



Department of **Local Government**  
Department of **Regional Development and Lands**



# **Buildings and Structures Asset Management Plan**



Version 1.1

June 2013



| <b>Document Control</b>                                   |            | <b>Asset Management for Small, Rural or Remote Communities</b> |        |          |          |   |
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|   |            |  |        |          |          |   |

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Department of **Local Government**  
 Department of **Regional Development and Lands**



**Asset Management for Small, Rural or Remote Communities Practice Note**

The Institute of Public Works Engineering Australia.

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## 1. EXECUTIVE SUMMARY

### Context

The Town of Narrogin is a progressive thriving rural community located in the Wheatbelt South Region, 193kms south east of Perth. The Town is situated in a valley, surrounded by woodland, farmland and rolling hills; with the Dryandra State Forrest approximately 35kms north east.

The Town of Narrogin has a high standard of infrastructure including rail, regional hospital, aged care services, recreation complex, 3 primary schools, senior high school and agricultural college.

The Town of Narrogin occupies an area of 12.6km<sup>2</sup>.

The objective of this Building and Structures Asset Management Plan is to outline all the tasks and resources required to manage and maintain Council's building and structures portfolio to an agreed standard. This Asset Management Plan provides a detailed overview of the ongoing management of the building and facilities assets.

This plan acts as a tool to support the ability of Council to deliver well targeted, responsive and value for money maintenance and operational services for customers and the community as a whole.

### The Building and Structures Service

The Building and Structures Asset network comprises:

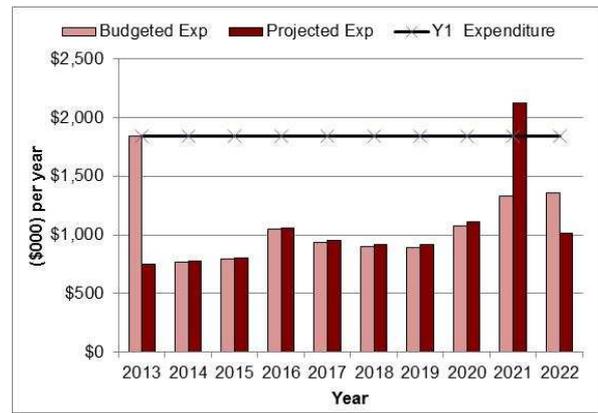
- 7 Amenities Buildings.
- 8 Civic & Corporate Buildings.
- 1 Residential Building.
- 14 Community Buildings.
- 24 Recreation Buildings.
- 3 Waste Buildings.
- 3 Heritage Buildings.
- 102 Other Structures.

These infrastructure assets have a replacement value of \$73,819,850.

### What does it Cost?

The projected cost to provide the services covered by this Asset Management Plan includes operations, maintenance, renewal and upgrade of existing assets over the 10 year planning period is \$10,362,000 or \$1,036,000 per year.

Council's estimated available funding for this period is \$10,943,000 or \$1,094,000 per year. This is a funding surplus of \$58,000 per year, which is 1.06% of the cost to provide the service. Projected and budgeted expenditure are shown in the graph below.



Councils' present funding levels are insufficient to continue to provide existing services at current levels in the medium term.

### What we will do

This first cut core Asset Management Plan has been compiled based on the projects identified by the Council and staff. The Council plans to provide Building and Structures asset services for the following:

- Operation and maintenance of Buildings and Structures to meet service levels set by Council in annual budgets.
- Identify highest priority renewals and incorporate them into the 10 Year Long Term Financial Plan.

### What we cannot do

The Asset Management Plan modelling has identified that the Town can fund all building renewals required over the next 10 years.

However, the modelling has revealed that the Towns projected building renewals outside the 10 year planning window will be significant and the Town will not be able to fund all renewals required. These renewals will be progressively included into the Asset Management Plan as each yearly review is undertaken.

### Managing the Risks

There are risks associated with providing the service and not being able to complete all identified activities and projects. We have identified major risks as:

- Fire
- Drowning/Accident
- Fire and/or death
- Downgrading of services due to a lack of funding
- Lack of maintaining inspection and maintenance systems.

We will endeavour to manage these risks within available funding by:

- Maintaining adequate fire systems.

- Installation of warning signage and ensuring facilities are adequately staffed, where appropriate.
- Installation of hard wired smoke detectors.
- Establishing criteria to determine renewal and new/upgrade priorities.
- Ensure appropriate resources are allocated to maintain systems.

### **The Next Steps**

The actions resulting from this asset management plan are:

- Assess first year costs against actual.
- Prepare ranking system for renewals.
- Review maintenance practices and align with service level requirements.
- Ongoing rolling program of data collection.
- Community consultation on service level provision.

### **Questions you may have**

#### **What is this plan about?**

This asset management plan covers the Buildings and Structures infrastructure assets that serve the Town of Narrogin's needs. These assets include public conveniences, civic and corporate buildings, community buildings, recreation buildings, waste facilities, airfield facilities, heritage buildings and other structures throughout the Council area that enable people to gain access to localised services.

#### **What is an Asset Management Plan?**

Asset management planning is a comprehensive process to ensure delivery of services from infrastructure is provided in a financially sustainable manner.

An asset management plan details information about infrastructure assets including actions required to provide an agreed level of service in the most cost effective manner. The Plan defines the services to be provided, how the services are provided and what funds are required to provide the services.

#### **Why is there a funding shortfall?**

Most of the Council's buildings and structures asset network was constructed from government grants often provided and accepted without consideration of ongoing operations, maintenance and replacement needs. Many of these assets are approaching the later years of their life and require replacement, services from the assets are decreasing and maintenance costs are increasing. Councils' present funding levels are insufficient to continue to provide existing services at current levels in the medium term.

#### **What options do we have?**

Resolving the funding shortfall involves several steps:

1. Improving asset knowledge so that data accurately records the asset inventory, how assets are performing and when assets are not able to provide the required service levels;
2. Improving our efficiency in operating, maintaining, replacing existing and constructing new assets to optimise life cycle costs;
3. Identifying and managing risks associated with providing services from infrastructure;
4. Making tradeoffs between service levels and costs to ensure that the community receives the best return from infrastructure;
5. Identifying assets surplus to needs for disposal to make saving in future operations and maintenance costs;
6. Consulting with the community to ensure that buildings and structures services and costs meet community needs and are affordable;
7. Developing partnerships with other bodies, where available to provide services;
8. Seeking additional funding from governments and other bodies to better reflect a 'whole of government' funding approach to infrastructure services.

#### **What happens if we don't manage the shortfall?**

It is likely that council will have to reduce service levels in some areas, unless new sources of revenue are found. For Buildings and Structures assets the service level reduction may include rationalisation and decommissioning of building and structures that are under-utilised.

#### **What can we do?**

Council can develop options and priorities for future Buildings and Structures asset services with costs of providing the services, consult with the community to plan future services to match the community services needs with ability to pay for services and maximise benefit to the community for costs to the community.

## 2. INTRODUCTION

### 2.1 Background

This Building & Structures asset management plan has been developed to demonstrate responsive management of building assets (and services provided from these assets), compliance with regulatory requirements, and to communicate funding required to provide the required levels of service.

This building asset management plan is to be read with Council’s Asset Management Policy, Asset Management Strategy and the following associated planning documents:

- Strategic Community Plan
- Annual Budget
- Risk Management Policy
- Department of Local Government Asset Management Framework and Guidelines

The Buildings and Structures assets shown in Council’s asset register and covered by this asset management plan are shown in Table 2.1.

**Table 2.1: Assets covered by this Plan**

| Asset category                | Number     | Replacement Value    |
|-------------------------------|------------|----------------------|
| Amenities Buildings           | 10         | \$1,730,000          |
| Civic and Corporate Buildings | 8          | \$4,547,000          |
| Residential Buildings         | 1          | \$225,000            |
| Community Buildings           | 14         | \$9,746,000          |
| Recreation Buildings          | 24         | \$32,368,000         |
| Waste Buildings               | 3          | \$40,000             |
| Airport Buildings/Structures  | 0          | Not Currently Valued |
| Heritage Buildings            | 3          | \$18,135,000         |
| Other Structures              | 102        | \$7,028,850          |
| <b>TOTAL</b>                  | <b>165</b> | <b>\$73,819,850</b>  |

**Note** – A number of buildings or parts of buildings, particularly those associated with sporting clubs are subject to lease arrangements with varying levels of commitment to maintenance. They are included in the relevant building asset category to enable a contingent liability to be allocated in the case of the Town of Narrogin resuming full control of the building should the organisation cease to exist.

Key stakeholders in the preparation and implementation of this Building Asset Management Plan can be divided into internal and external stakeholders.

**Internal stakeholders include:**

The Town of Narrogin Council  
Chief Executive

Operations Team

Community representation and administration  
Council representation and administration, Identification and definition of level of service requirements  
Design parameters, standards, operation and administration

**External stakeholders include:**

Town of Narrogin Community  
Town of Narrogin building tenants  
Visitors to the Town of Narrogin  
Local Government Insurance Services  
Fire and Emergency Services Authority  
Heritage Council of WA

Building users  
Building users  
Building users  
Minimisation of risk  
Fire and Emergency Services  
Preservation of historic buildings/structures

## 2.2 Goals and Objectives of Asset Management

The Council exists to provide services to its community. Some of these services are provided by infrastructure assets. Council has acquired infrastructure assets by 'purchase', by contract, construction by council staff and by donation of assets constructed by developers and others to meet increased levels of service.

Council's goal in managing infrastructure assets is to meet the required level of service in the most cost effective manner for present and future consumers. The key elements of infrastructure asset management are:

- Taking a life cycle approach,
- Developing cost-effective management strategies for the long term,
- Providing a defined level of service and monitoring performance,
- Understanding and meeting the demands of growth through demand management and infrastructure investment,
- Managing risks associated with asset failures,
- Sustainable use of physical resources,
- Continuous improvement in asset management practices.<sup>1</sup>

The goal of this asset management plan is to:

- Document the services/service levels to be provided and the costs of providing the service,
- Communicate the consequences for service levels and risk, where desired funding is not available, and
- Provide information to assist decision makers in trading off service levels, costs and risks to provide services in a financially sustainable manner.

This asset management plan is prepared under the direction of Council's vision, mission, goals and objectives.

Council's vision is:

***"Prosperity and growth as a regional centre"***

Council's mission is:

***"Provide leadership, direction and opportunities for the community"***

Council is responsible for the provision of buildings and structures including community halls, sporting pavilions, administration centres and other community facilities. Asset management provides for the necessary preventative maintenance to ensure the functionality and performance of its building infrastructure.

The objectives of owning Buildings and Other Structures assets are at two levels:

Level 1 - Corporate Objectives:

- Manage and develop the Councils built infrastructure for long-term sustainability, residential amenity and public safety.
- Ensure all assets are identified.
- Provide improved management of asset-related information.
- Ensure service standards are developed for assets and delivery methods provide best value for the community.

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<sup>1</sup> IPWEA, 2006, *IIMM* Sec 1.1.3, p 1.3.

## Level 2 – Asset Class Specific

- Ensure the Council's Buildings and Structures assets are sustainably managed, maintained, and account for life cycle cost.
- Ensure Buildings and Structures are kept clean, presentable and fit for purpose.

### **2.3 Plan Framework**

Key elements of the plan are

- Levels of service – specifies the services and levels of service to be provided by council.
- Future demand – how this will impact on future service delivery and how this is to be met.
- Life cycle management – how the organisation will manage its existing and future assets to provide the required services
- Financial summary – what funds are required to provide the required services.
- Asset management practices
- Monitoring – how the plan will be monitored to ensure it is meeting the organisation's objectives.
- Asset management improvement plan

### **2.4 Core and Advanced Asset Management**

This asset management plan is prepared as a first cut 'core' asset management plan in accordance with the International Infrastructure Management Manual<sup>2</sup> and the Asset Management Framework and Guidelines<sup>3</sup>. It is prepared to meet minimum legislative and organisational requirements for sustainable service delivery and long term financial planning and reporting. Core asset management is a 'top down' approach where analysis is applied at the 'system' or 'network' level.

### **2.5 Community Consultation**

The Asset Management Framework and Guidelines require local governments to consult with the community on their service requirements, expectations and satisfaction levels as part of the community's ongoing engagement in relation to asset management.

The local government is required to report annually on its asset management; with the community providing feedback on the local government's asset management performance.

This 'core' asset management plan has been prepared to facilitate community consultation initially through feedback on publicly available draft asset management plans prior to adoption by Council. Future revisions of the asset management plan will incorporate community consultation on existing and future service needs, service levels and costs of providing the service.

This will assist Council and the community in matching the level of service needed by the community, service risks and consequences with the community's ability to pay for the service.

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<sup>2</sup> IPWEA, 2006.

<sup>3</sup> Department of Local Government (WA), 2011.

### 3. LEVELS OF SERVICE

#### 3.1 Customer Research and Expectations

Council has not carried out any research on customer expectations. This will be investigated for future updates of the asset management plan.

#### 3.2 Legislative Requirements

Council has to meet many legislative requirements including Australian and State legislation and State regulations. Relevant legislation is shown in Table 3.2.

**Table 3.2: Legislative Requirements**

| Legislation  | Requirement   |
|--|---|
| Local Government Act   | Sets out role, purpose, responsibilities and powers of local governments including the preparation of a long term financial plan supported by asset management plans for sustainable service delivery.  |
| Aboriginal Heritage Act 1972                                       | Preservation of the community places and objects used by traditional owners.  |
| Aboriginal Heritage Regulations 1974                               | Preservation of the community places and objects used by traditional owners.  |
| Building Code of Australia 2005                                    | Construction and building standards for all buildings in Australia.   |
| Dangerous Goods Safety Act 2004                                    | Relates to the safe storage, handling and transport of certain dangerous goods  |
| Disability Services Act 1993                                       | An Act for the establishment of the Disability Services Commission and the Ministerial Advisory Council on Disability, for the progress of principles applicable to people with disabilities, for the funding and provision of services to such people that meet certain objectives, for the resolution of complaints by such people and for related purposes.                      |
| Disability Services Regulations 2004                               | Current amendments to Disability Services Act (1993)  |
| Dividing Fences Act 1961   | Local government exemption from 50/50 contribution for dividing fences abutting public open space.  |
| Environment Protection and Biodiversity Conservation Act 1999      | Provides for the development of a Commonwealth Heritage List, which comprises natural, Indigenous and historic heritage places which are either entirely within a Commonwealth area, or outside the Australian jurisdiction and owned or leased by the Commonwealth or a Commonwealth Authority; and which the Minister is satisfied have one or more Commonwealth Heritage values. |
| Health Act 1911  | Sets down the legislative requirements in relation to health standards for public buildings, including ablution facilities, and the handling and disposal of hazardous materials including asbestos.  |
| Health (Public Buildings) Regulations 1992                         | The regulations are intended to address operational matters or those where the BCA is considered inadequate for the protection of public health or safety in and about a public building.   |
| Heritage Act of WA 1990  | Requires all local governments to compile and regularly review an inventory of local places, which are significant or may become significant heritage properties.   |
| Occupational Health and Safety Act 1984 and associated regulations | Administered in part by local governments to promote and improve standards for occupational health, safety and welfare and to coordinate administration of the laws relating to occupational safety and health for incidental and other purposes.   |

### 3.3 Current Levels of Service

Council has defined service levels in two terms.

**Community Levels of Service** relate to the service outcomes that the community wants in terms of safety, quality, quantity, reliability, responsiveness, cost effectiveness and legislative compliance.

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

|          |                            |
|----------|----------------------------|
| Quality  | How good is the service?   |
| Function | Does it meet users' needs? |
| Safety   | Is the service safe?       |

**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 council undertakes to best achieve the desired community outcomes.

Technical service measures are linked to annual budgets covering:

- Operations – the regular activities to provide services such as opening hours, cleansing frequency, mowing frequency, etc.
- Maintenance – the activities necessary to retain an assets as near as practicable to its original condition (eg road patching, unsealed road grading, building and structure repairs),
- Renewal – the activities that return the service capability of an asset up to that which it had originally (eg frequency and cost of road resurfacing and pavement reconstruction, pipeline replacement and building component replacement),
- Upgrade – the activities to provide an higher level of service (eg widening a road, sealing an unsealed road, replacing a pipeline with a larger size) or a new service that did not exist previously (eg a new library).

Council's current service levels are detailed in Table 3.3.

