

## Mareeba Shire Council Local Government Infrastructure Plan

Mareeba Shire Council

## **Local Government Infrastructure Plan**

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#### **Document history and status**

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## Contents

4.	Local government infrastructure plan	1
4.1	Preliminary	1
4.2	Planning assumptions	1
4.2.1	Population and employment growth	4
4.2.2	Development	4
4.3	Priority infrastructure area	5
4.4	Desired standards of service	6
4.4.1	Water supply network	
4.4.2	Stormwater Network	9
4.4.3	Transport Network	10
4.4.4	Public parks and land for community facilities network	12
4.5	Plans for trunk infrastructure	16
4.5.1	Plans for trunk infrastructure maps	16
4.5.2	Schedules of works	16

## Schedule 3 Local Government Infrastructure Plan Mapping and Tables



## 4. Local government infrastructure plan

#### 4.1 Preliminary

- 1) This local government infrastructure plan for the Mareeba Shire Council has been prepared in accordance with the requirements of the *Planning Act 2016*.
- 2) The purpose of the local government infrastructure plan is to:
  - a) integrate infrastructure planning with the land use planning identified in the planning scheme
  - b) provide transparency regarding a local government's intentions for the provision of trunk infrastructure
  - enable a local government to estimate the cost of infrastructure provision to assist its long term financial planning
  - d) ensure that trunk infrastructure is planned and provided in an efficient and orderly manner.
  - e) provide a basis for the imposition of conditions about infrastructure on development approvals.
- 3) The local government infrastructure plan:
  - a) states in Section 4.2 (planning assumptions) the assumptions about future growth and urban development including the assumptions of demand for each trunk infrastructure network
  - b) identifies in Section 4.3 (priority infrastructure area) the prioritised area to accommodate urban growth up to 10 to 15 years
  - c) states in Section 4.4 (desired standards of service) for each trunk infrastructure network the desired standard of performance
  - d) identifies in Section 4.5 (plans for trunk infrastructure) the existing and future trunk infrastructure for the following networks:
    - i. water supply
    - ii. wastewater
    - iii. stormwater
    - iv. transport
    - v. Public parks and land for community facilities
  - e) provides a list of supporting documents that assist in the interpretation of the local government infrastructure plan in the Editor's note Extrinsic material at the end of Section 4

#### 4.2 Planning assumptions

- 1) The planning assumptions state the assumptions about:
  - a) population and employment growth
  - b) the type, scale, location and timing of development including the demand for each trunk infrastructure network
- 2) The planning assumptions together with the desired standards of service form a basis for the planning of the trunk infrastructure networks and the determination of the priority infrastructure area.
- 3) The planning assumptions have been prepared for:
  - the base date 2016 and the following projection years to accord with future Australian Bureau of Statistics census years:



- i. mid 2021
- ii. mid 2026
- iii. mid 2031
- b) the LGIP development types in column 2 that include the uses in column 3 of Table 1.
- c) the projection areas identified on Local Government Infrastructure Plan Map LGIP PIA Index Map in Schedule 3—Local government infrastructure plan mapping and tables.

Table 1—Relationship between LGIP development categories, LGIP development types and uses

Column 1	Column 2	Column 3
LGIP development	LGIP development	Uses
category	type	USCS
Residential	Single dwelling	Caretakers Accommodation
development		Dwelling House
		Dwelling Unit
	Multiple dwelling	Dual Occupancy
		Multiple Dwelling
		Relocatable Home Park
		Retirement Facility
	Other Dwelling	Community Residence
	3	Hostel
		Hotel
		Non-resident Workforce Accommodation
		Residential Care Facility
		Short-term Accommodation
		Resort Complex
		Retirement Facility
Non-residential	Retail	Adult Store
development		Market
		Roadside Stall
		Service Station
		Shop
		Shopping Centre
	Commercial	Agricultural Supplies Store
		Bar
		Brothel
		Bulk Landscaping Supplies
		Car Wash
		Food and Drink Outlet
		Function Facility
		Funeral Parlour
		Garden Centre
		Hardware and Trade Supplies
		Home Based Business



Column 1	Column 2	Column 3
LGIP development	LGIP development	Uses
category	type	Uses
	31	Indoor Sport & Recreation
		Sales Office
		Showroom
		Theatre
		Tourist Attraction
		Tourist Park
		Veterinary Services
		Warehouse
		Wholesale Nursery
		Winery
	Industrial	Aquaculture
		Extractive Industry
		High Impact Industry
		Intensive Animal Husbandry
		Intensive Horticulture
		Low Impact Industry
		Marine Industry
		Medium Impact Industry
		Special Industry
		Research and Technology Industry
		Rural Industry
		Service Industry
		Transport Depot
	Community Purposes	Parking Station
		Cemetery
		Child Care Centre
		Community Residence
		Community Use
		Crematorium
		Educational Establishment
		Emergency Services
		Health Care Services
		Hospital
		Major Sport, Recreation and Entertainment Facility
		Place of Worship
		Telecommunications Facility
	Other	Air Services
		Animal Husbandry
		Animal Keeping
		Cropping
		Detention Facility



4

Column 1  LGIP development category	Column 2 LGIP development type	Column 3 Uses
		Environment Facility
		Landing
		Major Electricity Infrastructure
		Motor Sport Facility
		Nature-based Tourism
		Outstation
		Park
		Permanent Plantation
		Port Services
		Renewable Energy Facility
		Substation
		Utility Installation

4) Details of the methodology used to prepare the planning assumptions are stated in the extrinsic material.

#### 4.2.1 Population and employment growth

1) A summary of the assumptions about population and employment growth for the planning scheme area is stated in Table 2—Population and employment assumptions summary.

Table 2—Population and employment assumptions summary - Planning Scheme Area

Column 1 Description	Column 2 Assumptions				
	Base date (2016) 2021 2026 2031 Ultimate Development (PIA only)				Development (PIA
Population	21,557	22,605	23,562	24,522	24,522
Employment	9,812	8,695	9,064	9,433	9,433

- 2) Detailed assumptions about growth for each projection area and LGIP development type category are identified in the following tables in Schedule 3 Local government infrastructure plan mapping and tables:
  - a) for population, Table SC3. 1
  - b) for employment, Table SC3. 2

For the purposes of the LGIP, 2031 development projection shall be considered ultimate. Calculation of ultimate residential development are provided within the LGIP and supporting documents. While it is acknowledged there is surplus land within the smaller localities to service development beyond 2031, planning for infrastructure to service these localities is likely to be uneconomic given the relatively low rate of new urban development within areas of the Shire outside of Mareeba township.

