



Griffith City Council

Asset Management Plan
2022 - 2032



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This SAMP template combines the requirements of the Strategic Asset Management Plan and the portfolio AM Plan(s) as per ISO 55002.

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Contents

- EXECUTIVE SUMMARY1**
- Context 1
- Current situation1
- What does it Cost?1
- What we will do1
- What we have deferred1
- Managing the Risks1
- Confidence Levels1
- The Next Steps1

- 2. ASSET MANAGEMENT STRATEGY3**
- 2.1 Asset Management System3
- 2.2 What Assets do we have?7
- 2.3 Our Assets and their management8
- 2.4 Where do we want to be?14
- 2.5 Asset Management Vision18
- 2.6. How will we get there?19
- 2.7 Asset Management Improvement Plan20
- 2.8. Consequences if actions are not completed20

- 3. LEVELS OF SERVICE20**
- 3.1 Consumer Research and Expectations20
- 3.2 Organisational Objectives20
- 3.3 Legislative Requirements20
- 3.4 Levels of Service21

- 4. FUTURE DEMAND23**
- 4.1 Demand Drivers23
- 4.2 Demand Forecast23
- 4.3 Demand Impact on Assets23
- 4.4 Demand Management Plan24
- 4.5 Asset Programs to meet Demand25

- 5. LIFECYCLE MANAGEMENT PLAN26**
- 5.1 Background Data26
- 5.2 Routine Operation and Maintenance Plan26

5.3	Renewal/Replacement Plan.....	27
5.4	Creation/Acquisition/Upgrade Plan.....	28
5.5	Disposal Plan.....	30
5.6	Service Consequences and Risks.....	30
6.	RISK MANAGEMENT PLANNING	31
6.1	Critical Assets.....	31
6.2	Risk Assessment.....	32
7.	FINANCIAL SUMMARY	34
7.1	Financial Indicators and Projections	34
7.2	Funding Strategy.....	34
7.3	Valuation Forecasts	35
7.4	Key Assumptions made in Financial Forecasts	39
7.5	Forecast Reliability and Confidence.....	40
8.	PLAN IMPROVEMENT AND MONITORING	41
8.1	Improvement Plan	41
8.2	Monitoring and Review Procedures	41
8.3	Performance Measures	41
9.	REFERENCES	42
10.	APPENDICES	43
	Appendix A National State of the Asset report cards	43
	Appendix B Capital Expenditure links to Delivery Program	51
	Appendix C Asset Management Maturity Assessment	54
	Appendix D Projected Operation and Maintenance Expenditure	61
	Appendix E Projected Capital Renewal/Replacement Program.....	62
	Appendix F Projected Acquisition Works Program	67
	Appendix G Deferred Initiatives and Capital Works proposals	71

EXECUTIVE SUMMARY

Context

Griffith City Council is responsible for the acquisition, operation, maintenance, renewal and disposal of an extensive range of physical assets with a replacement value of \$934,419,000.

These assets include land, buildings, parks, recreation areas, roads, footpaths, drainage systems, water and sewerage networks and treatment systems and associated operating assets and provide service essential to our community's quality of life.

This Strategic Asset Management Plan (SAMP) considers the objectives of our Community Strategic Plan (CSP) and Delivery Program.

The plan summarises activities and expenditure projections to achieve the asset management objectives for the infrastructure assets that Council is responsible for.

Current situation

Council's aim is to maintain the 'core' maturity for asset management activities and continue maturity improvement where the benefits exceed the costs. Improvement tasks with costs and target dates have been identified and documented in Table 8.2.

What does it Cost?

Operating Outlays (excluding depreciation)

The projected operating outlays necessary to provide the services covered by this SAMP includes operation and maintenance of existing assets over the 10 year planning period is \$7,500,000 on average per year.

Capital Outlays

The projected required capital outlays including renewal/replacement and upgrade of existing assets and acquisition of new assets over the 10 year planning period is \$10,700,000 on average per year.

We have balanced the projected expenditures in the SAMP with financial outlays in the Long-Term Financial Plan (LTFP) involving:

- community consultation on desirable and affordable levels of service

- balancing service performance, risk and cost in a trade-off of projects and initiatives
- considering the impact of trade-offs and accepting the service and risk consequences
- borrowings to finance high priority capital renewal and upgrade/new projects.

What we will do

Our aim is to provide the services needed by the community in a financial sustainable manner. Achieving financial sustainability requires balancing service levels and performance with cost and risk.

It may not be possible to meet all expectations for services within current financial resources. We will continue to engage with our community to ensure that needed services are provided at appropriate levels of service at an affordable cost while managing risks.

What we have deferred

We do **not** have enough funding to provide all services at the desired service levels or provide new services. Major initiatives and projects that are deferred for the next 10 years under long-term financial plan funding levels are detailed in Appendix G Deferred Initiatives and Capital Works proposals.

Managing the Risks

There are risks associated with providing services and not being able to complete all identified initiatives and projects. We have identified major risks as disruptions to the water and sewer network assets.

Council will endeavour to manage these risks within available funding by monitoring asset condition, replacing and renewing assets before they reach the end of their service life and increasing capacity of water and sewer infrastructure to cope with expected changes in demand.

Confidence Levels

This SAMP is based on Medium level of confidence information.

The Next Steps

The actions resulting from this asset management plan are:

- implement the improvement plan in Section 8.2
- improve consultation methods to increase awareness of service performance, risk and cost pressures we are facing
- investigate actions to extend the life of assets without affecting performance and risk
- review asset renewal and replacement options to reduce service delivery lifecycle costs.

2. ASSET MANAGEMENT STRATEGY

2.1 Asset Management System

Asset management enables an organisation to realise value from assets in the achievement of organisational objectives, while balancing financial, environmental and social costs, risk, quality of service and performance related to assets.¹

An asset management system is a set of interrelated and interacting elements of an organisation to establish the asset management policy and asset management objectives, and the processes, needed to achieve those objectives. An asset management system is more than 'management information system' software. The asset management system provides a means for:

- coordinating contributions from and interactions between functional units within an organisation,² and
- consistent application of the asset management processes to achieve uniform outcomes and objectives.

The asset management system includes:

- The asset management policy
- The asset management objectives
- The strategic asset management plan
- The asset management plans, which are implemented in
 - operational planning and control
 - supporting activities
 - control activities
 - other relevant processes.³

The asset management system fits within the organisation's strategic planning and delivery process as shown in Figure 2.1.

¹ ISO, 2014, ISO 55000, Sec 2.2, p 2

² ISO, 2014, ISO 55000, Sec 2.5.1, p 5

³ ISO, 2014, ISO 55002, Sec 4.1.1, p 2.

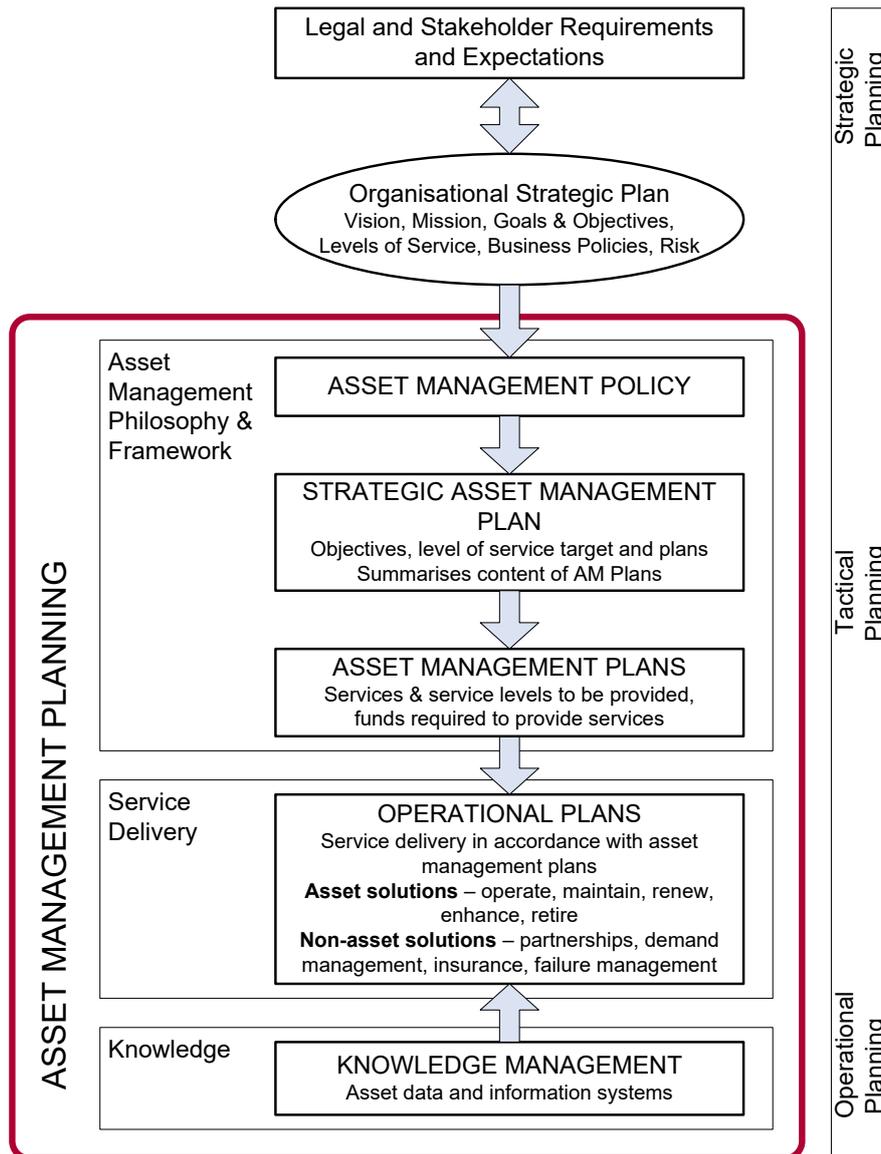


Figure 2.1: Strategic Asset Management Plan fit in Planning Process

2.1.1 Asset Management Policy

The asset management policy sets out the principles by which the organisation intends applying asset management to achieve its organisational objectives.⁴ Organisational objectives are the results the organisation plans to achieve, as documented in its Strategic Plan. Our adopted asset management policy is available from our web site <https://www.griffith.nsw.gov.au/council-policies>.

2.1.2 Asset Management Objectives

The asset management objectives developed in Section 2.4.3 provide the essential link between the organisational objectives and the asset management plan that describe how those objectives are going to be achieved. The asset management objectives transform the required outcomes (product or service) to be provided by the assets, into

⁴ ISO, 2014, ISO 55002, Sec 5.2, p 7.

activities typically described in the asset management plans. Asset management objectives should be specific, measurable, achievable, realistic and time bound (i.e. SMART objectives).⁵

2.1.3 Strategic Asset Management Plan

This strategic asset management plan documents the relationship between the organisational objectives set out in the Community Strategic Plan 2022-2032 and Delivery Program and the asset management (or service) objectives and define the strategic framework required to achieve the asset management objectives.⁶

The asset management objectives must be aligned with the organisation's strategic objectives set out in the CSP and Delivery Program.

This strategic asset management plan encompasses the following services:

- Administration and cultural and waste services
- Sports and recreational services
- Stormwater services
- Transport services
- Water services
- Sewerage services
- Waste services

The strategic asset management framework incorporates strategies to achieve the asset management objectives. The strategies are developed in 4 steps:

- What assets do we have?
- Our assets and their management
- Where do we want to be?
- How will we get there?⁷

2.1.4 Asset Management Plans

The asset management plan documents the activities to be implemented and resources to be applied to meet the asset management objectives. The strategic asset management plan summarises the key issues for the following asset classes

- Buildings Asset Management
- Parks and Gardens Asset Management
- Stormwater Asset Management
- Transport Asset Management
- Water Asset Management
- Sewer Asset Management

⁵ ISO, 2014, ISO 55002, Sec 6.2.1, p 9.

⁶ ISO, 2014, ISO 55002, Sec 4.1.1, p 2.

⁷ LGPMC, 2009, Framework 2, Sec 4.2, p 4.

- The Strategic Asset Management Plan is part of the organisation’s strategic and annual planning and reporting cycle as shown in Table 2.1.

Table 2.1: Strategic Asset Management Plan within the Planning and Reporting Cycle

	Plan	Planning Cycle	Performance Reporting	Reporting Method
Community Planning	20 year Community Plan	4 – 10 years	Community Objectives Indicators	Annual Report
Strategic Planning	10 year Strategic Plan	4 years	Organisational Objectives	Annual Report
	10 year Long-Term Financial Plan		Financial Indicators	
	Asset Management Strategy and plans		Asset Management Objectives	
Operational Planning	4 year Operational Plan	4 years	Operational Objectives incorporated into Annual Plan	Annual Report
Annual Planning & Budget	Annual Plan & Budget	Annual	Annual Objectives Budget Objectives	Annual Report Monthly Reports to Council
	Departmental/Directorate Work Plans		Work Plan Objectives	Monthly Reports to Council
	Individual Work Plans		Work Plan Objectives	Performance Reviews

2.2 What Assets do we have?

We manage a lot of assets to provide services to our community. The assets provide the foundation for the community to carry out its everyday activities, while contributing to overall quality of life.

Table 2.2: Assets covered by this Plan

Asset Plan	Asset Class/Category	Quantity	Description
Buildings and Other Structures	Buildings	256	Administrative, community and works related buildings
Buildings and Other Structures	Other structures	346	Sheds, fences, shade structures etc
Parks and Gardens	Open Space/Recreational	1661	Parks and gardens assets including playgrounds, outdoor furniture etc
Transport	Bridges	11	Road Bridges
Transport	Footpaths	876	Footpaths, Cycleways, Footbridges totalling over 62km
Transport	Other road assets	2087	Kerb and gutter, car parks etc
Transport	Sealed Roads	1465	Sealed local roads, total length 506km
Transport	Unsealed Roads	607	Unsealed local roads, total length 726km
Stormwater Drainage	Stormwater drainage	6953	Stormwater drainage pits, pipes and open channels and detention basins
Sewer	Sewerage network	14961	Water reclamation plants, sewer pump stations and sewer mains totalling over 290km
Water	Water supply network	11587	Water network consisting of water treatment plants, pump stations water mains totalling over 600km

2.3 Our Assets and their management

2.3.1 Asset Values

The infrastructure assets covered by this strategic asset management plan are shown in Table 2.3.1. These assets are used to provide services to the community.

Table 2.3.1: Assets covered by this Plan

Asset Plan	Asset Class/Category	Gross Replacement Cost	Carrying Value	Annual Depreciation
Buildings and Other Structures	Buildings	92,487,000	72,339,000	1,540,000
Buildings and Other Structures	Other structures	21,203,000	14,439,000	666,000
Parks and Gardens	Open Space/ Recreational	20,447,000	16,588,000	378,000
Transport	Bridges	5,570,000	4,142,000	36,000
Transport	Footpaths	15,868,000	9,926,000	309,000
Transport	Other road assets	61,448,000	43,758,000	810,000
Transport	Sealed Roads	154,054,000	139,304,000	1,739,000
Transport	Unsealed Roads	112,760,000	104,353,000	1,799,000
Stormwater Drainage	Stormwater drainage	168,357,000	113,064,000	2,204,000
Sewer	Sewerage network	81,195,000	59,310,000	901,000
Water	Water supply network	200,756,000	147,511,000	2,214,000
	Total	934,145,000	724,734,000	12,596,000

Section 2.3 demonstrates the significance of Griffith City Council's investment in infrastructure. An objective for this SAMP is to demonstrate how value is to be obtained from the \$934 million investments in providing services to the community. The investment in infrastructure is being consumed at 12 million per annum.

2.3.2 Asset Condition, Function and Capacity

Our State of the Assets are reported via the National State of the Assets reporting that monitors the performance of assets under three community service indicators:

- condition/quality – how good is the service?
- function - does it meet users’ needs?
- capacity/utilisation – is the service usage appropriate to capacity?