**Table 3.3: Current Service Levels**

| Key Performance Measure            | Level of Service Objective   | Performance Measure Process   | Desired Level of Service   | Current Level of Service   |
|------------------------------------|--|---|--|--|
| <b>COMMUNITY LEVELS OF SERVICE</b> |  |   |  |  |
| Quality                            | <ul style="list-style-type: none"> <li>▪ Ensure that buildings and other structures are clean, attractive to users and damage free.</li> </ul> | <ul style="list-style-type: none"> <li>▪ No. of complaints from users per annum.</li> </ul> | <ul style="list-style-type: none"> <li>▪ Buildings are to be clean and maintained</li> </ul>   | <ul style="list-style-type: none"> <li>▪ High - Minimal complaints received and normally with the public ablution facilities</li> </ul>                                  |
| Function                           | <ul style="list-style-type: none"> <li>▪ Ensure that buildings meet user requirements.</li> </ul>  | <ul style="list-style-type: none"> <li>▪ No of complaints from users per annum.</li> </ul>  | <ul style="list-style-type: none"> <li>▪ All items and fixtures are to be in working order</li> </ul>  | <ul style="list-style-type: none"> <li>▪ Medium - Council fixes and repairs what is required upon notice. Council relies in the users in this area currently.</li> </ul> |
| Safety                             | <ul style="list-style-type: none"> <li>▪ Provide safe, suitable buildings free of hazards.</li> </ul>  | <ul style="list-style-type: none"> <li>▪ No of injury/incident reports logged.</li> </ul>   | <ul style="list-style-type: none"> <li>▪ Electrical protection is provided and where possible any hazards are to be removed if practicable and if not to be identified and signed</li> </ul> | <ul style="list-style-type: none"> <li>▪ High - Council has taken this as a priority and no injuries have occurred that have been reported.</li> </ul>                   |
| <b>TECHNICAL LEVELS OF SERVICE</b> |  |   |  |  |

| Key Performance Measure | Level of Service Objective   | Performance Measure Process   | Desired Level of Service   | Current Level of Service   |
|-------------------------|--|---|--|--|
| Operations              | <ul style="list-style-type: none"> <li>Ensure buildings are kept clean and have good sanitation.</li> </ul>  | <ul style="list-style-type: none"> <li>Cleaning frequency.</li> </ul>   | Class 1 – Daily<br>Class 2 – Twice per week<br>Class 3 – Weekly<br>Class 4 – As required<br>Class 5 – As required  | Class 1 – Daily<br>Class 2 – Twice per week<br>Class 3 – Weekly<br>Class 4 - As required<br>Class 5 – As required  |
|                         | <ul style="list-style-type: none"> <li>Building facilities meet users needs</li> </ul>   | <ul style="list-style-type: none"> <li>Annual condition &amp; defects inspection</li> </ul>   | Conducted by the Building Department.  | Medium - Inspections are completed but funding issues is difficult.  |
|                         |  |   | <ul style="list-style-type: none"> <li>Budget</li> </ul>   | \$218,000  |
| Maintenance             | <ul style="list-style-type: none"> <li>Buildings are suitable for purpose.</li> </ul>  | <ul style="list-style-type: none"> <li>Reactive service requests completed within timeframes</li> </ul>   | <ul style="list-style-type: none"> <li>Defects made safe within 3 working days.</li> <li>Repairs are completed within 30 working days.</li> </ul>                                  | <ul style="list-style-type: none"> <li>Medium - This is difficult to ensure due to the technicality of the issues that are raised.</li> </ul>  |
|                         |  | <ul style="list-style-type: none"> <li>Planned maintenance activities completed to schedule</li> </ul>  | <ul style="list-style-type: none"> <li>All planned maintenance activities are completed to schedule.</li> </ul>  | <ul style="list-style-type: none"> <li>Medium - better scheduling needs to occur.</li> </ul>   |
|                         |  |   | <ul style="list-style-type: none"> <li>Budget</li> </ul>   | \$653,100  |
| Renewal                 | <ul style="list-style-type: none"> <li>Ensure building components are replaced when due so that building continues to be fit for purpose.</li> </ul>         | <ul style="list-style-type: none"> <li>No of renewals identified in Renewal Plan completed per annum.</li> </ul>  | <ul style="list-style-type: none"> <li>100% of renewals identified in First generation Renewal Plan completed per annum.</li> </ul>  | <ul style="list-style-type: none"> <li>Medium - It is difficult for Council to fund all required upgrades. However, priorities are generated and focused on.</li> </ul>                  |
|                         | <ul style="list-style-type: none"> <li>Building facilities meet users needs</li> </ul>   | <ul style="list-style-type: none"> <li>Condition of buildings</li> </ul>  | <ul style="list-style-type: none"> <li>&lt;5% with a condition rating of 4 or 5</li> </ul>   | <ul style="list-style-type: none"> <li>6.1% with a condition rating of 4 or 5</li> </ul>   |
|                         |  |   | <ul style="list-style-type: none"> <li>Budget</li> </ul>   | \$165,100  |
| Upgrades/New            | <ul style="list-style-type: none"> <li>Ensure building components are upgraded to meet all relevant legislation, new standards, and modern needs.</li> </ul> | <ul style="list-style-type: none"> <li>No of non-compliance items with legislation per 6 monthly inspection.</li> <li>No of upgrades identified in Upgrade Plan completed per annum.</li> </ul> | <ul style="list-style-type: none"> <li>100% legislative compliance per annum.</li> <li>80% of upgrades identified in First generation Upgrade plan completed per annum.</li> </ul> | <ul style="list-style-type: none"> <li>High - All upgrades are compliant with the latest requirements. Older buildings that have not had work do not meet these requirements.</li> </ul> |
|                         |  | <ul style="list-style-type: none"> <li>Budget</li> </ul>  | <ul style="list-style-type: none"> <li>Not identified</li> </ul>   | No forward forecasts currently available   |

### 3.4 Desired Levels of Service

At present, indications of desired levels of service are obtained from various sources including residents’ feedback to Councillors and staff, service requests and correspondence. Council has yet to quantify desired levels of service. This will be done as part of Councils’ future community consultation process and incorporated into future revisions of this asset management plan.

## 4. FUTURE DEMAND

### 4.1 Demand Forecast

Factors affecting demand include population change, changes in demographics, seasonal factors, vehicle ownership, consumer preferences and expectations, economic factors, agricultural practices, environmental awareness, etc.

There are no State Service Delivery Plans that may affect Councils future service delivery for this Asset Class.

Demand factor trends and impacts on service delivery are summarised in Table 4.1.

**Table 4.1: Demand Factors, Projections and Impact on Services**

| Demand factor | Present position   | Projection   | Impact on services   |
|---------------|--|--|--|
| Population    | <ul style="list-style-type: none"> <li>The population as at 2011 Census was 4,219<sup>4</sup></li> </ul> | <ul style="list-style-type: none"> <li>5,620<sup>5</sup> by 2026 (Band C), equates to a 33% increase.</li> </ul> | <ul style="list-style-type: none"> <li>Increased demand on community and recreation facilities.</li> </ul>   |
| Demographics  | <ul style="list-style-type: none"> <li>15.4% over 65<sup>4</sup></li> </ul>                              | <ul style="list-style-type: none"> <li>21% over 65 by 2026<sup>5</sup></li> </ul>                                | <ul style="list-style-type: none"> <li>Increased demand for aged housing and seniors centre.</li> <li>Increased demand for HACC services.</li> </ul> |

### 4.2 Changes in Technology

It is considered that technology changes will have little effect on the delivery of services covered by this plan. Those changes related to climate change, energy consumption, water use and reuse are subject to ongoing consideration. Significant impacts resulting from technology changes will be qualified in future revisions of this Buildings & Structures Asset Management Plan.

### 4.3 Demand Management Plan

Demand for new services will be managed through a combination of managing existing assets, upgrading of existing assets, leasing of facilities, shared service arrangements, providing new assets to meet demand, and demand management. Demand management practices include alternate service delivery solutions, insuring against risks and managing failures.

Alternate service delivery solutions focus on providing the required service without the need for the council to own the assets. Examples of alternate service delivery solutions may include providing services from existing infrastructure such as aquatic centres and libraries that may be in another council area or public toilets provided in commercial premises.

Opportunities identified to date for demand management are shown in Table 4.3. Further opportunities will be developed in future revisions of this asset management plan.

<sup>4</sup> Source: ABS 2011 Census.

<sup>5</sup> Source: “WA Tomorrow Report”, 2012 – WA Planning Commission

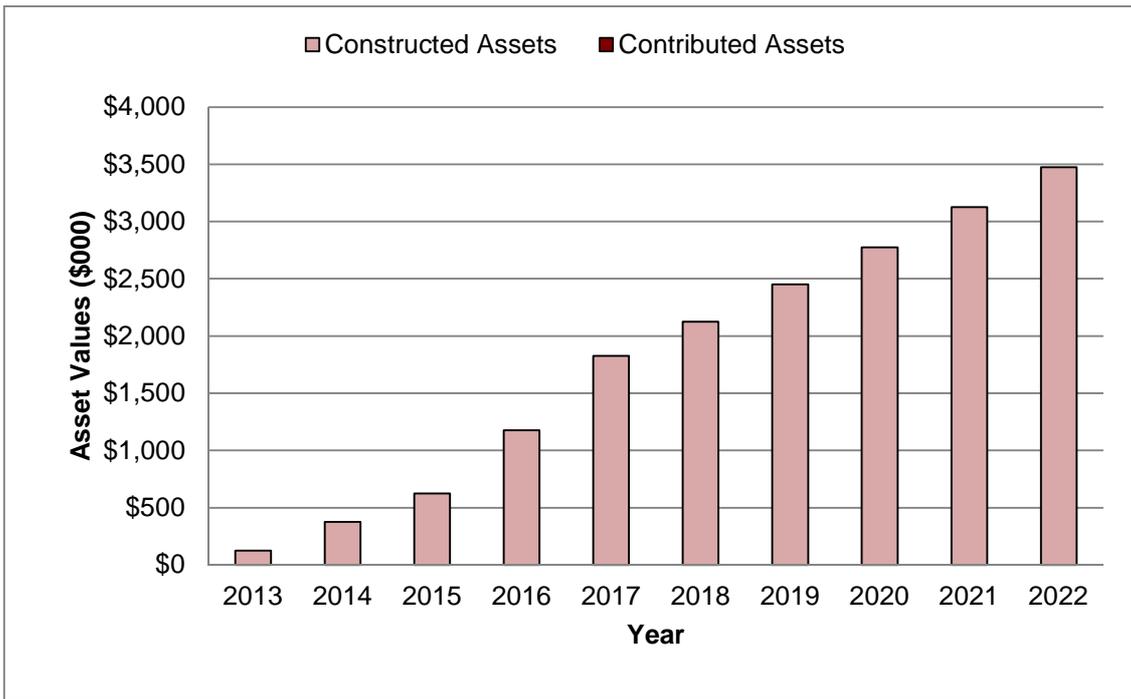
**Table 4.3: Demand Management Plan Summary**

| Service Activity | Demand Management Plan  |
|------------------|---|
| Buildings        | Encourage sharing of facilities to avoid duplication.   |
| Buildings Review | Review current building stocks, use levels and patterns to optimise utilisation/performance of existing assets. |

#### 4.4 New Assets for Growth

There are no projected new contributed building assets as a result of growth.

**Figure 1: New Assets from growth**



## 5. LIFECYCLE MANAGEMENT PLAN

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

### 5.1 Background Data

#### 5.1.1 Physical parameters

The buildings and structures assets covered by this asset management plan are shown in Table 5.1.

**Table 5.1**

| <b>Building Asset Category</b>  | <b>Number</b> |
|---|---------------|
| Amenity Buildings   | 10            |
| Civic & Corporate Buildings (Civic Centre, Works Depot Operations Centre)                     | 8             |
| Residential Buildings (Staff and Aged)  | 1             |
| Community Buildings (Community Halls, Libraries, Health, Family and Education Centres)        | 14            |
| Recreation Buildings and Infrastructure (Clubrooms, Recreation Centres, Swimming Pools)       | 24            |
| Waste Buildings (Refuse Site and Transfer Stations)   | 3             |
| Airport Buildings (Buildings and structures associated with an airport or airfield facility)  | 0             |
| Heritage Buildings (those buildings listed on the National, State or local heritage register) | 3             |
| Other Structures (Transmission aerials, tourism structures, reticulation, etc)                | 102           |
| <b>TOTAL</b>  | <b>165</b>    |

A brief description of the different asset groups that make up the building and structures assets are provided below:

Amenity Buildings –

- One ablution building located at Gnarojin Park, Gordon Street, Narrogin with a condition rating of Fair.
- One ablution building located at Coles Car Park, Smith Street, Narrogin with a condition rating of Fair.
- Two ablution buildings located at Caravan Park, Williams Road, Narrogin with a condition rating of Fair.
- One ablution building and changerooms located at Thomas Hogg Oval, Bannister Street, Narrogin with a condition rating of Fair.
- One ablution building located at Clayton Oval, Clayton Road, Narrogin with a condition rating of Fair.
- One ablution building located at Narrogin Leisure Complex, Clayton Road, Narrogin with a condition rating of Fair.
- One ablution building located at Courthouse Museum, Harris Street, Narrogin with a condition rating of Fair.
- One ablution building and store located at Bowling Club, Earl Street, Narrogin with a condition rating of Fair-Minus.
- One ablution building located at Lions Park, Federal Street, Narrogin with a condition rating of Good.

#### Civic & Corporate Buildings -

- One administration centre located at 95 Earl Street, Narrogin, with a condition rating of Fair.
- One gardeners store located at Memorial Park, Cnr Fortune Street and Williams Road, Narrogin with a condition rating of Fair.
- One municipal power house located at 33-37 Fairway Street, Narrogin, with a condition rating of Fair.
- One machinery shed located at Municipal Power House, 33-37 Fairway Street, Narrogin, with a condition rating of Fair.
- Two large sheds located at Municipal Power House, 33-37 Fairway Street, Narrogin, with a condition rating of Fair-Minus.
- One plant building located at sewerage treatment plant, Palmer Street, Narrogin, with a condition rating of Fair.

#### Residential Buildings-

- One residential dwelling located at Caravan Park, Williams Road, Narrogin, with a condition rating of Fair.

#### Community Buildings -

- One Westpac building located at 42 Fortune Street, Narrogin, with a condition rating of Fair.
- One old ambulance building located at Egerton Street, Narrogin, with a condition rating of Fair-Minus.
- One ladies rest centre located at Mackie Park, Cnr Federal and Fortune Streets, Narrogin, with a condition rating of Fair.
- One transportable office located at Caravan Park, Williams Road, Narrogin, with a condition rating of Fair.
- One storage shed located at Caravan Park, Williams Road, Narrogin, with a condition rating of Fair.
- One camp kitchen located at Caravan Park, Williams Road, Narrogin, with a condition rating of Fair.
- One Shelter located at Narrogin Cemetery, Williams Road, Narrogin, with a condition rating of Fair.
- One bus shed located at Park Street, Narrogin, with a condition rating of Fair-Plus.
- One railway institute hall located at 105 Federal Street, Narrogin, with a condition rating of Fair.
- One 'Jessie House' Homecare Centre located at 30 Clayton Road, Narrogin, with a condition rating of Fair-Plus.
- One community garden (formerly Railway Institute Bowling Club) located at Hale Street, Narrogin, with a condition rating of Fair.
- One sheep sale shed located at Narrogin Leisure Complex, Clayton Road, Narrogin, with a condition rating of Fair.
- One poultry shed located at Clayton Road Oval, Clayton Road, Narrogin, with a condition rating of Fair.
- One senior citizens centre located at Park Street, Narrogin, with a condition rating of Fair.

#### Recreation Buildings -

- One machinery shed located at Clayton Road Oval, Clayton Road, Narrogin, with a condition rating of Fair.
- One grandstand located at Clayton Road Oval, Clayton Road, Narrogin, with a condition rating of Fair.
- One Swab building located at Narrogin Racecourse, Clayton Road, Narrogin, with a condition rating of Fair.
- One Tab building located at Narrogin Racecourse, Clayton Road, Narrogin, with a condition rating of Fair.
- One commentator and stewards box located at Narrogin Racecourse, Clayton Road, Narrogin, with a condition rating of Fair.
- One committee room located at Narrogin Racecourse, Clayton Road, Narrogin, with a condition rating of Fair.

- One parasol shelter located at Narrogin Racecourse, Clayton Road, Narrogin, with a condition rating of Fair.
- One yard stables located at Narrogin Racecourse, Clayton Road, Narrogin, with a condition rating of Fair.
- One John Higgins community complex located at Narrogin Leisure Complex, Clayton Road, Narrogin, with a condition rating of Fair.
- One recreation complex located at Narrogin Leisure Complex, Clayton Road, Narrogin, with a condition rating of Fair.
- One swimming club building located at Narrogin Leisure Complex, Clayton Road, Narrogin, with a condition rating of Fair.
- One football clubrooms located at Clayton Road Oval, Clayton Road, Narrogin, with a condition rating of Fair.
- One garage located at Clayton Road Oval, Clayton Road, Narrogin, with a condition rating of Fair.
- One Pavilion located at Narrogin Leisure Complex, Clayton Road, Narrogin, with a condition rating of Fair.
- One bowling club located at Earl Street, Narrogin, with a condition rating of Fair.
- One greenkeepers shed located at Bowling Club, Earl Street, Narrogin, with a condition rating of Fair.
- One croquet clubrooms located at Earl Street, Narrogin, with a condition rating of Fair.
- One sporting club located at Thomas Hogg Oval, Bannister Street, Narrogin, with a condition rating of Fair.
- One burnout bar located at Thomas Hogg Oval, Bannister Street, Narrogin, with a condition rating of Fair.
- One velodrome located at Thomas Hogg Oval, Bannister Street, Narrogin, with a condition rating of Fair.
- One club rooms located at Narrogin Golf Course, 2350 Williams-Kondinin Road, Narrogin, with a condition rating of Fair.
- One storage shed located at Narrogin Golf Course, 2350 Williams-Kondinin Road, Narrogin, with a condition rating of Good.
- One gardener's store located at Narrogin Golf Course, 2350 Williams-Kondinin Road, Narrogin, with a condition rating of Fair-Minus.

