



Asset Management Plan

Streetscapes

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1. EXECUTIVE SUMMARY

Council has indicated a desire to improve the aesthetics of town centres and the **Community Strategic Plan** (2010) includes –

Sustainably develop the City's major town centres of Nowra, Vincentia and Ulladulla to include attractive public spaces, entertainment and recreation options for the community.

The cost estimate to undertake refurbishment projects to the above three town centres is \$11.5Million. This is currently above current funding levels and the achievement of the above Objective will be a long term project.

Council's adopted '**Resourcing Strategy 2010/11**' recognises the increasing difficulty in funding new services and states –

... if services are to be maintained at current levels for our existing and growing community, then it is likely that we will see the progressive reduction of our capital expenditure capacity over time, and hence a decreasing ability to renew existing assets and infrastructure as well as provide new and enhanced facilities.

The Resourcing Strategy advises on council's '*core sustainability principles*' and rates the provision of funding for capital works for town centres (being classed as - 'Assets Upgrade – Increased Service') as priority 5 out of 7 with funding source to be from 'new recurrent and capital revenue, within sustainable parameters'.

Accordingly, unless town centre works are primarily needed due to 'failed' assets/paths, provision of funding under the guidelines of Council's Resourcing Strategy would be of low priority.

Nevertheless, Council has allocated additional funds over the last few years to improve the town centres at Nowra & Ulladulla including funding of about \$1.4Million for the Ulladulla Harbour Boardwalk.

1.1. The Purpose of the Plan

This Plan has been developed to guide Council and the community with regard to the Level of Service to be provided for the operating/maintenance of Streetscapes and to list and prioritise future capital works.

1.2. Asset Description

The assets of town centres consist of footpaths, kerb & gutter, drainage, road pavement, signs, street furniture and landscaping. However, these assets have been recognised in other Asset Management Plans (AMPs) with their maintenance/renewal costs recognised in those Plans. The aim of this AMP is to specify standards and upgrade priorities/costs.

The town centres subjects of this AMP are as listed below and as shown on the maps of Appendix 1 –

- Berry

- Kangaroo Valley
- Bomaderry
- Nowra
- Culburra Beach
- Huskisson
- Vincentia
- Sanctuary Point
- St Georges Basin
- Sussex Inlet
- Milton and
- Ulladulla

As other town centres (e.g. Shoalhaven Heads) are developed, consideration will be given to including those town centres in this AMP.

1.3. Levels of Service

The current Levels of Service for landscape maintenance, street sweeping and litter bins are shown in Appendices 2, 3 & 4. In general, the Roads Service Agreement (or internal specification) specifies that repairs to CBDs are to be treated as URGENT. Monthly (on foot) inspections are also specified to ensure defects/hazards are promptly detected.

The current Levels of Service for maintenance and operating are considered *sustainable* but not ideal.

The Level of Service for Augmentation Works (major streetscape upgrades) is not considered satisfactory with regard to community expectations and statements in the Community Strategic Plan.

However, the undertaking of such enhancement works is of low priority under Council's *Resourcing Strategy*.

1.4. Future Demand

There are ongoing community requests for the enhancement of CBDs and also the provision of Village Gateway Signage. Whilst the provision of Gateway Signage may be completed under future programmes, it is considered there will always be a demand to 'renew & enhance' the appearance of CBDs. It is estimated that the useful life of any CBD refurbishment is about 30 years due to perceptions of aesthetics more than failure of the assets.

1.5. Lifecycle Management Plan

The current Levels of Service for maintenance/operating are considered sustainable; however, additional funding as follows is required to achieve ideal Level of Service –

- Landscaping \$32,000
- Street Litter Bins (\$25,000)
 - It is considered that there is the option to reduce the number of street litter bins and hence reduce costs.

The budget for furniture maintenance is high for 2012/13 compared to expenditure in previous years; however, it is unlikely that this level of expenditure will continue.