#### 4.2.2 Development

IH133800-0000-NW-RPT-0006

 The developable area is identified on Local Government Infrastructure Plan Map LGIP-PIA001 to LGIP-PIA-007 in Schedule 3—Local government infrastructure plan mapping and tables.



- 2) The planned density for future development is stated in Table SC3.3 in Schedule 3—Local government infrastructure plan mapping and tables.
- 3) A summary of the assumptions about future residential and non-residential development for the planning scheme area is stated in Table 3—Residential dwellings and non-residential floor space assumptions summary.

Table 3—Residential dwellings and non-residential floor space assumptions summary

Column 1 Description				Column 2 Assumptions		
	Base date (2016)	2021	2026	2031	Ultimate Development (PIA)	Ultimate Development
Residential dwellings	4,835	5,560	5,996	6,466	5,600	8,363
Non-residential floor space (m² GFA)	224,160	232,680	242,506	252,372	252,372	252,372

- 1) Detailed assumptions about future development for each projection area and LGIP development type are identified in the following tables in Schedule 3 Local government infrastructure plan mapping and tables:
  - a) for residential development, Table SC3. 1
  - b) for non-residential development, Table SC3. 2

#### 4.2.3 Infrastructure demand

- 1) The demand generation rate for each of the trunk infrastructure networks is stated in Table SC3.3 in Schedule 3 Local government infrastructure plan mapping and tables.
- 2) A summary of the projected infrastructure demand for each service catchment is stated in Schedule 3, as follows:
  - a) for the water supply network, Table SC3. 6
  - b) for the sewerage network, Table SC3. 7
  - c) for the stormwater network, Table SC3. 8
  - d) for the transport network, Table SC3. 9
  - e) for the parks and land for community facilities network, Table SC3. 10

#### 4.3 Priority infrastructure area

- 1) The priority infrastructure area identifies the area prioritized for the provision of trunk infrastructure to service the existing and assumed future urban development up to 2031.
- 2) The priority infrastructure area is identified on Local Government Infrastructure Plan Map LGIP-PIA-001 to LGIP -PIA-007.



#### 4.4 Desired standards of service

- 1) This section states the key standards of performance for a trunk infrastructure network.
- 2) Details of the standard of service for a trunk infrastructure networks are identified in the extrinsic material.

## 4.4.1 Water supply network

Table 4 : Desired Standard of Service (DSS) for the Water Supply network

Measure	Planning Criteria	Design Criteria
	(qualitative standards)	(quantitative standards)
Reliability / Continuity of Supply	All development receives a reliable supply of potable water, with minimal interruptions to their service.	Mareeba Shire Council Water and Wastewater Customer Service Standard
		All sections of the reticulation network shall receive a residual pressure of at least 22 m during the 'maximum hour' demand and the system should be capable of supplying water for six (6) consecutive 'maximum hours'.
		The system should have sufficient capacity to refill all reservoirs from empty to full within 5 days of continuous operation during 'average day' demand conditions.
		Each reservoir in the system should have a net positive inflow, and should be capable of continuous operation during 'mean day maximum month' demand conditions.
		FNQROC Development Manual, as amended.
		<ul><li>Wet Tropics Management Plan 1998.</li></ul>
Adequacy of Supply	All development is provided with a water supply which is adequate for the intended use.	Water Supply Code of Australia – Water Services Association of Australia as amended by Council.
	Minimum static pressure (meters head) and/or flow (liters/second) at connection.	Planning Guidelines of Water     Supply and Sewerage –     Department of Energy and Water     Supply.
		The reticulation system should be capable of providing simultaneously a fire fighting flow of 30 L/s for 4 hours in commercial areas and 15 L/s for 2 hours in residential areas.



Measure	Planning Criteria	Design Criteria
	(qualitative standards)	(quantitative standards)
		<ul> <li>During fire fighting demands the residual pressure at any point in the reticulation network should not drop below 12 m.</li> <li>The Average Daily consumption and peaking factors for the design of Water Supply Schemes shall be as follows:         <ul> <li>Average Daily Consumption (AD) 500 litre/person/day</li> <li>Mean Day Maximum Month (MDMM) 1.50 x AD</li> <li>Peak Day (PD) 2.25 x AD</li> <li>Peak Hour (PH) 1/12 x PD</li> </ul> </li> <li>The maximum head in the reticulation system should be limited to below 60 m.</li> </ul>
Quality of Supply	Provide a uniform water quality in accordance with recognised standards which safeguards community health and is free from objectionable taste and odour.	National Health and Medical Research Council Australian Drinking Water Guidelines 2011 Version 3.4
Environmental Impacts	<ul> <li>Provide water supply infrastructure that:</li> <li>Minimises energy use.</li> <li>Minimises greenhouse gas emissions.</li> <li>Complies with Environmental Management Strategies and Plans.</li> <li>Provides for system operation and monitoring in accordance with recognized standards.</li> </ul>	<ul> <li>Compliance with all environmental licenses and environmental management plans under the Water Act 2000 and the Environmental Protection Act 1994.</li> <li>Water Supply Code of Australia – Water Services Association of Australia as amended by Council.</li> <li>Planning Guidelines of Water Supply and Sewerage – Department of Energy and Water Supply.</li> <li>FNQROC Development Manual, as amended.</li> <li>Wet Tropics Management Plan 1998.</li> </ul>
Pressure and Leakage Management	The water supply network is monitored and managed to maintain the reliability and adequacy of supply and to minimize environmental impacts.	<ul> <li>Mareeba Shire Council Water and Wastewater Customer Service Standard.</li> <li>System Leakage Management Plan (Chapter 3, Part 3, Division 1A Water Act 2000).</li> </ul>



Measure	Planning Criteria	Design Criteria
	(qualitative standards)	(quantitative standards)
		A.S.C. System Loss Management Plan.
Infrastructure Design / Planning Standards	Design of the water supply network will comply with established codes and standards.	<ul> <li>Water Services Association of Australia – WSA 03 – 2011 – Water Supply Code of Australia</li> <li>Australian Drinking Water Guidelines – National Health and Medical Research Council</li> <li>Planning Guidelines for Water Supply and Sewerage – Department of Natural Resources and Water</li> <li>FNQROC Development Manual, as amended.</li> </ul>