#### Waste Buildings-

- One transportable office located at Waste and Recycling Facility, White Road, Narrogin with a condition rating of Fair.
- One transportable shower located at Waste and Recycling Facility, White Road, Narrogin with a condition rating of Fair.
- One dog pound located at Waste and Recycling Facility, White Road, Narrogin with a condition rating of Fair.

#### Heritage Buildings & Structures-

- One town hall located at cnr Federal and Fortune Streets, Narrogin, with a condition rating of Fair.
- One courthouse museum located at cnr Egerton and Earl Streets, Narrogin, with a condition rating of Fair.
- One war memorial pavilion located at cnr Fortune Street and Williams Road, Narrogin, with a condition rating of Fair.

#### Other Structures-

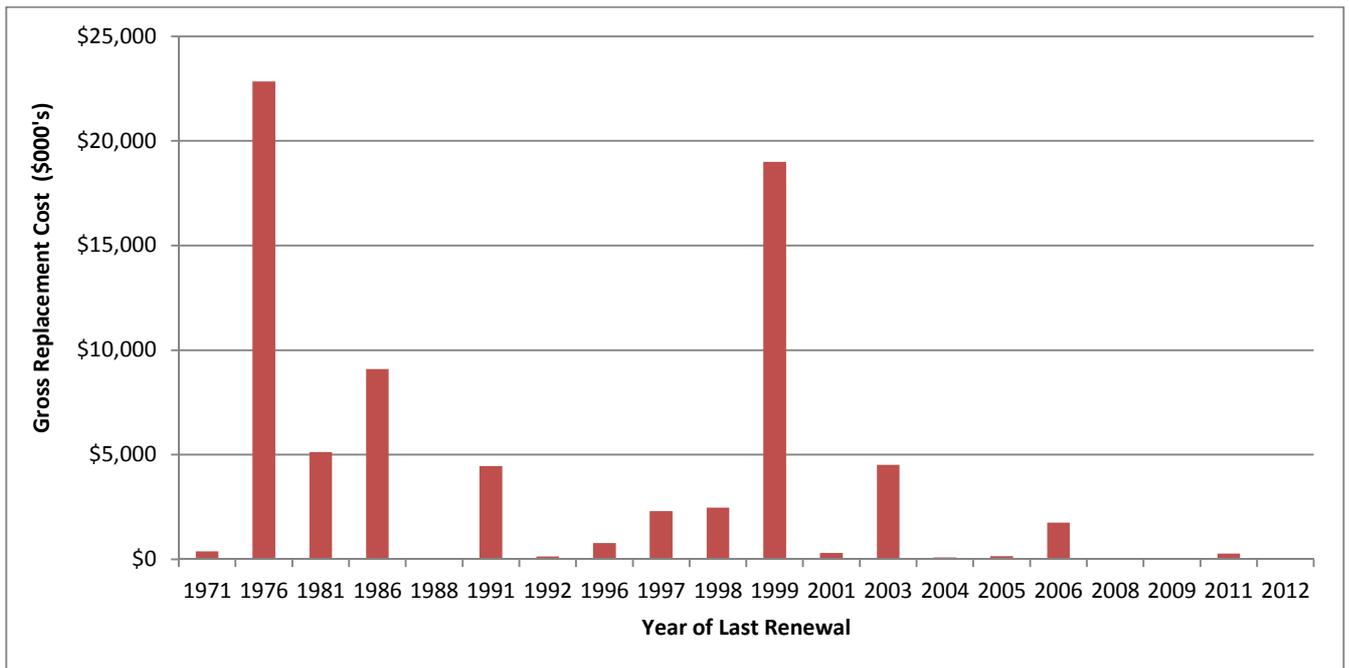
- Lighting, fencing, stone walls, gazebo and reticulation located at Mackie Park, corner Federal and Fortune Streets, Narrogin, with a condition rating of Fair.
- Newton House improvements located at Gnarojin Park, Gordon Street, Narrogin, with a condition rating of Fair.

- Shelter, water storage tank, reticulation, lighting, timber pine log fence and rammed earth walls, and flag pole located at Gnarojin Park, Gordon Street, Narrogin, with a condition rating of Fair.
- Timber fencing located at Gnarojin Park, Gordon Street, Narrogin, with a condition rating of Fair-Minus.
- Skate park located at Gnarojin Park, Gordon Street, Narrogin, with a condition rating of Fair-Plus.
- Lighting, shelter, seating and fencing located at Skate Park in Gnarojin Park, Gordon Street, Narrogin, with a condition rating of Fair.
- Three bridges located at Gnarojin Park, Gordon Street, Narrogin, with a condition rating of Fair.
- Goal posts, dug-outs, reticulation, burn-out track, fencing, crash rail, lighting and water storage tank located at Thomas Hogg Oval, Bannister Street, Narrogin, with a condition rating of Fair.
- Scoreboard and store located at Thomas Hogg Oval, Bannister Street, Narrogin, with a condition rating of Fair-Minus.
- Goal posts, practice cricket nets, reticulation, dug-outs, entry kiosk, security bollards, spectator fencing, lighting, water storage tank and scoreboard located at Clayton Oval, Clayton Road, Narrogin, with a condition rating of Fair.
- Perimeter fencing located at Clayton Oval, Clayton Road, Narrogin, with a condition rating of Fair-Minus.
- Perimeter fencing, niche memorial wall, and portable toilet located at Narrogin Cemetery, Williams Road, Narrogin, with a condition rating of Fair.
- Gazebos located at Narrogin Cemetery, Williams Road, Narrogin, with a condition rating of Good.
- Hockey pitch, lighting, pool shelters, fencing, reticulation and dug-outs located at Narrogin Leisure Complex, Clayton Road, Narrogin, with a condition rating of Fair.
- Cricket oval reticulation and cricket pitch located at Narrogin Leisure Complex, Clayton Road, Narrogin, with a condition rating of Fair.
- Gardener's store, barbecue, picnic table and seating, flag pole, drink fountain, water storage tank, and reticulation located at Narrogin Memorial Park, corner Fortune Street and Williams Road, Narrogin, with a condition rating of Fair.
- Memorial wall located at Narrogin Memorial Park, corner Fortune Street and Williams Road, Narrogin, with a condition rating of Fair.
- Steel mesh store, site fencing and signage located at Waste and Recycling Facility, White Road, Narrogin, with a condition rating of Fair.
- Lighting, fencing, stewards tower and reticulation located at Narrogin Racecourse, Clayton Road, Narrogin, with a condition rating of Fair.
- Plexipave tennis courts, lighting, shelter and basketball backboard located at Tennis Club, Clayton Road, Narrogin, with a condition rating of Fair.
- Bowling greens, lighting, fencing, shelters, flag poles, reticulation, brick retaining wall and water storage tank located at Bowling Club, Earl Street, Narrogin, with a condition rating of Fair.
- Fencing located at Bowling Club, Earl Street, Narrogin, with a condition rating of Fair-Minus.
- Greens, lighting, fencing, shelters, reticulation and garden sheds located at Croquet Club, Earl Street, Narrogin, with a condition rating of Fair.

- Fencing, lighting and storage shed located at Bannister Street Oval, Bannister Street, Narrogin, with a condition rating of Fair.
- Railway bridge and lighting located at Railway Station, Pioneer Drive, Narrogin, with a condition rating of Fair.
- Boardwalk located at Pioneer Drive, Narrogin, with a condition rating of Fair.
- Shade shelter, picnic tables and seating, barbecues, picnic shelters, fencing, solar lighting and second shade shelter located at Lions Park, Federal Street, Narrogin, with a condition rating of Fair-Plus.

The age profile of the assets included in this Buildings and Structures Asset Management Plan is shown in Figure 2.

**Figure 2: Asset Age Profile**



**Note:** The asset age profile has been determined from the information provided by AVP Valuers in relation to the condition assessment of each building and structure incorporated in the Plan. AVP in their report quantified the following-

- (1) Estimated Economic Working Life (EEWL); and
- (2) Estimated Remaining Life Years (ERLY).

The above figures were utilised to determine the age profile of each asset, based on the estimated last renewal date for each asset as follows-

$$2013 - (\text{EEWL} - \text{ERLY}) = \text{Age of Asset.}$$

### 5.1.2 Asset capacity and performance

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

For the purposes of identifying deficiencies per location, the table below has taken into account asset condition ratings of 'Fair-Minus' (4) and 'Poor'(5) – see Table 5.1.3 for condition rating definitions.

**Table 5.1.2: Known Service Performance Deficiencies**

| Location  | Condition Rating | Service Deficiency  |
|---|------------------|---|
| Westpac Building                                  | 4                | There are deficiencies with the internal wall and ceiling finishes.   |
| Old Ambulance Building                            | 4                | There are deficiencies with external walls & windows & doors, roof, building services, external services, internal walls & screens & doors, internal wall finishes, and ceiling finishes. |
| Gnarojin Park Toilet Block                        | 4                | There are deficiencies with internal wall finishes.   |
| Coles Car Park Toilet Block                       | 4                | There are deficiencies with ceiling finishes.   |
| Caravan Park Residence                            | 4                | There are deficiencies with external wall and windows and doors.  |
| Clayton Road Oval Football Toilet Block           | 4                | There are deficiencies with the roof, internal wall finishes and ceiling finishes.  |
| Town Hall   | 4                | There are deficiencies with the internal wall finishes.   |
| Courthouse Museum                                 | 4                | There are deficiencies with the external walls & windows & doors, internal wall finishes, and ceiling finishes.   |
| Railway Institute Hall                            | 4                | There are deficiencies with the internal wall finishes and internal floor finishes.   |
| Railway Institute Hall                            | 5                | There are deficiencies with the ceiling finishes.   |
| Showmen's Toilet Block – Leisure Complex          | 4                | There are deficiencies with the internal wall finishes and ceiling finishes.  |
| Recreation Centre                                 | 4                | There are deficiencies with the internal wall finishes, internal floor finishes, and ceiling finishes.  |
| Sheep Sale Shed                                   | 4                | There are deficiencies with the external walls & windows & doors.   |
| Poultry Shed                                      | 4                | There are deficiencies with the external walls & windows & doors.   |
| Toilet Block and Store – Bowling Club             | 4                | There are deficiencies with the external walls & windows & doors and roof.  |
| Croquet Clubrooms                                 | 4                | There are deficiencies with the ceiling finishes.   |
| Burn-Out Bar                                      | 4                | There are deficiencies with the external walls & windows & doors.   |
| Kevin Norwell Memorial Velodrome                  | 4                | There are deficiencies associated with external walls & windows & doors.  |
| Gardener's Store – Golf Club                      | 4                | There are deficiencies with the footings & framework, external walls & windows & doors, and roof.   |
| Shed # 1 – Municipal Power House                  | 4                | There are deficiencies associated with the footings & framework, external walls & windows & doors, roof, building services, and internal walls & screens & doors.                         |
| Shed # 2 – Municipal Power House                  | 4                | There are deficiencies associated with the footings & framework, external walls & windows & doors, roof, and building services.   |
| Senior Citizens Centre                            | 4                | There are deficiencies associated with the ceiling finishes.  |
| Transportable Office – Waste & Recycling Facility | 4                | There are deficiencies with the ceiling finishes.   |
| Timber Fencing – Gnarojin Park                    | 4                | There are deficiencies with the timber fencing structure.   |
| Scoreboard – Thomas Hogg Oval                     | 4                | There are deficiencies with the scoreboard structure.   |
| Store – Thomas Hogg Oval                          | 4                | There are deficiencies with the store structure.  |

| Location                              | Condition Rating | Service Deficiency   |
|---------------------------------------|------------------|--|
| Perimeter Fencing – Clayton Road Oval | 4                | There are deficiencies with the perimeter fencing structure. |
| Asbestos Fencing – Bowling Club       | 4                | There are deficiencies with the asbestos fencing structure.  |

**Note** - It is noted that the above deficiencies to building components will have changes as a result of building asset renewal works undertaken during the 2012/13 financial year.

**Source** - The information in the above table was sourced from the condition report provided by AVP Valuers in October 2012.

It is intended that further inspections will be completed of the above buildings and structures in order to ascertain whether they will be retained. Where a decision to retain is made, specific works to be undertaken will be identified, costs estimates will then be determined and urgency of repairs or renewals will made.

### 5.1.3 Asset condition

Condition is measured using a 1 – 5 rating system<sup>6</sup> as detailed in Table 5.1.3.

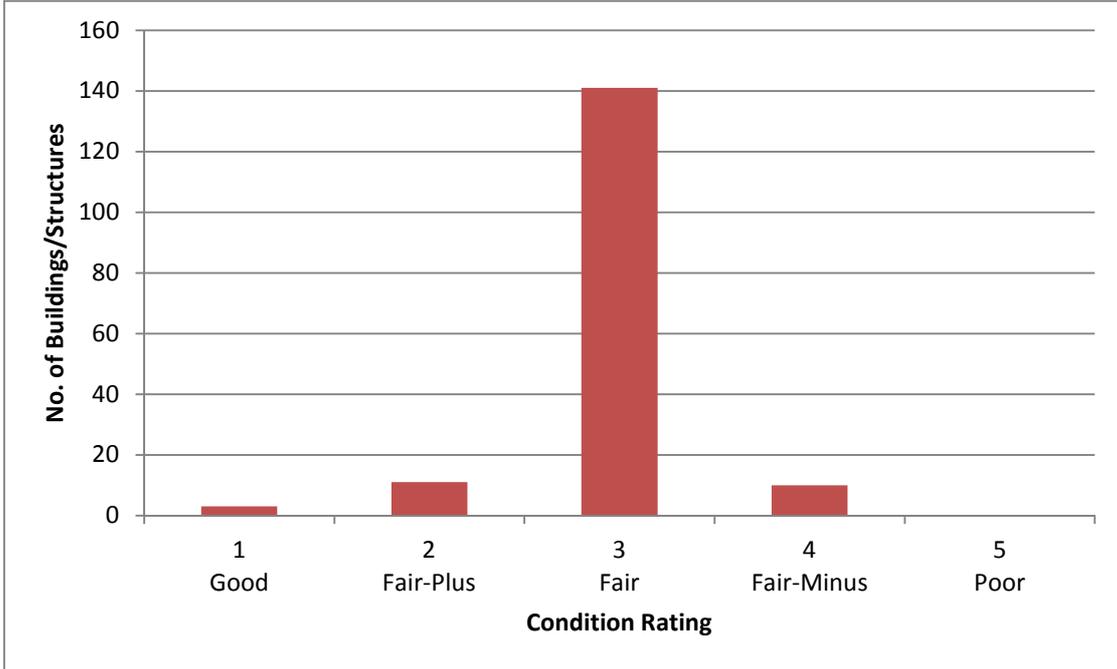
**Table 5.1.3: Condition Rating Description**

| Condition Rating | Description   |
|------------------|---|
| 1                | Good: Building is new or has been extensively re-modelled and modernised. 91%-100% remaining of Estimated Economic Working Life.          |
| 2                | Fair-Plus: Building has been well maintained and has possibly been refurbished. 71%-90% remaining of Estimated Economic Working Life.     |
| 3                | Fair: Building has been regularly maintained throughout. 21%-70% remaining of Estimated Economic Working Life.                            |
| 4                | Fair-Minus: Building in need of overall maintenance – no obvious structural defects. 6%-20% remaining of Estimated Economic Working life. |
| 5                | Poor: Building in disrepair or uninhabitable with possible structural problems – 0%-5% remaining of Estimated Economic Working Life.      |

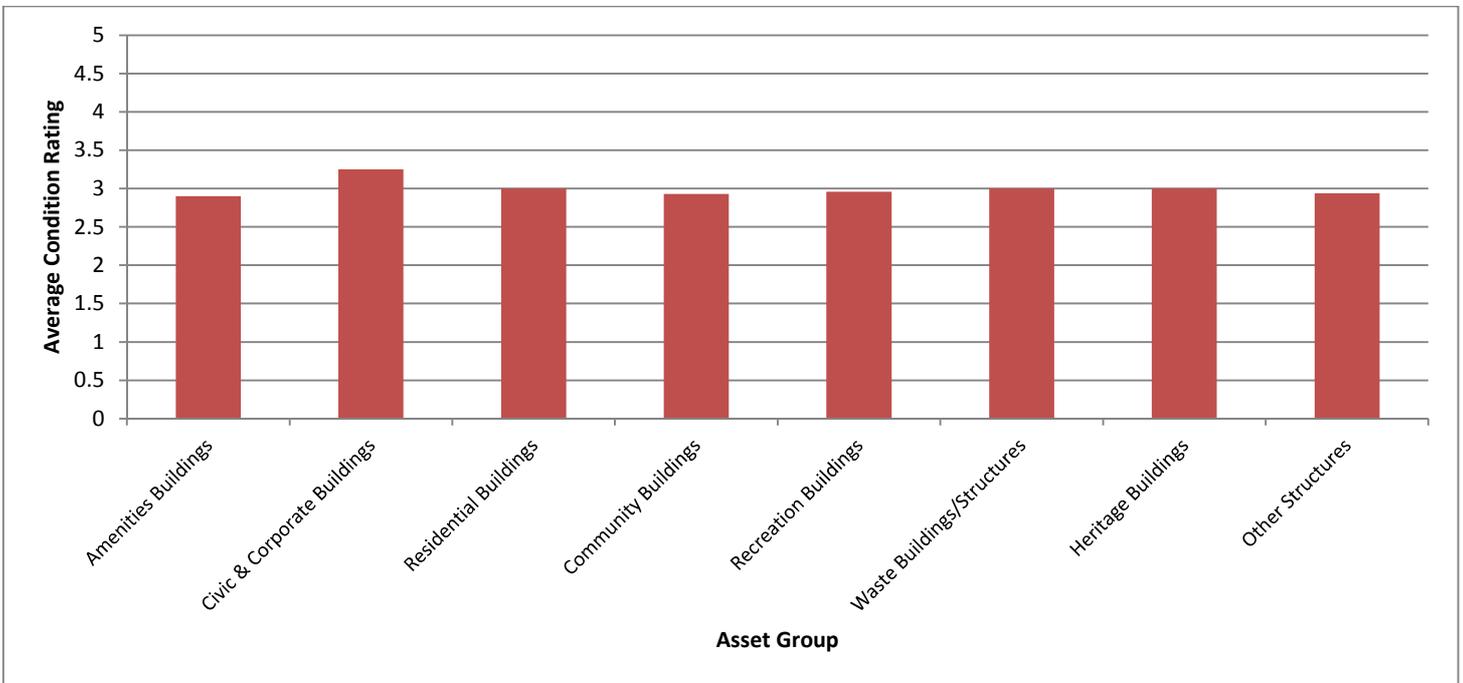
<sup>6</sup> IIMM 2006, Appendix B, p B:1-3 ('cyclic' modified to 'planned', 'average' changed to 'fair')

The condition profile of assets included within this AM Plan is shown in Figures 3 and 3A.

