the states waste management practices. The state’s new Waste Management and Resource Recovery Strategy provides the strategic framework for Queensland to become a zero-waste society¹⁸. The strategy, along with the introduction of the waste disposal levy in 2019, will encourage the diversion of waste from landfill and provide incentive for the development of a more sustainable and circular economy.

With a population of 22,500 residents, 145,000 visitors to Mount Isa¹⁹ and several major events held every year contributing to approximately 43,000 tonnes of waste every year, it’s vital to have systems in place to maximize and encourage a sustainable approach to waste management.

To handle waste production in the City, Mount Isa offers access to the Mount Isa Waste Management Facility. Here the community can bring their waste and recyclable products. The recycling depot within the waste management facility accepts materials such as e-waste, batteries-including car batteries, refrigerators/freezers and metals of all types. Throughout the City there are other charities and private businesses that operate other recycling and salvage services. For example, Mobile Muster bins for mobile phone recycling, local op shops for salable goods including clothes and crockery.

Council participates in the Statewide Container Refund Scheme encouraging the community to collect and return containers for recycling in exchange for a 10-cent refund. There are two container drop off points within the City- Mount Isa Waste Management Facility and Mount Isa Metal Recyclers.

¹⁶ Queensland Population Counter,
<https://www.qgso.qld.gov.au/statistics/theme/population/population-estimates/state-territories/qld-population-counter>

¹⁷ Recycling and Waste in Queensland Report 2017-18
https://www.qld.gov.au/_data/assets/pdf_file/0021/93711/recycling-waste-qld-report-2018.pdf

¹⁸ Waste Management and Resource Recovery Strategy Queensland
https://www.qld.gov.au/_data/assets/pdf_file/0028/103798/qld-waste-management-resource-recovery-strategy.pdf

¹⁹ Mount Isa Tourism Development Strategy 2020-2025

While currently no kerbside recycling is available, Council has applied for a grant through the Australian Government's Building Better Regions Fund to facilitate Council's recycling initiative. This would allow for a two-bin domestic collection service- general rubbish as well as a yellow top bin for recyclables. The grant would also allow construction of a Material Recovery Facility (MRF). The MRF would provide for the sorting and processing of comingled waste products received from the yellow top bins. This would have the potential to enhance the City's community, environment, economy and infrastructure and service industry.

Our Waste Minimisation – Progress, Issues and Community Feedback

The progress we've made...

- Containers for Change Program receiving close to 2,323,000 containers in the first eight months of operation (end of financial year 2019), averaging more than 12,000 containers per day.
- Since November 1st, 2018, the Waste Management Facility recycled 515 tonnes of steel, 43 tonnes of e-waste, 8,400 liters of engine oils and several hundred tyres, not including the more than 2.323 million containers, all of which was diverted from landfill.
- The 2018 Great Northern Clean-Up Day - a total of 49 volunteers signed up for the event and collected over 800kg of waste from the surrounding areas.
- River Clean Up- Council organised two clean-ups of the Leichhardt River over the 2018-19 financial year. A total of 54 tonnes of waste was collected during the two events.
- Two waste amnesties, facilitated by Queensland State Government Council, for Mount Isa were held in the lead up to the Waste Levy. A total of 211.5 tonnes of waste were disposed of, including 475 tyres.
- More than \$1.4M budgeted for waste management for the 2018/19-2019/20 period.
- \$1.2M for investment in waste levy infrastructure.
- Investments in upgrading streetlights to more efficient lighting system (LED) \$450,000 over the 2018/19-2019/20 period.



The issues we face...

- Increase in waste production.
- Illegal dumping of rubbish.
- Increased costs of waste disposal.
- Lack of recycling facilities.

Action for waste minimisation - What our community is telling us...

- Introduce kerbside recycling systems.
- Introduce an organic waste management system.
- Greater enforcement on illegal rubbish dumping.
- More community education.
- More solar and renewable energy sources.

'Investing in recycling could assist Mount Isa to be more sustainable economically and reduce the burden on the environment'

Resident feedback – Community Survey

Goal 2 - Waste Minimisation-

A City that practices sustainable living by following a waste hierarchy structure of avoiding waste generation and any waste that is generated will be reduced, reused and recycled.