## Sewerage network

Table 5 : Desired Standard of Service (DSS) for the Sewerage network

Measure	Planning Criteria (qualitative standards)	Design Criteria (quantitative standards)
Reliability	All lots have access to a reliable sewerage collection, conveyance, treatment and disposal system.	<ul> <li>Mareeba Shire Council Water and Wastewater Customer Service Standard.</li> <li>The "Average Dry Weather Flow" (ADWF) shall be limited to 275 L / EP / day.</li> <li>The design flow adopted shall be limited to (4 x ADWF).</li> <li>The sewer capacity at design flow should not exceed 0.75 x diameter of sewer.</li> <li>FNQROC Development Manual, as amended.</li> </ul>
Quality of Treatment	Ensures the health of the community, and the safe and appropriate level of treatment and disposal of treated effluent.	<ul> <li>Compliance with all environmental licenses and environmental management plans under the Water Act 2000 and the Environmental Protection (Water) Policy 1997.</li> <li>Queensland Water Quality Guidelines 2006 – Environmental Protection Agency.</li> <li>National Water Quality Guidelines – National Water Quality Management Strategy.</li> </ul>
Environmental Impacts	The environmental impacts of the sewerage network are minimized in accordance with community expectations.	<ul> <li>Compliance with all environmental licenses and environmental management plans under the Water Act 2000 and the Environmental Protection (Water) Policy 1997</li> <li>Mareeba Shire Council Water and Wastewater Customer Service Standard.</li> </ul>



Measure	Planning Criteria (qualitative standards)	Design Criteria (quantitative standards)
Inflow / Infiltration	Ensure infiltration and inflow in the sewerage collection and transportation system remains within industry acceptable limits.	Compliance with all environmental licenses and environmental management plans under the Water Act 2000 and the Environmental Protection (Water) Policy 1997
Effluent Re-use	Reuse effluent wherever possible.	Compliance with all environmental licenses and environmental management plans under the Water Act 2000 and the Environmental Protection (Water) Policy 1997     Guidelines for Sewerage Systems – Reclaimed Water – February 2000
		Queensland Water quality guidelines for recycled water schemes - November 2008
Infrastructure Design / Planning Standards	Design of the sewerage network will comply with established codes and standards.	Section D7 Sewerage System Design     Guidelines of the Development Manual Planning     Scheme Policy.
		Department of Natural Resources Planning Guidelines for Water Supply and Sewerage.
		Water Services Association of Australia – WSA     – 02 – 2014 – Sewerage Code of Australia
		Water Services Association of Australia – WSA – 04 – 2005 – Sewerage Pumping Station Code of Australia.
		FNQROC Development Manual, as amended.

## 4.4.2 Stormwater Network

Table 6 Desired Standard of Service (DSS) for Stormwater Network

Measure	Planning Criteria	Design Criteria
	(qualitative standards)	(quantitative standards)
Quantity	Collect and convey the design storm event in natural and engineered channels, a piped drainage network and system of overland flow paths to a lawful point of discharge in a safe manner that minimises the inundation of habitable rooms and protects life.	<ul> <li>Department of Natural Resources and Water – Queensland Urban Drainage Manual</li> <li>FNQROC Development Manual,</li> <li>Australian Rainfall and Runoff – A Guide to Flood Estimation,</li> <li>Brisbane City Council - Natural Channel Design Guidelines.</li> </ul>
Quality	The water quality of urban catchments and waterways are managed to protect and enhance environmental values and pose no health risk to the community, and water quality of urban catchments and waterways consider provision of sufficient space in	<ul> <li>Provide sufficient space in waterway corridors to accommodate wetlands and stormwater quality improvement devices.</li> <li>Design cross road structures to provide the appropriate level of flood immunity.</li> <li>Queensland Water Quality Guidelines 2006 – Environmental Protection Agency</li> </ul>



Measure	Planning Criteria	Design Criteria
	(qualitative standards)	(quantitative standards)
	waterway corridors to accommodate wetlands and stormwater quality improvement devices.	<ul> <li>Queensland Waterway Guideline</li> <li>National Water Quality Guidelines – National Water Quality Management Strategy</li> <li>Fisheries Act 1994 and Fisheries Regulation 2008.</li> <li>Fish Habitat Guideline FHG 003 – Fisheries Guidelines for Fish Habitat Buffer Zones</li> </ul>
Environmental Impacts	Adopt water sensitive urban design practices and on site water quality management to achieve EPA water quality objectives	<ul> <li>Environmental Protection Agency requirements (section 42 Environmental Protection (Water) Policy 1997)</li> <li>Fisheries Act 1994.</li> <li>Queensland Waterway Guideline</li> <li>Employ water sensitive urban design criteria to maximise on-site quantity and quality treatment and limit discharges off site.</li> <li>Employ (NO net-worsening) criteria on all new development or redevelopment site.</li> </ul>
Infrastructure Design / Planning Standards	Design of the stormwater network will comply with established codes and standards	<ul> <li>FNQROC Development Design Standards -         Design Guidelines set out in Sections D4 and         D5 of FNQROC Development Manual.</li> <li>Department of Natural Resources and Water -         Queensland Urban Drainage Manual.</li> <li>Australian Rainfall and Runoff – A Guide to         Flood Estimation, and</li> <li>Brisbane City Council - Natural Channel         Design Guidelines requirements.</li> </ul>

## 4.4.3 Transport Network

Table 7 Desired Standard of Service (DSS) for Transport Network

Measure	Planning Criteria	Design Criteria
	(qualitative standards)	(quantitative standards)
Road Network Design / Planning Standards	The road network provides a functional urban and rural hierarchy and freight routes which support settlement patterns and commercial and economic activities.  Design of the road system will comply with established codes and standards	<ul> <li>FNQROC Development Manual</li> <li>Road Planning and Design Manual</li> <li>Department of Transport and Main Roads</li> <li>Australian Standards</li> <li>AUSTROADS guidelines</li> </ul>
Public Transport Design / Planning Standards	New urban development is designed to achieve safe walking distance to existing or potential bus stops or	<ul> <li>Design accords with the Performance Criteria set by Department of Transport and Main Roads</li> </ul>



Measure	Planning Criteria	Design Criteria		
	(qualitative standards)	(quantitative standards)		
	existing or proposed demand- responsive public transport routes.	<ul> <li>AUSTROADS guides for road- based public transport and high occupancy vehicles</li> </ul>		
Cycle ways and Pathways  Design / Planning  Standards	Cycleways and pathways provide a safe and convenient network which encourages walking and cycling as acceptable alternatives.  Design of the network will comply with established codes and standards.	<ul> <li>Australian Standards</li> <li>'AUSTROADS Guide to Road Design – Part 6A: Pedestrian and Cycle Paths'</li> <li>Queensland Cycle Strategy 2011- 2021</li> <li>'Complete Streets'</li> </ul>		