**Figure 3: Asset Condition Profile**



**Figure 3A: Building Assets Average Condition Profile By Asset Group**



#### 5.1.4 Asset valuations

The value of assets recorded in the asset register as at 31 August 2012 covered by this asset management plan is shown below.

|                              |              |
|------------------------------|--------------|
| Current Replacement Cost     | \$73,819,850 |
| Depreciable Amount           | \$36,920,350 |
| Depreciated Replacement Cost | \$36,920,350 |
| Annual Depreciation Expense  | \$1,628,383  |

Council’s sustainability reporting reports the rate of annual asset consumption and compares this to asset renewal and asset upgrade and expansion.

|  |      |
|--|------|
| Asset Consumption<br>(Depreciation/Depreciable Amount)         | 4.4% |
| Asset renewal<br>(Capital renewal exp/Depreciable amount)      | 3.0% |
| Annual Upgrade/New<br>(Capital upgrade exp/Depreciable amount) | 0.3% |
| Annual Upgrade/New<br>(including contributed assets)           | 0.3% |

Council is currently renewing assets at 67.3% of the rate they are being consumed and increasing its asset stock by 0.3% each year.

To provide services in a financially sustainable manner, Council will need to ensure that it is renewing assets at the rate they are being consumed over the medium-long term and funding the life cycle costs for all new assets and services in its long term financial plan.

#### 5.1.5 Asset hierarchy

An asset hierarchy provides a framework for structuring data in an information system to assist in collection of data, reporting information and making decisions. The hierarchy includes the asset class and component used for asset planning and financial reporting and service level hierarchy used for service planning and delivery.

Council’s service hierarchy is shown is Table 5.1.5.

**Table 5.1.5: Asset Service Hierarchy**

| Service Hierarchy    | Definition  | Service Level Objective  |
|----------------------|---|--|
| Category 1 – Premium | High use business critical facilities essential to service delivery, (Main buildings used to run the Councils operations) | <ul style="list-style-type: none"> <li>▪ <b>Aesthetics</b> – As new or highest quality reasonably achieved.</li> <li>▪ <b>Functionality</b> – All elements must function as intended at all times, with no down time tolerated during periods of intended use.</li> <li>▪ <b>Legislative Requirements</b> – All legal responsibility must be met.</li> <li>▪ <b>Financial</b> – Maximum efficiency of maintenance and cleaning operations is required, to minimise expenditure in achieving the desired outcomes.</li> </ul> |
| Category 2 – High    | High use facilities essential to service delivery, (Buildings   | <ul style="list-style-type: none"> <li>▪ <b>Aesthetics</b> – Minor signs or deterioration when viewed closely may be acceptable. No deterioration when viewed form normal distance. Some deterioration may be tolerated for</li> </ul>   |

| Service Hierarchy           | Definition  | Service Level Objective  |
|-----------------------------|---|--|
|                             | which are used for Council business purposes).  | short period of time. <ul style="list-style-type: none"> <li>▪ <b>Functionality</b> – All elements must function as intended during periods of intended use, with a low probability of failure.</li> <li>▪ <b>Legislative Requirements</b> – All legal responsibility must be met.</li> <li>▪ <b>Financial</b> – Primary aim is to maximise the long term economic performance of the facility. Refurbishments, equipment replacements and maintenance planning should be above current standards to provide a high level of service and aesthetics.</li> </ul>  |
| Category 3 – Standard       | Medium use and key facilities important to service delivery. (Major Council buildings that have a predominant community use focus).                               | <ul style="list-style-type: none"> <li>▪ <b>Aesthetics</b> – Some minor signs of deterioration when viewed from normal distance are acceptable.</li> <li>▪ <b>Functionality</b> – All required elements should function as intended during period of intended use. Minor failures, excluding those which bring a threat to safety or security, can be tolerated.</li> <li>▪ <b>Legislative Requirements</b>– All legal responsibility must be met.</li> <li>▪ <b>Financial</b> - Primary aim is to maximise the long term economic performance of the facility. Refurbishments, equipment replacements and maintenance planning should be in a strategic framework, and decision taken on a life cycle basis.</li> </ul> |
| Category 4 – Low            | Medium to low use facilities that assist in improving service delivery (Minor Council buildings that have a community use focus or are used by community groups). | <ul style="list-style-type: none"> <li>▪ <b>Aesthetics</b> – Some signs of deterioration are acceptable.</li> <li>▪ <b>Functionality</b> – All elements requirement should function as intended during periods of intended use. Minor failures, excluding those which bring a threat to safety or security, can be tolerated.</li> <li>▪ <b>Legislative Requirements</b> – All legal responsibility must be met.</li> <li>▪ <b>Financial</b> – Limitation of short term maintenance costs is the primary objective.</li> </ul>   |
| Category 5 – Infrequent Use | Infrequent use facilities.  | <ul style="list-style-type: none"> <li>▪ <b>Aesthetics</b> – Not important.</li> <li>▪ <b>Functionality</b> – No requirement to retain any functional performance except to avoid degradation of asset value.</li> <li>▪ <b>Legislative Requirements</b> – All legal responsibility must be met.</li> <li>▪ <b>Financial</b> – Limitation of maintenance costs is the primary objective.</li> </ul>  |

## 5.2 Risk Management Plan

An assessment of risks associated with service delivery from infrastructure assets has identified critical risks that will result in loss or reduction in service from infrastructure assets or a ‘financial shock’ to the organisation. 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.

The buildings and structures listed in table 5.1.2 with a condition rating of 4 (Fair-Minus) do not pose a significant risk for the Council or to the community at this point in time.

Critical risks, being those assessed as ‘Very High’ - requiring immediate corrective action and ‘High’ – requiring prioritised corrective action identified in the Infrastructure Risk Management Plan are summarised in Table 5.2.

**Table 5.2: Critical Risks and Treatment Plans**

| Service or Asset at Risk       | What can Happen   | Risk Rating (VH, H) | Risk Treatment Plan   | Associated Costs   |
|--------------------------------|---|---------------------|---|--------------------|
| Community Buildings            | Fire  | H                   | To provide and maintain adequate fire protection systems in all public buildings.                         | To be investigated |
| Recreation Buildings           | Drowning/Accidents  | H                   | To provide adequate warning signage around facilities to raise awareness of risk of drowning              | To be investigated |
| Residential Buildings          | Fire/death  | H                   | Hard wired smoke detectors and regular servicing.   | To be investigated |
| All Buildings                  | Lack of funding provision for maintenance, operations and renewal activities resulting in declining asset condition | H                   | Ensure adequate annual funding is allocated for the maintenance, operation and renewal of building assets | To be investigated |
| All Buildings                  | Lack of maintenance inspections   | H                   | Ensure building maintenance inspections are conducted annually  | To be investigated |
| Buildings in flood prone areas | Flooding  | M                   | Clean up afterwards.  | To be investigated |

### 5.3 Routine Maintenance Plan

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.

#### 5.3.1 Maintenance plan

Maintenance includes reactive, planned and specific maintenance work activities.

Reactive maintenance is unplanned repair work carried out in response to service requests and management/supervisory directions.

Planned maintenance is repair work that is identified and managed through a maintenance management system (MMS). MMS activities include inspection, assessing the condition against failure/breakdown experience, prioritising, scheduling, actioning the work and reporting what was done to develop a maintenance history and improve maintenance and service delivery performance.

Specific maintenance is replacement of higher value components/sub-components of assets that is undertaken on a regular cycle including repainting, building roof replacement, etc. This work generally falls below the capital/maintenance threshold but may require a specific budget allocation.

Actual past operations and maintenance expenditure is shown in Table 5.3.1.

**Table 5.3.1: Operations and Maintenance Expenditure Trends**

| Year      | Operations & Maintenance Expenditure |
|-----------|--------------------------------------|
| 2010/2011 | \$680,000                            |
| 2011/2012 | \$716,582                            |
| 2012/2013 | \$747,458                            |

Current maintenance expenditure levels are considered to be inadequate to meet required service levels. Future revision of this asset management plan will include linking required maintenance expenditures with required service levels. Assessment and prioritisation of reactive maintenance is undertaken by operational staff using experience and judgement.

**5.3.2 Standards and specifications**

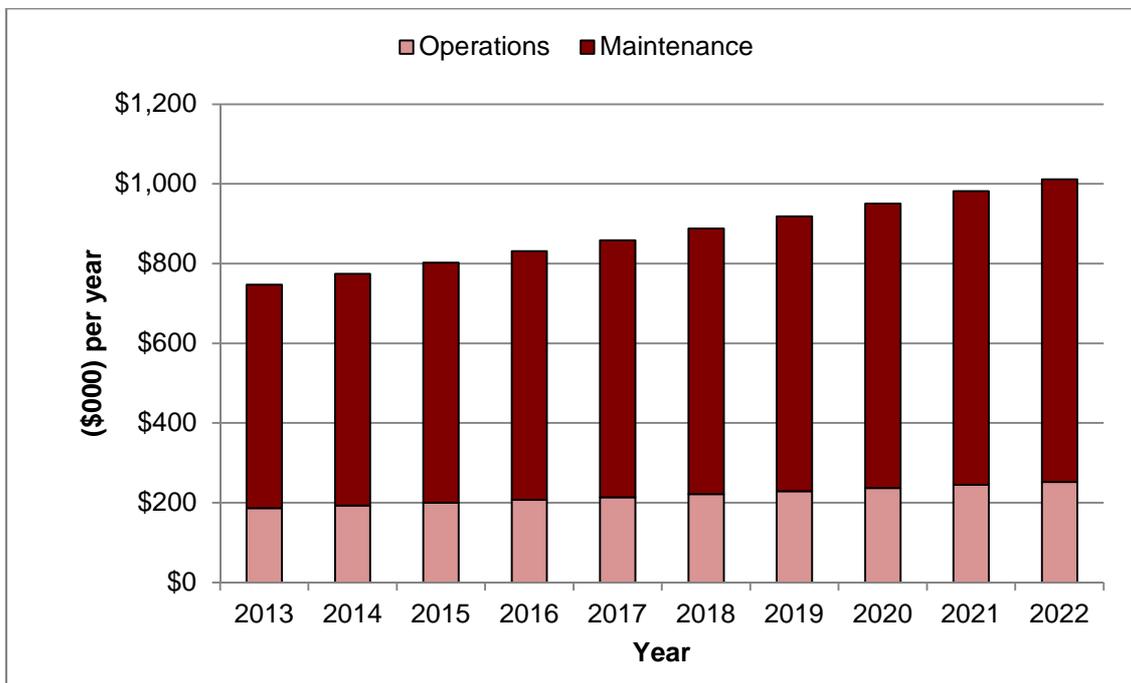
Maintenance work is carried out in accordance with the following Standards and Specifications.

- Applicable Australian Standards
- Building Code of Australia; and
- Acceptable standards of construction.

**5.3.3 Summary of future operations and maintenance expenditures**

Future operations and maintenance expenditure is forecast to trend in line with the value of the asset stock as shown in Figure 4. Note that all costs are shown in 2013 dollar values.

**Figure 4: Projected Operations and Maintenance Expenditure**



Deferred maintenance, ie works that are identified for maintenance and unable to be funded are to be included in the risk assessment process in the infrastructure risk management plan.

Maintenance is funded from the operating budget and grants where available. This is further discussed in Section 6.2.

## 5.4 Renewal/Replacement Plan

Renewal 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 service potential. Work over and above restoring an asset to original service potential is upgrade/expansion or new works expenditure.

### 5.4.1 Renewal plan

Assets requiring renewal are identified from one of three methods provided in the ‘Expenditure Template’.

- Method 1 uses Asset Register data to project the renewal costs for renewal years using acquisition year and useful life, or
- Method 2 uses capital renewal expenditure projections from external condition modelling systems (such as Pavement Management Systems), or
- Method 3 uses a combination of average *network renewals* plus *defect repairs* in the *Renewal Plan* and *Defect Repair Plan* worksheets on the ‘Expenditure template’.

Method 3 was used for this asset management plan.

The Town does not have any ranking system or criteria for renewal. It is envisaged that this feature will be a key area for development in the next revision of this Plan. It is proposed that the criteria below will be considered in this development.

**Table 5.4.1: Renewal Priority Ranking Criteria**

| Criteria                        | Weighting   |
|---------------------------------|-------------|
| Safety and Accessibility        | 20          |
| Asset Usage                     | 20          |
| Current Asset Condition         | 10          |
| Community Need                  | 20          |
| Operating & Maintenance Cost    | 20          |
| Existence of viable alternative | 10          |
| <b>Total</b>                    | <b>100%</b> |

Renewal will be undertaken using ‘low-cost’ renewal methods where practical. The aim of ‘low-cost’ renewals is to restore the service potential or future economic benefits of the asset by renewing the assets at a cost less than replacement cost. Examples of low cost renewal include minor repair of an asset rather than a major replacement (e.g. replace a section of roof sheeting as opposed to replacing all of the roofing material).

### 5.4.2 Renewal standards

Renewal work is carried out in accordance with the following Standards and Specifications.

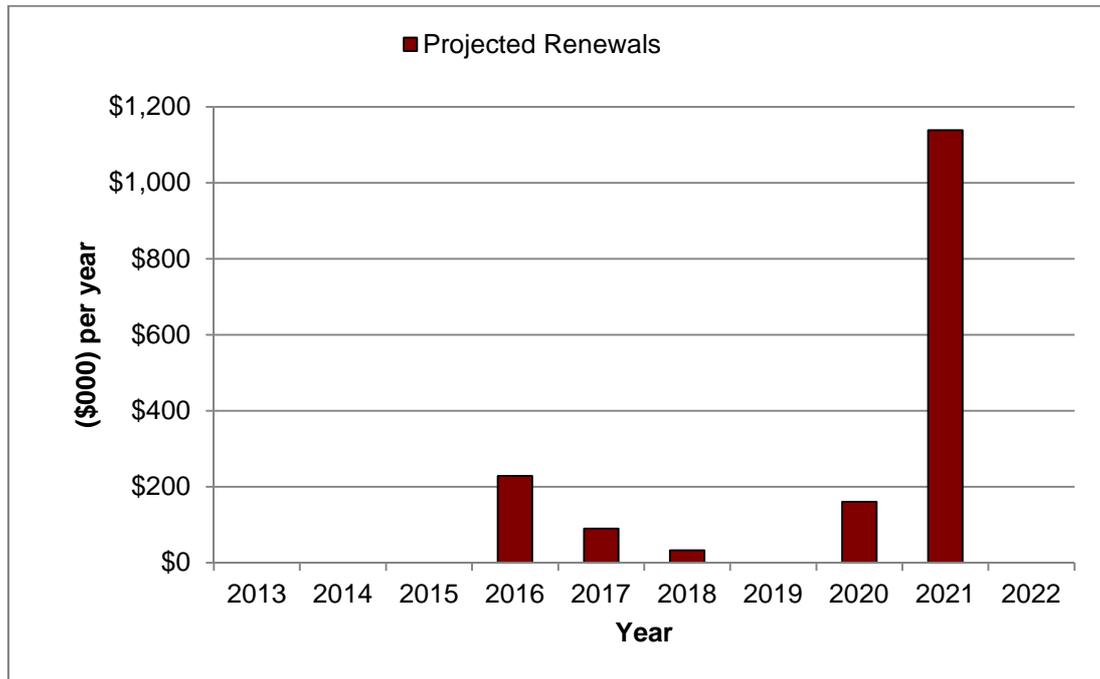
|   |   |
|---|---|
| Building Code of Australia                | Sets out the acceptable standards and are deemed to satisfy provisions for building work both residential and commercial. |
| Timber Framing AS1684                     | Sets out design and construction of timber framing  |
| Concrete Structures AS3600                | Sets out all concrete and masonry requirements for maintenance.   |
| Plumbing and Drainage AS3500              | Sets out all requirements needed for plumbing and drainage.   |
| Town of Narrogin Tenancy/Lease Agreements | Sets out the responsibilities of the Town of Narrogin in relation to those buildings under lease/rent.                    |

### 5.4.3 Summary of projected renewal expenditure

Projected future renewal expenditures are forecast to increase over time as the asset stock ages. The costs are summarised in Figure 5. Note that all costs are shown in 2013 dollar values.