Outcomes for our Waste Minimisation

- Amount of waste being sent to landfill is reduced and the reuse and recycling of materials is increased.
- The environment is free from litter and other pollutants.
- Mount Isa becomes a greener more sustainable community.

Objectives for Our Waste Minimisation

- 2A. Best practice waste and recycling collection and litter reduction services are delivered in a strategic city-wide approach
- 2B. Reduced Council and community consumption of resources and improved recycling is achieved.
- 2C. Enhance community partnerships to work towards sustainable living
- 2D. Improve Council and community understanding around waste and resource sustainability

Table 2: Action Plan for our Waste Minimisation

Action Number	Objective	Priority Actions	Council's Role	Community Stakeholders	Department	Timeframe
2.01	2A 2B 2C 2D	Develop a Strategic Waste Management Plan to guide the direction of waste recycling, reuse and disposal.	Provider	Contracted waste management service	Environmental Services	2020
2.02	2A 2B	Implement the kerbside recycling recovery initiative.	Provider	Contracted waste management service	Environmental Services	2020
2.03	2B 2C 2D	Support community education of waste minimisation and recycling, particularly around kerbside recycling.	Facilitator Provider	Contracted waste management service	Environmental Services	2020-2025
2.04	2A 2B 2D	Continued implementation of Council's Procurement Policy and processes to support: sustainable features, less waste, purchase of recycled content products.	Provider		Corporate & Financial Services Environmental Services	2020-2025
2.05	2B 2C	Investigate the costs and benefits of implementing a green waste collection program.	Provider		Environmental Services	2021

Action Number	Objective	Priority Actions	Council's Role	Community Stakeholders	Department	Timeframe
	2D					
2.06	2B 2C 2D	Support community projects to reduce waste through Community Gardens, composting projects, "Green Living" grants and subsidies.	Facilitator Provider	Community groups	Environmental Services Corporate & Financial Services	2020-2025
2.07	2A 2B 2C	Continue the collection and recycling of household waste items such as phones, batteries at participating businesses.	Advocator Partner	Local business	Waste Management	2020-2025
2.08	2A 2B	Investigate the viability of a tip shop.	Provider		Environmental Services	2020
2.09	2A 2B 2C	Engage with local businesses to adopt waste reduction programs particularly on single use plastics and organics.	Facilitator	Community groups, local business	Environmental Services Communications Team	2021-2025
2.10	2A 2C 2D	Develop programs for the elimination of illegally dumped rubbish and active enforcement of illegally dumped rubbish using local and state laws.	Provider		Environmental Services	2020-2025

2.3 Water Resources

'If there is magic on this planet, it is contained in water.'

Loren Eiseley

The State of Our Water Resources

The City of Mount Isa sits on the banks of the Leichhardt River. Beginning at the eastern edge of the Barkly Tablelands, it snakes its way north, where it runs through the middle of the City and eventually it reaches the Gulf of Carpentaria, some 350km to the north. The town of Camooweal, 170km north of Mount Isa sits near the Georgina River

The Leichhardt river represents the lifeline of the City. Just 16km north of the City is Lake Moondarra, an artificial lake built on the river. Lake Moondarra serves as the City's primary water source. This water system provides essential ecosystem services including sustaining many species of native flora and fauna, providing water for the residents, industries and supporting recreational activity.

Due to the proximity of the City to the river, water quality can be affected by various industrial and residential activities. As Mount Isa also receives low rainfall, ongoing treatment to ensure water quality and availability is critical for the City, particularly during drought conditions.

Council plays an important role in water resource management through collaborating with, and providing support to, the work of various agencies involved in managing land and water, particularly the Mount Isa Water Board.

The Mount Isa Water Board is responsible for the management of water from Lake Moondarra and Lake Julius and the supply of quality bulk water to industrial customers and the Mount Isa City Council. As Lake Moondarra is the primary water source for the City, as well as a hub for recreational activities, a stringent water quality monitoring program has been put in place to ensure high quality water is supplied to the City.

Mount Isa City Council is responsible for supplying Camooweal with clean water. This is provided by pumping water from two sub-artesian bores which are then injected with chlorine for disinfection before continuing to the town reticulation.

Council can also influence catchment health and water quality in several ways through policy on water management systems. These include Council's Drinking Water Quality Plan, Grey Water Policy and Recycled Water Policy.