## 4.4.4 Public parks and land for community facilities network

Table 8 Desired Standards of Service Open Space and Community Facilities Network

Measure	Planning Criteria	Design Criteria
	(qualitative standards)	(quantitative standards)
Functional Network	A network of parks and community land is established to provide for the full range of recreational and sporting activities and pursuits.	<ul> <li>Parks and Community Land is provided at a Local, District and LGA Wide Level</li> <li>Parks and community land addresses the needs of both recreation and sport.</li> <li>Nature conservation is also provided for but not part of the charging regime.</li> </ul>
Accessibility	Public parks will be located to ensure adequate pedestrian, cycle and vehicle access.	Accessibility criteria are identified in Table 9.
<ul> <li>Land Quality/ Suitability</li> <li>Area / 1000 persons</li> <li>Minimum size</li> <li>Maximum grade</li> <li>Flood immunity</li> </ul>	Public parks will be provided to a standard which supports a diverse range of recreational, sporting and health promoting activities to meet community expectations. This includes ensuring land is of an appropriate size, configuration and slope and has an acceptable level of flood immunity.	<ul> <li>The rate of public park provision is identified in Table 10.</li> <li>The size for public parks is identified in Table 11.</li> <li>The maximum gradient for public parks is identified in Table 12.</li> <li>The minimum flood immunity for public parks is identified in Table 13.</li> </ul>
Embellishments	Public parks contain a range of embellishments to complement the type and use of the park.	Standard embellishments for each type of park are identified in Table 14.
Infrastructure Design / Performance Standards	Maximise opportunities to colocate recreational parks in proximity to other community infrastructure, transport hubs and valued environmental and cultural assets.	<ul><li>Australian Standards;</li><li>FNQROC Development Manual</li></ul>
Accessibility	Public parks will be located to ensure adequate pedestrian, cycle and vehicle access.	Accessibility criteria are identified in Table 9



Table 9: Accessibility standard

Infrastructure Type	Accessibility Standard				
	Local (non trunk)	District	Area of Planning Scheme		
Recreation park	Park or node1 within 500 m safe walking distance.	Park or node within 2 - 5 km.	Park/precinct based on specific feature or location – serves whole of planning scheme area.		
Sport park	No formal provision	Sporting Park within 5-10 km of residential and village areas.	1-3 Parks serves whole of area for regional competition or is base for competition within area.		

## Table 10 : Rate of land provision

Infrastructure Type	Rate of provision (Ha/1000 people)						
	Local (non—trunk) District Area of Plannin						
Recreation park	1.5 Ha	1.0 Ha	0.5 Ha				
Sport park	N/A	1.0 Ha	0.4 Ha				
Community Facilities	N/A	N/A	0.1				

## Table 11: Size of parks and community land

Infrastructure Type	Size (Ha)						
	Local (non trunk)  District  Area of Planning Scheme						
Recreation park	1.5 Ha (2.0 Ha if a node)	2 Ha usable area	More than 5 Ha				
Sport park	No formal provision	5 Ha minimum	5-10 Ha				
Community Facilities		As required	As required				

## Table 12: Maximum desired grade

Infrastructure Type	Maximum Gradient				
	Local (non trunk)	District	Area of Planning Scheme		
Recreation park	1:20 for main use area 1:6 for remainder	1:20 for main use area, variable for remainder	1:20 for use areas Variable for remainder		
Sport park	N/A	1:50 for field and court areas 1:10 for remainder	1:50 for all playing surfaces		

<sup>&</sup>lt;sup>1</sup> Node is an area within a higher level park or within other open space (e.g. a waterway corridor) that is developed for play and picnic use.



Infrastructure Type	Maximum Gradient					
	Local (non trunk)	District	Area of Planning Scheme			
Community Facilities	N/A	N/A				

Table 13: Minimum desired flood immunity for parks

Infrastructure	Minimum flood immunity (%)								
Туре	Local			District		Area of Planning Scheme			
Flood immunity	>20% AEP	>2% AEP	>1% AEP	>20% AEP	>2% AEP	>1% AEP	>20% AEP	>2% AEP	>1% AEP
Recreation park	25%	50%	50%	0%	90%	10%	50%	40%	10%
Sport park	N/A	N/A	N/A	0%	90%	10%	50%	40%	10%
Community Facilities	N/A	N/A	N/A	N/A	N/A	N/A	0	10%	90%

Table 14: Standard facilities/embellishments for parks

Embellishment	Recreation part	ks		Sport parks	
type	Local (non trunk)	District	Area of Planning Scheme	District	Area of Planning Scheme
Internal roads	N/A	N/A			N/A
Parking	On street	On street	Off street or dedicated on street parking, possibly in several locations	Off street parking provided as central hubs to facilities	Off street parking provided as central hubs to facilities
Fencing/bollards	Not required	Bollards to prevent car access	Range of fencing, boundary definition styles as appropriate to location	Bollards to prevent car access	Fencing and bollards to control access to site as well as limiting internal traffic access to fields and facilities.
Lighting	Safety lighting provided by street lights	For car park, toilets, youth space and picnic area	For car park, toilets, youth space and picnic area	For car park, toilets, security lighting for buildings. Field lighting responsibility	For car park, toilets, security lighting for buildings. Field lighting responsibility



Embellishment	Recreation park	(S	Sport parks		
type	Local (non trunk)	District	Area of Planning Scheme	District	Area of Planning Scheme
Toilet	Generally, not provided	Usually provided	Provided	Provided if not being provided as part of club facilities	Provided if not being provided as part of club facilities
Paths (pedestrian/cycle)	On footpath and providing access to boundary	Paths and links to park and within park	Internal links to facilities	Bikeway links to park. Internal links to facilities	Internal links to facilities
Shade structures	Shade from trees or structures provided for play areas and picnic node	Built shade for play and picnic facilities if insufficient natural shade	Shade for picnic facilities and all use nodes. Combination of natural and built.	Perimeter shade from appropriate tree species.	Perimeter shade from appropriate tree species.
Seating, tables and BBQ	1-2 tables 2+ seats BBQ's normally not provided	2+ sheltered tables 4+ seats BBQ's usually provided	Multiple picnic nodes, BBQ's and shelters provided	Not provided except as recreation nodes. 2-4 perimeter seats	Not provided except as recreation nodes. 2 perimeter seats per field
Taps/irrigation	1-2 drinking taps / fountains	2+ drinking fountains for picnic areas. Taps near active recreation areas.	In ground irrigation for landscaped areas.  Drinking fountains and taps provided at picnic and active nodes.	Taps located on built facilities and near fields.	In ground irrigation for fields.  Taps located on built facilities and 1 per field
Bins	Provided	Provided	Provided	Provided	Provided
Landscaping (including earthworks, irrigation and revegetation)	Ornamental plantings. Shade species. Buffer plantings with other nodes.	Enhancement plantings and shade plantings along with screening and buffers.	Significant works including plantings, features and public art.	Planted buffer areas adjacent to residential areas. Screening / buffer plantings for recreation nodes.	Planted buffer areas adjacent to residential areas. Screening / buffer plantings for recreation nodes.
Playgrounds	1 play event provided	Larger playground multiple play	Large playgrounds and possibly	Not provided except as part of recreation node.	Not provided except as part of recreation node.