The list of identified Town Centre improvement works is shown at Appendix 6 and the list includes (at the beginning) those projects considered to be of higher priority. The total value of these higher priority projects is about \$1,525,000.

The total identified financial commitment on council for all identified town centre improvements is about \$18Million. To complete all these works within 30 years as well as undertake the additional refurbishment works that will arise during this period will require annual council funds of about \$1Million.

It is considered necessary for Council to review funding options for CBD refurbishments to ensure that funds are not diverted from other high priority services. Use of local special rates or developer contributions (Section 94) should be considered as well as a review of design standards with the aim of reducing construction costs.

In this regard it is noted that Council has previously requested a review of DCP80 with regard to more use of concrete in lieu of pavers as a path surface material and again resolved in June, 2012 to amend DCP80 to allow for concrete rather than pavers for footpaths in CBDs.

With regard to Village Signage it is considered that additional average annual funding of \$36,000 is required if all signage is to be completed within a 10 year period.

It is considered that maintenance funding is reasonable with additional funds of \$40,000 required if 'ideal' level of service is to be attained. This is primarily required for Landscape Maintenance. However, it is noted that there appears to be over-servicing of the street litter bins and annual savings of about \$25,000 could be achieved if the number of bins were reduced. This would need to be undertaken in close consultation with the operators of the commercial premises.

1.6. Financial Summary

The predicted funding levels for 'ideal' level of service compared to current funding levels are shown in the following table. It is to be noted that there is a significant funding shortfall for CBD Refurbishments but not for maintenance.

Activity	Current Funding Level 2012/13 Budget	Ideal Funding Level	Annual Funding Gap
Maintenance			
Landscaping	\$160,000	\$192,000	\$32,000
Sweeping, path cleansing & (hand) Litter Collection	\$412,000	\$412,000	\$0
Litter Bin Collection (assume 65% of total as per bin schedule)	\$252,200	\$227,200	(\$25,000)
Furniture Repair/Painting	\$80,000	\$40,000	(\$40,000)
Sign Repair (assume sign repair budget in Traffic Facilities Allocation for 2007/09 & same amount for subsequent years)	\$20,000	\$25,000	\$5,000
Maintenance Totals	\$924,200	\$896,200	(\$28,000)
Capital			
CBD Major projects (current funding is average for past 5 years)	\$200,000	\$1,000,000	\$800,000
Village Identification Signage (current funding is proposed annual average as per 10 Yr Financial Plan)	\$20,000	\$56,000 (recommended 10 year program)	\$36,000
CBD Minor Capital Works	\$0	\$40,000	\$40,000
CBD Landscape Refurbishment	\$0	\$20,000	\$20,000
Capital Totals	\$220,000	\$1,116,000	\$896,000
Grand Totals	\$1,144,200	\$2,012,200	\$868,000

1.7. Asset Management Practices

The preferred internal service provider, Works & Services, under the Roads & Parks Service Agreements, will generally undertake all maintenance activities in accordance with both the Risk Management Procedures and this Asset Management Plan.

The provision of new works will generally be undertaken in accordance with the adopted Capital Works Program by both Works & Services and external contract.

1.8. Monitoring and Improvement Programme

The following actions are proposed to improve service planning and execution.

Recommendations –

1. Review funding options for CBD refurbishments eg Section 94 or Special Rates
2. Review design standards including DCP80 to minimise future capital refurbishment costs
3. Review the service level for street litter bins with the aim of reducing the extent of bins

*Shoalhaven City Council
Asset Management Plan - Streetscapes*

4. Consider additional annual funding of \$32,000 for 'Landscape Maintenance'
5. Adopt Appendix 5 as the Village Signage Strategy and priority list
6. Consider additional annual funding to complete all Village Signage within 10 years
7. Review cost centres to enable transparency in annual CBD operating/maintenance costs and annual budgets.
8. Review existing Service Agreements and draft a specific Agreement for Town Centres to clarify levels of service.
9. Review management arrangements for Town Centres to ensure clarity in responsibility for final outcomes.
10. Consider the provision of \$40,000 annually in the CWP for 'CBD Minor Improvements' with the annual program to be reported to Council for approval
11. Consider the provision of \$20,000 annually in the CWP for 'CBD Landscaping Refurbishments'