Currently, Mount Isa and Camooweal are experiencing water restrictions. Due to the dry conditions experienced by the City for the last seven years, Mount Isa, and the Town of Camooweal have been on level 2 and 1 water restrictions respectively.

A major campaign for the conservation of water in the City has been the Water Wise campaign. Under the National Water Reform Initiatives, residents are now only charged for what they use so this campaign was put in place to educate the community on water saving techniques

Our Water Resources – Progress, Issues and Community Feedback

The progress we've made...

- Stringent and regular water quality monitoring systems in place.
- Construction of a new 6.8ML reservoir and a third Town Water Supply Bore at Camooweal as a back-up system.
- Completion of the Isa Street bridge upgrade. This upgrade should reduce the risk of it being flooded during the wet season.
- \$4.5M invested in water and sewer upgrades and \$3.9M in water security investment.
- Water Wisa Campaign to help residents conserve water.
- Council-ran clean-up events for the Leichhardt River. A total of 54 tonnes of waste was collected during two events over the 2018-19 period.
- Use of bore and recycled water for parks to reduce water usage.

The issues we face...

- Pollution from stormwater, litter, and some recreational activities.
- Need for ongoing restoration and maintenance to improve waterways and wetlands.
- Drought.
- Cost of transporting water from Lake Julius when Lake Moondarra runs low.

Action for our Water Resources - What our community is telling us...

- Lake Moondarra, Leichhardt River and other waterways and wetlands are highly valued.
- Potential issues with water quality.
- Need for water conservation and sustainability initiatives.
- Water use education.

'Keep working towards and enhance our sustainable water supply'

Resident Feedback – Community Survey

Goal 3 - Water Resources

A City that values its waterways and wetlands, ensures efficient use of water and maintains and improves the health of their water sources

Outcomes for Our Water Resources

- The health of our waterways and riverine corridors and wetlands are maintained, valued and protected as key parts of Mount Isa's ecology.
- Our City's water is used in a more sustainable way by Council and community with best practice water reduction and water reuse principles included in everyday functions.
- The quality of water in drinking water supply catchments is protected.

Objectives for Our Water Resources

- 3A. Increase community appreciation of waterways for improved stewardship
 3B. Reduce potable water use and increase water use from alternative water sources in Council operations.
 3C. Improved water use efficiency
 3D. Improved the quality of water in our waterways,
 3E. Increase the understanding and application of water conservation practices of Council staff.
 3F. Develop, maintain and strengthen relationships and partnerships with key government departments, community and stakeholders

Table 3: Action Plan for Our Water Resources

Action Number	Objective	Priority Actions	Council's Role	Community Stakeholders	Department	Target/Timeframe
3.01	3E	Complete water usage audit of council owned buildings.	Provider		All Council Departments and Sections	2021
3.02	3B 3C 3E	Develop and implement corporate water savings plan (using results from 3.01).	Provider		Environmental Services	2021
3.03	3A 3D	Implement education programs to promote awareness of the impacts of pollution and litter in the riverine environment.	Provider Facilitator	Mount Isa Water Board, Kalkadoon Nation	Environmental Services Communications Team	2020-2025
3.04	3D	Continue rigorous testing of water quality.	Provider	Mount Isa Mines (Glencore), Mount Isa Water Board	Water and Sewer	2020-2025

Action Number	Objective	Priority Actions	Council's Role	Community Stakeholders	Department	Target/Timeframe
3.05	3B 3C 3D 3E 3F	Develop a water management strategy to guide decision making.	Provider	Department of Natural Resources, Mines, and Energy, Mount Isa Water Board and SGNRM	Environmental Services	2021
3.06	3B 3C	Increase use of recycled water for irrigation on Council property.	Provider		Environmental Services	2020-2025
3.07	3D	Implement Gross Pollutant Traps to minimise rubbish and pollutants flowing from urban stormwater to Leichhardt River.	Provider		Environmental Services	2020-2025
3.08	3C 3D	Include best practice water sensitive urban design (WSUD) principles and tools within relevant capital works and asset renewal projects.	Provider		Environmental Services	2020-2025
3.09	3D	Continue capital works program to upgrade stormwater drainage outfalls to improve river health.	Provider	QLD Department of Transport and Main Roads	Environmental Services	2020-2025
3.10	3A 3B 3C 3D 3F	Continue to support local water conservation and waterway initiatives, community groups and activities.	Facilitator Advocator	Mount Isa Water Board, Landcare Groups. Mount Isa Mines (Glencore)	Environmental Services Corporate & Financial Services	2020-2025
3.11	3A 3B 3C 3D 3F	Develop a targeted communication/education plan to manage community understanding and expectations around water conservation, without compromising implementation of lead reduction measures.	Provider facilitator	Mount Isa Water Board	Environmental Services Communications Team	2021