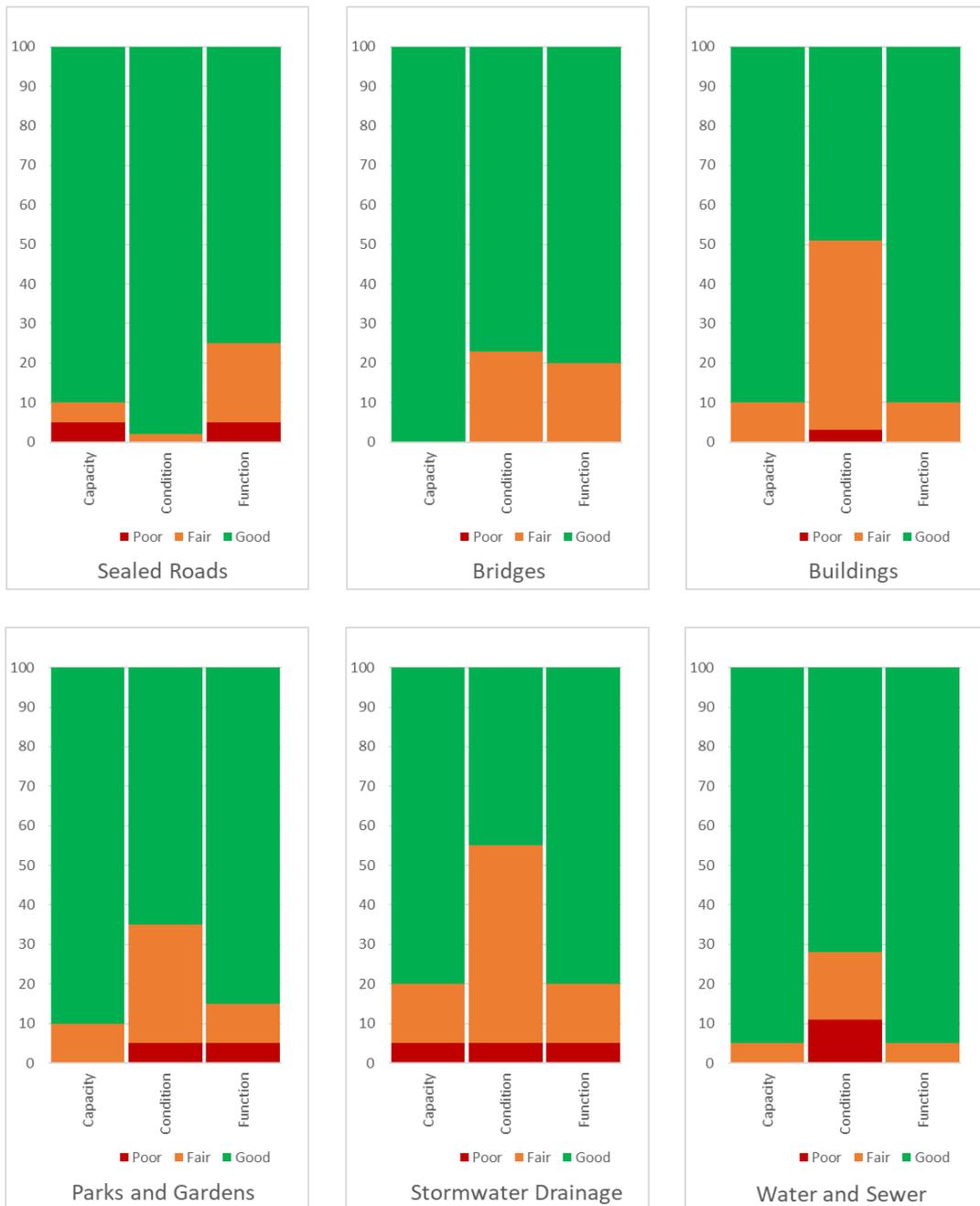


Figure 2.3.2 State of the Assets indicators by Asset Class

Refer to Appendix A for National State of the Assets report cards for each asset service area.

2.3.3 Lifecycle Costs

Lifecycle costs (or whole of life costs) are the average annual costs that are required to sustain the service levels over the longest asset life. Lifecycle costs include operation and maintenance expenditures plus asset consumption (depreciation). Life cycle costs can be compared to lifecycle expenditure to give a comparison of current expenditures to lifecycle costs of services.

Lifecycle expenditures include operation and maintenance expenditures (excluding depreciation) plus capital renewal expenditure. The capital renewal component of lifecycle expenditure can vary depending on the timing of asset renewals.

The lifecycle costs and expenditures averaged over the 10 year planning period are shown in Table 2.3.3.

Table 2.3.3: Asset Lifecycle Costs

Asset Plan	Asset Class/Category	Lifecycle Cost / Year (Opex + Depreciation)	Lifecycle Expenditure/ Year (Opex + Capex)	Lifecycle Expenditure Indicator
Buildings and Other Structures	Buildings	2,020,000	2,266,700	112%
Buildings and Other Structures	Other structures	741,000	1,982,600	268%
Parks and Gardens	Open Space/ Recreational	503,000	3,323,700	661%
Transport	Bridges	37,000	1,000	3%
Transport	Footpaths	334,000	314,300	94%
Transport	Other road assets	885,000	225,000	25%
Transport	Sealed Roads	4,739,000	11,379,300	240%
Transport	Unsealed Roads	2,899,000	3,053,200	105%
Sewer	Sewerage network	1,601,000	1,968,600	123%
Stormwater Drainage	Stormwater drainage	2,314,000	1,001,800	43%
Water	Water supply network	3,714,000	4,023,200	108%
	Total	19,787,000	29,539,400	149%

Note: Capex includes the following major projects

Lake Wyangan Environmental Strategy	28,128,980
Bringagee Road Rehabilitation	34,300,000

Total lifecycle expenditure may reasonably be higher/lower than lifecycle costs in periods of above/below average asset renewal/replacement activity. The lifecycle indicator is a measure of estimated need over the long-term. It is dependent on the age profile of the assets, with older assets expected to have a higher LC indicator and newer

assets a lower LC indicator. Section 5.4 gives a more accurate indicator of renewal/replacement funding needs over the period of the SAMP.

2.3.4 Asset Management Indicators

An asset management objective is to provide the services that the community needs at the optimum lifecycle cost in a financially sustainable manner. Figure 2.3.4 shows the projected operation, maintenance, acquisition, renewal expenditure balanced with financial outlays in the 10 year long-term financial plan. Some activities and/or projects have been deferred to subsequent years to allow further consideration of service level needs and financing options.

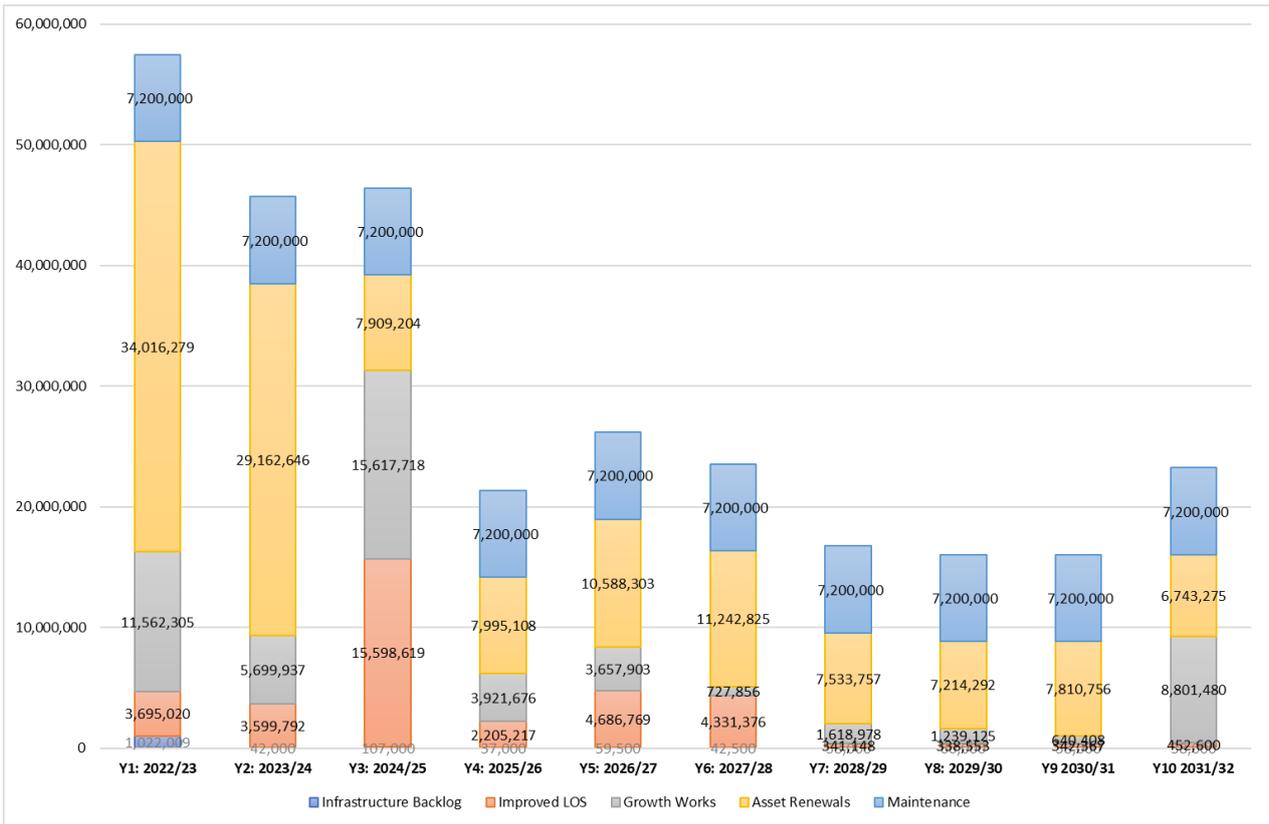


Figure 2.3.4: Projected Operating and Capital Expenditure

The purpose of this strategic asset management plan is to develop the strategies to achieve the asset management objectives through balancing of asset service performance, cost and risk.

2.3.5 Opportunities and Risks

There are risks associated with providing the service and not being able to complete all identified initiatives and projects. We have identified major risks as disruptions to the water and sewer network assets. We have identified opportunities relevant to the services included in this strategic asset management plan including:

- Improving data and systems to enable asset information to be captured and readily accessible
- Improved public engagement on Levels of Service

Relevant risks to the strategic asset management plan in the future include:

- Water and sewer network assets. These are considered more critical because of the impact of the service on health, wellbeing, and the environment. We will endeavour to manage these risks within available funding

by monitoring asset condition, replacing and renewing assets before they reach the end of their service life and increasing capacity of water and sewer infrastructure to cope with expected changes in demand.

- Aging long lived infrastructure including water and sewer reticulation networks and road pavements.

2.3.6 Asset and Financial Management Maturity

We have taken steps to improve our asset and financial management performance including assessing our asset management maturity against the 3 Frameworks of the Local Government Financial Sustainability Nationally Consistent Frameworks. Our target is to achieve 'core' maturity with the Frameworks. Figure 2.3.6 shows the current and target 'core' and 'advanced' maturity scores for the eleven elements of the National Frameworks for asset and financial management. A detailed assessment of Council's asset management maturity is provided in Appendix C

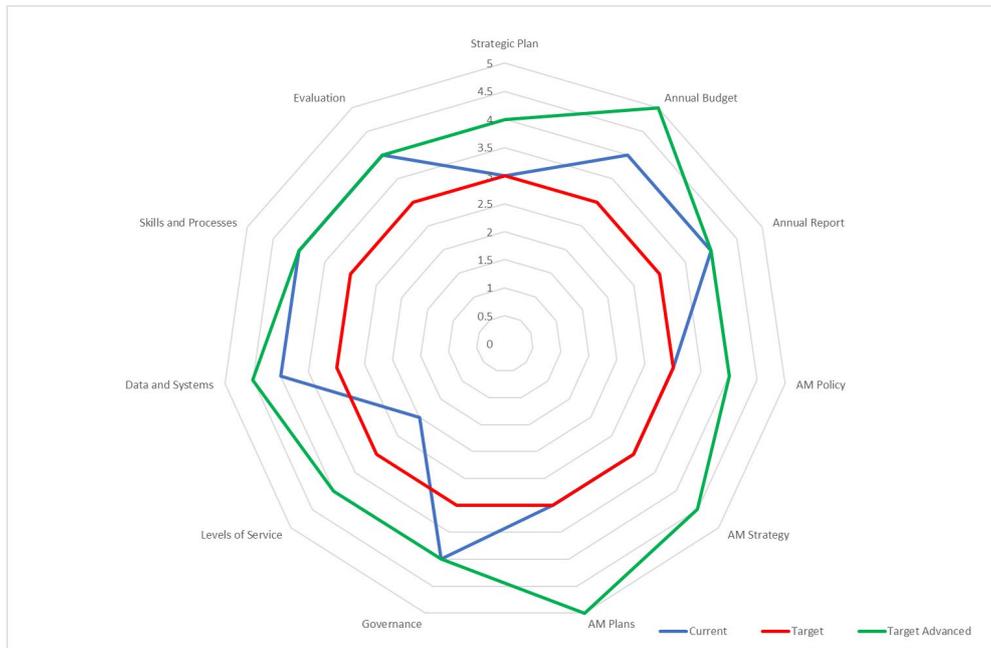


Figure 2.3.6: Maturity Assessment

Improvement in 'core' maturity is indicated by movement of the blue ◆ (current maturity) line to the red ■ ('core' maturity) and green line ▲ (desired or aspirational target maturity).

The element with lowest maturity score is Levels of service. Further engagement with community re target levels of service. This can be improved by including specific questions regarding level of service. The following engagement methods are identified in the Delivery Program:

- Community consultation sessions
- Community feedback forms
- Customer Request Management (CRM)
- Customer service satisfaction survey results.

2.3.7 Strategy Outlook

1. We can maintain current levels of service for the next ten years based on current knowledge and projections in AM Plans and Long-Term Financial Plan.

2. Funding of current infrastructure lifecycle costs is considered adequate for the next 10 years. Review of services, service levels and costs will need to be carried out over the next 10 years to identify and monitor changes in demand for services and affordability over the longer-term.
3. Our current asset and financial management maturity are below 'core' level and investment is needed to improve information management, lifecycle management, service management and accountability and strategic direction.

2.4 Where do we want to be?

2.4.1 Community Expectations

We have identified community expectations for service levels to be generally consistent with current levels of service. We engage with the community through community surveys and meetings. Community engagement is necessary to ensure that informed decisions are made on future levels of service and costs and that service and risk consequences are known and accepted by stakeholders.

2.4.2 Organisational Objectives

The organisation objectives are developed in the Community Strategic Plan under Vision, Values and Themes as shown below.

Vision

The community vision for Griffith, adopted in 2017, states that “Griffith is a thriving and innovative regional capital with a vibrant lifestyle and diverse economy. We embrace our community, heritage, culture.”

This vision will be achieved through the implementation of the strategies based on the four core themes of Griffith CSP 2022-2032. Those themes are:

- Leadership
- Loving our lifestyle
- Growing our city
- Valuing our environment

Values

Our values underpin the direction we will take to achieve our community’s vision. These same values will guide the way we work together as a community. On behalf of the community it represents, Council will be guided by the following principles:

The organisation values are shown in Table 2.4.2.

Table 2.4.2: Values and how they will be implemented

Value	How we will implement the value
Trust	We will ensure decisions are based on clear evidence and information. Through this process Council will be answerable to the communities and the people of Griffith.
Liveable	We will take care that our growth and development is ecologically sustainable to provide for future generations.
Equity	We will ensure that services delivered to our community are appropriate, relevant and accessible. We will strive to improve everyone’s ability to access new and existing services by developing ways to include those with a diverse range of needs.
Collaborative	We will actively involve the people of Griffith to contribute to planning the future of Griffith.
Communication	We will keep community members informed and seek their views on what we are doing.
Partnership	We will work together with the community and other partners in business and government to achieve our vision for Griffith.

These values were considered in the development of the Community Strategic Plan 2022-2032. Strategic aims and organisation objectives from the plan that impact on asset management activities are shown in Table 2.4.2.

Table 2.4.2: Strategic Priority Areas and Organisational Objectives linked to asset management activities

Community Strategic Plan Objective	Community Strategic Plan Strategies
2. Work together to achieve our goals	2.1 Develop and maintain partnerships with community, government and non-government agencies to benefit our community.
	2.2 Maximise opportunities to secure external funding for partnerships, projects and programs.
3. Plan and lead with good governance	3.1 Undertake Council activities within the integrated planning framework including policies, procedures and service standards.
4. Griffith is a great place to live	4.1 Make our community safer
	4.2 Encourage an inclusive community that celebrates social and cultural diversity.
	4.4 Provide a range of cultural facilities, programs and events.
	4.7 Provide a range of sporting and recreational facilities.
5. Grow our economy	5.6 Promote Griffith as a desirable visitor destination.
6. Provide and manage assets and services	6.1 Provide, renew, and maintain a range of quality infrastructure, assets, services, and facilities.
	6.2 Maintain and develop an effective transport network (airport, public roads, pathways, pedestrian access, and transport corridors) for Griffith and villages.
8. Use and manage our resources wisely	8.1 Manage Griffith's water resources responsibly.
	8.2 Reduce energy consumption and greenhouse gas emissions.

2.4.3 Asset Management Objectives

The asset management objectives (or strategies) translate the organisational objectives expressed in Community Strategic Plan into the required service outcomes to be provided by infrastructure assets and activities described in the asset management plans. High priority actions to achieve the asset management objectives with performance targets and timelines are shown in Tables 2.4.3 – 2.4.3.5 below. A full list of actions included in operational and capital works plans is provided in Appendix E: Projected Capital Renewal/Replacement Program and Appendix F: Projected Acquisition Works Program

Buildings and other structures

The objectives for Buildings and other structures include provision of safe and comfortable, fit for purpose facilities for the delivery of services. This includes administration buildings, works depots, educational and cultural facilities such as the library, art gallery and regional Theatre, day care centres, sporting facilities, and health and community services. Activities included in the long term financial plan that support these objectives are listed in Table 2.4.3.1 below.