The projected capital renewal program is shown in Appendix B.

**Figure 5: Projected Capital Renewal Expenditure**



Deferred renewal, ie those assets identified for renewal and not scheduled for renewal in capital works programs are to be included in the risk assessment process in the risk management plan. Renewals are to be funded from capital works programs and grants where available. This is further discussed in Section 6.2.

## 5.5 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 Council from land development. These assets from growth are considered in Section 4.4.

### 5.5.1 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 estimate. Verified proposals are ranked by priority and available funds and scheduled in future works programmes. The priority ranking criteria is detailed in Table 5.5.1.

**Table 5.5.1: Upgrade/New Assets Priority Ranking Criteria**

| Criteria  | Weighting   |
|---|-------------|
| Strategic Community Plan Objectives                         | 15          |
| Regulatory Change (including environmental criteria)        | 20          |
| Community Expectation (Current vs. Future Level of Service) | 10          |
| Funding Availability  | 45          |
| <b>Total</b>  | <b>100%</b> |

### 5.5.2 Standards and specifications

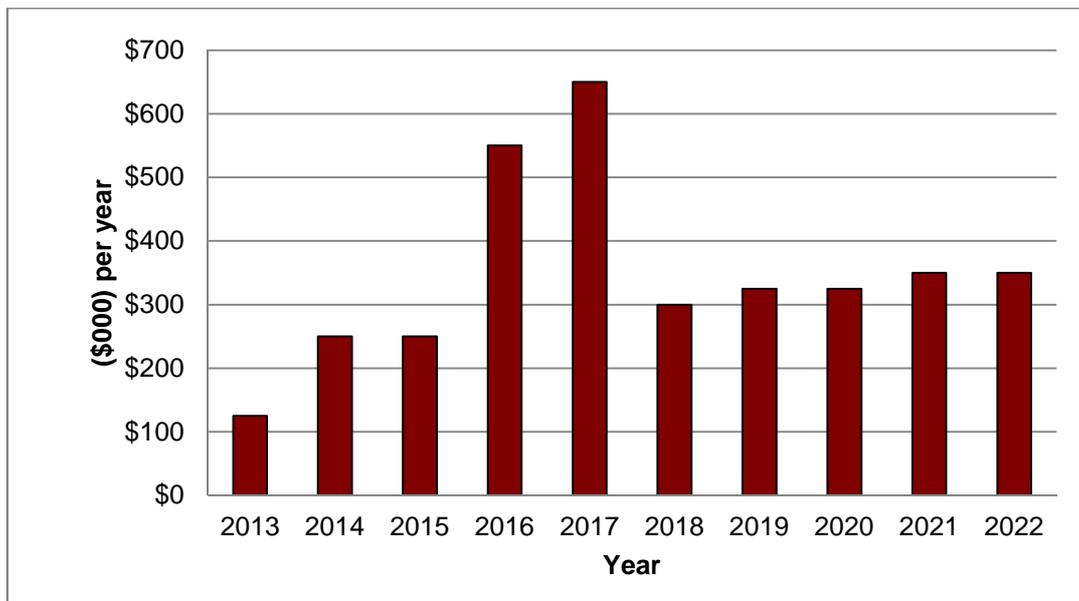
Standards and specifications for new assets and for upgrade/expansion of existing assets are as follows-

|   |   |
|---|---|
| Building Code of Australia                | Sets out the acceptable standards and are deemed to satisfy provisions for building work both residential and commercial. |
| Timber Framing AS1684                     | Sets out design and construction of timber framing  |
| Concrete Structures AS3600                | Sets out all concrete and masonry requirements for maintenance.   |
| Plumbing and Drainage AS3500              | Sets out all requirements needed for plumbing and drainage.   |
| Town of Narrogin Tenancy/Lease Agreements | Sets out the responsibilities of the Town of Narrogin in relation to those buildings under lease/rent.                    |

### 5.5.3 Summary of projected upgrade/new assets expenditure

Projected upgrade/new asset expenditures are summarised in Figure 6. The projected upgrade/new capital works program is shown in Appendix C. All costs are shown in current 2013 dollar values.

**Figure 6: Projected Capital Upgrade/New Asset Expenditure**



New assets and services are to be funded from capital works program and grants where available. This is further discussed in Section 6.2.

### 5.6 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 Table 5.6, together with estimated annual savings from not having to fund operations and maintenance of the assets. These assets will be further reinvestigated to determine the required levels of service and see what options are available for alternate service delivery, if any.

Cashflow projections from asset disposals are not available, these will be developed in future revisions of this asset management plan.

**Table 5.6: Assets identified for Disposal**

| <b>Asset</b> | <b>Reason for Disposal</b> | <b>Timing</b> | <b>Net Disposal Expenditure (Expend +ve, Revenue -ve)</b> | <b>Operations &amp; Maintenance Annual Savings</b> |
|--------------|----------------------------|---------------|---|--|
|              |                            |               | \$0   | \$0  |

The Town of Narrogin is in the process of further reviewing its buildings and structures asset portfolio; particularly in relation to the current and potential future use of each asset, with a view of determining those assets that are underutilised or not required for service delivery purposes and may be disposed of.

## 6. FINANCIAL SUMMARY

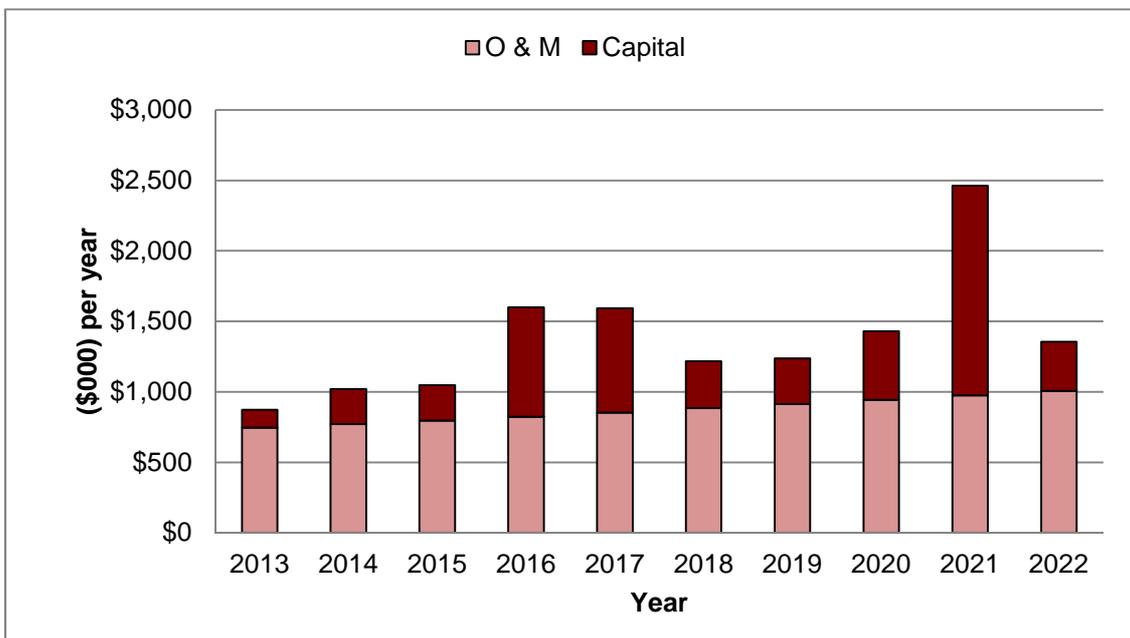
This section contains the financial requirements resulting from all the information presented in the previous sections of this asset management plan. The financial projections will be improved as further information becomes available on desired levels of service and current and projected future asset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

### 6.1 Financial Statements and Projections

The financial projections are shown in Figure 7 for projected operating (operations and maintenance) and capital expenditure (renewal and upgrade/expansion/new assets), net disposal expenditure and estimated budget funding.

Note that all costs are shown in 2013 dollar values.

**Figure 7: Projected Operating and Capital Expenditure**



#### 6.1.1 Financial sustainability in service delivery

There are three key indicators for financial sustainability that have been considered in the analysis of the services provided by this asset category, these being long term life cycle costs/expenditures and medium term projected/budgeted expenditures over 5 and 10 years of the planning period.

##### **Long term - Life Cycle Cost**

Life cycle costs (or whole of life costs) are the average costs that are required to sustain the service levels over the longest asset life. Life cycle costs include operations and maintenance expenditure and asset consumption (depreciation expense). The life cycle cost for the services covered in this asset management plan is \$2,375,000 per year (operations and maintenance expenditure plus depreciation expense in year 1).

Life cycle costs can be compared to life cycle expenditure to give an indicator of sustainability in service provision. Life cycle expenditure includes operations, maintenance and capital renewal expenditure in year 1. Life cycle expenditure will vary depending on the timing of asset renewals. The life cycle expenditure at the start of the plan is \$1,843,000 (operations and maintenance expenditure plus budgeted capital renewal expenditure in year 1).

A shortfall between life cycle cost and life cycle expenditure is the life cycle gap.

The life cycle gap for services covered by this asset management plan is **(\$532,000)** per year (-ve = gap, +ve = surplus).

Life cycle expenditure is 78% of life cycle costs giving a life cycle sustainability index of 0.78.

The life cycle costs and life cycle expenditure comparison highlights any difference between present outlays and the average cost of providing the service over the long term. If the life cycle expenditure is less than that life cycle cost, it is most likely that outlays will need to be increased or cuts in services made in the future.

Knowing the extent and timing of any required increase in outlays and the service consequences if funding is not available will assist organisations in providing services to their communities in a financially sustainable manner. This is the purpose of the asset management plans and long term financial plan.

**Medium term – 10 year financial planning period**

This asset management plan identifies the projected operations, maintenance and capital renewal expenditures required to provide an agreed level of service to the community over a 10 year period. This provides input into 10 year financial and funding plans aimed at providing the required services in a sustainable manner.

These projected expenditures may be compared to budgeted expenditures in the 10 year period to identify any funding shortfall. In a core asset management plan, a gap is generally due to increasing asset renewals for ageing assets.

The projected operations, maintenance and capital renewal expenditure required over the 10 year planning period is \$1,036,000 per year.

Estimated (budget) operations, maintenance and capital renewal funding is \$1,094,000 per year giving a 10 year funding surplus of \$58,000 per year and a 10 year sustainability indicator of 1.06. This indicates that Council has 106% of the projected expenditures needed to provide the services documented in the asset management plan.

**Short term – 5 year financial planning period**

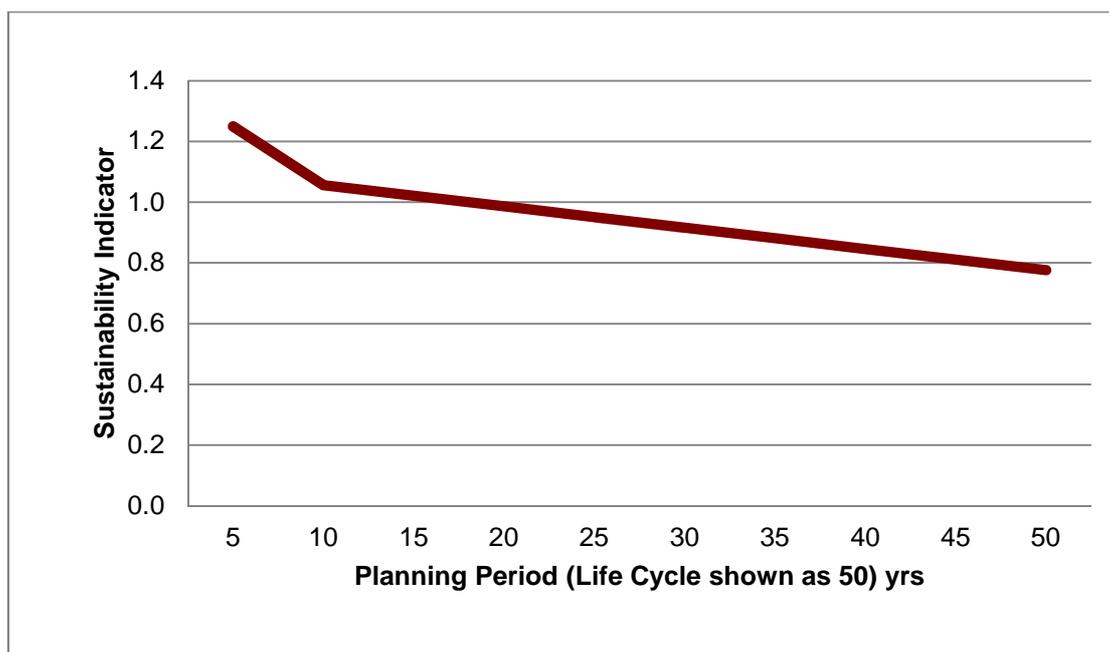
The projected operations, maintenance and capital renewal expenditure required over the first 5 years of the planning period is \$862,000 per year.

Estimated (budget) operations, maintenance and capital renewal funding is \$1,076,000 per year giving a 5 year funding surplus of \$215,000. This is 125% of projected expenditures giving a 5 year sustainability indicator of 1.25.

**Financial Sustainability Indicators**

Figure 7A shows the financial sustainability indicators over the 10 year planning period and for the long term life cycle.

**Figure 7A: Financial Sustainability Indicators**



Providing services from infrastructure in a sustainable manner requires the matching and managing of service levels, risks, projected expenditures and funding to achieve a financial sustainability indicator of 1.0 for the first years of the asset management plan and ideally over the 10 year life of the AM Plan.

This first cut core Asset Management Plan has been prepared based on the long term financial planning the Town currently has in place, which shows a misalignment between the projected renewals required and what renewals are proposed to be funded. The Town will need to align its planned renewals in its Long Term Financial Plan with those identified in this Asset Management Plan, to achieve a better sustainability ratio.

Figure 8 shows the projected asset renewals in the 10 year planning period from Appendix B. The projected asset renewals are compared to budgeted renewal expenditure in the capital works program and capital renewal expenditure in year 1 of the planning period in Figure 8.