2.4 Environmental Health

‘Work closely with industry for continuous improvement in air quality’

Resident Feedback- Community Survey

The State of Our Environmental Health

Environmental health is one of the most longstanding and important local government functions. A healthy environment contributes to our quality of life and is vital in supporting Mount Isa’s economy and community.

Mount Isa City Council has a role to play in the development of initiatives and practices to improve environmental health and minimise environment impacts across the City. Council currently addresses the impacts on environmental health through policies and procedures around air, soil and water quality; storm water drainage and reuse; pest and disease management, disaster management and public health assessments (swimming pool inspections, wastewater treatment).

Being one of only a few places in Australia to have a mine located right on the doorstep of the community, Mount Isa faces unique environmental challenges. Mount Isa Mines is part of the world’s biggest underground network of mines and boasts some of the largest zinc-lead-silver and copper resources. With such a large operation comes large environmental responsibility. While Mount Isa Mines is ultimately responsible for the monitoring and management of their environmental impacts, Council has a responsibility in advocating for continued compliance of environmental regulations and educating the community on environmental health practices.

One of the key environmental management requirements in the City, is the monitoring of environmental lead levels. Lead is present in the Mount Isa region naturally and from industrial activities. The potential impacts that lead can have on human health has been acknowledged for many years but there are several measures that can be taken to reduce exposure. Education around lead is an important and effective way to help reduce lead exposure and the Lead Alliance is a key driver in raising awareness around this topic.

The Lead Alliance has been developed to deliver information to the Mount Isa community on how to live safely within an environment containing lead and other contaminants. Living in a lead environment is manageable, by following simple hygiene guides and steps encouraged by The Lead Alliance and recommended by the National Health & Medical Research Council.

Council supports the Lead Alliance's initiatives to implement various community programs in Mount Isa to raise awareness of lead and its potential health effects and to bring behavioural changes to limit exposure to lead. One program includes the Backyard improvement program. This encourages parents to make changes in their garden to facilitate a healthier lifestyle. An example of this is reducing the amount of bare soil in the garden, which reduces risk of exposure to lead. This can be achieved using native and water wise plants. This not only reduces the bare soil but increases

vegetation biodiversity and will also aid in conserving water. Other Lead Alliance programs include:

- Free blood lead level testing
- LEADSmart education program

Council has a responsibility regarding educating the community around emerging environmental health issues. Mount Isa has a Local Disaster Management Group, which is designed to address the disaster management needs of the City. This includes providing community access to current information about council services and activities during disasters.

Our Environmental Health – Progress, Issues and Community Priorities

The progress we've made...

- Formation of a COVID-19 response group as part of the Local Disaster Management group to provide community access to current information about council services and activities during the COVID-19 virus pandemic.
- Extensive monitoring of water and air quality.
- Supporting Lead Alliance initiatives to assist in raising awareness of lead and associated public and environmental health risks.

The issues we face...

- Risks associated with close proximity of the mine e.g. air, water, soil pollution
- Pollution of storm water and water ways from industrial, commercial and residential activities e.g. chemical runoff, litter, Issues of water quality through drought conditions e.g. high salinity, algal blooms.
- Emerging environmental health issues such as COVID-19.

Action for our Environmental Health - What our community and stakeholders are telling us...

- Continued rigorous testing for soil, water and air quality.
- Education and communication.

'The environment is where we all meet; where all have a mutual interest; it is the one thing all of us share'

Lady Bird Johnson

Goal 4 - Environmental Health

An environment that supports the health of the Mount Isa community.

Outcomes for our Environmental Health

- The environment is free from litter and other pollutants.
- There is reduced environmental harm or nuisance in the area, such as from the pollution of water, air, land, and noise.
- There is reduced potential for exposure to lead in all forms.
- The environment enables a safe and healthier lifestyle for Mount Isa children.