Table 2.4.3.1: Asset Management Objectives – Buildings and other structures actions

Project	Y1: 2022/23	Y2: 2023/24	Y3: 2024/25	Y4: 2025/26	Y5: 2026/27	Y6: 2027/28	Y7: 2028/29	Y8: 2029/30	Y9: 2030/31	Y10: 2031/32
New Regional Art Gallery Development					7,500,000	7,500,000				
New Landfill Cell Construction		500,000			2,200,000					
Preparation of Quarry for new Landfill Development	500,000	250,000	250,000	250,000	250,000	250,000	250,000	100,000	100,000	400,000
New Cemetery - Stage 1 Rifle Range Road							750,000	750,000		
Depot Masterplan			590,000	330,000	345,130					

Parks and Gardens

The overall objective for Parks and Gardens assets is to improve the health and wellbeing of the community. This is achieved via the provision of street beautification to enhance the liveability of the local government area, and the provision of high quality passive recreation and sporting facilities enhance opportunities for a wide range of healthy lifestyle activities. Activities included in the long term financial plan that support these objectives are listed in Table 2.4.3.2 below.

Table 2.4.3.2: Asset Management Objectives – Parks and Gardens actions

Project	Y1: 2022/23	Y2: 2023/24	Y3: 2024/25	Y4: 2025/26	Y5: 2026/27	Y6: 2027/28	Y7: 2028/29	Y8: 2029/30	Y9: 2030/31	Y10: 2031/32
Irrigation System Installation - Replacements/Upgrades	28,256	29,244	30,268	31,327	32,424	33,559	34,733	35,949	37,207	38,509
Lake Wyangan Environmental Strategy	1,866,387	1,060,000	22,759,093	2,443,500	1,045,000					
Refurbish Sporting Ovals	42,320		45,330		48,560		52,020		55,725	
Upgrade Hermit's Cave			300,000							
Upgrade Toilet Blocks - General	105,350		120,000				140,000			

Transport

The objective of Transport assets is to provide facilities that safe and efficient transport and delivery of service within and through the local government area. This includes the provision of roads and bridges, Footpaths and Cycleways. Activities included in the long term financial plan that support these objectives are listed in Table 2.4.3.3 below.

Table 2.4.3.3: Asset Management Objectives – Transport actions

Project	Y1: 2022/23	Y2: 2023/24	Y3: 2024/25	Y4: 2025/26	Y5: 2026/27	Y6: 2027/28	Y7: 2028/29	Y8: 2029/30	Y9: 2030/31	Y10: 2031/32
Bringagee Road Rehabilitation	17,150,000	17,150,000								
Rural Unsealed - Specified Maintenance	1,332,563	1,379,202	1,427,474	1,477,436	1,529,146	1,582,666	1,582,666	1,638,060	1,638,060	1,695,392
Reseals Rural	849,613	982,850	1,017,250	1,052,853	1,089,703	1,127,843	1,127,843	1,167,317	1,167,317	1,208,174
New Road Construction-Clifton Bvd (Manera St to Rifle Range Rd)		5,280,000	3,720,000							
Road Rehabilitations			824,513	824,513	824,513	824,513	624,513	824,513	824,513	824,513

Water and Sewer

The objective of water assets is to provide reliable high quality drinking water and raw water. The objective of sewer assets is to provide sanitation services, ensuring waste water is carried from the source to the treatment plants where it is effectively treated. Activities included in the long term financial plan that support these objectives are listed in Table 2.4.3.4 below.

Table 2.4.3.4: Asset Management Objectives – Water and Sewer actions

Project	Y1: 2022/23	Y2: 2023/24	Y3: 2024/25	Y4: 2025/26	Y5: 2026/27	Y6: 2027/28	Y7: 2028/29	Y8: 2029/30	Y9: 2030/31	Y10: 2031/32
Upgrade Capacity Griffith W.T.P (15ML)		150,000								4,000,000
New 15 ML Storage (Scenic Hill)										4,000,000
Potable Trunk Mains Renewal	500,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Potable Reticulation Mains Renewals	300,000	300,000	100,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Electronic Water Meter Reading Program			1,500,000							

Stormwater drainage

The objective of stormwater assets is to minimise flooding and hazards associated with stormwater runoff. Activities included in the long term financial plan that support these objectives are listed in Table 2.4.3.5 below.

Table 2.4.3.5: Asset Management Objectives – Stormwater drainage actions

Project	Y1: 2022/23	Y2: 2023/24	Y3: 2024/25	Y4: 2025/26	Y5: 2026/27	Y6: 2027/28	Y7: 2028/29	Y8: 2029/30	Y9: 2030/31	Y10: 2031/32
Detention Basin Upgrades - Irrigation Systems	64,200									
Drainage Improvements/Replacements	70,540	73,010	75,566	78,211	80,948	83,782	86,714	89,749	92,890	96,141
Hanwood Stormwater Pump & Pipes - Stage 1A	2,800,000									
Yoogali flood levee	1,986,700									

Note: Development of Asset Management Objectives is a requirement of ISO 55001. The Asset Management Objectives shown in Tables 2.4.3.1 – 2.4.3.5 are those to be achieved to deliver the agreed level of service performance while managing risk and cost. The Asset Management Objectives are identified and developed in our Community Strategic Plan.

All actions and tasks to achieve the asset management objectives are included within operational and capital works plans discussed in Sections 5.3 – 5.6.

2.5 Asset Management Vision

To ensure the long-term financial sustainability of the organisation, it is essential to balance the community's expectations for services with their ability to pay for the infrastructure assets used to provide the services. Maintenance of service levels for infrastructure services requires appropriate investment over the whole of the asset life cycle. To assist in achieving this balance, we aspire to:

Develop and maintain asset management governance, skills, process, systems and data in order to provide the level of service the community need at present and in the future, in the most cost-effective and fit for purpose manner.

In line with the vision, the objectives of the strategic asset management plan are to:

- ensure that our infrastructure services are provided in an economically optimal way, with the appropriate level of service to residents, visitors and the environment determined by reference to our financial sustainability
- safeguard our assets including physical assets and employees by implementing appropriate asset management strategies and appropriate financial resources for those assets
- adopt the Long-Term Financial Plan as the basis for all service and budget funding decisions
- meet legislative requirements for all our operations
- ensure resources and operational capabilities are identified and responsibility for asset management is allocated
- ensure operational and service delivery risks are adequately managed
- continually improve our asset, risk and financial management and service delivery performance
- provide high level oversight of financial and asset management responsibilities through Audit Committee/CEO reporting to Council on development and implementation of the Strategic Asset Management Plan, Asset Management Plan(s) and Long-Term Financial Plan.

Strategies to achieve this position are outlined in Section 2.6.

2.6. How will we get there?

The strategic asset management plan proposes strategies to enable the organisational objectives and asset management policies to be achieved.

Table 2.6: Asset Management Strategies

No	Strategy	Desired Outcome
1	Incorporate Year 1 of long term financial plan revenue and expenditure projections into annual budgets.	Long term financial planning drives budget deliberations and the long term implications of all services are considered in annual budget deliberations.
2	Report our financial position at Fair Value in accordance with Australian Accounting Standards, financial sustainability and performance against organisational objectives in Annual Reports.	Financial sustainability information is available for Council and the community.
3	Develop and maintain a long term financial plan covering 10 years incorporating asset management plan expenditure projections with a sustainable funding position outcome.	Sustainable funding model to provide our services.
4	Develop and annually review asset management plans and strategic asset management plan covering at least 10 years for all major asset classes (80% of asset value).	Identification of services needed by the community and required funding to optimise 'whole of life' costs.
5	Review and update asset management plans, strategic asset management plan and long term financial plans after adoption of annual budgets. Communicate any consequence of funding decisions on service levels and service risks.	We and the community are aware of changes to service levels and costs arising from budget decisions.
6	Develop and maintain a risk register of operational and service delivery risks showing current risk levels, risk management treatments and report regularly to Council on current high level risks.	Risk management of operational and service delivery risks is an integral part of governance.
7	Ensure Council decisions are made from accurate and current information in asset registers, on service level performance and costs and 'whole of life' costs.	Improved decision making and greater value for money.
8	Report on our resources and operational capability to deliver the services needed by the community in the annual report.	Services delivery is matched to available resources and operational capabilities.
9	Ensure responsibilities for asset management are identified and incorporated into staff position descriptions.	Responsibility for asset management is defined.
10	Implement an improvement plan to realise 'core' maturity for the financial and asset management competencies within 2 years.	Improved financial and asset management capacity within the organisation.
11	Report six monthly to Council by Audit Committee/CEO on development and implementation of strategic asset management plan, AM Plans and long term financial plans.	Oversight of resource allocation and performance.

2.7 Asset Management Improvement Plan

The tasks required achieving a 'core' financial and asset management maturity are shown in priority order in the asset management improvement plan in Section 8.2

2.8. Consequences if actions are not completed

There are consequences for the Council if the improvement actions are not completed. These include:

- Inability to achieve strategic and organisational objectives
- Inability to achieve financial sustainability for the organisation's operations
- Current risks to infrastructure service delivery are likely to eventuate and response actions may not be appropriately managed
- We may not be able to accommodate and/or manage changes in demand for infrastructure services.

3. LEVELS OF SERVICE

3.1 Consumer Research and Expectations

The expectations and requirements of various stakeholders were considered in the preparation this strategic asset management plan. Table 3.1 lists the various community surveys that were consulted:

Table 3.1: Community Satisfaction Surveys considered in the preparation of this plan

Year	
2020	Griffith City Council Community Survey 2020
2021	Imagine Griffith Community Engagement 2020-21

3.2 Organisational Objectives

Sections 2.4.2 and 2.4.3 of this strategic asset management plan reported the organisational objectives from the CSP and Delivery Program and asset management objectives developed from the organisational objectives.

The organisational and asset management objectives provide focus for the community and technical level of service tables in Section 3.4.

3.3 Legislative Requirements

We have to meet many legislative requirements including Australian and State legislation and State regulations. These are detailed in the various asset management plans summarised in this strategic asset management plan. Legislation applying to infrastructure assets is listed in table 3.3

Table 3.3: Legislation applying to infrastructure assets

Asset group	Legislation
All	NSW Local Government Act 1993
	Local Government Code of Accounting Practice and Financial Reporting
	Public Works Act 1912
	Protection of the Environment Operations Act 1997

	Work Health & Safety Act 2011
	Public Health Act 1991
	Local Government Amendment
	Planning and Reporting Act 2009
	Disability Discrimination Act 1994
Transport	Roads Act 1993
Water and Sewer	Water Management Act 2000
	Environmental Protection (Water) Policy 1997
	Water Industry Competition Act 2006
	Catchment Management Act 1989
	Soil Conservation Act 1938
	Public Health Act 1991
	Water Supply Authorities Act 1987
	Independent Pricing and Regulatory Tribunal Act 1992
	Plumbing and Drainage Act 2011
Parks and Gardens	Community Land Development Act 1989 No 201
Buildings and Facilities	Environmental Planning & Assessment Act 1979
	Heritage Act 1977
	Valuation of Land Act 1916
	Building Code of Australia
Stormwater Drainage	Local Government (General) Amendment (Stormwater) Regulation under the Local Government Act 1993

3.4 Levels of Service

Service levels are defined in three ways, customer values, customer levels of service and technical levels of service.

Customer Values indicate:

- what aspects of the service is important to the customer,
- whether they see value in what is currently provided and
- the likely trend over time based on the current budget provision

Customer Levels of Service measure how the customer receives the service and whether the organisation is providing value.

Customer levels of service measures used in the asset management plan are:

Quality/condition	How good is the service?
Function	Does it meet users' needs?
Capacity/Utilisation	Is the service usage appropriate to capacity?

Our current and projected community levels of service for the services covered by this strategic asset management plan are shown in the AM Plans summarised in this strategic asset management plan.

Technical Levels of Service

Supporting the community service levels are operational or technical measures of performance. These technical measures relate to the allocation of resources to service activities that the organisation undertakes to best achieve the desired community outcomes and demonstrate effective organisational performance.

Technical service measures will be linked to annual budgets covering:

- Operation – the regular activities to provide services such as availability, cleansing, mowing, etc.
- Maintenance – the activities necessary to retain an asset as near as practicable to an appropriate service condition (e.g. road patching, unsealed road grading, building and structure repairs),
- Renewal – the activities that return the service capability of an asset similar to that which it had originally (e.g. road resurfacing and pavement reconstruction, pipeline replacement and building component replacement) or to a lower service level,
- Acquisition – the activities to provide a higher level of service (e.g. widening a road, sealing an unsealed road, replacing a pipeline with a larger size) or a new service that did not exist previously (e.g. a new library).

Service managers plan, implement and control technical service levels to influence the customer service levels.⁸

Together the community and technical levels of service provide detail on service performance, cost and whether service levels are likely to stay the same, get better or worse.

Our current and projected technical levels of service for the services covered by this strategic asset management plan are shown in the AM Plans summarised in this strategic asset management plan.

Technical levels of service are driven by legislation (eg water quality standards), published standards, (eg Austroads guidelines) and engineering experience. Indications of desired community levels of service are obtained from various sources including the 2014 and 2016 and 2020 Community Surveys, the Customer Request Management (CRM) system, records of asset maintenance / failures; feedback from Councilors and staff, and current asset management practices and technology.

Levels of service for water and sewer infrastructure are detailed in Council's Strategic Business Plan for Water Supply and Sewerage Services. Council has yet to explicitly quantify levels of service for other asset classes. This will be investigated in future revisions of this Asset Management Plan. In the interim, Levels of Service and asset management expenditures for each asset class will be based on maintaining an average condition rating of 3 which represents Fair condition, meaning assets deliver acceptable levels of service but require ongoing maintenance.

⁸ IPWEA, 2011, IIMM, p 2.22

4. FUTURE DEMAND

4.1 Demand Drivers

Drivers affecting demand include population change, changes in demographics, seasonal factors, climate change, vehicle ownership rates, consumer preferences and expectations, government decisions, technological changes, economic factors, agricultural practices, environmental awareness, etc.

4.2 Demand Forecast

The main driver of demand on assets is population growth. The Griffith City population is forecast to grow at an average annual change of 0.72% to 30,507 by 2036 as shown in figure 4.2. Council is planning for future infrastructure based on future demand and demographics using a service-centric philosophy. In other words service needs drive asset creation and renewal strategies for an increasing population.

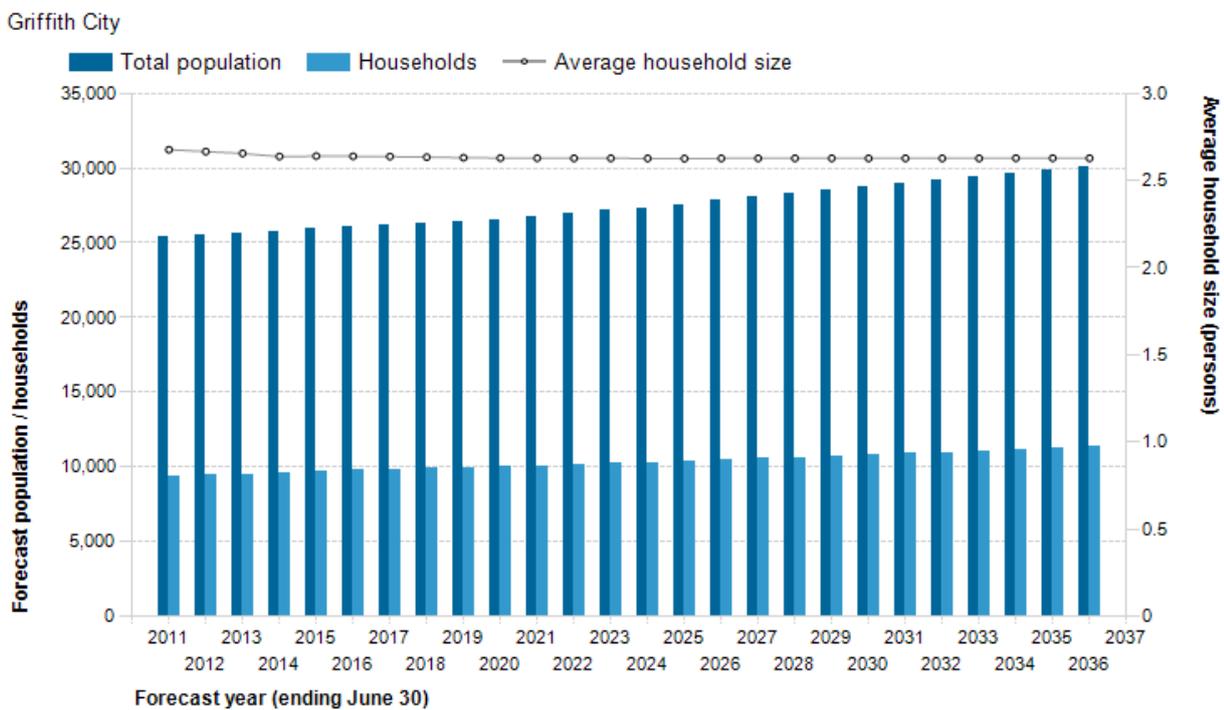


Figure 4.2: Forecasted population growth to 2036. (Forecast ID Pty Ltd)⁹

Present position and projections for demand drivers that may impact future service delivery and utilisation of assets were identified and are documented in Table 4.3.