2. INTRODUCTION

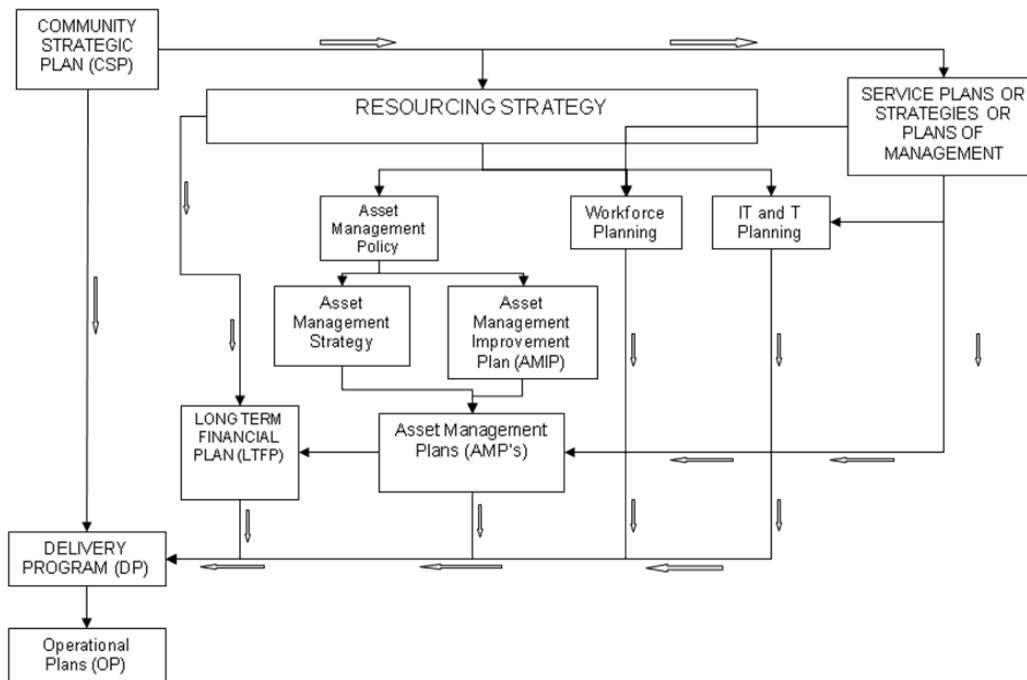
2.1. Background

Shoalhaven City Council places priority on having attractive, vibrant and sustainable town centres so that they are popular destinations.

The aim of the Streetscape Program is to specify the standard of maintenance to town centres and the priorities (and costs) for upgrading of the town centres.

This Asset Management Plan (AMP) is to assist Council to meet its goals and objectives in a way that best serves the community. It provides a framework for future management of Streetscapes within the Council area based on current and historical information.

Council has approximately thirty (30) Asset Management Plans which are divided based on each asset types. The following flow chart indicates the role Asset Management Plans play within Council's integrated planning framework.



2.2. Goals and Objectives of Asset Ownership

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

Our goal in managing infrastructure assets is to meet the defined level of service (as amended from time to time) in the most cost effective manner for present and future consumers. The key elements of infrastructure asset management are:

- Providing a defined Level of Service (LoS) and monitoring performance,
- Managing the impact of growth through demand management and infrastructure investment,

- Taking a lifecycle approach to developing cost-effective management strategies for the long-term that meet the defined Level of Service (LoS),
- Identifying, assessing and appropriately controlling risks, and
- Having a Long Term Financial Plan (LTFP) which identifies required, affordable expenditure and how it will be financed.