Objectives for Our Environmental Health

- 4A. Prevent Environmentally Relevant Activities within Council's jurisdiction from causing environmental harm and/or nuisance
- 4B. Continue advocating for the improvements of mining/industry standards for the protection of the Mount Isa environment and community
- 4C. Prevent risk of environmental harm and/or nuisance from Council operations
- 4D. Work cooperatively to meet the goals and objectives of the Lead Alliance.
 - i. Raise awareness in the Mount Isa community about lead and its potential health effects
 - ii. To stimulate behavioural change within the community so that all residents follow safe and hygienic practices for living and working in the Mount Isa environment.
 - iii. To work cooperatively to reduce the potential for exposure to lead in all forms.
 - iv. To be accountable to the community for monitored results achieved through regular reporting
 - v. To ensure, through ongoing monitoring, that blood lead levels in children aged between 0 and 5 years are maintained at below the World Health Organisation recommendation.

Table 4: Action Plan for our Environmental Health

Action Number	Objective	Priority Actions	Council's Role	Community Stakeholders	Department	Timeframe
4.01	4A	Undertake assessment, licensing and enforcement associated with Environmentally Relevant Activities as per Council's authority under the Environmental Protection Act 1994 (the Act).	Regulator	QLD Department of Environment and Science	Environmental Services	2020 -2025
4.02	4A 4B	Develop and deliver program to educate local business and industry on pollution prevention (target stormwater management and the protection of R48 Reserve, including Lake Moondarra).	Provider	Mount Isa Water Board	Environmental Services	2021-2022
4.03	4B	Advocate for sustained high standards of environmental management and associated regulation of local industries (mining and other).	Advocate	QLD Department of Environment and Science	Environmental Services	2020 -2025
4.04	4B	Promote increased community access to up to date and transparent reporting of local air quality data (and Sulphur dioxide emissions) through the Air Quality Mount Isa (AQMI) online portal and smartphone app.	Partner and provider	Mount Isa Mines (Glencore)	Environmental Services Communications Team	2020 -2025
4.05	4B	Promote transparent and community-friendly reporting of local water quality data and educate the community on drinking water safety.	Partner and provider	Mount Isa Water Board	Environmental Services Communications Team	2020 -2025
4.06	4C	Undertake an environmental compliance audit and complete the Environmental Aspects and Impacts Register for Council operations including the Civic Centre, Depot, Refuse Tip, Wastewater Treatment Plant, Aquatic Centre and parks and gardens.	Provider		All Council Departments and Sections	2021

Action Number	Objective	Priority Actions	Council's Role	Community Stakeholders	Department	Timeframe
4.07	4D	Advance community education to promote behavioural changes to limit exposure to lead including the: leadsmart education program and the backyard improvement program.	Provider and Partner	Lead Alliance Partners	Environmental Services Communications Team	2020-2025
4.08	4D	Increase community participation in the Backyard Improvement Program.	Provider and Partner	Lead Alliance Partners	Environmental Services Communications Team	2020-2025
4.09	4D	Investigate a green organics recycling service and the provision of garden mulch for purchase at the Mount Isa Waste Management Facility (refer Action 2.05).	Provider		Waste Management Environment	2021-2022
4.10	4D	Limit exposure to lead in public parks and gardens through Council maintenance practices in line with existing resources.	Provider		Parks and Gardens	2020-2025



2.5 Community Engagement

'Have a community vegetable garden and donate produce to people in need'

Student feedback- School Survey

The State of Community Engagement in the Environment

Mount Isa is a rarity in today's age of urbanisation. It is a city that offers all the services and amenities you would find in any other modern city yet is set amongst a rugged and untouched landscape with remnant and diverse flora, fauna, rivers and red deserts. The Mount Isa community value this environment and sees it as a unique and special part of where they live and work. The environment surrounding the City can be harsh as well as beautiful. Experiencing some of the hottest and driest climates in the North West region²⁰ with the occasional flood, the community needs to be resilient to thrive. For a community to be resilient, thriving and environmentally conscious, there must be collaboration between all facets of that community- residents, business, stakeholder agencies, the Kalkadoon Nation and Mount Isa City Council.