4.3 Demand Impact on Assets

The impact of demand drivers that may affect future service delivery and utilisation of assets are shown in Table 4.3.

⁹ Population and household forecasts, 2011 to 2036, prepared by .id the population experts, March 2017, sourced from <http://forecast.id.com.au/griffith/population-households-dwellings>

Table 4.3: Demand Drivers, Projections and Impact on Services

Asset Class	Demand Drivers	Impact on Service
Buildings and Other Structures	Population growth	Increased demand for services leads to increase in service spaces and staff to manage demand, leading to increased requirement for office spaces etc. Changing demands will lead to rationalisation of facilities.
Parks and Gardens	Population growth	Expansion of housing developments requires additional green space including streetscapes, parks, play equipment etc
Transport	Population growth, Industrial development, Climate change	Expansion of housing developments and changes in industry requires additional road network and sealed roads. Changing climate may increase rainfall, resulting in increased demand for sealed roads for agriculture and livestock transport
Stormwater Drainage	Population growth, Climate change	Expansion of subdivisions drives increase in hard surface runoff and reduction of natural stormwater storage. Additional drainage network assets and stormwater retention/detention basins required.
Sewer	Population growth	Increased population drives increase in volume of waste water requiring transport and treatment.
Water	Population growth	Increased population drives increase in volume of potable and raw services

4.4 Demand Management Plan

Demand for new services will be managed through a combination of managing existing assets, upgrading of existing assets and providing new assets to meet demand and demand management. Demand management practices include non-asset solutions, insuring against risks and managing failures.

Non-asset solutions focus on providing the required service without the need for the organisation to own the assets and management actions including reducing demand for the service, reducing the level of service (allowing some assets to deteriorate beyond current service levels) or educating customers to accept appropriate asset failures¹⁰. Examples of non-asset solutions include providing joint services from existing infrastructure such as aquatic centres and libraries that may be in another community area or public toilets provided in commercial premises.

Opportunities identified for demand management are shown in Table 4.4.

Table 4.4: Demand Management Plan Summary

Asset Class	Management
Buildings and Other Structures	<ul style="list-style-type: none"> • Provision of additional facilities • Expansion of administrative office space • Expansion of works depot facilities • Disposal or repurposing of obsolete facilities

¹⁰ IPWEA, 2015, IIMM, Sec 2.3.6, p 2|53.

Parks and Gardens	<ul style="list-style-type: none"> • Construction of new parks and gardens • Acceptance of responsibility for assets gifted by land developers • Acquisition, rationalisation and disposal of park play and fitness equipment
Transport	<ul style="list-style-type: none"> • Construction of new roads • Sealing of Unsealed roads • Acceptance of responsibility for assets gifted by land developers • Development of Transport strategy to minimise impact of heavy vehicle traffic on unsealed network
Stormwater Drainage	<ul style="list-style-type: none"> • Construction of new drainage pipelines and open drains • Construction of Flood Levees • Construction of stormwater detention and retention basins • Acceptance of responsibility for assets gifted by land developers
Sewer	<ul style="list-style-type: none"> • Construction and upgrade of sewerage networks, pump stations and treatment facilities • Acceptance of responsibility for assets gifted by land developers
Water	<ul style="list-style-type: none"> • Construction and upgrade of water networks, pump stations and treatment facilities • Acceptance of responsibility for assets gifted by land developers

4.5 Asset Programs to meet Demand

The new assets required to meet growth will be acquired free of cost from land developments and constructed/acquired by the organisation. New assets constructed/acquired by the organisation are discussed in Section 5.5.

Acquiring these new assets will commit the organisation to fund ongoing operation, maintenance and renewal costs for the period that the service provided from the assets is required. These future costs are identified and considered in developing forecasts of future operation, maintenance and renewal costs in Section 6.

5. LIFECYCLE MANAGEMENT PLAN

The lifecycle management plan details how the organisation plans to manage and operate the assets at the agreed levels of service (defined in Section 3) while optimising lifecycle costs and managing risks.

5.1 Background Data

5.1.1 Physical parameters

The assets covered by this strategic asset management plan are shown in Tables 2.2 and 2.3.1.

5.1.2 Asset capacity and performance

The organisation's services are generally provided to meet design standards where these are available.

Asset capacity and performance is monitored for 3 community service measures at the end of the reporting period for condition (quality), function and capacity/utilisation in a *State of the Assets* report. The state of the assets is discussed in section 2.3.2.

5.2 Routine Operation and Maintenance Plan

Operation includes regular activities to provide services such as public health, safety and amenity, e.g. cleansing, utility services, street sweeping, grass mowing and street lighting.

Routine maintenance is the regular on-going work that is necessary to keep assets operating, including instances where portions of the asset fail and need immediate repair to make the asset operational again.

5.2.1 Operation and Maintenance Plan

Operation activities affect service levels including quality and function, such as cleanliness, appearance, etc., through street sweeping and grass mowing frequency, intensity and spacing of street lights and cleaning frequency and opening hours of building and other facilities.

Maintenance includes all actions necessary for retaining an asset as near as practicable to an appropriate service condition including regular ongoing day-to-day work necessary to keep assets operating, e.g. road patching but excluding rehabilitation or renewal.

Maintenance expenditure levels are considered to be adequate to meet projected service levels.

5.2.2 Operation and Maintenance Strategies

Council will operate and maintain assets to provide the defined level of service to approved budgets in the most cost-efficient manner. The operation and maintenance activities include:

- Scheduling operations activities to deliver the defined level of service in the most efficient manner
- Undertaking maintenance activities through a planned maintenance system to reduce maintenance costs and improve maintenance outcomes. Undertake cost-benefit analysis to determine the most cost-effective split between planned and unplanned maintenance activities (50 – 70% planned desirable as measured by cost)
- Maintain a current infrastructure risk register for assets and present service risks associated with providing services from infrastructure assets and reporting very high and high risks and residual risks after treatment to management and Council
- Review current and required skills base and implement workforce training and development to meet required operation and maintenance needs
- Review asset utilisation to identify underutilised assets and appropriate remedies, and over utilised assets and customer demand management options
- Maintain a current hierarchy of critical assets and required operation and maintenance activities
- Develop and regularly review appropriate emergency response capability

- Review management of operation and maintenance activities to ensure we are obtaining best value for resources used.

5.2.3 Summary of future operation and maintenance expenditures

Future operation & maintenance expenditure covered in the LTFP are forecast to trend in line with the value of the asset stock as shown in Table 5.2.3. below. The forecast expenditures have been accommodated in the organisation's long-term financial plan. Note that all costs are shown in current dollar values (i.e. real values).

Table 5.2.3: Projected Operation and Maintenance Expenditure

Asset Class	Y1: 2022/23	Y2: 2023/24	Y3: 2024/25	Y4: 2025/26	Y5: 2026/27	Y6: 2027/28	Y7: 2028/29	Y8: 2029/30	Y9 2030/31	Y10 2031/32
Buildings and Other Structures	300,000	302,652	304,965	310,263	327,546	338,978	342,395	344,828	345,638	346,856
Parks and Gardens	150,000	157,219	157,321	173,842	180,972	181,084	181,201	181,322	181,447	181,576
Stormwater Drainage	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000	130,000
Transport	4,846,000	4,928,626	4,986,204	4,988,087	4,990,022	4,992,010	4,994,054	4,996,154	4,998,314	5,000,535
Water and Sewer	1,730,000	1,737,659	1,759,710	1,769,423	1,772,540	1,775,681	1,778,880	1,782,071	1,785,288	1,832,563

The consequences of deferred maintenance, i.e. works that are identified for maintenance and unable to be funded are to be included in the risk assessment and analysis in the infrastructure risk management plan.

5.3 Renewal/Replacement Plan

Renewal and replacement expenditure is major work which does not increase the asset's design capacity but restores, rehabilitates, replaces or renews an existing asset to its original or lesser required service potential. Work over and above restoring an asset to original service potential is upgrade/expansion or new works expenditure.

5.3.1 Renewal and Replacement Strategies

Council will plan capital renewal and replacement projects to meet level of service objectives and minimise infrastructure service risks by:

- Planning and scheduling renewal projects to deliver the defined level of service in the most efficient manner
- Undertaking project scoping for all capital renewal and replacement projects to identify
 - the service delivery 'deficiency', present risk and optimum time for renewal/replacement
 - the project objectives to rectify the deficiency
 - the range of options, estimated capital and life cycle costs for each options that could address the service deficiency
 - and evaluate the options against evaluation criteria adopted by Council, and
 - select the best option to be included in capital renewal programs,
- Using *optimal* renewal methods (cost of renewal is less than replacement) wherever possible
- Maintain a current infrastructure risk register for assets and service risks associated with providing services from infrastructure assets and report very high and high risks and residual risks after treatment to management, Audit, Risk and Improvement Committee and Council
- Review current and required skills base and implement workforce training and development to meet required construction and renewal needs
- Maintain a current hierarchy of critical assets and capital renewal treatments and timings required
- Review management of capital renewal and replacement activities to ensure we are obtaining best value for resources used.

Renewal ranking criteria

Asset renewal and replacement is typically undertaken to either:

- Ensure the reliability of the existing infrastructure to deliver the service it was constructed to facilitate (e.g. replace a bridge that has a 5 t load limit), or
- To ensure the infrastructure is of sufficient quality to meet the service requirements (e.g. roughness of a road).

Capital renewal and replacement priorities are indicated by identifying assets or asset groups that:

- Have a high consequence of failure
- Have a high utilisation and loss of service would have a significant impact on users
- Have the highest average age relative to their expected lives
- Are identified in the AM Plan as key cost factors
- Have high operational or maintenance costs, and
- Where replacement with modern equivalent assets would yield material savings.

The ranking criteria used to determine priority of identified renewal and replacement proposals is detailed in the respective asset management plans.

5.3.2 Summary of future renewal and replacement expenditure

Projected future renewal and replacement expenditures are forecast to increase over time as the asset stock ages. The forecast expenditures have been accommodated in the organisation’s long-term financial plan as shown in Figure 5.3.2. Note that all amounts are shown in real values.

Table 5.3.2: Projected Capital Renewal and Replacement Expenditure and LTFF Outlays

Asset Class	Y1: 2022/23	Y2: 2023/24	Y3: 2024/25	Y4: 2025/26	Y5: 2026/27	Y6: 2027/28	Y7: 2028/29	Y8: 2029/30	Y9 2030/31	Y10 2031/32
Buildings and Other Structures	2,148,819	1,527,230	767,600	1,103,225	4,292,265	4,106,435	236,800	352,250	306,061	190,436
Parks and Gardens	161,798	14,622	480,464	15,664	164,772	16,779	209,387	17,974	174,329	19,255
Stormwater Drainage	2,463,890	73,010	75,566	78,211	80,948	83,782	86,714	89,749	92,890	96,141
Transport	24,125,912	23,359,010	4,203,050	4,378,198	4,432,204	4,619,897	4,762,839	4,759,952	4,624,696	4,906,242
Water and Sewer	4,474,599	3,514,906	1,490,697	1,785,032	1,242,917	1,254,103	1,251,593	1,256,639	1,248,022	1,375,748

Where renewal projections are based on estimates of asset useful lives, the useful lives are documented in the relevant asset management plan(s). Projected capital renewal and replacement programs are shown in Appendix E.

The projected renewal and replacement program includes borrowings to fund high priority items. Low priority renewal and replacement projects unable to be accommodated within the 10 year long-term financial plan have been deferred for following years (see Figure 2.3.4) to allow further consideration in updates of the AM and financial plans.

5.4 Creation/Acquisition/Upgrade Plan

New works are those works that create a new asset that did not previously exist, or works which upgrade or improve an existing asset beyond its existing capacity. They may result from growth, social or environmental needs. Assets may also be acquired at no cost to the organisation from land development. These assets from growth are discussed in Section 4.5.

5.4.1 Selection criteria

New assets and upgrade/expansion of existing assets are identified from various sources such as councillor or community requests, proposals identified by strategic plans or partnerships with other organisations. Candidate proposals are inspected to verify need and to develop a preliminary renewal estimate. Verified proposals are ranked by priority and available funds and scheduled in future works programmes. The priority ranking criteria is as follows:

- Essential for service
- Alignment with Community Strategic Plan and Delivery Program
- Affordability Capex and Opex
- Importance to Community

Each criterion is given a score of 1 to 5 and totalled to a score out of 20 where 20 is the highest priority. Using this score as a guide a priority ranking from 1 to 6 is allocated to each project. The priority ranking legend is provided in Table 5.4.1 below:

Table 5.4.1. Priority ranking:

Priority Ranking	Ranking Description
1	Council is committed to the expenditure
2	Projects are essential to keep existing resources engaged or service levels maintained in a key function or infrastructure area
3	Will be necessary to continue to provide the required level of service in the future
4	Funding has already been secured to complete the project
5	Is necessary expenditure but maybe able to be deferred
6	Project is not essential to providing a service or function

1. Council is committed to the expenditure
2. Projects are essential to keep existing resources engaged or service levels maintained in a key function or infrastructure area
3. Will be necessary to continue to provide the required level of service in the future
4. Funding has already been secured to complete the project
5. Is necessary expenditure but maybe able to be deferred
6. Project is not essential to providing a service or function

The ranking informs the decision whether to include or defer the capex projects in the plan.

5.4.2 Capital Investment Strategies

Council will plan capital upgrade and new projects to meet level of service objectives by:

- Planning and scheduling capital upgrade and new projects to deliver the defined level of service in the most efficient manner
- Undertake project scoping for all Renewal projects to identify
 - the service delivery 'deficiency', present risk and required timeline for delivery of the upgrade/new asset
 - the project objectives to rectify the deficiency including value management for major projects
 - the range of options, estimated capital and life cycle costs for each option that could address the service deficiency

- management of risks associated with alternative options
- and evaluate the options against evaluation criteria adopted by Council, and
- select the best option to be included in renewal programs
- Review current and required skills base and implement training and development to meet required construction and project management needs
- Review management of capital project management activities to ensure we are obtaining best value for resources used.

Standards and specifications for maintenance of existing assets and construction of new assets and upgrade/expansion of existing assets are detailed in relevant asset management plans.

5.4.3 Summary of future upgrade/new assets expenditure

Projected upgrade/new asset expenditures and estimated long-term financial plan outlays are summarised in Figure 5.4.3. The forecast expenditures have been accommodated in the organisation’s Long-Term Financial Plan. The projected upgrade/new capital works program is shown in Appendix F. All amounts are shown in real values.

Table 5.4.3: New and Upgraded Asset Expenditure Budget

Asset Class	Y1: 2022/23	Y2: 2023/24	Y3: 2024/25	Y4: 2025/26	Y5: 2026/27	Y6: 2027/28	Y7: 2028/29	Y8: 2029/30	Y9 2030/31	Y10 2031/32
Buildings and Other Structures	2,341,388	1,025,575	894,569	2,049,254	6,684,786	4,421,552	1,321,599	940,984	313,253	471,048
Parks and Gardens	1,880,515	1,074,622	15,134	2,459,164	1,061,212	16,779	17,367	17,974	18,604	19,255
Stormwater Drainage	2,457,550	-	-	-	-	-	-	-	-	-
Transport	7,597,568	6,092,080	4,245,186	138,860	142,662	146,598	150,671	154,887	159,249	163,765
Water and Sewer	2,016,780	1,147,168	3,404,098	1,513,562	510,673	514,186	524,107	521,695	525,792	8,636,412

The projected upgrade and new assets program includes borrowings to fund high priority items during the life of the plan. Low priority renewal and replacement projects unable to be accommodated within the 10 year long-term financial plan have been deferred for following years (see Figure 2.3.4) to allow further consideration of service performance, risks and cost in updates of the AM and financial plans.

5.5 Disposal Plan

Disposal includes any activity associated with disposal of a decommissioned asset including sale, demolition or relocation. Assets identified for possible decommissioning and disposal are shown in the respective asset management plans summarised in this strategic asset management plan.

5.6 Service Consequences and Risks

The organisation has prioritised decisions made in adopting the asset management plans summarised in this strategic asset management plan to obtain the optimum benefits from its available resources.

The asset management plans are based on balancing service performance, cost and risk to provide an agreed level of service from available resources in our long-term financial plan.