**Figure 8: Projected and Budgeted Renewal Expenditure**

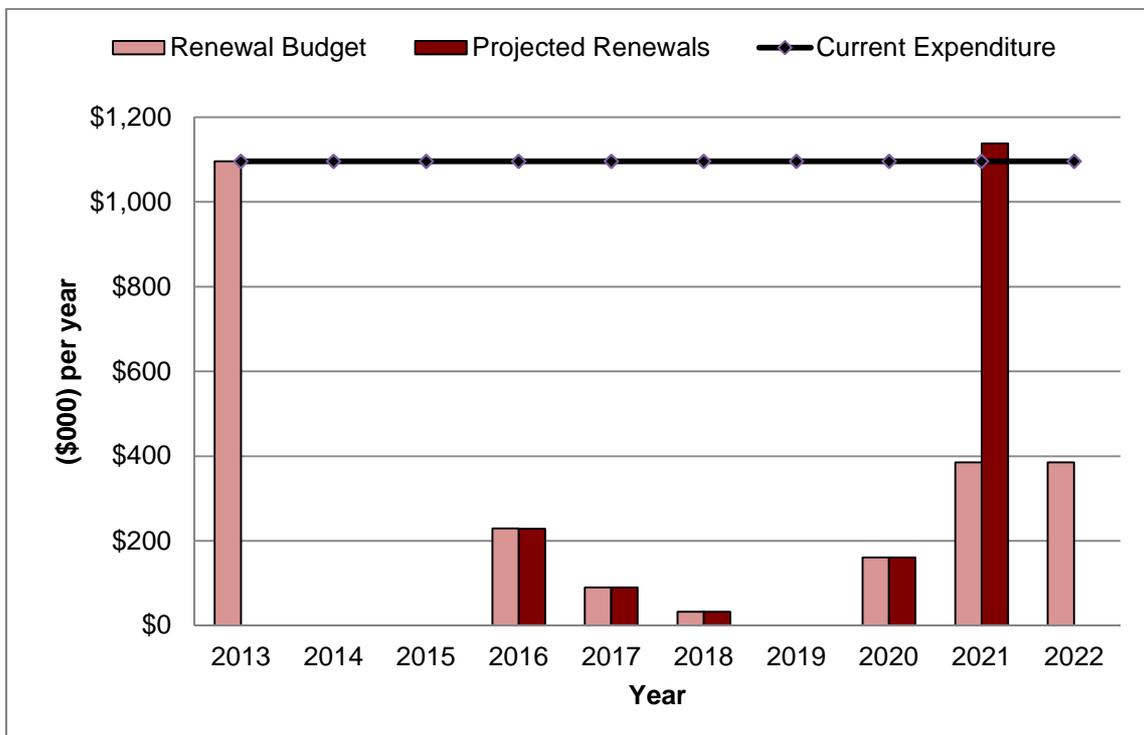


Table 6.1.1 shows the shortfall between projected and budgeted renewals

**Table 6.1.1: Projected and Budgeted Renewals and Expenditure Shortfall**

| Year | Projected Renewals (\$000) | Planned Renewal (Budget) (\$000) | Renewal Funding Shortfall (\$000)<br>(-ve Gap, +ve Surplus) | Cumulative Shortfall (\$000)<br>(-ve Gap, +ve Surplus) |
|------|----------------------------|----------------------------------|---|--|
| 2013 | \$0                        | \$1,096                          | \$1,096   | \$1,096  |
| 2014 | \$0                        | \$0                              | \$0   | \$1,096  |
| 2015 | \$0                        | \$0                              | \$0   | \$1,096  |
| 2016 | \$229                      | \$229                            | \$1   | \$1,097  |
| 2017 | \$90                       | \$90                             | \$0   | \$1,097  |
| 2018 | \$33                       | \$33                             | \$0   | \$1,097  |
| 2019 | \$0                        | \$0                              | \$0   | \$1,097  |
| 2020 | \$161                      | \$161                            | \$0   | \$1,097  |
| 2021 | \$1,138                    | \$385                            | -\$753  | \$344  |
| 2022 | \$0                        | \$385                            | \$385   | \$729  |

*Note: A negative shortfall indicates a funding gap; a positive shortfall indicates a surplus for that year.*

Providing services in a sustainable manner will require matching of projected asset renewals to meet agreed service levels with planned capital works programs and available revenue.

A gap between projected asset renewals, planned asset renewals and funding indicates that further work is required to manage required service levels and funding to eliminate any funding gap. We will manage the ‘gap’ by developing this asset management plan to provide guidance on future service levels and resources required to provide these services, and review future services, service levels and costs with the community.

### 6.1.2 Expenditure projections for long term financial plan

Table 6.1.2 shows the projected expenditures for the 10 year long term financial plan.

Expenditure projections are in current (non-inflated) values. Disposals are shown as net expenditures (revenues are negative).

**Table 6.1.2: Expenditure Projections for Long Term Financial Plan (\$000)**

| Year | Operations (\$000) | Maintenance (\$000) | Projected Capital Renewal (\$000) | Capital Upgrade/ New (\$000) | Disposals (\$000) |
|------|--------------------|---------------------|-----------------------------------|------------------------------|-------------------|
| 2013 | \$186              | \$561               | \$0                               | \$125                        | \$0               |
| 2014 | \$192              | \$579               | \$0                               | \$250                        | \$0               |
| 2015 | \$198              | \$598               | \$0                               | \$250                        | \$0               |
| 2016 | \$205              | \$618               | \$229                             | \$550                        | \$0               |
| 2017 | \$212              | \$640               | \$90                              | \$650                        | \$0               |
| 2018 | \$220              | \$664               | \$33                              | \$300                        | \$0               |
| 2019 | \$227              | \$686               | \$0                               | \$325                        | \$0               |
| 2020 | \$235              | \$709               | \$161                             | \$325                        | \$0               |
| 2021 | \$243              | \$732               | \$1,138                           | \$350                        | \$0               |
| 2022 | \$251              | \$756               | \$0                               | \$350                        | \$0               |

*Note: All projected expenditures are in 2013 values*

### 6.2 Funding Strategy

Projected expenditure identified in Section 6.1 is to be funded from the Town’s operating and capital budgets. The funding strategy is detailed in the Towns’ Long Term Financial Plan.

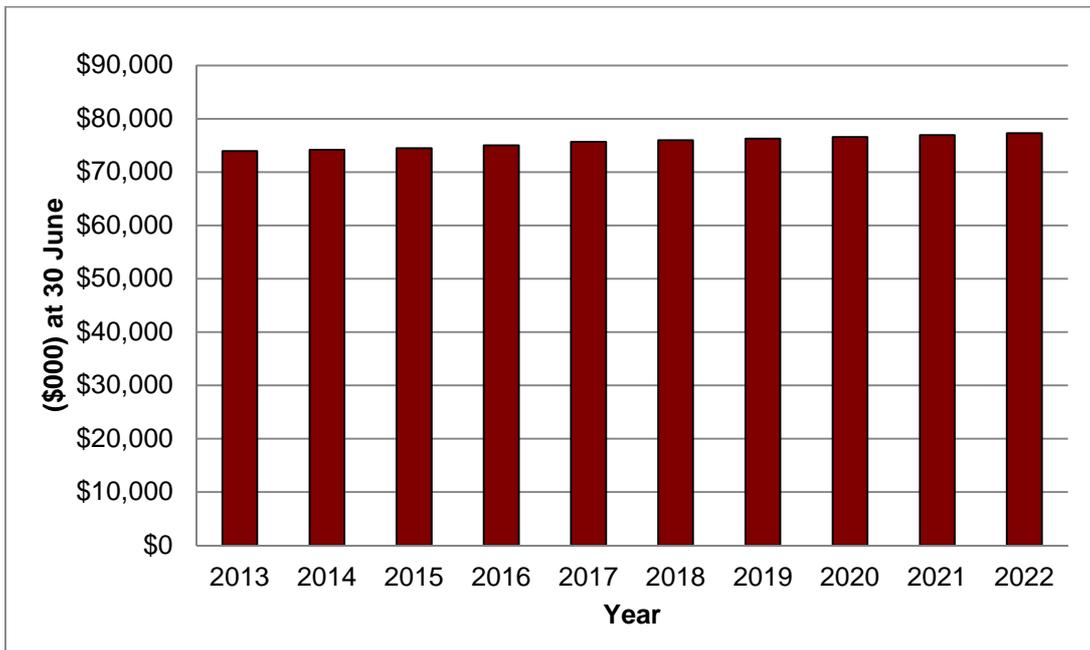
Achieving the financial strategy will require the Council to examine other options, which include-

- Use of loans to fund renewal spikes;
- Cost reductions from review of service levels;
- Increasing revenue from rates and user charges;
- Applying for grants, from Commonwealth and State Governments, where applicable; and
- Cash backed reserves.

### 6.3 Valuation Forecasts

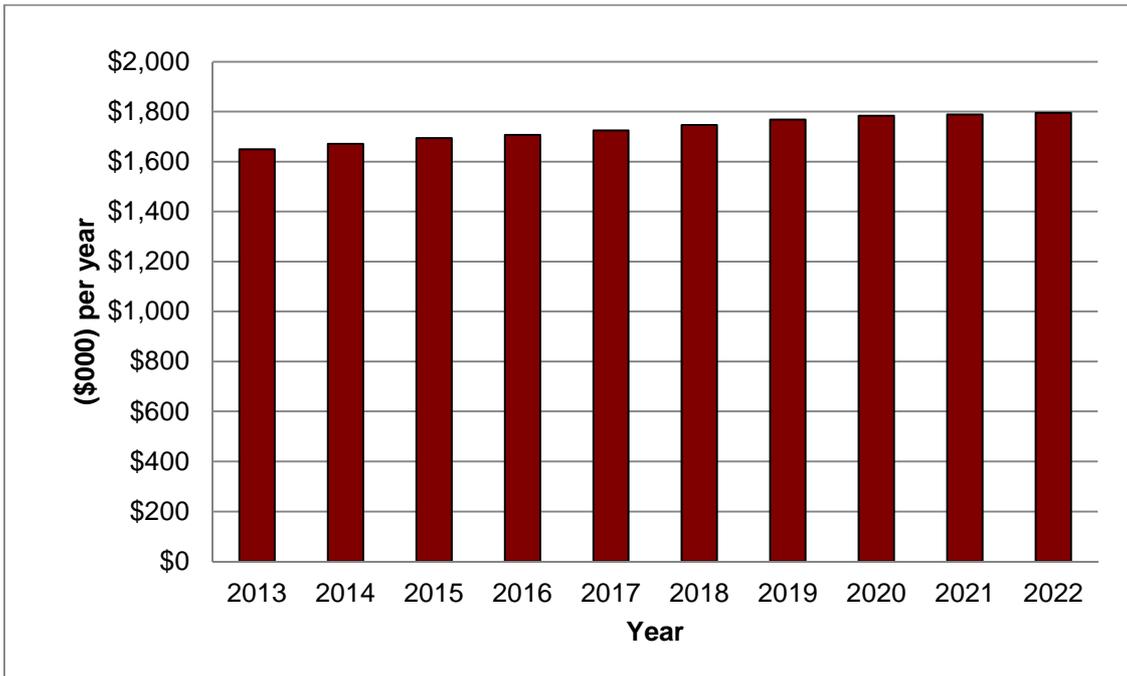
Asset values are forecast to increase as additional assets are added to the asset stock from construction and acquisition by Council and from assets constructed by land developers and others and donated to Council. Figure 9 shows the projected replacement cost asset values over the planning period in 2012 dollar values.

*Figure 9: Projected Asset Values*



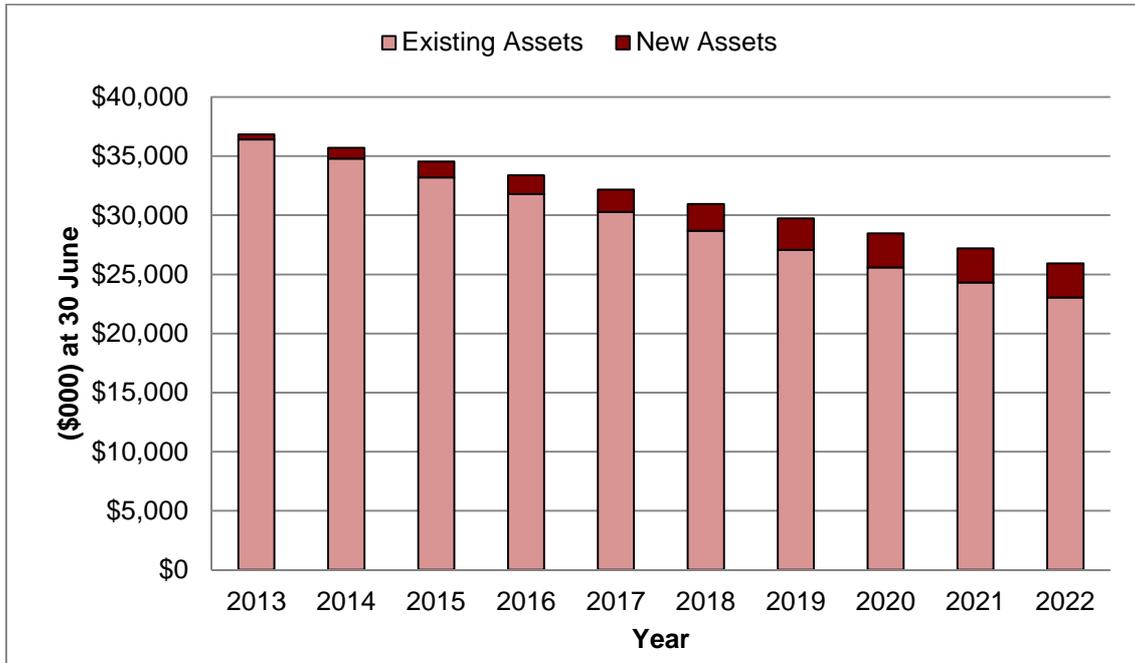
Depreciation expense values are forecast in line with asset values as shown in Figure 10.

**Figure 10: Projected Depreciation Expense**



The depreciated replacement cost (current replacement cost less accumulated depreciation) reports the remaining service potential of the assets. It 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 11, which highlights consumption of existing assets at a faster rate than their renewal or upgrade. The effect of contributed and new assets on the depreciated replacement cost is shown in the light colour bar.

**Figure 11: Projected Depreciated Replacement Cost**



#### **6.4 Key Assumptions made in Financial Forecasts**

This section details the key assumptions made in presenting the information contained in this 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 are:

- Buildings and Structures assets will remain in Council ownership throughout the planning period.
- Maintenance costs are largely based on historical expenditure and assumes no significant increases in service requirements.
- A valuation report prepared by AVP Valuers in October 2012 has determined the asset values.

## **7. ASSET MANAGEMENT PRACTICES**

### **7.1 Accounting/Financial Systems**

#### **7.1.1 Accounting and financial systems**

The Town of Narrogin uses SynergySoft for its financial management system and for asset accounting purposes.

#### **7.1.2 Accountabilities for financial systems**

Accountabilities and responsibilities are divided between the Director Corporate and Community Services, Manager Corporate Services, and Accountant.

#### **7.1.3 Accounting standards and regulations**

As well as complying with Australian Accounting Standards, the Town must comply with the Western Australia Local Government Act 1995 and the Local Government (Finance) Regulations 1996. Accounting Standard AASB116 – “Property, Plant and Equipment” is the significant regulatory requirement relevant to accounting for assets.

#### **7.1.4 Capital/maintenance threshold**

The Councils Capital Threshold Policy specifies a limit of \$5,000 for expenditure that is expensed in the current year. Expenditure over \$5,000 on an asset is classed as capital expenditure and capitalised against the asset.

#### **7.1.5 Required changes to accounting financial systems arising from this AM Plan**

The general ledger in SynergySoft may require recoding to allow Council to differentiate between operational costs, maintenance costs, upgrades, refurbishment and renewal costs. Further research is required to ascertain if this recoding is necessary.

### **7.2 Asset Management Systems**

#### **7.2.1 Asset management system**

The Asset Management system is a combination of the SynergySoft asset register and current operating procedures.

#### **7.2.2 Asset registers**

The Council maintains a detailed Asset Register for this asset class in the SynergySoft integrated Asset Register Module.

#### **7.2.3 Linkage from asset management to financial system**

The linkage from the financial system to the asset register is fully integrated. Officers input asset expenditure data into the financial system, which is posted to a capital account. The flag on the general ledger account recognises that the expenditure is of a capital nature and opens the Asset Register Module prompting the operator to enter the relevant details about the asset expenditure (whether a new asset, or expenditure on an existing asset).

#### **7.2.4 Accountabilities for asset management system and data**

Accountabilities and responsibilities are divided between the Manager Corporate Services, Finance Staff and the Director Corporate and Community Services. The Director Technical and Engineering Services provides information on the relevant assets and allocates costs associated with payroll and Purchasing systems. The Director Corporate and Community Services, Manager Corporate Services, Accountant and Payroll Officer create the records within the Asset Register and post expenditure direct to the Asset Register.

#### 7.2.5 Required changes to asset management system arising from this AM Plan

No changes have been identified to the asset management system, but subsequent revisions of this Buildings and Structures Asset Management Plan may identify further improvements to existing system.

### 7.3 Information Flow Requirements and Processes

The key information flows *into* this asset management plan are:

- Council strategic and operational plans,
- Service requests from the community,
- Network assets information,
- The unit rates for categories of work/materials,
- Current levels of service, expenditures, service deficiencies and service risks,
- Projections of various factors affecting future demand for services and new assets acquired by Council,
- Future capital works programs,
- Financial asset values.

The key information flows *from* this asset management plan are:

- The projected Works Program and trends,
- The resulting budget and long term financial plan expenditure projections.
- Financial sustainability indicators.

These will impact the Long Term Financial Plan, Corporate Business Plan, Annual Budget and Departmental Business Plans and Budgets.

### 7.4 Standards and Guidelines

Standards, guidelines and policy documents referenced in this asset management plan are:

- Town of Narrogin Asset Capitalisation Threshold Policy
- Town of Narrogin Asset Management Policy.
- Town of Narrogin Asset Management Strategy.
- Department of Local Government (WA) Asset Management Framework and Guidelines.

## 8. PLAN IMPROVEMENT AND MONITORING

### 8.1 Performance Measures

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

- The degree to which the required cashflows identified in this asset management plan are incorporated into the organisation’s long term financial plan and Community/Strategic Planning processes and documents,
- 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 asset management plan;

### 8.2 Improvement Plan

The asset management improvement plan generated from this asset management plan is shown in Table 8.2.