Mount Isa has an active community who enjoy the natural heritage of the region and take pride in the natural environment. This is demonstrated through the involvement of volunteers who help conserve and enhance the land throughout Council area. Mount Isa Landcare is one such group amongst others, that has been running for almost 30 years, encouraging waterwise gardening, pest eradication and habitat restoration²¹. The community also participated in the planting of almost one thousand Australian Jelly Bush trees to help save native bees in a united effort supported by the Council, community groups and local businesses.

The Mount Isa City Council has introduced several initiatives for engaging the community in environmentally conscious practices. This includes the Community Grants and Sponsorship Program. This provides financial assistance to local community and sporting organisations that undertake projects and events that make positive contributions to the quality of life and environment in the Mount Isa region. BUSHkids Mount Isa was a recipient of this grant, which allowed them to build a Sensory Garden for their facility.

Council delivers various environmental initiatives, working in partnership with local schools, community groups and neighbouring councils. This has involved:

- rehabilitating natural areas

²⁰ The North West Regional Plan 2010-2031

²¹ Tackling Weeds and Making Friends All Part of the Adventure, Landcare Mount Isa <https://landcareaustralia.org.au/project/tackling-weeds-and-making-friends-all-part-of-the-adventure/>

- protecting habitats for native flora and fauna
- grants for environment and sustainability projects
- waste minimisation
- litter reduction

These initiatives would not have been possible without our strong base of local volunteers.

Our Community Engagement – Progress, Issues and Community Feedback

The progress we've made...

- Organising the Great Northern Clean- Up activities with 49 volunteers participating in 2018.
- Supporting community led environmental projects including planting for native bees.
- Community grants for Environmental, cultural and outdoor initiatives.
- Continued maintenance and enhancement of the natural environment of Mount Isa.

The issues we face...

- We need to build environmental responsibility, awareness, appreciation and connection.
- More opportunities for environmental activities.
- Lack of education programs around environmental sustainability.
- Lack of initiatives regarding sustainability.

Action for Community Engagement - What our community is telling us...

- More education around environmental sustainability.
- More opportunities for environmental volunteering.
- Collaboration between Council, community and stakeholders.
- Kalkadoon People to be more involved in decision making.
- Greater connection to nature is important.

'Using local Aboriginal language in the naming of buildings, street names and parks.'

Resident feedback – Community Survey

Goal 5 - Community Engagement

To engage, empower and enable the community to address the environmental challenges and threats to Mount Isa and a Council that supports other agencies in improving the environment as well as ensuring the Kalkadoon Nation is an active decision maker in environmental management

Outcomes for Our Community Environment

- Increased community connection with nature, enabling them to draw from the benefits of improved physical and mental wellbeing
- Increased promotion and protection of culturally significant locations
- Increased implementation of environmental and sustainability initiatives
- Community-based environment and sustainability initiatives encouraged and recognised
- Local business-based environment and sustainability initiatives encouraged and recognised

Objectives for Our Community Environment

- 5A. Provide opportunities for community members to participate in meaningful ways and promote environmental awareness
- 5B. Develop partnerships between community, business and Council to assist in working towards sustainable living
- 5C. Provide effective resources to the community to facilitate behaviour change
- 5D. Involve the community and Kalkadoon Nation in Council decision making and projects of environmental significance



Table 5: Action Plan for Our Community Environment

Action Number	Objective	Priority Actions	Council's Role	Community Stakeholders	Department	Timeframe
5.01	5A 5C	Develop a communication and participation strategy targeting specific aspects of the environment to increase awareness and environmental volunteering opportunities.	Provider	SGNRM, Community groups	Communications Team Environmental Services	2021
5.02	5A 5B 5C 5G	Continue to run community events e.g. Great Northern Clean Up, River Clean Up.	Provider Facilitator	Community Groups, Clean Up Australia, Landcare, Kalkadoon Nation	Environmental Services	2020-2025
5.03	5C 5F 5G	Install interpretive signage in areas of cultural or natural significance.	Provider	Kalkadoon Nation	Office of the CEO Communications Team Environmental Services	2021
5.04	5A 5C 5D 5G	Continue providing community grants with focus on sustainability and environmental projects and support opportunities for environmental/sustainability community events.	Provider		Corporate & Financial Services Environmental Services	2020-2025
5.05	5D 5G	Best practice advice is readily available on the Council website and environmental awareness programs are initiated by Council.	Provider Facilitator		Environmental Services	2020-2025
5.06	5C 5G	Investigate best practice sustainability and environmental educational approaches being delivered by other organisations.	Provider	Other LGAs	Environmental Services	2021-2025
5.07	5A 5C 5D 5G	Work with schools to implement environmental sustainability projects.	Facilitator Provider	Local Schools	Environmental Services Communications Team	2020-2025