5.6.1 Deferred initiatives and projects

There are some operation and maintenance initiatives and capital projects that have been deferred for the next 10 years. These are shown in Appendix G. The major initiatives and projects include:

Asset Plan	Asset Class	Action Code	Project	Asset Plan Total (Ten Years)
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Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems ("Nuisance Flooding")	3,089,580
Buildings and Other Structures	Other Structures	4.4.2	Cultural Precinct Masterplan Implementation (Includes the Clock Restaurant)	3,000,000
Buildings and Other Structures	Other Structures	6.1.15	Long Term Paid Car Parking	400,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yenda Stage 3A	400,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Dalton Park Drainage Upgrade	390,265

6. RISK MANAGEMENT PLANNING

The purpose of infrastructure risk management is to document the findings and recommendations resulting from the periodic identification, assessment and treatment of risks associated with providing services from infrastructure, using the fundamentals of International Standard ISO 31000:2009 Risk management – Principles and guidelines.

Risk Management is defined in ISO 31000:2009 as: ‘coordinated activities to direct and control with regard to risk’¹¹. An assessment of risks¹² associated with service delivery will identify critical risks that will result in loss or reduction in service from infrastructure assets or a ‘financial shock’. The risk assessment process identifies credible risks, the likelihood of the risk event occurring, and the consequences should the event occur. The risk assessment should also include the development of a risk rating, evaluate the risks and develop a risk treatment plan for those risks that are deemed to be non-acceptable.

6.1 Critical Assets

Critical assets are defined as those which have a high consequence of failure causing significant loss or reduction of service. Similarly, critical failure modes are those which have the highest consequences.

Examples if failure mode could include:

- Physical failure, collapse
- Essential service interruption.

Critical assets have been identified and their typical failure mode and the impact on service delivery are summarized in Table 6.1:

Table 6.1 Critical Assets

Asset Class	Service or Asset at Risk	What can Happen
Buildings	Council administration building	Fire, Vandalism
	Works Depot	Fire, Vandalism
Roads	Sealed and unsealed roads	Localised flooding, damage due to heavy transport
Sewerage	Pump Stations	Structural, Mechanical and/or electrical failure
	Rising Mains	Burst main
	Treatment Plants	Structural, Mechanical and/or electrical failure, Capacity exceeded
Water	Reservoirs and treatments plants	Structural, Mechanical and/or electrical failure, Capacity exceeded

¹¹ ISO 31000:2009, p 2

Asset Class	Service or Asset at Risk	What can Happen
Stormwater Drainage	Pipes, Pits, Outlets, GPT's, Culverts	Breakdown and failure, joint displacements, blockages.

By identifying critical assets and failure modes an organization can ensure that investigative activities, condition inspection programs, maintenance and capital expenditure plans are targeted at critical assets.

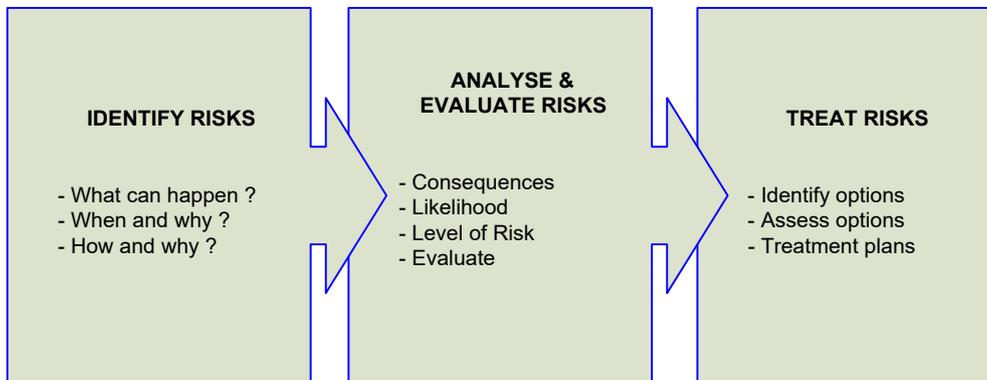
6.2 Risk Assessment

The risk management process used in this project is shown in Figure 6.2 below.

It is an analysis and problem solving technique designed to provide a logical process for the selection of treatment plans and management actions to protect the community against unacceptable risks.

The process is based on the fundamentals of the ISO risk assessment standard ISO 31000:2009.

Figure 6.2 Risk Management Process – Abridged



The risk assessment process identifies credible risks, the likelihood of the risk event occurring, the consequences should the event occur, develops a risk rating, evaluates the risk and develops a risk treatment plan for non-acceptable risks.

An assessment of risks¹³ associated with service delivery from infrastructure assets will identify the critical risks that will result in significant loss, 'financial shock' or a reduction in service.

Critical risks are those assessed with 'Very High' (requiring immediate corrective action) and 'High' (requiring corrective action) risk ratings identified in the Infrastructure Risk Management Plan. The residual risk and treatment costs of implementing the selected treatment plan is shown in Table 6.2. It is essential that these critical risks and costs are reported to management.

Table 6.2: Critical Risks and Treatment Plans

ⁱ IPWEA, 20015, IIMM, Sec 3, p9.

Asset Class	What can Happen	Risk rating	Risk Treatment approach	Residual risk	Treatment funding
Buildings	Fire, Vandalism	VH	Regular inspections and maintenance, Renew assets before they fail Installation of better security, such as electronic locks and security cameras	L	Existing Operations and Maintenance budgets
Roads	Reduction in number of roads with all-weather access	H	Appropriate cyclic maintenance program (gravel re-sheeting, Bitumen Reseals, patching, heavy patching) to approach a 10 -15 year cycle. Match service levels to available funds.	L	Existing Operations and Maintenance budgets
Sewerage	Structural, Mechanical and/or electrical failure	H	Ongoing assessment of condition and capacity assessment, replacement and renewal of assets to minimise risk of failure.	L	Existing Operations and Maintenance budgets, Capital works budget as per LTFP
	Burst main	H	Ongoing assessment of condition and capacity assessment, replacement and renewal of assets to minimise risk of failure.	L	Existing Operations and Maintenance budgets, Capital works budget as per LTFP
	Structural, Mechanical and/or electrical failure, Capacity exceeded	H	Ongoing assessment of condition and capacity assessment, replacement and renewal of assets to minimise risk of failure.	L	Existing Operations and Maintenance budgets, Capital works budget as per LTFP
Water	Structural, Mechanical and/or electrical failure, Capacity exceeded	H	Ongoing assessment of condition and capacity assessment, replacement and renewal of assets to minimise risk of failure.	L	Existing Operations and Maintenance budgets, Capital works budget as per LTFP
Stormwater Drainage	Breakdown and failure, joint displacements, blockages.	H	Ongoing assessment of condition and capacity assessment, replacement and renewal of assets to minimise risk of failure.	L	Existing Operations and Maintenance budgets, Capital works budget as per LTFP

7. FINANCIAL SUMMARY

This section contains the financial requirements resulting from all the information presented in the previous sections of this strategic asset management plan. The financial projections will be improved as further information becomes available on desired levels of service and current and projected future asset performance.

7.1 Financial Indicators and Projections

Infrastructure asset performance indicators (by fund)

Infrastructure asset performance is reported in the Report on Infrastructure Assets within Council's annual financial statements. Performance indicators from this report are provided in table 7.1.

Table 7.1: Infrastructure asset performance indicators (by fund)

Report on infrastructure assets as at 30 June 2021

Infrastructure asset performance indicators (by fund)

\$ '000	General fund		Water fund		Sewer fund		Benchmark
	2021	2020	2021	2020	2021	2020	
Buildings and infrastructure renewals ratio							
Asset renewals ¹	149.15%	120.27%	106.77%	78.24%	30.09%	22.05%	>= 100.00%
Depreciation, amortisation and impairment							
Infrastructure backlog ratio							
Estimated cost to bring assets to a satisfactory standard	0.60%	0.62%	1.79%	1.75%	4.74%	4.18%	< 2.00%
Net carrying amount of infrastructure assets							
Asset maintenance ratio							
Actual asset maintenance	91.98%	91.98%	136.36%	136.36%	111.11%	111.11%	> 100.00%
Required asset maintenance							
Cost to bring assets to agreed service level							
Estimated cost to bring assets to an agreed service level set by Council	0.52%	0.52%	1.33%	1.36%	3.20%	3.07%	
Gross replacement cost							

⁽¹⁾ Asset renewals represent the replacement and/or refurbishment of existing assets to an equivalent capacity/performance as opposed to the acquisition of new assets (or the refurbishment of old assets) that increases capacity/performance.

7.2 Funding Strategy

The funding strategy to provide the services covered by this strategic asset management plan and supporting asset management plans is contained within the organisation's 10 year long term financial plan.

7.3 Valuation Forecasts

7.3.1 Gross Value

Asset values are forecast to increase as additional assets are added to the asset stock from construction and acquisition by the organisation and from assets constructed by land developers and others and donated to the organisation. Figures 7.3.1.1 through 7.3.2.5 show the projected replacement cost asset values over the planning period in real values.

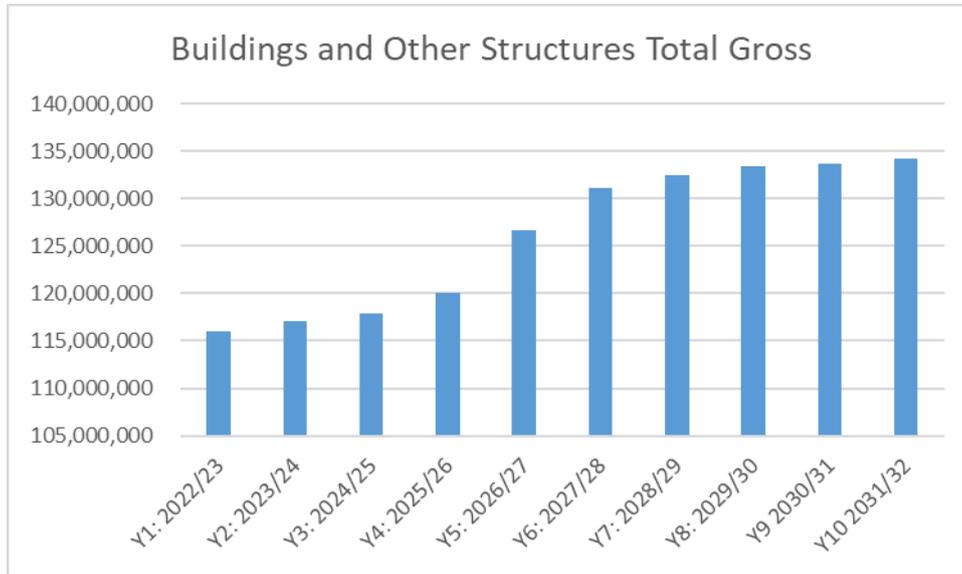


Figure 7.3.1.1 Projected Gross Value of Building and Other Structure Assets

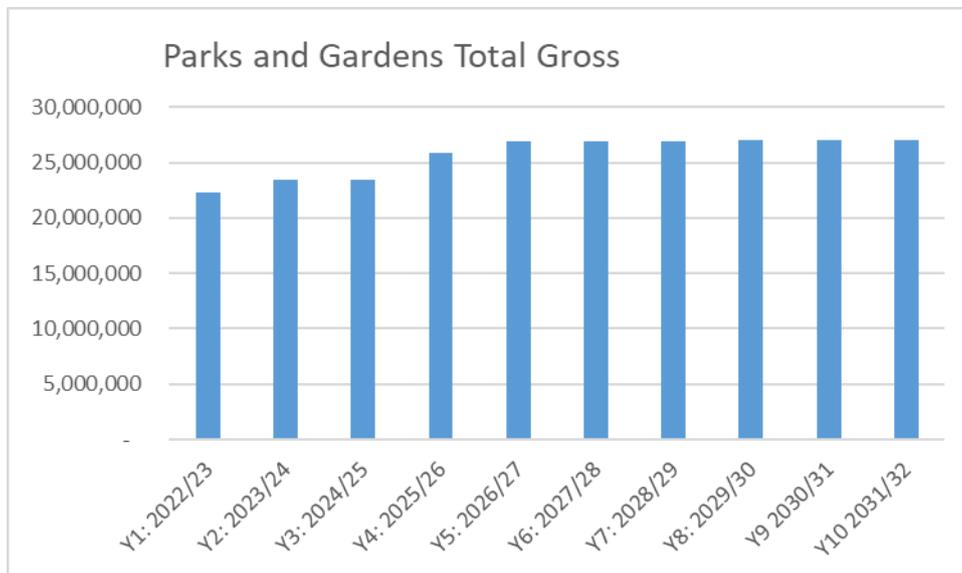


Figure 7.3.1.2 Projected Gross Value of Parks and Gardens Assets

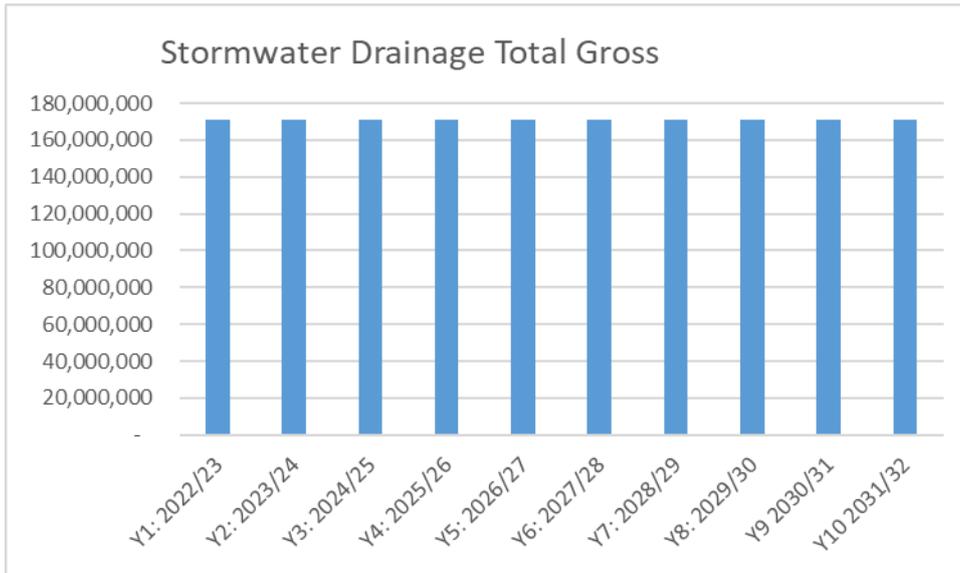


Figure 7.3.1.3 Projected Gross Value of Stormwater Drainage Assets

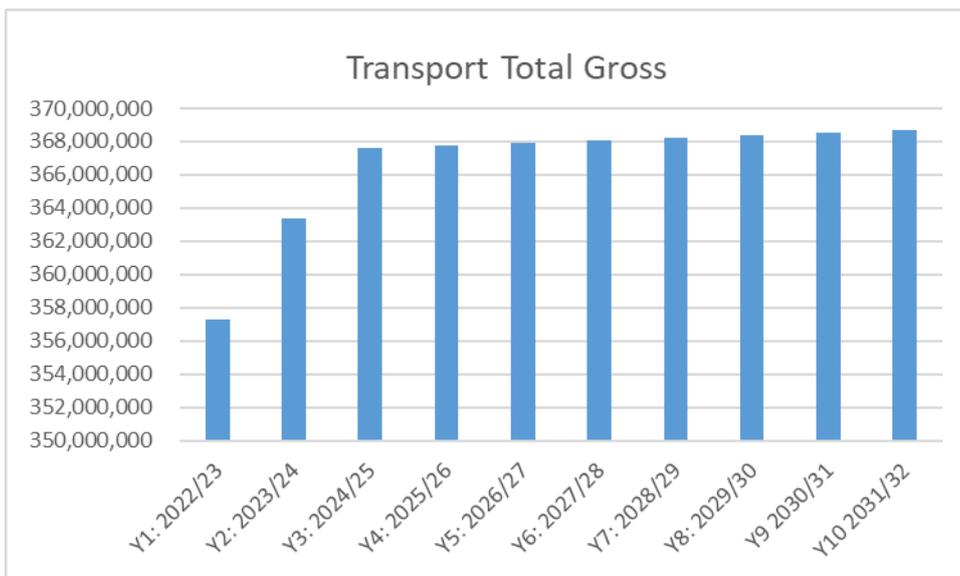


Figure 7.3.1.4 Projected Gross Value of Transport Assets

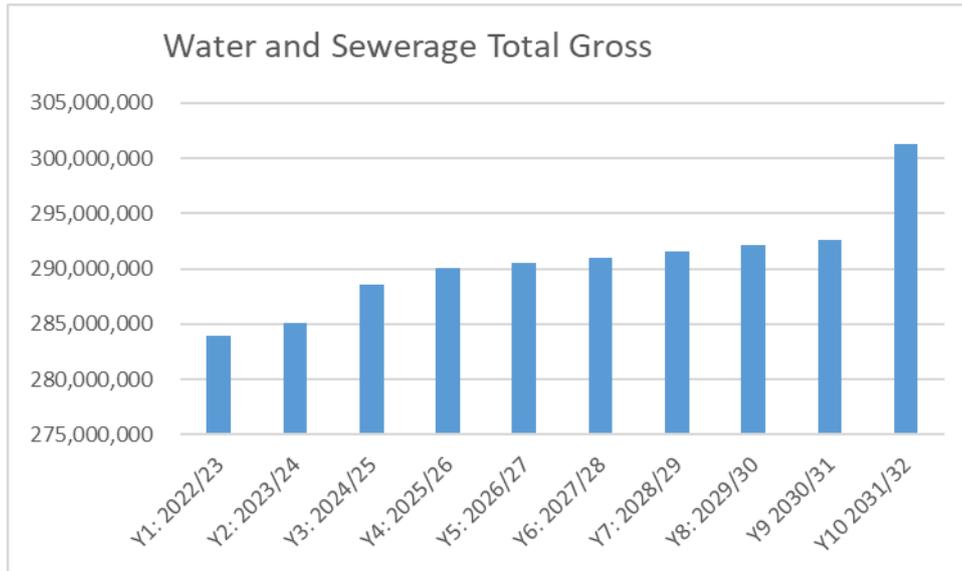


Figure 7.3.1.5 Projected Gross Value of Water and Sewer Assets

7.3.2 Depreciated replacement cost

The depreciated replacement cost will vary over the forecast period depending on the rates of addition of new assets, disposal of old assets and consumption and renewal of existing assets. Forecast of the assets' depreciated replacement cost is shown in Figure 7.3.2.1 through 7.3.2.5 below.