**Table 8.2: Improvement Plan**

| Task No | Task   | Responsibility  | Resources Required | Timeline    |
|---------|--|---|--------------------|-------------|
| 1       | Conduct follow up Asbestos inspections   | Director Technical and Engineering Services (DTES)    | Internal           | June 2014   |
| 2       | Conduct detailed inspection of all assets with a Fair-Minus condition rating to determine renewal requirements | DTES  | Internal           | June 2014   |
| 3       | Assess the first year of Plan against actual costs   | Director Corporate and Community Services (DCCS)/DTES | Internal           | June 2014   |
| 4       | Prepare and prioritise a long term plan and ranking systems for renewal & upgrade/new expenditure.             | DCCS/CEO/DTES   | Internal           | June 2015   |
| 5       | Review of property maintenance practices to ensure alignment with service level requirements.                  | DTES  | Internal           | Annually    |
| 6       | Ongoing rolling program of data collection (every 3 Yrs).  | DTES/DCCS   | TBA                | Every 3 Yrs |
| 7       | Develop and review detailed risk analysis and planning for critical assets.                                    | DTES/CEO/DCCS   | Internal           | June 2015   |
| 8       | Review service levels and commence internal and Elected Member consultation on service level provision.        | CEO/DCCS/DTES   | Internal           | June 2016   |
| 9       | Community consultation on service level provision.   | CEO/DCCS/DTES   | TBA                | June 2016   |

### 8.3 Monitoring and Review Procedures

This asset management plan will be reviewed during annual budget preparation and amended to recognise any material changes in service levels and/or resources available to provide those services as a result of the budget decision process.

The Plan has a life of 3 years and a major revision is to be done within six months of its expiry.

## REFERENCES

Town of Narrogin 2012/2013 Annual Budget.

DVC, 2006, *Asset Investment Guidelines*, Glossary, Department for Victorian Communities, Local Government Victoria, Melbourne, <http://www.dpcd.vic.gov.au/localgovernment/publications-and-research/asset-management-and-financial>.

IPWEA, 2006, *International Infrastructure Management Manual*, Institute of Public Works Engineering Australia, Sydney, [www.ipwea.org.au](http://www.ipwea.org.au).

IPWEA, 2008, *NAMS.PLUS Asset Management* Institute of Public Works Engineering Australia, Sydney, [www.ipwea.org.au/namsplus](http://www.ipwea.org.au/namsplus).

IPWEA, 2009, *Australian Infrastructure Financial Management Guidelines*, Institute of Public Works Engineering Australia, Sydney, [www.ipwea.org.au/AIFMG](http://www.ipwea.org.au/AIFMG).

IPWEA, 2011, *Asset Management for Small, Rural or Remote Communities* Practice Note, Institute of Public Works Engineering Australia, Sydney, [www.ipwea.org.au/AM4SRRC](http://www.ipwea.org.au/AM4SRRC).

DLG, 2011, *Asset Management Framework and Guidelines*, Department of Local Government, Western Australia, <http://integratedplanning.dlg.wa.gov.au/DeliverAssetManagement.aspx>

## **APPENDICES**

- Appendix A      Maintenance Response Levels of Service
  
- Appendix B      Projected 10 year Capital Renewal Works Program
  
- Appendix C      Planned Upgrade/Exp/New 10 year Capital Works Program A
  
- Appendix D      Abbreviations
  
- Appendix E      Glossary

**Appendix A Maintenance Response Levels of Service**

| ASSET CATEGORY            | RESPONSE TIME (WORKING DAYS) FOR DEFECTS<br>WITH RISK LEVELS OF: |          |     |
|---------------------------|--|----------|-----|
|                           | HIGH   | MODERATE | LOW |
| Amenities Buildings       | 1  | 2        | 20  |
| Civic Buildings           | 1  | 2        | 20  |
| Residential Buildings     | 1  | 2        | 20  |
| Community Buildings       | 1  | 2        | 20  |
| Recreation Buildings      | 1  | 2        | 20  |
| Recreation Infrastructure | 1  | 2        | 20  |
| Other Structures          | 1  | 2        | 20  |

**Appendix B Projected 10 year Capital Renewal Works Program**

| Asset ID         | Asset Location          | Address                     | Projected Renewal Year | Renewal Cost \$  |
|------------------|-------------------------|-----------------------------|------------------------|------------------|
| Gardener's Store | Golf Club               | 2350 Williams-Kondinin Road | 2016                   | \$45,000         |
| Shed #1          | Municipal Power Station | 33-37 Fairway Street        | 2016                   | \$150,000        |
| Shed #2          | Municipal Power Station | 33-37 Fairway Street        | 2016                   | \$26,000         |
| Scoreboard       | Thomas Hogg Oval        | Bannister Street            | 2016                   | \$2,500          |
| Store            | Thomas Hogg Oval        | Bannister Street            | 2016                   | \$5,000          |
|                  |                         |                             |                        | <b>\$228,500</b> |

| Asset ID          | Location          | Address       | Projected Renewal Year | Renewal Cost \$ |
|-------------------|-------------------|---------------|------------------------|-----------------|
| Asbestos Fencing  | Bowling Club      | Earl Street   | 2017                   | \$5,000         |
| Perimeter Fencing | Clayton Road Oval | Clayton Road  | 2017                   | \$70,000        |
| Timber Fencing    | Gnarojin Park     | Gordon Street | 2017                   | \$15,000        |
|                   |                   |               |                        | <b>\$90,000</b> |

| Asset ID            | Location               | Address                            | Projected Renewal Year | Renewal Cost \$ |
|---------------------|------------------------|------------------------------------|------------------------|-----------------|
| Scoreboard          | Clayton Road Oval      | Clayton Road                       | 2018                   | \$8,000         |
| Niche Memorial Wall | Narrogin Cemetery      | Williams Road                      | 2018                   | \$5,000         |
| Barbecue            | Narrogin Memorial Park | Cnr Fortune Street & Williams Road | 2018                   | \$20,000        |
|                     |                        |                                    |                        | <b>\$33,000</b> |

| Asset ID             | Location                   | Address                              | Projected Renewal Year | Renewal Cost \$  |
|----------------------|----------------------------|--------------------------------------|------------------------|------------------|
| Shelters             | Bowling Club               | Earl Street                          | 2020                   | \$25,000         |
| Flag Poles           | Bowling Club               | Earl Street                          | 2020                   | \$8,000          |
| Shelters             | Croquet Club               | Earl Street                          | 2020                   | \$15,000         |
| Flag Pole            | Gnarojin Park              | Gordon Street                        | 2020                   | \$4,000          |
| Skate Park Seating   | Gnarojin Park              | Gordon Street                        | 2020                   | \$10,000         |
| Gazebo               | Mackie Park                | Cnr Federal and Fortune Streets      | 2020                   | \$4,000          |
| Portable Toilet      | Narrogin Cemetery          | Williams Road                        | 2020                   | \$13,000         |
| Cricket Pitch        | Narrogin Leisure Complex   | Clayton Road                         | 2020                   | \$13,000         |
| Flag Pole            | Narrogin Memorial Park     | Cnr Fortune Street and Williams Road | 2020                   | \$4,000          |
| Drink Fountain       | Narrogin Memorial Park     | Cnr Fortune Street and Williams Road | 2020                   | \$4,000          |
| Basketball Backboard | Tennis Club                | Clayton Road                         | 2020                   | \$2,500          |
| Shelter              | Tennis Club                | Clayton Road                         | 2020                   | \$25,000         |
| Steel Mesh Store     | Waste & Recycling Facility | White Road                           | 2020                   | \$20,000         |
| Signage              | Waste & Recycling Facility | White Road                           | 2020                   | \$13,000         |
|                      |                            |                                      |                        | <b>\$160,500</b> |

**Appendix B Projected 10 Year Capital Renewal Works Program (continued)**

| <b>Asset ID</b>        | <b>Location</b>            | <b>Address</b>   | <b>Projected<br/>Renewal<br/>Year</b> | <b>Renewal<br/>Cost<br/>\$</b> |
|------------------------|----------------------------|------------------|---------------------------------------|--------------------------------|
| Greenkeepers Shed      | Bowling Club               | Earl Street      | 2021                                  | \$15,000                       |
| Toilet Block and Store | Bowling Club               | Earl Street      | 2021                                  | \$50,000                       |
| Goal Posts x 2 sets    | Clayton Road Oval          | Clayton Road     | 2021                                  | \$23,000                       |
| Practice Cricket Nets  | Clayton Road Oval          | Clayton Road     | 2021                                  | \$25,000                       |
| Dug-Outs               | Clayton Road Oval          | Clayton Road     | 2021                                  | \$5,000                        |
| Entry Kiosk            | Clayton Road Oval          | Clayton Road     | 2021                                  | \$2,500                        |
| Security Bollards      | Clayton Road Oval          | Clayton Road     | 2021                                  | \$2,000                        |
| Water Storage Tank     | Clayton Road Oval          | Clayton Road     | 2021                                  | \$32,000                       |
| Hockey Pitch           | Narrogin Leisure Complex   | Clayton Road     | 2021                                  | \$560,000                      |
| Pool Shelters          | Narrogin Leisure Complex   | Clayton Road     | 2021                                  | \$15,000                       |
| Dug-Outs               | Narrogin Leisure Complex   | Clayton Road     | 2021                                  | \$8,000                        |
| Parasol Shelter        | Narrogin Racecourse        | Clayton Road     | 2021                                  | \$42,000                       |
| Bridge Lighting        | Railway Station            | Pioneer Drive    | 2021                                  | \$50,000                       |
| Goal Posts             | Thomas Hogg Oval           | Bannister Street | 2021                                  | \$2,000                        |
| Dug-Outs               | Thomas Hogg Oval           | Bannister Street | 2021                                  | \$5,000                        |
| Burn-Out Track         | Thomas Hogg Oval           | Bannister Street | 2021                                  | \$25,000                       |
| Crash Rail             | Thomas Hogg Oval           | Bannister Street | 2021                                  | \$20,000                       |
| Old Ambulance Building |                            | Egerton Street   | 2021                                  | \$240,000                      |
| Transportable Office   | Waste & Recycling Facility | White Road       | 2021                                  | \$16,000                       |
|                        |                            |                  |                                       | <b>\$1,137,500</b>             |

**Appendix B-1 Capital Renewal Works In Year 11 of Asset Management Modelling**

| Asset ID                                     | Location                 | Address                            | Projected Renewal Year | Renewal Cost \$ |
|--|--------------------------|------------------------------------|------------------------|-----------------|
| Fencing                                      | Bannister Street Oval    | Bannister Street                   | 2023                   | \$25,000        |
| Lighting                                     | Bannister Street Oval    | Bannister Street                   | 2023                   | \$9,000         |
| Storage Shed                                 | Bannister Street Oval    | Bannister Street                   | 2023                   | \$4,000         |
| Bowling Greens                               | Bowling Club             | Earl Street                        | 2023                   | \$465,000       |
| Lighting                                     | Bowling Club             | Earl Street                        | 2023                   | \$45,000        |
| Fencing                                      | Bowling Club             | Earl Street                        | 2023                   | \$32,000        |
| Reticulation                                 | Bowling Club             | Earl Street                        | 2023                   | \$1,500         |
| Brick Retaining Wall                         | Bowling Club             | Earl Street                        | 2023                   | \$7,000         |
| Water Storage Tank                           | Bowling Club             | Earl Street                        | 2023                   | \$7,000         |
| Reticulation                                 | Clayton Road Oval        | Clayton Road                       | 2023                   | \$50,000        |
| Spectator Fencing                            | Clayton Road Oval        | Clayton Road                       | 2023                   | \$13,000        |
| Lighting                                     | Clayton Road Oval        | Clayton Road                       | 2023                   | \$150,000       |
| Greens                                       | Croquet Club             | Earl Street                        | 2023                   | \$50,000        |
| Lighting                                     | Croquet Club             | Earl Street                        | 2023                   | \$45,000        |
| Fencing                                      | Croquet Club             | Earl Street                        | 2023                   | \$12,000        |
| Reticulation                                 | Croquet Club             | Earl Street                        | 2023                   | \$10,000        |
| Garden Sheds                                 | Croquet Club             | Earl Street                        | 2023                   | \$8,000         |
| Shelter                                      | Gnarojin Park            | Gordon Street                      | 2023                   | \$5,000         |
| Water Storage Tank                           | Gnarojin Park            | Gordon Street                      | 2023                   | \$25,000        |
| Reticulation                                 | Gnarojin Park            | Gordon Street                      | 2023                   | \$20,000        |
| Lighting                                     | Gnarojin Park            | Gordon Street                      | 2023                   | \$25,000        |
| Timber Pine Log Fencing & Rammed Earth Walls | Gnarojin Park            | Gordon Street                      | 2023                   | \$15,000        |
| Lighting – Skate park                        | Gnarojin Park            | Gordon Street                      | 2023                   | \$32,000        |
| Shelter – Skate Park                         | Gnarojin Park            | Gordon Street                      | 2023                   | \$8,000         |
| Fencing – Skate Park                         | Gnarojin Park            | Gordon Street                      | 2023                   | \$350           |
| Lighting                                     | Mackie Park              | Cnr Federal and Fortune Streets    | 2023                   | \$17,000        |
| Fencing                                      | Mackie Park              | Cnr Federal and Fortune Streets    | 2023                   | \$50,000        |
| Reticulation                                 | Mackie Park              | Cnr Federal and Fortune Streets    | 2023                   | \$20,000        |
| Perimeter Fencing                            | Narrogin Cemetery        | Williams Road                      | 2023                   | \$65,000        |
| Lighting                                     | Narrogin Leisure Complex | Clayton Road                       | 2023                   | \$165,000       |
| Fencing                                      | Narrogin Leisure Complex | Clayton Road                       | 2023                   | \$57,000        |
| Reticulation                                 | Narrogin Leisure Complex | Clayton Road                       | 2023                   | \$20,000        |
| Cricket Oval Reticulation                    | Narrogin Leisure Complex | Clayton Road                       | 2023                   | \$115,000       |
| Gardener’s Store                             | Narrogin Memorial Park   | Cnr Fortune Street & Williams Road | 2023                   | \$13,000        |
| Picnic Table & Seating                       | Narrogin Memorial Park   | Cnr Fortune Street & Williams Road | 2023                   | \$5,000         |
| Water Storage Tank                           | Narrogin Memorial Park   | Cnr Fortune Street & Williams Road | 2023                   | \$32,000        |
| Reticulation                                 | Narrogin Memorial Park   | Cnr Fortune Street & Williams Road | 2023                   | \$38,000        |
| Lighting                                     | Narrogin Racecourse      | Clayton Road                       | 2023                   | \$410,000       |

| Asset ID                   | Location                   | Address          | Projected Renewal Year | Renewal Cost \$    |
|----------------------------|----------------------------|------------------|------------------------|--------------------|
| Fencing                    | Narrogin Racecourse        | Clayton Road     | 2023                   | \$475,000          |
| Stewards Tower             | Narrogin Racecourse        | Clayton Road     | 2023                   | \$250,000          |
| Reticulation               | Narrogin Racecourse        | Clayton Road     | 2023                   | \$125,000          |
| Sports Grass Tennis Courts | Tennis Club                | Clayton Road     | 2023                   | \$695,000          |
| Plexipave Tennis Courts    | Tennis Club                | Clayton Road     | 2023                   | \$270,000          |
| Lighting                   | Tennis Club                | Clayton Road     | 2023                   | \$185,000          |
| Reticulation               | Thomas Hogg Oval           | Bannister Street | 2023                   | \$38,000           |
| Fencing                    | Thomas Hogg Oval           | Bannister Street | 2023                   | \$115,000          |
| Lighting                   | Thomas Hogg Oval           | Bannister Street | 2023                   | \$105,000          |
| Water Storage Tank         | Thomas Hogg Oval           | Bannister Street | 2023                   | \$115,000          |
| Site Fencing               | Waste & Recycling Facility | White Road       | 2023                   | \$65,000           |
|                            |                            |                  |                        | <b>\$4,508,850</b> |

**Appendix C Planned Upgrade/Expansion/New 10 year Capital Works Program**

| Asset Name         | Planned Construction Year | Construction Cost \$ |
|--------------------|---------------------------|----------------------|
| New Court Surfaces | 2013                      | \$125,000            |
|                    |                           | <b>\$125,000</b>     |

| Asset Name                  | Planned Construction Year | Construction Cost \$ |
|-----------------------------|---------------------------|----------------------|
| Building Upgrades Provision | 2014                      | \$250,000            |
|                             |                           | <b>\$250,000</b>     |

| Asset Name                  | Planned Construction Year | Construction Cost \$ |
|-----------------------------|---------------------------|----------------------|
| Building Upgrades Provision | 2015                      | \$250,000            |
|                             |                           | <b>\$250,000</b>     |

| Asset Name                                      | Planned Construction Year | Construction Cost \$ |
|---|---------------------------|----------------------|
| Building Upgrades Provision (including library) | 2016                      | \$550,000            |
|   |                           | <b>\$550,000</b>     |

| Asset Name                  | Planned Construction Year | Construction Cost \$ |
|-----------------------------|---------------------------|----------------------|
| Building Upgrades Provision | 2017                      | \$300,000            |
| New Residence               | 2017                      | \$350,000            |
|                             |                           | <b>\$650,000</b>     |

| Asset Name                  | Planned Construction Year | Construction Cost \$ |
|-----------------------------|---------------------------|----------------------|
| Building Upgrades Provision | 2018                      | \$300,000            |
|                             |                           | <b>\$300,000</b>     |

| Asset Name                  | Planned Construction Year | Construction Cost \$ |
|-----------------------------|---------------------------|----------------------|
| Building Upgrades Provision | 2019                      | \$325,000            |
|                             |                           | <b>\$325,000</b>     |

| Asset Name                  | Planned Construction Year | Construction Cost \$ |
|-----------------------------|---------------------------|----------------------|
| Building Upgrades Provision | 2020                      | \$325,000            |
|                             |                           | <b>\$325,000</b>     |

**Appendix C Planned Upgrade/Expansion/New 10 year Capital Works Program (continued)**

| <b>Asset Name</b>           | <b>Planned<br/>Construction<br/>Year</b> | <b>Construction<br/>Cost<br/>\$</b> |
|-----------------------------|--|-------------------------------------|
| Building Upgrades Provision | 2021                                     | \$350,000                           |
|                             |  | <b>\$350,000</b>                    |

| <b>Asset Name</b>           | <b>Planned<br/>Construction<br/>Year</b> | <b>Construction<br/>Cost<br/>\$</b> |
|-----------------------------|--|-------------------------------------|
| Building Upgrades Provision | 2022                                     | \$350,000                           |
|                             |  | <b>\$350,000</b>                    |

## Appendix D Abbreviations

|             |   |
|-------------|---|
| <b>AAAC</b> | Average annual asset consumption        |
| <b>AMP</b>  | Asset management plan                   |
| <b>ARI</b>  | Average recurrence interval             |
| <b>BOD</b>  | Biochemical (biological) oxygen demand  |
| <b>CRC</b>  | Current replacement cost                |
| <b>CWMS</b> | Community wastewater management systems |
| <b>DA</b>   | Depreciable amount                      |
| <b>EF</b>   | Earthworks/formation                    |
| <b>IRMP</b> | Infrastructure risk management plan     |
| <b>LCC</b>  | Life Cycle cost                         |
| <b>LCE</b>  | Life cycle expenditure                  |
| <b>MMS</b>  | Maintenance management system           |
| <b>PCI</b>  | Pavement condition index                |
| <b>RV</b>   | Residual value                          |
| <b>SS</b>   | Suspended solids                        |
| <b>vph</b>  | Vehicles per hour                       |

## Appendix E Glossary

### Annual service cost (ASC)

- 1) Reporting actual cost  
The annual (accrual) cost of providing a service including operations, maintenance, depreciation, finance/opportunity and disposal costs less revenue.
- 2) For investment analysis and budgeting  
An estimate of the cost that would be tendered, per annum, if tenders were called for the supply of a service to a performance specification for a fixed term. The Annual Service Cost includes operations, maintenance, depreciation, finance/opportunity and disposal costs, less revenue.