Embellishment type	Recreation par	ks	Sport parks		
	Local (non trunk)	District	Area of Planning Scheme	District	Area of Planning Scheme
		events provided.	multiple locations.		
Youth active and informal facilities		Youth active facilities provided - court, bike tracks, youth space etc.	Youth active facilities provided -court, bike tracks, youth space etc.	Not provided except as public access to sporting fields	Not provided except as public access to sporting fields or as dedicated facility (e.g. skate park)

#### 4.5 Plans for trunk infrastructure

1) The plans for trunk infrastructure identify the trunk infrastructure networks intended to service the existing and assumed future urban development at the desired standard of service up to 2031.

#### 4.5.1 Plans for trunk infrastructure maps

- 1) The existing and future trunk infrastructure networks are shown on the following maps in Schedule 3—Local government infrastructure plan mapping and tables:
  - Local Government Infrastructure Plan Map LGIP-WAT-001 to LGIP -WAT-007 Plan for trunk water supply infrastructure
  - b) Local Government Infrastructure Plan Map LGIP-SEW-001 to LGIP -SEW-007 —Plan for trunk sewerage infrastructure
  - c) Local Government Infrastructure Plan Map LGIP-STW-001 to LGIP -STW-007 —Plan for trunk stormwater infrastructure
  - Local Government Infrastructure Plan Map LGIP-TPT-001 to LGIP -TPT-007 —Plan for trunk transport infrastructure
  - e) Local Government Infrastructure Plan Map LGIP-PCF-001 to LGIP -PCF-007 —Plan for trunk parks and land for community facilities infrastructure
- The State infrastructure forming part of transport trunk infrastructure network has been identified using information provided by the relevant State infrastructure supplier.

#### 4.5.2 Schedules of works

- Details of the existing and future trunk infrastructure networks are identified in the electronic Excel schedule
  of works model which can be viewed here: <insert link to the website where the file can be found>. TO BE
  INSERTED BY MSC FOLLOWING COMPLETION OF REPORT
- 2) The future trunk infrastructure is identified in the following tables <in Schedule 3—Local government infrastructure plan mapping and tables:
  - a) for the water supply network, Table SC3. 11
  - b) for the sewerage network, Table SC3. 12
  - c) for the stormwater network, Table SC3. 13



- d) for the transport network, Table SC3.14
- e) for the parks and land for community facilities network, Table SC3. 15

#### Editors note — Extrinsic material

The below table identifies the documents that assist in the interpretation of the local government infrastructure plan and are extrinsic material under the *Statutory Instruments Act 1992*.

#### List of extrinsic material

1) Table 4.5.2.1: List of extrinsic material

Column 1 Title of document	Column 2 Date	Column 3 Author
Background Information for the Water Supply & Wastewater Networks for the Mareeba Shire Council Local Government Infrastructure Plan	March 2017	MSC
Background Information for the Planning Assumptions for the Mareeba Shire Council Local Government Infrastructure Plan	March 2017	MSC
Background Information for the Transport Network for the Mareeba Shire Council Local Government Infrastructure Plan	March 2017	MSC
Background Information for the Stormwater Drainage Network for the Mareeba Shire Council Local Government Infrastructure Plan	March 2017	MSC
Background information for the Open Space and Land for Community Facilities Network for the Mareeba Shire Council Local Government Infrastructure Plan	March 2017	MSC



# **Schedule 3 Local Government Infrastructure Plan Mapping and Tables**

## SC3.1 Planning assumption tables

Table SC3. 1 Existing and Projected Populations

	Existing and projected population							
PIA Projection Area	2016	2021	2026	2031				
CHILLAGOE	188	195	203	212				
DIMBULAH	372	386	402	419				
KURANDA*	1,906	1,978	2,062	2,146				
MAREEBA**	8,902	9,241	9,631	10,022				
Total PIA	11,368	11,801	12,299	12,798				
Total outside PIA	10,189	10,804	11,263	11,724				
Total for area of Planning Scheme	21,557	22,605	23,562	24,522				



Table SC3. 2 Existing and Projected Employees

PIA Postorfor Asso	LGIP Employment	Existing an	d projected pe projection a	rsons in emplo irea (persons)	yment by PIA
PIA Projection Area	Projection Area Category		2021	2026	2031 / Ultimate
	Retail	12	12	13	13
	Industry and Construction	-	-	-	-
CHILLAGOE	Office	9	10	10	10
	Community	15	15	16	16
	Rural, Mining and Other*	22	23	24	25
	Retail	20	21	22	23
	Industry and Construction	19	20	21	21
DIMBULAH	Office	4	4	4	5
	Community	48	50	52	54
	Rural, Mining and Other*	36	37	39	41
	Retail	196	203	212	221
	Industry and Construction	162	168	175	182
KURANDA	Office	141	147	153	159
	Community	336	348	363	378
	Rural, Mining and Other*	98	102	106	110
	Retail	894	928	967	1,007
	Industry and Construction	762	791	825	858
MAREEBA	Office	345	358	373	389
	Community	1,312	1,361	1,419	1,477
	Rural, Mining and Other*	1,031	1,070	1,115	1,160
Total PIA		5,462	5,669	5,909	6,149



Table SC3.3a Planned density and demand generation rate for a trunk infrastructure network

