

Bridges

Community Assets – At the Core of Your Neighbourhood

What are the community assets?

The City of Willoughby boasts a large range of services which contribute to our quality of life. Most of these services rely on a pool of assets with a combined replacement value of more than \$760M.

Assets in Willoughby include all buildings, footpaths, roads, stormwater infrastructure, parks, bushland, sportsgrounds and playgrounds. Without these assets Council could not provide its present array of services. These assets are located on Council-owned land as well as land under Council's care and control.

Asset Management has been identified as a federal priority for local government across Australia, as all councils begin to face the issue of aging infrastructure.

Strategic management of these assets, guided by an asset management policy and plans, will ensure the needs of communities are being determined and met, and funding sources for asset renewal are secured for the future.

Managing our assets

Much of the city's infrastructure was built in the first half of the 20th century and an intense period of construction of community buildings took place in the 1970s and again in the 1990s. Many of these assets are already due for replacement, and Council has been undertaking a continual replacement and upgrade program to meet the needs of a growing city. Planning has now begun for the large number of these assets that will be due for replacement around the same time, particularly over the next two decades.

Willoughby City Council has collected the vast majority of data required to produce its Asset Management Plans. They can be accessed from Council's website. These 20 year strategic plans provide scenario-based expenditure projections for nine classes of assets.

The next step for Willoughby is to ascertain the community's priorities and determine the acceptable condition, capacity, functionality, location and quantity of our assets.

Have Your Say

Willoughby Council is seeking feedback from the community to determine the acceptable level of service provision.

We need to know how you use community assets, whether they meet your expectations and how we should prioritise future works so we can develop strategies for their management.

Consultation will seek your opinions about community assets in terms of physical condition and appearance, capacity, fitness for purpose and whether there are enough of them in the right places.

Visit www.haveyoursaywilloughby.com.au to be involved in the online forum and to receive project updates. Council will also hold community workshops, public meetings and information stalls through 2013.



Bridges

Replacement value: \$10.3M

- 21 Major bridges
- 8 major culverts
- 42 minor structures

Bridges are an integral part of the roads and transport network. They connect many pedestrian, bike and vehicle paths. Five of the bridges maintained by Council carry vehicular traffic; the remainder carry pedestrians and are mostly located in parks and reserves.

Willoughby Council is responsible for 71 bridges in total, which fall into three categories. These are:

Major bridges: bridges and other suspended structures, such as suspended decks and ramps.

Major culverts: pedestrian subways and stormwater culverts.

Minor structures: bridges, culverts and other suspended structures that are generally minor in dimension, and may cover boardwalks and stairways, with a cross-sectional area of less than three square metres spanned by the structure.

There are also other bridges, culverts and suspended structures within Willoughby whose maintenance responsibility lies with other agencies such as RailCorp, Sydney Water and NSW Roads and Maritime Services.

Physical condition

Most major bridges are in fair condition, with none having been rated as poor or very poor. Major culverts are in a similar condition, except for one culvert that has been placed in the worst category of 'critical'. Works have commenced on surrounding infrastructure to stabilise the culvert.

80 per cent of minor structures are in good condition with a rating of two out of five, and none have received an end-of life rating of five.

Average condition rating for major bridges and culverts:

| Fair/Satisfactory | Poor/Monitored | Very poor/Critical |
|-------------------|----------------|--------------------|
| | | |

Average condition rating for minor structures:

| Brand new (0) | End of Life (5) | | | |
|---------------|-----------------|--|--|--|
| | | | | |

The condition rating scale for major bridges and culverts is based on either the bridge condition number (BCN) or culvert performance score (CPS), each of which considers a large number of possible defects for each component that makes up the bridges or culverts. Minor structures are rated on a scale of zero to five, where zero means the asset is in brand new or excellent condition and five means the asset is at the end of its life and no longer able to provide service.

Operations and maintenance

Work carried out on bridges includes all necessary maintenance and repairs identified in routine inspections that are carried out annually by Willoughby City Council, as well as more rigorous inspections carried out every three years.

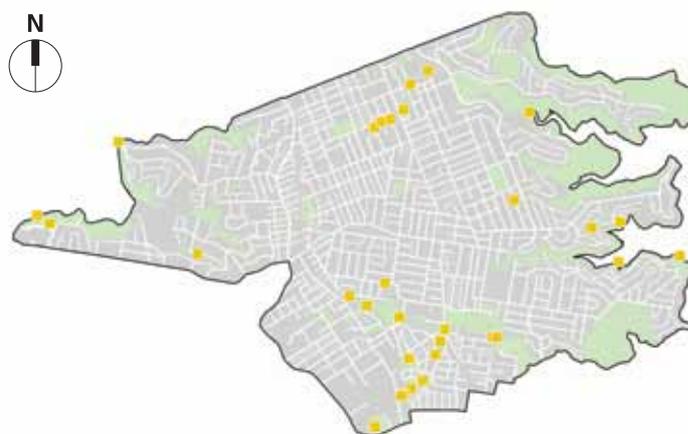
Historically, bridge assets within the City of Willoughby have not been recognised as a separate asset class with its own funding source. Since bridges are a connecting element in road segments or footpaths, works on bridges have always been categorised under those respective asset groups. This is no longer the case.

Planning for the future

Bridges were originally designed to meet the design standards applicable at the time of construction. Some older structures may need to be assessed to determine if their loading capacity is relevant and meets contemporary bridge design standards.

Vehicle and pedestrian bridges meet current demands, while culverts may need to be assessed as part of the Council's floodplain risk management process for stormwater.

A recent detailed assessment of all bridge assets revealed a culvert under The Bulwark with some signs of distress. Works are currently underway to address this issue. A bridge at Lower Gibbes Street was found to require scour protection at the creek line and the jetty structure at Northbridge Baths shows signs of distress. Options for rehabilitation are being prepared.



■ Location of major bridges and culverts

City of Willoughby