5.08	5A	Develop a scheme to reward and recognise environmental sustainability achievements in schools, businesses and other parts of the community.	Provider	Community groups. SGNRM	Environmental Services	2021
5.09	5D	Revitalise Tharrapatha Cultural Walkway Project.		Kalkadoon Nation, SGNRM, Youth Justice.	Development and Land Use Technical Services	2023
5.10	5A 5C	Mount Isa City Council website regularly updated to promote key Council environmental initiatives and activities.	Provider		Environmental Services Communications Team	2020-2025



3.

Framework for Implementation, Monitoring and Review

3. Framework for Implementation, Monitoring and Review

The Environmental Management Plan provides guidance for our activities over the next five years. Whilst this is a five-year plan, it is a commitment towards Council's long-term vision ***to recognise, protect, manage and promote our unique natural environment to ensure the economic, environmental, social and cultural values are developed for long term sustainability.***

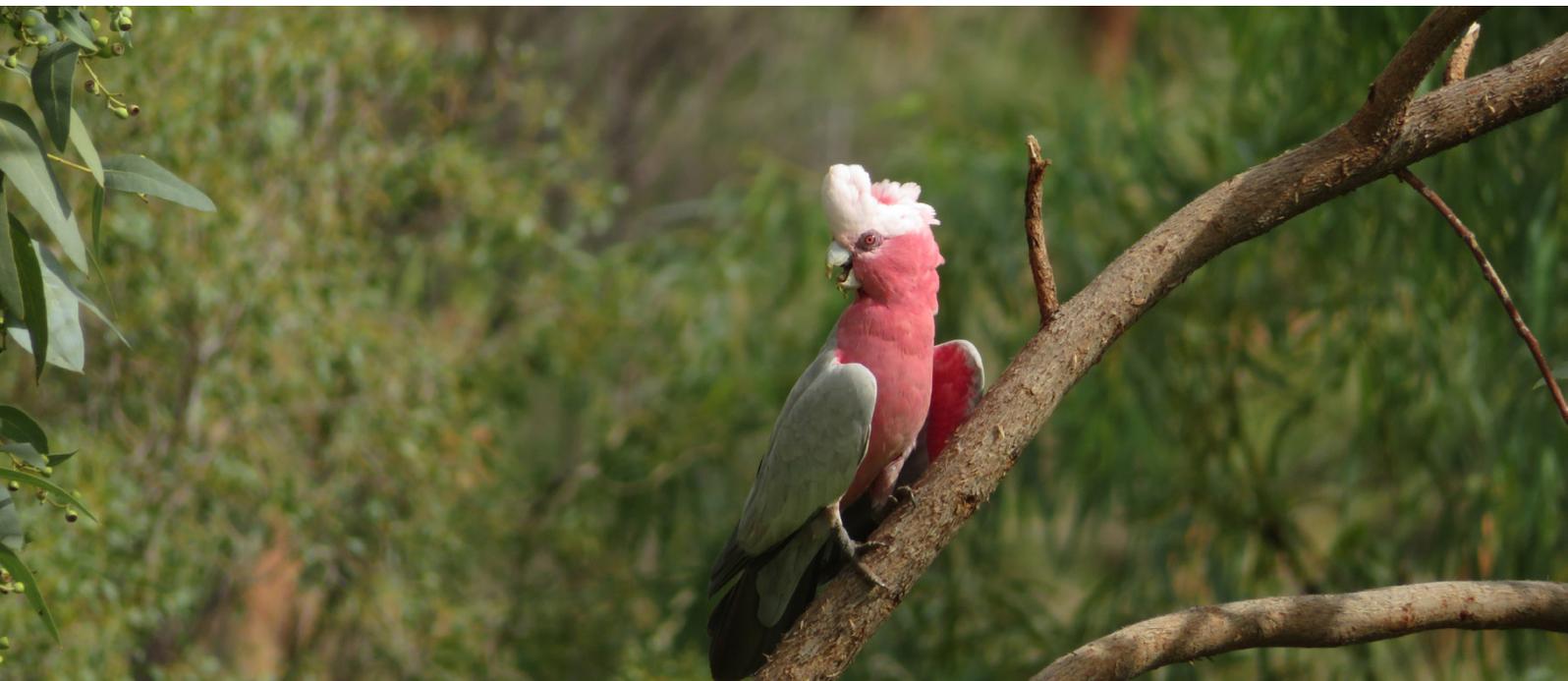
The Environmental Management Plan is a Council-wide document with responsibilities crossing over various Business Units. Resource and funding allocation for actions will be sought through Council's annual budgeting process.