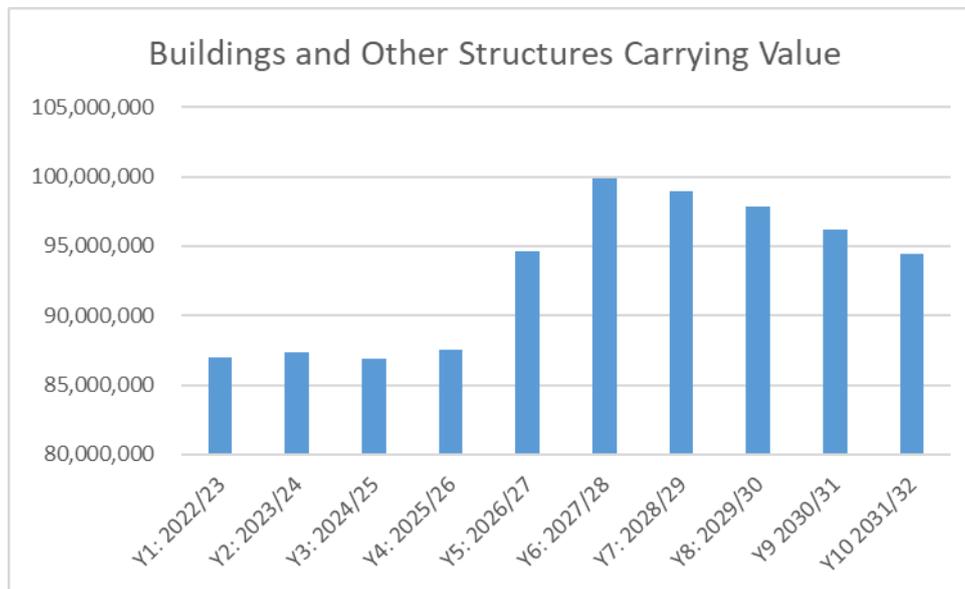


Figure 7.3.2.1 Projected Depreciated Replacement Cost of Building and Other Structure Assets

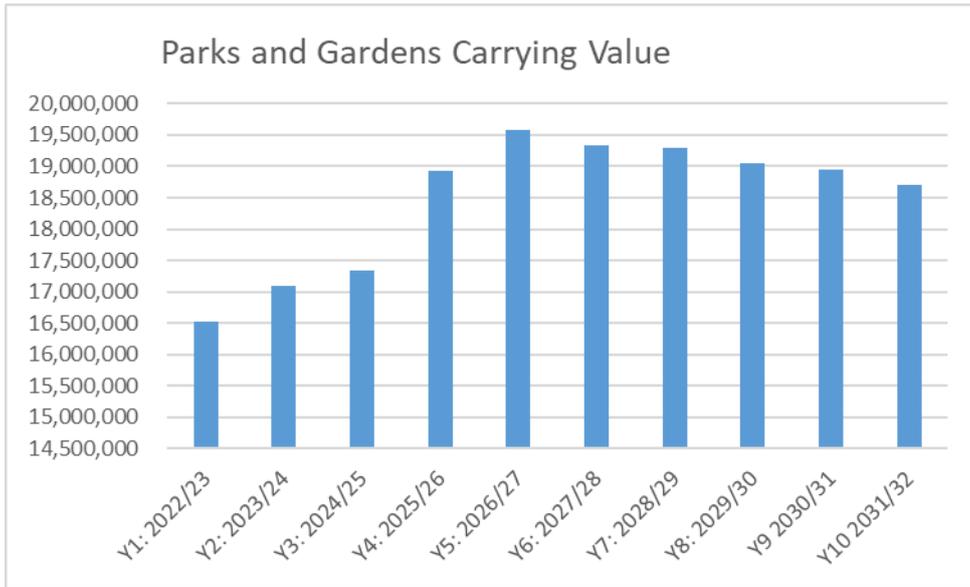


Figure 7.3.2.2 Projected Depreciated Replacement Cost of Parks and Gardens Assets

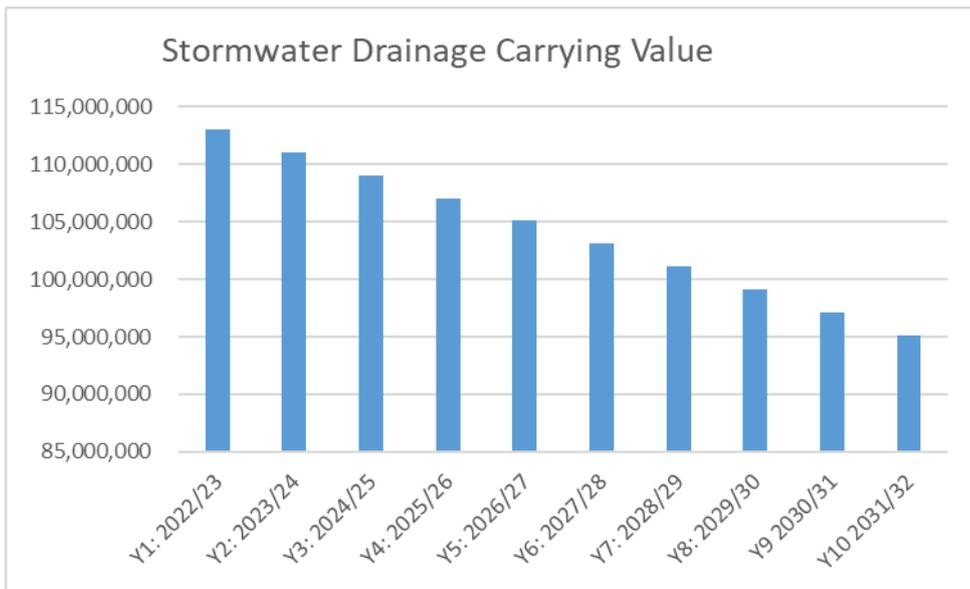


Figure 7.3.2.3 Projected Depreciated Replacement Cost of Stormwater Drainage Assets

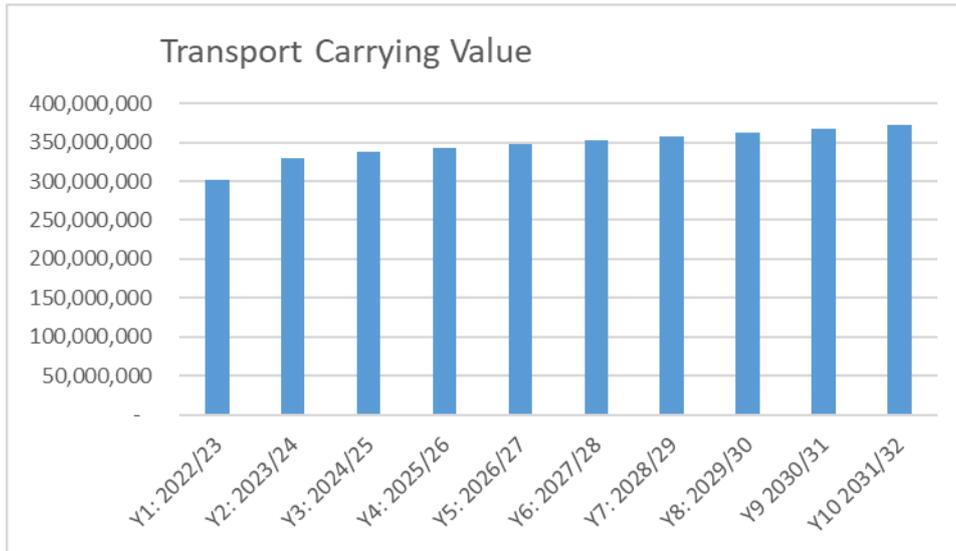


Figure 7.3.2.4 Projected Depreciated Replacement Cost of Transport Assets

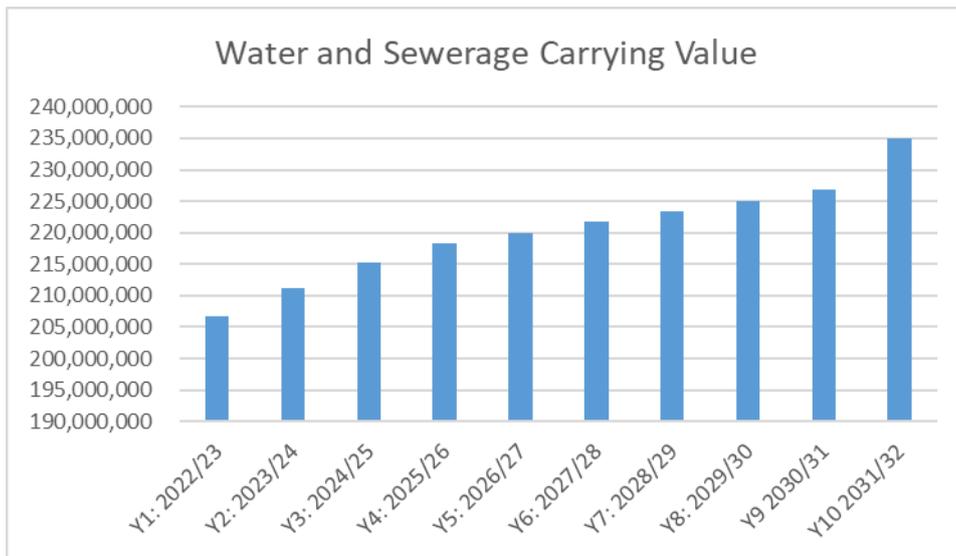


Figure 7.3.2.5 Projected Depreciated Replacement Cost of Water and Sewer Assets

An increase in the projected depreciated replacement cost (carrying value) of infrastructure assets indicates that the organisation is maintaining/increasing its infrastructure capital in aggregate. A decrease indicates that aggregate infrastructure capital is being eroded.

7.4 Key Assumptions made in Financial Forecasts

This section details the key assumptions made in presenting the information contained in this strategic asset management plan and in preparing forecasts of required operating and capital expenditure and asset values, depreciation expense and carrying amount estimates. It is presented to enable readers to gain an understanding of the levels of confidence in the data behind the financial forecasts.

Key assumptions made in this asset management plan include the following

- Assets will follow the current pattern of degradation

- Population growth will continue as predicted by currently available forecasts
- Funding levels will remain constant through the life of the plan

7.5 Forecast Reliability and Confidence

The expenditure and valuations projections in this strategic asset management plan are based on best available data. Currency and accuracy of data is critical to effective asset and financial management.

The estimated confidence level for and reliability of data used in this strategic asset management plan is shown in Table 6.5.

Table 6.5: Data Confidence Assessment for AM Plans summarised in Strategic AM Plan

Asset Class	Quantity	Condition
Buildings and Other Structures	High- over 99% of assets mapped and measurable	High – condition is readily observable
Parks and Gardens	High- over 99% of assets mapped and measurable	High – condition is readily observable
Stormwater Drainage	High- over 99% of assets mapped and measurable	Moderate – Many buried assets not readily observable
Transport	High- over 99% of assets mapped and measurable	Moderate – Many buried assets not readily observable
Water and Sewer	High- over 99% of assets mapped and measurable	Moderate – Many buried assets not readily observable

Over all data sources, the data confidence is assessed as medium confidence level for data used in the preparation of this strategic asset management plan.

Actions to mitigate the adverse effects of data quality are included within Table 7.2 Improvement Plan.

8. PLAN IMPROVEMENT AND MONITORING

8.1 Improvement Plan

Asset management improvement strategies are planned for all council assets:

- Capture actual expenditure on asset renewal against assets so that more accurate modelling can be implemented
- Strategic improvements to GIS to strengthen links with the asset management system
- Establish levels of service in line with community consultation
- Implement advanced asset assessment practices
- Enhanced long-term modelling
- Implement strategic maintenance within the asset system

8.2 Monitoring and Review Procedures

The strategic asset management plan has a life of 4 years (Council election cycle) and is due for complete revision and updating within 12 months of each Council election.

8.3 Performance Measures

The effectiveness of the strategic asset management plan can be measured in the following ways:

- The degree to which the required projected expenditures identified in this strategic asset management plan are incorporated into the organisation's long term financial plan
- The degree to which 1-5 year detailed works programs, budgets, business plans and organisational structures take into account the 'global' works program trends provided by the summarised asset management plans
- The degree to which the existing and projected service levels and service consequences (what we cannot do), risks and residual risks are incorporated into the organisation's Strategic Plan and associated plans
- The Asset Renewal Funding Ratio achieving the target of 90 - 100%.

9. REFERENCES

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IPWEA, 2015, 'Australian Infrastructure Financial Management Manual', Institute of Public Works Engineering Australasia, Sydney, www.ipwea.org/AIFMM.

IPWEA, 2011, 2015, 'International Infrastructure Management Manual', Institute of Public Works Engineering Australasia, Sydney, www.ipwea.org/IIMM

Organisation, 'Community Strategic Plan 2022 – 2032',

Organisation, 'Annual Plan and Budget',

Organisation, 'Asset Management Plans,

Organisation, 'Asset Management Maturity Assessment',

10. APPENDICES

Appendix A National State of the Asset report cards

NATIONAL STATE OF THE ASSETS



A Local Government Infrastructure Report Card

Griffith City Council 2021	Area (square km):	1,639	Population:	26,648
			Replacement Cost per capita:	\$ 5,781

Sealed Roads

Replacement Cost	154,054,000
Depreciable Amount	154,054,000
Current Replacement Cost	139,304,000
Annual Depreciation	1,739,000

Comments

Condition	
% In Condition 1 & 2 Good	98
% In Condition 3 Fair	2
% In Condition 4 & 5 Poor	0
Confidence	Medium
% TOTAL	100

Function	
% In Function 1 & 2 Good	75
% In Function 3 Fair	20
% In Function 4 & 5 Poor	5
Confidence	Medium
% TOTAL	100

Capacity/Utilisation	
% In Capacity 1 & 2 Good	90
% In Capacity 3 Fair	5
% In Capacity 4 & 5 Poor	5
Confidence	Medium
% TOTAL	100

NATIONAL STATE OF THE ASSETS



A Local Government Infrastructure Report Card

Griffith City Council 2021	Area (square km):	1,639	Population:	26,648
			Replacement Cost per capita:	\$ 4,231

Unsealed Roads



Replacement Cost	<input type="text" value="112,760,000"/>
Depreciable Amount	<input type="text" value="112,760,000"/>
Current Replacement Cost	<input type="text" value="104,353,000"/>
Annual Depreciation	<input type="text" value="1,799,000"/>

Comments

Condition

% In Condition 1 & 2 Good	<input type="text" value="100"/>
% In Condition 3 Fair	<input type="text" value="0"/>
% In Condition 4 & 5 Poor	<input type="text" value="0"/>
Confidence	<input type="text" value="Medium"/>
% TOTAL	<input type="text" value="100"/>

Function

% In Function 1 & 2 Good	<input type="text" value="75"/>
% In Function 3 Fair	<input type="text" value="15"/>
% In Function 4 & 5 Poor	<input type="text" value="10"/>
Confidence	<input type="text" value="Medium"/>
% TOTAL	<input type="text" value="100"/>

Capacity/Utilisation

% In Capacity 1 & 2 Good	<input type="text" value="90"/>
% In Capacity 3 Fair	<input type="text" value="5"/>
% In Capacity 4 & 5 Poor	<input type="text" value="5"/>
Confidence	<input type="text" value="Medium"/>
% TOTAL	<input type="text" value="100"/>