Column 1 Area	Column 2 LGIP	Column 3 Planned dei	nsity	Column 4 Demand gene	eration rate f	or a trunk infr	astructure netw	ork
classification	development type	Non- residential plot ratio	Residential density (dwellings/ dev ha)	Water supply network (EP/dev ha)	Sewerage network (EP/dev ha)	Transport network (vpd/dev ha)	Parks and land for community facilities network (ha/1000 persons)	Stormwater network (imp ha/dev ha)
Residential de	velopment							
Rural Residential	4000 m <sup>2</sup> Precinct	N/A	2.1	4.7		18.9		
Rural Residential	1 ha Precinct	N/A	1.0	2.1	N/A	9.45	N/A	No Worsening
Rural Residential	2 ha Precinct	N/A	0.5	1.05		4.75		
Emerging Community		N/A	7.5	Demand Ra			sity residential (se Structure Plan	ewered) or in
Low density residential	All Sewered Precincts	N/A	7.5	15.75	15.75	71	15.75	0.5
Low density residential	All Unsewered Precincts	N/A	6.0	15.75	N/A	71	15.75	0.5
Medium density residential	All Sewered Precincts	N/A	22	46.2	46.2	82	46.2	0.5
		Non-re	sidential devel	opment and m	ixed develop	ment <sup>2</sup>		
Centre*	All Precincts	0.6240	80	277	277	624	N/A	0.9
Industry	Trades & Services	0.5200	N/A	47	47	260	N/A	0.8
Industry	General	0.5200	N/A	47	47	260	N/A	0.8
Industry	Heavy	0.5200	N/A	47	47	260	N/A	0.8
Community Facilities	Community Activities	0.4500	N/A	31.7	31.7	180	N/A	No Worsening
Recreation & Open Space	Sport & Recreation Activities	0.1000	N/A	N/A	N/A	N/A	N/A	No Worsening
Conservation	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No Worsening

Note—1. Error! Reference source not found. Mixed development is development that includes residential development and non-residential development.



<sup>\*</sup> Demand determined for non residential activities within the centre zone. Use of this zone for residential uses at the maximum allowable density will result in reduced demands for infrastructure.

Table SC3.3b Demand Generation Rates for Reconfiguring of a Lot and Material Change of Use Applications, or carrying out Building Work

Planning scheme area identification & land use			Assumed demand generation rates					
		Water supply units of demand	Sewerage units of demand	Transport units of demand	Stormwater units of demand	Public parks and land for community facilities units of demand		
Use	Zone	Planning scheme use type	Use intensity	Demand Ratio	Demand Ratio	Trips	Impervious area / ha	Demand Ratio
Residential uses	Low density residential	Detached house and lot	Detached house and lot	1.0	1.0	9	5000m <sup>2</sup>	1.0
	Medium	1 bed unit	1 bed unit	0.5	0.6	5	6000m <sup>2</sup>	0.5
	density residential	2 bed unit	2 bed unit	0.7	0.8	7	6000m <sup>2</sup>	0.7
	residential	3 bed or more	3 bed or more	1.0	1.0	9	6000m <sup>2</sup>	1.0
		1 bed unit	1 bed unit	0.5	0.6	5	6000m <sup>2</sup>	0.5
		2 bed unit	2 bed unit	0.7	0.8	7	6000m <sup>2</sup>	0.7
		3 bed or more	3 bed or more	1.0	1.0	9	6000m <sup>2</sup>	1.0
		1 bed unit	1 bed unit	0.5	0.6	5	6000m <sup>2</sup>	0.5
		2 bed unit	2 bed unit	0.7	0.8	7	6000m <sup>2</sup>	0.7
		3 bed or more	3 bed or more	1.0	1.0	9	6000m <sup>2</sup>	1.0
Industrial uses	100m² use ar	ea		0.03	0.03	5	8000m <sup>2</sup>	0.03
Retail uses	100m² use ar	ea		1.0	1.0	10	8500m <sup>2</sup>	1.0
Commercial uses	100m² use ar	ea		1.0	1.0	10	9500m²	1.0



Table SC3. 4 Existing and projected residential dwellings

		Existing and projected residential dwellings				
Projection area	LGIP development	2016	2021	2026	2031	PIA Ultimate Development (within Locality in brackets)
	Single Dwelling	79	89	99	109	
a	Multiple Dwelling					117
Chillagoe	Other	20	20	19	19	(152)
	Total	99	109	118	128	
	Single Dwelling	196	203	209	216	
B: 1.11	Multiple Dwelling	6	7	8	9	328
Dimbulah	Other	30	30	29	29	(358)
	Total	232	239	247	254	
	Single Dwelling	751	787	822	858	
	Multiple Dwelling	18	39	59	80	350
Kuranda	Other	128	130	132	134	(1345)
	Total	897	955	1,014	1,072	
	Single Dwelling	3,238	3,595	3,952	4,309	
	Multiple Dwelling	386	278	170	62	4,805
Mareeba	Other	70	72	73	75	(6,593)
	Total	3,694	3,945	4,195	4,446	
	Single Dwelling	4,245	5,049	5,441	5,862	
Outside priority	Multiple Dwelling	-	-	-	-	
infrastructure area (total)	Other	-	-	-	-	N/A
	Total	4,245	5,049	5,441	5,862	
	Single Dwelling	8,509	9,723	10,523	11,354	
M 1 01:	Multiple Dwelling	410	324	237	151	
Mareeba Shire	Other	248	252	253	257	N/A
	Total	9,167	10,297	11,015	11,762	



Table SC3. 5 Existing and projected non-residential floor space

PIA controller cons	LGIP Employment	Existing and	Existing and projected employment GFA by PIA Locality (m²)				
PIA projection area	Category	2016	2021	2026	2031 / Ultimate		
	Retail	237	246	256	268		
	Industry and Construction	-	-	-	-		
CHILLAGOE	Office	231	239	249	260		
	Community	725	752	783	818		
	Total	1,194	1,238	1,289	1,346		
	Retail	400	415	432	451		
	Industry and Construction	2,091	2,170	2,259	2,355		
DIMBULAH	Office	100	104	108	113		
	Community	2,401	2,491	2,595	2,704		
	Total	4,992	5,180	5,395	5,623		
	Retail	3,921	4,069	4,242	4,415		
	Industry and Construction	17,786	18,458	19,242	20,025		
KURANDA	Office	3,537	3,671	3,826	3,982		
	Community	16,775	17,409	18,148	18,888		
	Total	42,019	43,607	45,458	47,310		
	Retail	17,884	18,565	19,349	20,134		
MAREEBA	Industry and Construction	83,867	87,061	90,735	94,419		
	Office	8,628	8,957	9,335	9,714		
	Community	65,575	68,073	70,945	73,826		
	Total	175,955	182,656	190,365	198,093		
Total PIA		224,160	232,680	242,506	252,372		