The impacts of Council's actions and those by others on the environment need to be monitored and regularly reviewed and Council is committed to evaluating our performance and undertaking transparent reporting on our progress. The Mount Isa Environmental Management Plan is working document and a progress review will occur on a yearly basis with a full review to begin in 2025. This will involve both Council internal review and public consultation.

Monitoring of the Plan will focus on the extent the measures within the Strategy are:

- meeting their objectives
- being successfully implemented and followed
- still appropriate

Regular information about Council and the community's actions towards improving the environment will be provided, including via the Council website and community newsletters. Progress on the implementation of this Strategy will be reported as part of Council's Annual Report process.



4.

References & Appendix

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5. Appendix 1: Threatened species of the Mount Isa Region

	Scientific Name	Common Name	Q	A
birds	<i>Erythrura gouldiae</i>	Gouldian finch	E	E
birds	<i>Tyto novaehollandiae kimberli</i>	masked owl (northern subspecies)	v	v
birds	<i>Pezoporus occidentalis</i>	night parrot	E	E
birds	<i>Epthianura crocea</i>	yellow chat	V	
birds	<i>Epthianura crocea crocea</i>	yellow chat (gulf)	V	
birds	<i>Grantiella picta</i>	painted honeyeater	V	V
birds	<i>Amytornis dorotheae</i>	Carpentarian grasswren	E	E
birds	<i>Malurus coronatus</i>	purple-crowned fairy-wren	V	
birds	<i>Lophochroa leadbeateri</i>	Major Mitchell's cockatoo	V	
birds	<i>Calidris ferruginea</i>	curlew sandpiper	E	CE
birds	<i>Calidris tenuirostris</i>	great knot	E	CE
birds	<i>Limosa lapponica baueri</i>	Western Alaskan bar-tailed godwit	V	V
birds	<i>Numenius madagascariensis</i>	eastern curlew	E	CE
birds	<i>Rostratula australis</i>	Australian painted snipe	E	E
birds	<i>Charadrius leschenaultii</i>	greater sand plover	V	V
birds	<i>Charadrius mongolus</i>	lesser sand plover	E	E
birds	<i>Falco hypoleucos</i>	grey falcon	V	
birds	<i>Erythrotriorchis radiatus</i>	red goshawk	E	V
land plants	<i>Ptilotus maconochiei</i>		NT	
land plants	<i>Trachymene glandulosa</i>		NT	
land plants	<i>Ipomoea antonschmidii</i>		NT	
land plants	<i>Eucalyptus nudicaulis</i>		V	
land plants	<i>Fimbristylis distincta</i>		V	
land plants	<i>Solanum carduiforme</i>		V	
mammals	<i>Hipposideros stenotis</i>	northern leaf-nosed bat	V	
mammals	<i>Rhinonictoris aurantia</i>	orange leaf-nosed bat	V	
mammals	<i>Macroderma gigas</i>	ghost bat	E	V
mammals	<i>Petrogale purpureicollis</i>	purple-necked rock-wallaby	V	
reptiles	<i>Acanthophis hawkei</i>	plains death adder	V	V
reptiles	<i>Elseya lavarackorum</i>	Gulf snapping turtle	V	E
reptiles	<i>Emydura subglobosa worrelli</i>	diamond head turtle	NT	

Q - Indicates the Queensland conservation status of each taxon under the Nature Conservation Act 1992. The codes are Endangered (E), Vulnerable (V), Near Threatened (NT)

A - Indicates the Australian conservation status of each taxon under the Environment Protection and Biodiversity Conservation Act 1999. The values of EPBC are Critically Endangered (CE), Endangered (E) and Vulnerable (V)



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info@healthyenvirons.com.au

healthyenvirons.com.au