NATIONAL STATE OF THE ASSETS



A Local Government Infrastructure Report Card

Griffith City Council 2021	Area (square km):	1,639	Population:	26,648
			Replacement Cost per capita:	\$ 209

Bridges



Replacement Cost	<input type="text" value="5,570,000"/>
Depreciable Amount	<input type="text" value="5,570,000"/>
Current Replacement Cost	<input type="text" value="4,142,000"/>
Annual Depreciation	<input type="text" value="36,000"/>

Comments

Condition



% In Condition 1 & 2 Good	<input type="text" value="77"/>
% In Condition 3 Fair	<input type="text" value="23"/>
% In Condition 4 & 5 Poor	<input type="text" value="0"/>
Confidence	<input type="text" value="Medium"/>
% TOTAL	<input type="text" value="100"/>

Function



% In Function 1 & 2 Good	<input type="text" value="80"/>
% In Function 3 Fair	<input type="text" value="0"/>
% In Function 4 & 5 Poor	<input type="text" value="20"/>
Confidence	<input type="text" value="Medium"/>
% TOTAL	<input type="text" value="100"/>

Capacity/Utilisation



% In Capacity 1 & 2 Good	<input type="text" value="100"/>
% In Capacity 3 Fair	<input type="text" value="0"/>
% In Capacity 4 & 5 Poor	<input type="text" value="0"/>
Confidence	<input type="text" value="Medium"/>
% TOTAL	<input type="text" value="100"/>

NATIONAL STATE OF THE ASSETS



A Local Government Infrastructure Report Card

Griffith City Council 2021	Area (square km):	1,639	Population:	26,648
			Replacement Cost per capita:	\$ 4,237

Buildings & Facilities i

Replacement Cost i	112,934,000
Depreciable Amount i	112,934,000
Current Replacement Cost i	88,927,000
Annual Depreciation i	1,918,000

Buildings + Other Structures
Includes Griffith Airport and Waste Management Centres

Condition i

% In Condition 1 & 2 Good	49
% In Condition 3 Fair	48
% In Condition 4 & 5 Poor	3
Confidence i	High v
% TOTAL	100

Function i

% In Function 1 & 2 Good	90
% In Function 3 Fair	10
% In Function 4 & 5 Poor	0
Confidence	Medium v
% TOTAL	100

Capacity/Utilisation i

% In Capacity 1 & 2 Good	90
% In Capacity 3 Fair	10
% In Capacity 4 & 5 Poor	0
Confidence	Medium v
% TOTAL	100

NATIONAL STATE OF THE ASSETS



A Local Government Infrastructure Report Card

Griffith City Council 2021	Area (square km):	1,639	Population:	26,648
			Replacement Cost per capita:	\$ 795

Parks & Recreation

Replacement Cost	21,203,000
Depreciable Amount	21,203,000
Current Replacement Cost	14,439,000
Annual Depreciation	666,000

Comments

Condition

% In Condition 1 & 2 Good	39
% In Condition 3 Fair	40
% In Condition 4 & 5 Poor	21
Confidence	Medium
% TOTAL	100

Function

% In Function 1 & 2 Good	85
% In Function 3 Fair	10
% In Function 4 & 5 Poor	5
Confidence	Medium
% TOTAL	100

Capacity/Utilisation

% In Capacity 1 & 2 Good	90
% In Capacity 3 Fair	10
% In Capacity 4 & 5 Poor	0
Confidence	Medium
% TOTAL	100

NATIONAL STATE OF THE ASSETS



A Local Government Infrastructure Report Card

Griffith City Council 2021	Area (square km):	1,639	Population:	26,648
			Replacement Cost per capita:	\$ 3,046

Stormwater



Replacement Cost		81,195,000
Depreciable Amount		81,195,000
Current Replacement Cost		59,310,000
Annual Depreciation		901,000

Comments

Condition

% In Condition 1 & 2 Good	45
% In Condition 3 Fair	50
% In Condition 4 & 5 Poor	5
Confidence	Low
% TOTAL	100

Function

% In Function 1 & 2 Good	80
% In Function 3 Fair	15
% In Function 4 & 5 Poor	5
Confidence	Low
% TOTAL	100

Capacity/Utilisation

% In Capacity 1 & 2 Good	80
% In Capacity 3 Fair	15
% In Capacity 4 & 5 Poor	5
Confidence	Low
% TOTAL	100

NATIONAL STATE OF THE ASSETS



A Local Government Infrastructure Report Card

Griffith City Council 2021	Area (square km):	1,639	Population:	26,648
			Replacement Cost per capita:	\$ 13,851

Water & Wastewater

Replacement Cost	369,113,000
Depreciable Amount	369,113,000
Current Replacement Cost	260,575,000
Annual Depreciation	4,418,000

Comments

Condition

% In Condition 1 & 2 Good	72
% In Condition 3 Fair	17
% In Condition 4 & 5 Poor	11
Confidence	Medium
% TOTAL	100

Function

% In Function 1 & 2 Good	95
% In Function 3 Fair	5
% In Function 4 & 5 Poor	0
Confidence	Medium
% TOTAL	100

Capacity/Utilisation

% In Capacity 1 & 2 Good	95
% In Capacity 3 Fair	5
% In Capacity 4 & 5 Poor	0
Confidence	Medium
% TOTAL	100

NATIONAL STATE OF THE ASSETS



A Local Government Infrastructure Report Card

Griffith City Council 2021	Area (square km):	1,639	Population:	26,648
			Replacement Cost per capita:	\$ <input type="text"/>

Footpaths & Cycleways ⓘ

Replacement Cost ⓘ	<input type="text" value="15,868,000"/>
Depreciable Amount ⓘ	<input type="text" value="15,868,000"/>
Current Replacement Cost ⓘ	<input type="text" value="9,926,000"/>
Annual Depreciation ⓘ	<input type="text" value="309,000"/>

Comments

Condition ⓘ

% In Condition 1 & 2 Good	<input type="text" value="90"/>
% In Condition 3 Fair	<input type="text" value="8"/>
% In Condition 4 & 5 Poor	<input type="text" value="2"/>
Confidence ⓘ	<input type="text" value="Medium"/>
% TOTAL	<input type="text"/>

Function ⓘ

% In Function 1 & 2 Good	<input type="text" value="90"/>
% In Function 3 Fair	<input type="text" value="8"/>
% In Function 4 & 5 Poor	<input type="text" value="2"/>
Confidence	<input type="text" value="Low"/>
% TOTAL	<input type="text"/>

Capacity/Utilisation ⓘ

% In Capacity 1 & 2 Good	<input type="text" value="96"/>
% In Capacity 3 Fair	<input type="text" value="4"/>
% In Capacity 4 & 5 Poor	<input type="text" value="0"/>
Confidence	<input type="text" value="Low"/>
% TOTAL	<input type="text" value="100"/>

Appendix B Capital Expenditure links to Delivery Program

All capital expenditure in the long term financial plan is linked to actions items in the community strategic plan. The table below lists the capital expenditure against the relevant items.

DP Link	Delivery Program Action	Total Expenditure allocated in Delivery Program
2.1.3	Ongoing liaison and lobbying with State and Federal and non-government agencies on matters of relevance.	28,428,000.00
2.2.2	Seek appropriate funding to implement the actions and priorities outlined in the Pedestrian Access Mobility Plan (PAMP) and Bicycle Plan.	1,058,000.00
2.2.5	Develop and maintain a network of grant sources to identify grant opportunities.	1,635,000.00
3.1.13	Council's Integrated Planning and Reporting suite of documents developed, outcomes reported and documents reviewed in accordance with statutory requirements.	65,000.00
3.1.15	Council's Integrated Planning and Reporting suite of documents developed, outcomes reported and documents reviewed in accordance with statutory requirements.	1,191,000.00
3.1.16	Council's Integrated Planning and Reporting suite of documents developed, outcomes reported and documents reviewed in accordance with statutory requirements.	78,000.00
4.1.1	Improve public safety by provision of appropriate information signage in public areas.	4,000.00
4.4.1	Griffith Regional Theatre will deliver a diverse and engaging program of events that caters to the needs of the community.	923,000.00

4.4.2	The Griffith Regional Art Gallery will develop and deliver a diverse and engaging program of cultural activities.	-
4.4.3	Provide a collection of library material, meeting community and industry standards.	1,091,000.00
4.4.4	Develop and manage regional museum collections of historic and social significance to Griffith region and communities.	260,000.00
4.7.1	Maintain and renew playgrounds in accordance with the Playground Strategy.	768,000.00
4.7.2	Maintain the Griffith Regional Aquatic Leisure Centre (GRALC) in accordance with Asset Management Plans.	479,000.00
4.7.4	Implement capital upgrades to sporting and recreational facilities as funding becomes available through grants or otherwise.	47,000.00
5.6.3	Establish Griffith as a destination of choice.	123,000.00
6.1.1	Maintain and develop infrastructure and services to bring together willing buyers and sellers of livestock in the Western Riverina region.	522,000.00
6.1.12	Ongoing review and assessment of Asset Management Plans for all asset classes.	6,780,000.00
6.1.14	Efficiently manage and maintain Council's fleet services.	6,792,000.00
6.1.15	Maintain Griffith Airport infrastructure including terminal buildings, runways and carparks.	1,186,000.00
6.1.2	Maintain Griffith Airport infrastructure including terminal buildings, runways and carparks.	7,000.00
6.1.4	Maintain Griffith Airport infrastructure including terminal buildings, runways and carparks.	1,000,000.00
6.1.5	Maintain Griffith Airport infrastructure including terminal buildings, runways and carparks.	264,000.00

6.1.7	Maintain Griffith Airport infrastructure including terminal buildings, runways and carparks.	2,746,000.00
6.1.9	Maintain Griffith Airport infrastructure including terminal buildings, runways and carparks.	305,000.00
6.2.1	Maintain regional and local road infrastructure network as per adopted service standards.	23,491,000.00
6.2.2	Develop and improve the transport network through rehabilitation and capital works.	42,297,000.00
6.2.3	Construction of the Southern Industrial Link Road (Heavy Vehicle Strategy).	5,345,000.00
8.1.1	Maintain water infrastructure including reservoirs, mains and treatment plants.	10,223,000.00
8.1.2	Maintain sewer infrastructure including pump stations, rising mains and treatment plants.	9,601,000.00
8.1.4	Design and construct water mains in accordance with allocated budget.	900,000.00
8.1.6	Maintain water meter replacement program to ensure meter age less than 10 years.	2,020,000.00
8.2.1	Liaise with local energy provider to maintain and upgrade street lighting.	119,000.00

Appendix C Asset Management Maturity Assessment

Question	Task ID	Guidance for determining Council's preparedness	Self-Assessed Compliance Level	Overall Score	Findings
Does Council have a logical structure to the collection and storage of its data?	1.1.1	- Assets identified by unique identifiers	High	High	Asset numbering and hierarchies support efficient production of asset and financial reports
	1.1.2	- Registers include segmentation into appropriate classification levels	High		
	1.1.3	- Hierarchy/ classification consistent with guidelines & processes	High		
	1.1.4	- Asset hierarchy covers all asset classes	High		
	1.1.5	- Guidelines and processes for asset identification using unique IDs developed and implemented	High		
	1.1.6	- Alignment of asset classification /hierarchy between asset management plans and accounting system	High		
Does Council collect the appropriate level of asset attribute data to make informed decisions about its assets?	1.1.1	- Accurate location data in asset register/ system	Moderate	High	Above ground asset locations are accurately located but more work is required for buried assets (water, sewer and drainage). Need to improve documentation
	1.1.2	- Asset attributes recorded for all assets at appropriate level (size, material, asset type etc.)	High		
	1.1.3	- Asset location and attributes can be represented in spatial format	High		
	1.1.4	- Spatial mapping guidelines and processes developed and implemented	Moderate		
	1.1.5	- Asset attributes and location data are in a useable format	High		

Does Council collect asset condition data for each of its asset groups?	1.3.1	- Council has documented repeatable methodologies to carry out consistent asset condition surveys and defect identification assessments, as documented in a Condition Rating Assessment Manual for applicable asset classes	Moderate	Moderate	Improvement is required in asset condition documentation.
	1.3.2	- Condition assessment data collected and recorded against appropriate asset hierarchy level	High		
	1.3.3	- Condition assessment strategy, guidelines and processes developed and implemented	Moderate		
	1.3.4	- Rating system developed and applied	Moderate		
	1.3.5	- Historical condition assessment data available	Moderate		
	1.3.6	- Do the systems and process include annual review and recording of condition data?	Low		
Does Council collect and use asset lifecycle cost data?	1.4.1	- Operations/maintenance data collected/ recorded	Low	Low	Council has plans for improving systems for capturing capex. We have a project this year for implementing maintenance management within the asset system.
	1.4.2	- Capital cost data including renewals and new works data collected & recorded	Moderate		
	1.4.3	- Lifecycle cost data is utilised in decision making	Moderate		
	1.4.4	- Asset lifecycle strategy/costing/ planning guidelines and processes developed and implemented including clear definitions of and guidelines for operating, maintaining, renewing, developing and disposing of assets	Low		
	1.4.5	- Lifecycle planning including options considered for operating, maintaining,	High		

		renewing, developing and disposing of assets	High	High	
Is Council's asset valuation data up to date and current?	1.5.1	- There is a common corporate data framework used across all asset groups, which is defined by Council's Infrastructure Asset Hierarchy	High	High	The asset management system holds all required valuation data and we are documenting this in our business process manual
	1.5.2	- Depreciation data is current and available	High		
	1.5.3	- Asset useful life is assessed on an annual basis	High		
	1.5.4	- Replacement cost data for all assets at appropriate hierarchy level	High		
	1.5.5	- Asset accounting data history is available	Moderate		
	1.5.6	- Alignment of asset classes between asset management plans and accounting system	High		
	1.5.7	- Does Council have a documented procedure for calculating the amount of money required by council to bring assets back to a satisfactory standard only to all asset classes and if so is it applied uniformly?	High		
Does Council have a long term asset management plan for its assets?	2.1.1	- Council has Asset Management plans for all its assets	High	Moderate	
	2.1.2	- Provide actions and costs to provide a defined (current and/or target) level of service in the most cost effective manner	Moderate		
	2.1.3	- Include demand forecasts including possible effects of demographic change and demand management plans	Moderate		

	2.1.4	- Address life cycle costs of assets	High		
	2.1.5	- Include forward programs identifying cash flow forecasts for renewals, new assets and asset upgrades, maintenance, operations and depreciation	High		
	2.1.6	- Address asset performance and utilisation measures and associated targets as linked to levels of service	Moderate		
	2.1.7	- Include an asset rationalisation and disposal program	Moderate		
	2.1.8	- Include an asset management improvement plan	High		
	2.1.9	- Include consideration of non-asset service delivery solutions (leasing private/public partnerships)	Moderate		
	2.1.10	- Have all been prepared in association with community consultation	Moderate		
Does Council's Asset Management Strategy deal with significant risks to assets?	2.2.1	- Council wide risk management policy/ strategy - Risk analysis/assessment undertaken for assets - Critical assets identified - Risk treatment/minimisation strategies developed - Emergency/disaster response and recovery plans and business continuity plans	Low	Moderate	Council manages corporate risk but asset risk management is currently low. Improvements will be made during this year
	2.2.2	- Risk analysis/assessment undertaken for assets	Low		
	2.2.3	- Critical assets identified	Moderate		
	2.2.4	- Risk treatment/minimisation strategies developed	Moderate		
	2.2.5	- Emergency/disaster response and recovery plans and business continuity plans	High		

Does Council have in place strategies for the management and operation of its assets?	3.1.1	- Processes developed for managing planned and unplanned operational and maintenance activities and tasks	High	Moderate	Maintenance management is well organised but documentation needs to improve.
	3.1.2	- Operations and maintenance requirements specified against asset performance and service level expectations	Moderate		
	3.1.3	- Appropriate data collection, validation, auditing and management processes in place	Moderate		
	3.1.4	- Maintenance management supported by appropriate processes and systems for maintenance planning, issue and manage work orders and capture work order information, costing and transactional management, analyse maintenance data and manage contract activity	Moderate		
	3.1.5	- Maintenance specifications and contracts/ Service Level Agreements in place	Moderate		
	3.1.6	- Does council distinguish between operational maintenance and renewal?	High		
	Has Council identified its critical assets and what systems and processes are in place to manage these assets?	3.2.1	- Critical assets assessed/ identified/ prioritised		
3.2.2		- Management strategies for critical assets developed and implemented	Moderate		