Table SC3. 6 Existing and projected demand for the water supply network

	Water supply network demand (EP)							
PIA projection area/ Service Catchment	2016	2021	2026	2031 / Ultimate				
CHILLAGOE	193	201	209	217				
DIMBULAH	379	393	409	426				
KURANDA*	1,991	2,066	2,154	2,242				
MAREEBA**	9,212	9,562	9,967	10,371				
Total PIA	13,790	14,242	14,764	15,287				



Table SC3. 7 Existing and projected demand for the sewerage network

	Sewerage network demand (EP)							
PIA projection area/ Service Catchment	2016	2021	2026	2031				
CHILLAGOE	193	201	209	217				
DIMBULAH	379	393	409	426				
KURANDA*	1,991	2,066	2,154	2,242				
MAREEBA**	9,212	9,562	9,967	10,371				

Table SC3. 8 Existing and Projected Demand for the Stormwater Network

Column 1 Service	Column 2 Existing and projected stormwater network demand (Impervious Hectare)  2016 2021 2026 2031						
Catchment							
Chillagoe	6.64	7.18	7.85	8.58			
Dimbulah	15.75	14.29	15.63	17.17			
Kuranda	55.03	63.77	68.67	73.89			
Mareeba	305.82	354.88	382.08	411.12			

Table SC3. 9 Existing and Projected Demand for the Transport Network

Locality	2016	2021	2026	2031
Chillagoe	967	1,042	1,135	1,238
Dimbulah	2,348	2,159	2,350	2,568
Kuranda	9,452	10,709	11,459	12,253
Mareeba	42,849	48,690	52,120	55,758

Table SC3. 10 Existing and Projected demand for the community facilities network

	Community Facilities Demand (EP)					
PIA projection area/ Service Catchment	2016 2021 2026 2031					
Chillagoe	188	195	203	212		
Dimbulah	372	386	402	419		
Kuranda	1,906	1,978	2,062	2,146		
Mareeba	8,902	9,241	9,631	10,022		
Total PIA	11,368	11,801	12,299	12,798		



## SC3.2 Schedules of works

Table SC3. 11 Water Supply network schedule of works

Map reference	Trunk infrastructure	Estimated timing	Establishment cost
WAT - 01	Emerald End Road and Seary Road, Mareeba. Metered Water Standpipe Access Upgrade.	<mark>2019</mark>	<b>\$100,000</b>
WAT - 02	Design and install clear water pump set, Dimbulah Water Treatment Plant. Subject to options analysis.	2019	\$60,000
WAT - 03	Chillagoe Water Treatment Plant. Install generator.	<mark>2019</mark>	\$50,000
WAT - 04	Rankin Street, Mareeba. Water Main Replacement (Uncommitted: subject to obtaining grant funding).	2019	\$1,250,000
WAT - 05	Replace existing reservoirs in Chillagoe with new 500KL prefabricated steel reservoir (Uncommitted: subject to obtaining grant funding).	2019	\$800,000
WAT - 06	Mareeba Water Treatment Plant. Replace Alum Dosing System with Aluminium Chloride Hydrate (ACH) flocculant.	2019	\$80,000
WAT - 07	Mareeba Reticulation Depot Shed Replacement.	2019	\$100,000
WAT - 08	Upgrade Mareeba town water booster station, including water main upgrades.	2020	\$3,900,000
WAT - 09	New Mareeba Spare Transfer Holding Lagoon Pump.	2020	\$12,000
WAT - 10	Kuranda Water Treatment Plant new 500KL storage tank.	2020	\$820,000
WAT - 11	Upgrade Mareeba Water Treatment Plant High Lift Pumps.	2020	\$1,050,000
WAT - 12	Mareeba WTP Backwash Water Treatment Project	2020	\$170,000
WAT - 13	Mareeba Backwash Recycle Water Pump new spare.	2020	\$12,000
WAT - 14	Replace Kuranda Water Treatment Plant Generator.	2020	\$180,000
WAT - 15	Kuranda Water Treatment Plant Clear Water Pump Station Staged Pumps Renewal	2020	\$210,000



Map reference	Trunk infrastructure	Estimated timing	Establishment cost
WAT - 16	Mareeba WTP Clearwater Reservoir Roof Refurbishment	2020	\$600,000
WAT - 17	Chillagoe Town bore 2 pump station renewal	2020	\$25,000
WAT - 18	Chillagoe Town bore 1 pump station renewal	2020	\$25,000
WAT - 21	Wylandra Water Booster Pump Station/Extra Variable Speed Drive.	2021	\$60,000
WAT - 22	Mareeba WTP Security Fence.	2021	\$40,000
WAT - 19	Mareeba Water Treatment Plant - Construct concrete flow meter pits (Upgrade).	2021	\$30,000
WAT - 20	Third Kuranda Myola Road Reservoir.	2022	\$1,200,000
		Total	\$12,792,000.00

Table SC3. 12 Sewerage network schedule of works

Map reference	Trunk infrastructure	Estimated timing	Establishment cost
SEW - 01	Upgrade Barang St Pump Station (Subject to grant funding)	2019	\$900,000.00
SEW - 02	Kuranda Pump Stations, 2 New standby generators (Honey House and Myola 4) (Upgrade)	2019	\$80,000.00
SEW - 03	Mareeba Pump Stations, 2 New standby generators (Palm Close and Ceola Drive)	2019	\$80,000.00
SEW - 04	Kuranda Pump Stations, New standby generators * 2 (Upgrade) (Kullaroo, Arara)	2020	\$40,000.00
SEW - 05	Mareeba Pump Stations, New standby generators * 2 (Industrial, Yarrabee)	2020	\$40,000.00
SEW - 06	Kuranda Pump Stations, New standby generators * 2 (Upgrade) (Thoree, Myola 3)	2021	\$40,000.00
SEW - 07	Mareeba Pump Stations, New standby generators * 2 (Amaroo, Godwin)	2021	\$40,000.00
SEW - 08	Mareeba Pump Stations, New standby generators * 2 (The Edge, Prestige Gdns)	2022	\$40,000.00



Map reference	Trunk infrastructure	Estimated timing	Establishment cost
SEW - 09	Kuranda Pump Stations, New standby generators * 1 (Upgrade) (Railway, Barron Falls Rd.)	2023	\$40,000.00
SEW - 10	Mareeba Pump Stations, New standby generators * 2 (River Gdns, Lifestyle Resort.)	2023	\$40,000.00
		Total	\$1,380,000.00