### Asset

A resource controlled by an entity as a result of past events and from which future economic benefits are expected to flow to the entity. Infrastructure assets are a sub-class of property, plant and equipment which are non-current assets with a life greater than 12 months and enable services to be provided.

### Asset class

A group of assets having a similar nature or function in the operations of an entity, and which, for purposes of disclosure, is shown as a single item without supplementary disclosure.

### Asset condition assessment

The process of continuous or periodic inspection, assessment, measurement and interpretation of the resultant data to indicate the condition of a specific asset so as to determine the need for some preventative or remedial action.

### Asset management (AM)

The combination of management, financial, economic, engineering and other practices applied to physical assets with the objective of providing the required level of service in the most cost effective manner.

### Average annual asset consumption (AAAC)\*

The amount of an organisation's asset base consumed during a reporting period (generally a year). This may be calculated by dividing the depreciable amount by the useful life (or total future economic benefits/service potential) and totalled for each and every asset OR by dividing the carrying amount (depreciated replacement cost) by the remaining useful life (or remaining future economic benefits/service potential) and totalled for each and every asset in an asset category or class.

### Borrowings

A borrowing or loan is a contractual obligation of the borrowing entity to deliver cash or another financial asset to the lending entity over a specified period of time or at a specified point in time, to cover both the initial capital provided and the cost of the interest incurred for providing this capital. A borrowing or loan provides the means for the borrowing entity to finance outlays (typically physical assets) when it has insufficient funds of its own to do so, and for the lending entity to make a financial return, normally in the form of interest revenue, on the funding provided.

### Capital expenditure

Relatively large (material) expenditure, which has benefits, expected to last for more than 12 months. Capital expenditure includes renewal, expansion and upgrade. Where capital projects involve a combination of renewal, expansion and/or upgrade expenditures, the total project cost needs to be allocated accordingly.

### Capital expenditure - expansion

Expenditure that extends the capacity of an existing asset to provide benefits, at the same standard as is currently enjoyed by existing beneficiaries, to a new group of users. It is discretionary expenditure, which increases future operations and maintenance costs, because it increases the organisation's asset base, but may be associated with additional revenue from the new user group, eg. extending a drainage or road network, the provision of an oval or park in a new suburb for new residents.

### Capital expenditure - new

Expenditure which creates a new asset providing a new service/output that did not exist beforehand. As it increases service potential it may impact revenue and will increase future operations and maintenance expenditure.

### Capital expenditure - renewal\*

Expenditure on an existing asset or on replacing an existing asset, which returns the service capability of the asset up to that which it had originally. It is periodically required expenditure, relatively large (material) in value compared with the value of the components or sub-components of the asset being renewed. As it reinstates existing service potential, it generally has no impact on revenue, but may reduce future operations and maintenance expenditure if completed at the optimum time, eg. resurfacing or resheeting a material part of a road network, replacing a material section of a drainage network with pipes of the same capacity, resurfacing an oval.

**Capital expenditure - upgrade**

Expenditure, which enhances an existing asset to provide a higher level of service or expenditure that will increase the life of the asset beyond that which it had originally. Upgrade expenditure is discretionary and often does not result in additional revenue unless direct user charges apply. It will increase operations and maintenance expenditure in the future because of the increase in the organisation's asset base, eg. widening the sealed area of an existing road, replacing drainage pipes with pipes of a greater capacity, enlarging a grandstand at a sporting facility.

**Capital funding**

Funding to pay for capital expenditure.

**Capital grants**

Monies received generally tied to the specific projects for which they are granted, which are often upgrade and/or expansion or new investment proposals.

**Capital investment expenditure**

See capital expenditure definition

**Capitalisation threshold**

The value of expenditure on non-current assets above which the expenditure is recognised as capital expenditure and below which the expenditure is charged as an expense in the year of acquisition.

**Carrying amount**

The amount at which an asset is recognised after deducting any accumulated depreciation / amortisation and accumulated impairment losses thereon.

**Class of assets**

See asset class definition

**Component**

Specific parts of an asset having independent physical or functional identity and having specific attributes such as different life expectancy, maintenance regimes, risk or criticality.

**Cost of an asset**

The amount of cash or cash equivalents paid or the fair value of the consideration given to acquire an asset at the time of its acquisition or construction, including any costs necessary to place the asset into service. This includes one-off design and project management costs.

**Current replacement cost (CRC)**

The cost the entity would incur to acquire the asset on the reporting date. The cost is measured by reference to the lowest cost at which the gross future economic benefits could be obtained in the normal course of business or the minimum it would cost, to replace the existing asset with a technologically modern equivalent new asset (not a second hand one) with the same economic benefits (gross service potential) allowing for any differences in the quantity and quality of output and in operating costs.

**Depreciable amount**

The cost of an asset, or other amount substituted for its cost, less its residual value.

**Depreciated replacement cost (DRC)**

The current replacement cost (CRC) of an asset less, where applicable, accumulated depreciation calculated on the basis of such cost to reflect the already consumed or expired future economic benefits of the asset.

**Depreciation / amortisation**

The systematic allocation of the depreciable amount (service potential) of an asset over its useful life.

**Economic life**

See useful life definition.

**Expenditure**

The spending of money on goods and services. Expenditure includes recurrent and capital.

**Fair value**

The amount for which an asset could be exchanged, or a liability settled, between knowledgeable, willing parties, in an arms length transaction.

**Funding gap**

A funding gap exists whenever an entity has insufficient capacity to fund asset renewal and other expenditure necessary to be able to appropriately maintain the range and level of services its existing asset stock was originally designed and intended to deliver. The service capability of the existing asset stock should be determined assuming no additional operating revenue, productivity improvements, or net financial liabilities above levels currently planned or projected. A current funding gap means service levels have already or are currently falling. A projected funding gap if not addressed will result in a future diminution of existing service levels.

### **Heritage asset**

An asset with historic, artistic, scientific, technological, geographical or environmental qualities that is held and maintained principally for its contribution to knowledge and culture and this purpose is central to the objectives of the entity holding it.

### **Impairment Loss**

The amount by which the carrying amount of an asset exceeds its recoverable amount.

### **Infrastructure assets**

Physical assets that contribute to meeting the needs of organisations or the need for access to major economic and social facilities and services, eg. roads, drainage, footpaths and cycleways. These are typically large, interconnected networks or portfolios of composite assets. The components of these assets may be separately maintained, renewed or replaced individually so that the required level and standard of service from the network of assets is continuously sustained. Generally the components and hence the assets have long lives. They are fixed in place and are often have no separate market value.

### **Investment property**

Property held to earn rentals or for capital appreciation or both, rather than for:

- (a) use in the production or supply of goods or services or for administrative purposes; or
- (b) sale in the ordinary course of business.

### **Key performance indicator**

A qualitative or quantitative measure of a service or activity used to compare actual performance against a standard or other target. Performance indicators commonly relate to statutory limits, safety, responsiveness, cost, comfort, asset performance, reliability, efficiency, environmental protection and customer satisfaction.

### **Level of service**

The defined service quality for a particular service/activity against which service performance may be measured. Service levels usually relate to quality, quantity, reliability, responsiveness, environmental impact, acceptability and cost.

### **Life Cycle Cost**

1. **Total LCC** The total cost of an asset throughout its life including planning, design, construction, acquisition, operation, maintenance, rehabilitation and disposal costs.
2. **Average LCC** The life cycle cost (LCC) is average cost to provide the service over the longest asset life cycle. It comprises annual operations, maintenance and asset consumption expense, represented by depreciation expense. The Life Cycle Cost does not indicate the funds required to provide the service in a particular year.

### **Life Cycle Expenditure**

The Life Cycle Expenditure (LCE) is the actual or planned annual operations, maintenance and capital renewal expenditure incurred in providing the service in a particular year. Life Cycle Expenditure may be compared to average Life Cycle Cost to give an initial indicator of life cycle sustainability.

### **Loans / borrowings**

See borrowings.

### **Maintenance**

All actions necessary for retaining an asset as near as practicable to its original condition, including regular ongoing day-to-day work necessary to keep assets operating, eg road patching but excluding rehabilitation or renewal. It is operating expenditure required to ensure that the asset reaches its expected useful life.

#### • **Planned maintenance**

Repair work that is identified and managed through a maintenance management system (MMS). MMS activities include inspection, assessing the condition against failure/breakdown criteria/experience, prioritising scheduling, actioning the work and reporting what was done to develop a maintenance history and improve maintenance and service delivery performance.

#### • **Reactive maintenance**

Unplanned repair work that is carried out in response to service requests and management/supervisory directions.

#### • **Significant maintenance**

Maintenance work to repair components or replace sub-components that needs to be identified as a specific maintenance item in the maintenance budget.

#### • **Unplanned maintenance**

Corrective work required in the short-term to restore an asset to working condition so it can continue to deliver the required service or to maintain its level of security and integrity.

### **Maintenance and renewal gap**

Difference between estimated budgets and projected required expenditures for maintenance and renewal of assets to achieve/maintain specified service levels, totalled over a defined time (e.g. 5, 10 and 15 years).

### **Maintenance and renewal sustainability index**

Ratio of estimated budget to projected expenditure for maintenance and renewal of assets over a defined time (eg 5, 10 and 15 years).

### **Maintenance expenditure**

Recurrent expenditure, which is periodically or regularly required as part of the anticipated schedule of works required to ensure that the asset achieves its useful life and provides the required level of service. It is expenditure, which was anticipated in determining the asset's useful life.

### **Materiality**

The notion of materiality guides the margin of error acceptable, the degree of precision required and the extent of the disclosure required when preparing general purpose financial reports. Information is material if its omission, misstatement or non-disclosure has the potential, individually or collectively, to influence the economic decisions of users taken on the basis of the financial report or affect the discharge of accountability by the management or governing body of the entity.

### **Modern equivalent asset**

Assets that replicate what is in existence with the most cost-effective asset performing the same level of service. It is the most cost efficient, currently available asset which will provide the same stream of services as the existing asset is capable of producing. It allows for technology changes and, improvements and efficiencies in production and installation techniques

### **Net present value (NPV)**

The value to the organisation of the cash flows associated with an asset, liability, activity or event calculated using a discount rate to reflect the time value of money. It is the net amount of discounted total cash inflows after deducting the value of the discounted total cash outflows arising from eg the continued use and subsequent disposal of the asset after deducting the value of the discounted total cash outflows.

### **Non-revenue generating investments**

Investments for the provision of goods and services to sustain or improve services to the community that are not expected to generate any savings or revenue to the Council, eg. parks and playgrounds, footpaths, roads and bridges, libraries, etc.

### **Operations expenditure**

Recurrent expenditure, which is continuously required to provide a service. In common use the term typically includes, eg power, fuel, staff, plant equipment, on-costs and overheads but excludes maintenance and depreciation. Maintenance and depreciation is on the other hand included in operating expenses.

### **Operating expense**

The gross outflow of economic benefits, being cash and non cash items, during the period arising in the course of ordinary activities of an entity when those outflows result in decreases in equity, other than decreases relating to distributions to equity participants.

### **Pavement management system**

A systematic process for measuring and predicting the condition of road pavements and wearing surfaces over time and recommending corrective actions.

### **PMS Score**

A measure of condition of a road segment determined from a Pavement Management System.

### **Rate of annual asset consumption**

A measure of average annual consumption of assets (AAAC) expressed as a percentage of the depreciable amount (AAAC/DA). Depreciation may be used for AAAC.

### **Rate of annual asset renewal**

A measure of the rate at which assets are being renewed per annum expressed as a percentage of depreciable amount (capital renewal expenditure/DA).

### **Rate of annual asset upgrade**

A measure of the rate at which assets are being upgraded and expanded per annum expressed as a percentage of depreciable amount (capital upgrade/expansion expenditure/DA).

### **Recoverable amount**

The higher of an asset's fair value, less costs to sell and its value in use.

### **Recurrent expenditure**

Relatively small (immaterial) expenditure or that which has benefits expected to last less than 12 months. Recurrent expenditure includes operations and maintenance expenditure.

**Recurrent funding**

Funding to pay for recurrent expenditure.

**Rehabilitation**

See capital renewal expenditure definition above.

**Remaining useful life**

The time remaining until an asset ceases to provide the required service level or economic usefulness. Age plus remaining useful life is useful life.

**Renewal**

See capital renewal expenditure definition above.

**Residual value**

The estimated amount that an entity would currently obtain from disposal of the asset, after deducting the estimated costs of disposal, if the asset were already of the age and in the condition expected at the end of its useful life.

**Revenue generating investments**

Investments for the provision of goods and services to sustain or improve services to the community that are expected to generate some savings or revenue to offset operating costs, eg public halls and theatres, childcare centres, sporting and recreation facilities, tourist information centres, etc.

**Risk management**

The application of a formal process to the range of possible values relating to key factors associated with a risk in order to determine the resultant ranges of outcomes and their probability of occurrence.

**Section or segment**

A self-contained part or piece of an infrastructure asset.

**Service potential**

The total future service capacity of an asset. It is normally determined by reference to the operating capacity and economic life of an asset. A measure of service potential is used in the not-for-profit sector/public sector to value assets, particularly those not producing a cash flow.

**Service potential remaining**

A measure of the future economic benefits remaining in assets. It may be expressed in dollar values (Fair Value) or as a percentage of total anticipated future economic benefits. It is also a measure of the percentage of the asset's potential to provide services that are still available for use in providing services (Depreciated Replacement Cost/Depreciable Amount).

**Strategic Longer-Term Plan**

A plan covering the term of office of councillors (4 years minimum) reflecting the needs of the community for the foreseeable future. It brings together the detailed requirements in the council's longer-term plans such as the asset management plan and the long-term financial plan. The plan is prepared in consultation with the community and details where the council is at that point in time, where it wants to go, how it is going to get there, mechanisms for monitoring the achievement of the outcomes and how the plan will be resourced.

**Specific Maintenance**

Replacement of higher value components/sub-components of assets that is undertaken on a regular cycle including repainting, building roof replacement, cycle, replacement of air conditioning equipment, etc. This work generally falls below the capital/maintenance threshold and needs to be identified in a specific maintenance budget allocation.

**Sub-component**

Smaller individual parts that make up a component part.

**Useful life**

Either:

- (a) the period over which an asset is expected to be available for use by an entity, or
- (b) the number of production or similar units expected to be obtained from the asset by the entity.

It is estimated or expected time between placing the asset into service and removing it from service, or the estimated period of time over which the future economic benefits embodied in a depreciable asset, are expected to be consumed by the council.

**Value in Use**

The present value of future cash flows expected to be derived from an asset or cash generating unit. It is deemed to be depreciated replacement cost (DRC) for those assets whose future economic benefits are not primarily dependent on the asset's ability to generate net cash inflows, where the entity would, if deprived of the asset, replace its remaining future economic benefits.

Source: IPWEA, 2009, Glossary