	3.2.3	- Critical assets identified and emergency management/response planning in place	Moderate		
	3.2.4	- Quality management systems in place	Low		
	3.2.5	- Reporting on condition and performance of critical assets is carried out on a regular basis	Low		
Does the Council have a comprehensive asset register covering all its assets?	4.1.1	- Asset Register with advanced capabilities including capture and management of the appropriate level of data to meet Asset Management needs	High	High	Council has a strong asset register for water, sewer and roads assets. The remaining asset classes (Parks, Drainage, Buildings) Will be brought in this year
	4.1.2	- Asset Register has suitable reporting capabilities available	High		
	4.1.3	- Registers support hierarchical definition of assets so that data can be linked at alternative levels and aggregation capabilities exist	High		
	4.1.4	- System allows customisation of application and data for reporting and strategic purposes	High		
	4.1.5	- System integrates with other Asset Management and Maintenance (AM&M) systems/modules and system integration/ interface supports import/export of data and information	High		
Does Council have an asset management system and is it effectively integrated into the organisational business	4.2.1	- Asset registers are combined into single asset data base	Moderate	Moderate	We have good integration between assets and GIS. We are unable to integrate the asset system with the finance. However, we are able to provide excel based reports that enable the

structures and processes?	4.2.2	- Multiple asset registers do not exist	Moderate		Finance team to journal asset accounting information as required.
	4.2.3	- Business, corporate and AM&M system functionality/needs defined with integration in mind and system/ systems developed and implemented accordingly	Moderate		
	4.2.4	- AM&M systems integrate/interface with corporate/ business systems including customer request management system, record and document management systems, accounting systems, Human Resources/Payroll	Low		
	4.2.5	- Spatial system implemented and accessible and spatial data guidelines and processes developed and implemented	Moderate		

Appendix D Projected Operation and Maintenance Expenditure

Asset Plan	Asset Class/Category	Annual Required maintenance
Buildings and Other Structures	Buildings	250,000
Buildings and Other Structures	Other structures	50,000
Parks and Gardens	Open Space/Recreational	150,000
Transport	Bridges	1,000
Transport	Footpaths	20,000
Transport	Other road assets	150,000
Transport	Sealed Roads	3,150,000
Transport	Unsealed Roads	1,525,000
Sewer	Sewerage network	630,000
Stormwater Drainage	Stormwater drainage	130,000
Water	Water supply network	1,100,000
	Total	7,156,000

Appendix E Projected Capital Renewal/Replacement Program

Asset Plan	Level 3 Delivery Program Link	Project	Y1: 2022/23	Y2: 2023/24	Y3: 2024/25	Y4: 2025/26	Y5: 2026/27	Y6: 2027/28	Y7: 2028/29	Y8: 2029/30	Y9: 2030/31	Y10: 2031/32	Project Total
Buildings and Other Structures	6.1.14	Depot Masterplan	-	-	295,000	165,000	172,565	-	-	-	-	-	632,565
Buildings and Other Structures	4.7.2	Aquatic Facility Equipment Maintenance (Capital)	33,000	71,500	58,000	114,500	32,000	113,500	55,500	78,500	38,500	4,000	599,000
Buildings and Other Structures	2.2.5	Kooyoo Street Plaza Development - Streetscape-Stage 2	136,089	-	-	-	-	-	-	-	-	-	136,089
Buildings and Other Structures	6.1.12	Governance Building Asset Maintenance (Capital)	176,200	50,000	13,000	81,400	30,000	30,000	15,000	30,000	15,000	-	440,600
Buildings and Other Structures	4.4.3	Library Building Asset Maintenance (Capital)	52,000	727,000	157,000	48,800	2,000	2,000	8,300	42,000	10,000	-	1,049,100
Buildings and Other Structures	4.4.3	Library Equipment Asset Maintenance (Capital)	-	10,000	1,200	25,200	-	24,600	-	17,000	-	-	78,000
Buildings and Other Structures	4.4.2	New Regional Art Gallery Development	-	-	-	-	3,750,000	3,750,000	-	-	-	-	7,500,000
Buildings and Other Structures	3.1.15	Replace CCTV Systems - Servers & Cameras	60,000	35,000	32,000	75,000	52,000	60,000	10,000	10,000	10,000	10,000	354,000
Buildings and Other Structures	6.1.1	Concrete Construction - Sheep Yard & Pavement Areas	40,700	42,130	43,600	45,125	46,700	48,335	50,000	51,750	53,561	55,436	477,337
Buildings and Other Structures	6.1.1	Refurbish Sheep Loading Ramps	45,000	-	-	-	-	-	50,000	50,000	50,000	50,000	245,000
Buildings and Other Structures	6.1.1	Overhead Power Removal & Replacement with Underbore	13,000	-	-	-	-	-	-	-	-	-	13,000
Buildings and Other Structures	4.4.1	Theatre Asset Maintenance (Capital)	13,630	415,000	70,000	425,000	150,000	16,000	10,000	50,000	-	50,000	1,199,630
Buildings and Other Structures	4.7.4	Stadium Building Asset Maintenance (Capital)	12,000	12,300	10,000	13,200	13,000	15,000	-	-	-	-	75,500
Buildings and Other Structures	4.4.4	Pioneer Park Museum Buildings Asset Maintenance (Capital)	178,000	36,000	23,500	19,000	29,000	3,000	3,000	5,000	3,000	3,000	302,500

Buildings and Other Structures	4.4.4	PPM Cottage Building Asset Maintenance (Capital)	2,000	-	-	-	-	-	-	-	-	-	2,000
Buildings and Other Structures	4.4.4	Shearers Quarters Asset Maintenance (Capital)	2,000	-	-	-	-	-	-	-	-	-	2,000
Buildings and Other Structures	6.1.15	Terminal Building Asset Maintenance (Capital)	42,000	44,300	13,000	79,000	13,000	18,000	13,000	13,000	74,000	13,000	322,300
Buildings and Other Structures	6.1.15	Airport Runway Resurfacing	997,700	-	-	-	-	-	-	-	-	-	997,700
Buildings and Other Structures	3.1.13	Pound Building Asset Maintenance (Capital)	30,000	35,000	-	-	-	-	-	-	-	-	65,000
Buildings and Other Structures	5.6.3	Visitors Centre Building Asset Maintenance (Capital)	40,500	32,000	42,000	9,000	2,000	2,000	17,000	2,000	52,000	2,000	200,500
Buildings and Other Structures	3.1.16	Senior Citizens Centre Building Asset Maintenance (Capital)	5,000	17,000	5,000	-	-	5,000	-	-	-	-	32,000
Buildings and Other Structures	3.1.16	Wayeela Street Cottage Asset Maintenance (Capital)	15,000	-	-	-	-	-	-	-	-	-	15,000
Buildings and Other Structures	3.1.16	Neighbourhood/Cubby House Asset Maintenance (Capital)	7,000	-	-	-	-	-	-	-	-	-	7,000
Buildings and Other Structures	3.1.16	Griffith Community Centre Asset Maintenance (Capital)	29,000	-	-	-	-	-	-	-	-	-	29,000
Buildings and Other Structures	4.1.1	Replace "Alcohol Free Zone" Signs	-	-	4,300	-	-	-	5,000	-	-	-	9,300
Buildings and Other Structures	6.1.7	Complete Erection of Security Fence around the Perimeter of the Landfill	200,000	-	-	-	-	-	-	-	-	-	200,000
Buildings and Other Structures	6.1.7	Landfill CCTV Server	16,000	-	-	-	-	16,000	-	-	-	-	32,000
Buildings and Other Structures	6.1.7	Signs	3,000	-	-	3,000	-	3,000	-	3,000	-	3,000	15,000
Parks and Gardens	4.7.1	Playground Equipment Replacement - City Park	-	-	-	-	100,000	-	-	-	100,000	-	200,000
Parks and Gardens	4.7.1	Irrigation System Installation - Replacements/Upgrades	14,128	14,622	15,134	15,664	16,212	16,779	17,367	17,974	18,604	19,255	165,738
Parks and Gardens	4.7.1	Upgrade Toilet Blocks - General	105,350	-	120,000	-	-	-	140,000	-	-	-	365,350

Parks and Gardens	4.7.1	Refurbish Sporting Ovals	42,320	-	45,330	-	48,560	-	52,020	-	55,725	-	243,955
Parks and Gardens	2.1.3	Upgrade Hermit's Cave	-	-	300,000	-	-	-	-	-	-	-	300,000
Sewer	8.1.2	Griffith WRP Diffusers	600,000	-	-	-	-	-	-	-	-	-	600,000
Sewer	8.1.2	Griffith WRP Membrane Replacement	-	1,300,000	-	-	-	-	-	-	-	-	1,300,000
Sewer	8.1.2	Replacement of GWRP Electrical/Mechanical Equipment	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	300,000
Sewer	8.1.2	Griffith WRP - Various, landscaping	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	50,000
Sewer	8.1.2	Upgrade of Pump Stations (Civil & Electrical)	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	300,000
Sewer	8.1.2	Yenda Sewage Treatment Plant	-	10,000	-	10,000	-	10,000	-	10,000	-	10,000	50,000
Sewer	8.1.2	Renewals of Gravity Sewers	100,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,900,000
Sewer	8.1.2	Renewals of Rising Mains	700,000	500,000	500,000	500,000	150,000	150,000	150,000	150,000	150,000	150,000	3,100,000
Sewer	8.1.1	Upgrade SCADA & Telemetry Systems	10,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	28,000
Sewer	8.1.2	Miscellaneous - Capital	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	100,000
Sewer	8.1.2	Capital Wages to be Allocated to Projects	24,934	25,433	19,483	19,892	20,320	20,767	21,234	21,723	22,244	22,800	218,832
Sewer	8.1.2	Investigation & Forward Planning	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	50,000
Sewer	8.1.2	Kooyoo Street Plaza Development-Sewer Infrastructure (Stage 2)	15,960	-	-	-	-	-	-	-	-	-	15,960
Stormwater Drainage	6.1.12	Yoogali Levee	993,350	-	-	-	-	-	-	-	-	-	993,350
Stormwater Drainage	6.1.12	Hanwood Stormwater Pump & Pipes - Stage 1A	1,400,000	-	-	-	-	-	-	-	-	-	1,400,000
Stormwater Drainage	6.1.12	Drainage Improvements/Replacements	70,540	73,010	75,566	78,211	80,948	83,782	86,714	89,749	92,890	96,141	827,552
Transport	6.2.1	Blackspot Works - 1:1 TfNSW	-	-	-	-	-	-	400,000	-	-	-	400,000
Transport	6.2.1	Rural Unsealed - Specified Maintenance	1,332,563	1,379,202	1,427,474	1,477,436	1,529,146	1,582,666	1,582,666	1,638,060	1,638,060	1,695,392	15,282,664
Transport	6.2.1	Reseals Urban	469,890	486,336	503,358	520,975	539,210	558,082	558,082	577,615	577,615	597,831	5,388,994
Transport	6.2.1	Reseals Rural	849,613	982,850	1,017,250	1,052,853	1,089,703	1,127,843	1,127,843	1,167,317	1,167,317	1,208,174	10,790,764
Transport	6.2.1	Traffic Safety Projects - TfNSW	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000
Transport	6.2.1	Kerb & Gutter Renewal	-	116,798	-	125,116	-	134,028	-	143,574	-	153,800	673,316

Sewer	8.1.2	Capital Wages to be Allocated to Projects	99,737	101,732	77,934	79,570	81,281	83,069	84,938	86,891	88,977	91,202	875,329
Sewer	8.1.2	Investigation & Forward Planning	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	50,000
Sewer	8.1.2	Kooyoo Street Plaza Development-Sewer Infrastructure (Stage 2)	47,880	-	-	-	-	-	-	-	-	-	47,880
Stormwater Drainage	6.1.12	Yoogali Levee	993,350	-	-	-	-	-	-	-	-	-	993,350
Stormwater Drainage	6.1.12	Hanwood Stormwater Pump & Pipes - Stage 1A	1,400,000	-	-	-	-	-	-	-	-	-	1,400,000
Stormwater Drainage	6.1.12	Detention Basin Upgrades - Irrigation Systems	64,200	-	-	-	-	-	-	-	-	-	64,200
Transport	6.2.3	Walla Ave/Bromley Rd/Kidman Way Southern Bypass Industrial Link (Carryover from 2021/22)	881,851	681,465	-	-	-	-	-	-	-	-	1,563,316
Transport	6.2.3	Construct Roundabout - Murrumbidgee Avenue/Thorne Road (Carryover from 2021/22)	1,280,000	-	-	-	-	-	-	-	-	-	1,280,000
Transport	6.2.3	Thorne Road Rehabilitation & Widening (GSIL Stage 5a)	2,502,000	-	-	-	-	-	-	-	-	-	2,502,000
Transport	6.2.2	Seal Boorga Road - From New Farms Rd to Dickie Rd (Carryover from 2019/20)	1,839,028	-	-	-	-	-	-	-	-	-	1,839,028
Transport	6.2.1	Citrus Road Upgrade (Farm 11)	150,000	-	-	-	-	-	-	-	-	-	150,000
Transport	2.2.5	Kooyoo Street Plaza Development - Roads/Kerb & Gutter/Drainage-Stage 2	818,492	-	-	-	-	-	-	-	-	-	818,492
Transport	6.2.1	New Road Construction-Clifton Bvd (Manera St to Rifle Range Rd)	-	5,280,000	3,720,000	-	-	-	-	-	-	-	9,000,000
Transport	2.2.2	Shared Pathway - Merrigal St (West End to Jubilee)	-	-	390,000	-	-	-	-	-	-	-	390,000
Transport	2.2.2	PAMP Implementation	28,212	29,200	30,222	30,222	30,222	30,222	30,222	30,222	30,222	30,222	299,188
Transport	2.2.2	Cycleways - Reseals & New Paths	97,986	101,415	104,964	108,638	112,440	116,376	120,449	124,665	129,027	133,543	1,149,502
Water	8.1.1	Upgrade Capacity Griffith W.T.P (15MI)	-	150,000	-	-	-	-	-	-	-	4,000,000	4,150,000
Water	8.1.1	Upgrade Water Treatment Plant	750,000	-	-	-	-	-	-	-	-	-	750,000
Water	8.1.1	Refurbish Reservoir (Scenic Hill)-Raw Water	-	-	-	-	-	-	-	-	-	100,000	100,000

Appendix G Deferred Initiatives and Capital Works proposals

Asset Plan	Asset Class	Action Code	Project	Asset Plan Total (Ten Years)
Buildings and Other Structures	Buildings	6.1.12	New Toilet Block - Dalton Park (Includes demolition of existing one)	250,000
Buildings and Other Structures	Other Structures	4.4.2	Cultural Precinct Masterplan Implementation (Includes the Clock Restaurant)	3,000,000
Buildings and Other Structures	Other Structures	6.1.5	Installation of 2 Solar Lights-Infant Section of Griffith Cemetery	20,000
Buildings and Other Structures	Other Structures	6.1.15	Long Term Paid Car Parking	400,000
Buildings and Other Structures	Other Structures	6.1.5	Public Mausoleum-Griffith Cemetery	100,000
Buildings and Other Structures	Other Structures	6.1.5	Upgrade Yenda Cemetery Carpark-Submission in 2018/19 by Yenda Progress Association	-
Buildings and Other Structures	Other Structures	2.2.5	CCTV Installation-IOOF Park	60,000
Parks and Gardens	Open Space Recreational	4.7.1	Mushroom Sprinkler Water Feature-Memorial Park Yenda	120,000
Parks and Gardens	Open Space Recreational	4.7.1	New Sprinkler System - Sidlow Park	52,455
Parks and Gardens	Open Space Recreational	4.7.1	New Sprinkler System-Median Strip Banna Ave (Between Woolworths & Bridgestone Service Centre)	50,000
Parks and Gardens	Open Space Recreational	4.7.1	Play Equipment - Dog Of Leash Area (Community Gardens)	1,500
Parks and Gardens	Open Space Recreational	4.7.1	Shade Sale Extension-Memorial Park Yenda	30,000
Parks and Gardens	Open Space Recreational	4.7.1	Yenda Memorial Park Enhancement-Submission in 2018/19 by Yenda Progress Association	-

Stormwater Drainage	Stormwater Drainage	6.1.12	Crook Rd Drainage Upgrade	30,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Dalton Park Drainage Upgrade	390,265
Stormwater Drainage	Stormwater Drainage	6.1.12	Detention Systems North of CBD	1,554,372
Stormwater Drainage	Stormwater Drainage	6.1.12	Rae Rd Drainage Upgrade	120,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems ("Nuisance Flooding")	3,089,580
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Hanwood Stage 1B	120,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Hanwood Stage 1C	600,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Hanwood Stage 2	1,200,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Hanwood Stage 3	900,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Hanwood Stage 4	480,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yenda Stage 2	900,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yenda Stage 3A	400,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yenda Stage 3B	900,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yenda Stage 3C	1,000,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yenda Stage 4	1,400,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yenda Stage 5	700,000

Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yoogali Stage 2	800,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yoogali Stage 3	600,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yoogali Stage 4	700,000
Stormwater Drainage	Stormwater Drainage	6.1.12	Urban Drainage Problems Yoogali Stage 5	350,000
Transport	Sealed Roads	6.2.1	Rural Sealed - Heavy Patching	1,528,851