Table SC3. 13 Stormwater Network Schedule of Works

Map Ref	Trunk infrastructure	Estimated timing	Establishment cost
SW-01	Vaughan Street, Mareeba. Drainage Improvement.	2019	\$220,000.00
SW-04	Atherton Street, Mareeba. Drainage Improvement.	2022	\$330,000.00
SW-05	Tower Street, Chillagoe. Drainage improvement.	2024	\$250,000.00
SW-06	Tilse St, Mareeba	2020	\$700,000
SW-08	CBD drainage, Mareeba	2022-2026	\$1,000,000
SW-09	Hoolahan Dr (Emerald End Rd), Mareeba	2027	\$250,000
SW-10	Amaroo drainage, Mareeba	2020	\$600,000
SW-13	Ceola Estate drainage, Mareeba	2020	\$600,000
SW-16	Costin St (Basalt Gully) culvert	2024	\$400,000
SW-17	Reynolds St (Basalt Gully) culvert	2024	\$400,000
SW-18	Rankin St (Basalt Gully) culvert	2023	\$400,000
SW-19	Keeble St (Basalt Gully) culvert	2023	\$400,000
		TOTAL	\$5,550,000.00



Table SC3.14 Transport network schedule of works

Ref	Trunk infrastructure	Estimated timing	Establishment cost
TPT-01	Rob Veivers Drive, Kuranda. Rehabilitate Pavement and Widen.	2017	\$490,000.00
TPT-02	Thongon Street, Kuranda. Replace K&C and construct parking indent along frontage of Foodworks.	2017	\$60,000.00
TPT-03	Barang Street/Rob Veivers Drive, Kuranda. Upgrade of intersection to include Channelised right turn pocket.	2026	\$90,000.00
TPT-04	Chewko Road, Mareeba. Widen and Seal to 8.5m.	2022	\$280,000.00
TPT-08	Bowers Street, Mareeba. Rehabilitate pavement both lanes Asphalt overlay.	2020	\$570,000.00
TPT-10	Moorong Street, Kuranda. Reconfigure Car Park.	2020	\$50,000.00
TPT-11	Barang Street, Kuranda. Widen and upgrade to collector street standard.	2020	\$390,000.00
TPT-13	Raleigh Street, Dimbulah. Carpark Improvement	2020	\$165,000.00
TPT-14	Black Mountain Road. Widen seal to 6.5m. Ch. 0.5 - 1.1.	2020	\$225,000
TPT-15	McGrath Road. Rehabilitate Pavement and Reseal to m. Ch. 0.014 - 0.835.	2021	\$520,000
TPT-16	Chewko Road. Rehabilitate Pavement, widen and seal to 8.5m. Ch. 0.4 - 1.	2021	\$300,000
TPT-17	Herberton Street/Constance Street intersection upgrade.	2027	\$1,800,000
TPT-18	McIver Road. Construct new kerb and channel. Ch. 0 - 0.22.	2028	\$150,000
TPT-19	Myola Road. Intersection of Kuranda Heights Road onto Myola Road (near Water tank). Ch. 0.16 - 0.18.	2028	\$60,000
TPT-20	Rankin Street/Walsh Street. Rankin Street/Walsh Street Intersection Upgrade.	2020	\$1,200,000
TPT-21	Walsh Street. Walsh Street / Coles and Target Accesses upgrade.	2020	\$400,000



Ref	Trunk infrastructure	Estimated timing	Establishment cost
TPT-22	Ceola Drive/Anzac Avenue intersection	2021	\$1,000,000
TPT-23	Barron Falls Road. Rehabilitate, widen to 6.5m seal width and intersection upgrade with Mason Road to 6.5m. Ch. 1.2 - 2.6.	2023	\$400,000
TPT-24	Mason Road. Reprofile road due to drainage issues. Ch. 0.2 - 0.6.	2021	\$70,000
TPT-25	Hastie Road Upgrade, Mareeba	2020	\$700,000
TPT-26	Railway Avenue Car Park, Mareeba	2019	\$280,000
TPT-27	McIver Road – Ray Road Upgrade, Mareeba	2023	\$450,000
TPT-28	Malone Road widening, Mareeba	2022	\$800,000
TPT-29	Hastie Rd – Emerald End Rd intersection upgrade	2025	\$450,000
TPT-30	Railway Avenue Car Park Stage 2	2026	\$250,000
	TOTAL		\$11,150,000



Table SC3. 15 Community Facilities Schedule of Works

	Column 1 Trunk infrastructure	Column 2 Estimated timing	Column 3 Establishment cost
CF-01	Bicentennial Lakes, Mareeba. Vegetation Management Program.	2018	\$250,000
CF-02	Mary Andrews Carpark, Mareeba. Seal carpark with asphalt.	2018	\$120,000
CF-03	Davies Park and Firth Park, Mareeba. Aerating and Top Dressing.	2019	\$52,000
CF-04	Centenary Park, Mareeba. Renew playground equipment.	2019	\$8,000
CF-05	Anzac Park, Mareeba. Renew irrigation.	2018	\$8,000
CF-06	Kuranda CBD. Renew irrigation and planting.	2018	\$40,000
CF-07	Railway Park, Dimbulah. Renew soft fall.	2018	\$60,000
CF-08	Sunbird Park, Mareeba. Irrigation Upgrade - Stage Two.	2020	\$20,000
CF-09	Sunbird Park, Mareeba. Replace soft fall around exercise equipment - Stage Three.	2020	\$20,000
CF-10	Seed funding for Bi-Centennial Lakes, Mareeba priority project/s.	2020	\$100,000
CF-11	Wetherby Park, Mt Molloy. Renew soft fall and replace rope spider climbing equipment.	2018	\$40,000
CF-12	Kuranda Esplanade. Renew concrete furniture.	2018	\$7,000
CF-14	Bicentennial Lakes, Mareeba. Install trash rack & fencing."	2019	\$12,000
CF-15	Gregory Terrace Park, Kuranda. Renew soft fall.	2021	\$30,000
CF-16	Bicentennial Lakes, Mareeba. Water Reconfiguration Program.	2022	\$1,050,000
CF-17	Bartley Park, Kuranda. New park seating and picnic facilities.	2023	\$12,000
CF-18	Centenary Park, Mareeba. Replace existing half sail & install shade sail on wheelchair swing.	2023	\$12,000
	TOTAL		\$1,961,000



















































