Council is also committed to ensuring that the facilities provided are maintained to a standard which suits the purpose in a cost effective and sustainable manner by ensuring available resources are effectively applied. It is recognized that it is neither reasonable nor practical to target zero defects.

However it is an objective to have an acceptable level of defects and none that affect customer health and safety or facilities' structural integrity. This is achieved through preventative maintenance.

The desirable situation is that the annual capital works and maintenance programs need to allocate sufficient resources to ensure these objectives are obtained.

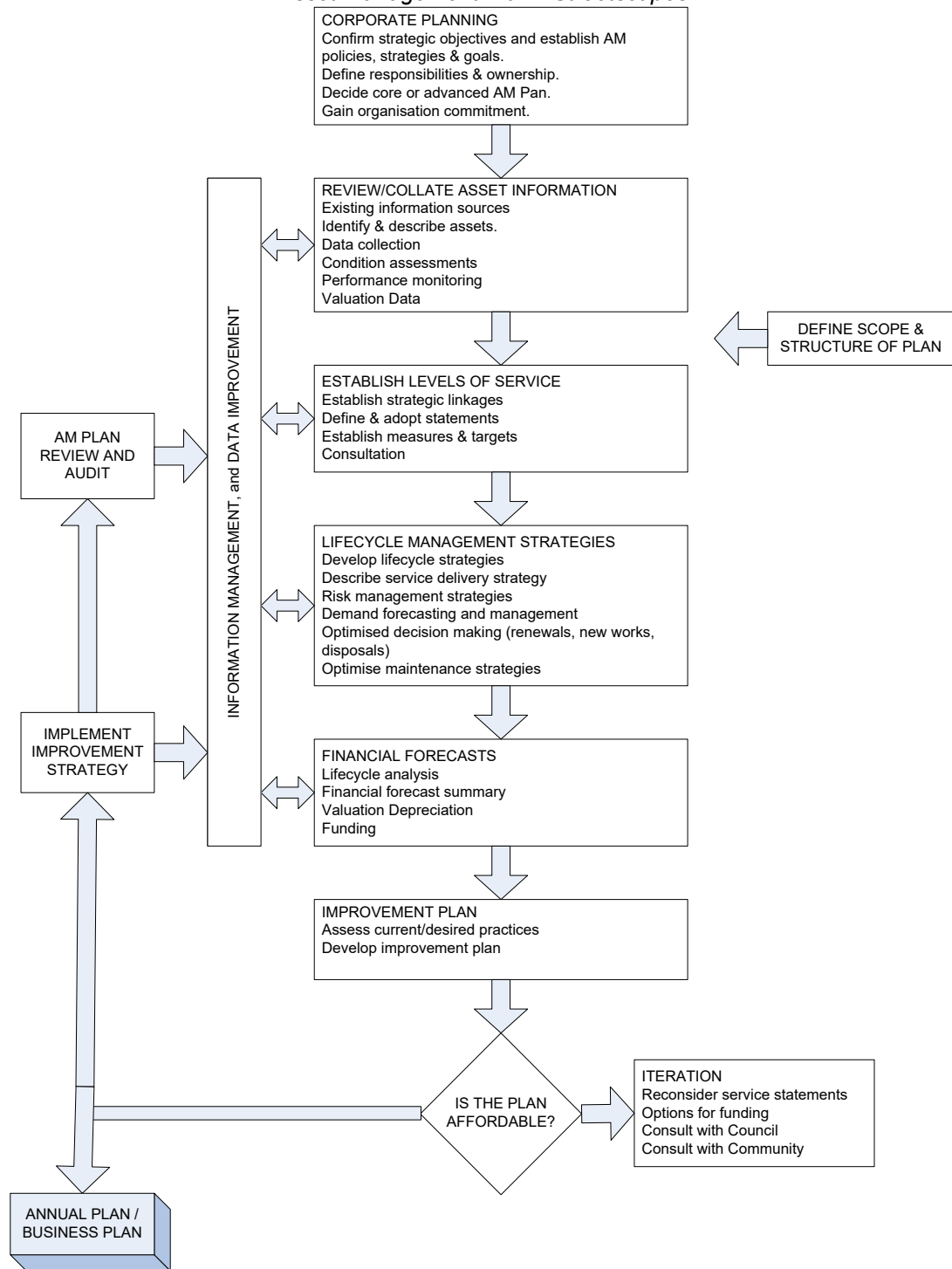
2.3. Plan Framework

The basic key elements of the AMP consists of:

- Level of service – specifying 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 Council will manage its existing and future assets to provide the required services
- Financial summary – what funds are required services
- Plan Improvement and Monitoring – how the plan will be monitored to ensure it is meeting Council's objectives

A road map for preparing an asset management plan is shown below:

**Shoalhaven City Council
Asset Management Plan - Streetscapes**



Road Map for preparing an Asset Management Plan
Source: IPWEA, 2006, IIMM, Fig 1.5.1, p 1.11.

2.4. Core and Advanced Asset Management

This asset management plan is prepared as a ‘core’ plan in accordance with the *International Infrastructure Management Manual*. It is prepared to meet minimum 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.

Future revisions of this plan will move towards 'advanced' asset management using a 'bottom up' approach for gathering asset information to support the optimisation of activities and programs to meet agreed service levels.

2.5. Community Consultation

This 'core' asset management plan has been prepared with minimal community consultation but will facilitate feedback on public display on the draft plan prior to adoption by Council. Future revision of this plan will incorporate community/business chamber consultation on service levels and costs of providing the service. This will assist the council and the community in matching the level of service with the community's ability and willingness to pay for the service.

3. LEVELS OF SERVICE

3.1. Customer Research and Expectations

Community consultation, generally with the local 'Chambers of Commerce', with regard to major proposed works is undertaken for both landscape refurbishment and capital works.

The Capital Works Program is publically advertised annually as part of the annual process for adoption of the Delivery Program and Operational Plan.

This Asset Management Plan will be advertised for public exhibition before adoption.

3.2. Strategic and Corporate Goals

The adopted *Community Strategic Plan* lists as an objective that –

- Major town centres are attractive, vibrant and popular destinations

The *Community Strategic Plan* also lists as strategy/action(s) –

- 1.5.1 – Sustainably develop the City's major town centres of Nowra, Vincentia and Ulladulla to include attractive public spaces, entertainment and recreation options for the community.
- 1.5.2 – Develop and progressively implement beautification plans for town entrances and major town thoroughfares.

These are clear indicators of Council's vision to improve the aesthetics and attractiveness of town centres.

3.3. Legislative Requirements

There are no specific legislative requirements affecting council's Streetscape Programme. However, the Local Government Act 1993 requires local government to undertake the preparation of long term financial plans supported by asset management plans to enable sustainable service delivery.

3.4. Current Level of Service

The current levels of service are as shown in the Appendices for landscaping, cleansing and litter bins.

3.5. Desired Level of Service

The desired levels of service are as indicated in Section 5 with the funding summary shown in the table in Section 6.1.

The current levels of service are considered reasonable except for the implementation of capital refurbishment works.

4. FUTURE DEMANDS

4.1. Demand Drivers

Drivers affecting demand include population change, changes in demographics, seasonal factors, increasing and/or new development, customer preferences and expectations and economic changes.

4.2. Demand Forecasts

There is an ongoing expectation that town centres will be safe, accessible and of quality landscaping. There is currently no analysis available to predict the future rate of development and/or redevelopment and hence to forecast the need to upgrade town centres.

4.3. Demand Impacts on Assets

Higher visitation to town centres will impact on both hard and green landscaping. Whilst consent conditions will generally require developers to upgrade footpaths & landscaping adjacent to their development, there is generally a need for Council to also undertake works to 'blend the old with the new'.

4.4. Demand Management Plan

There is currently no Demand Management Plan. However, the cost to council to undertake major refurbishment works in town centres is (where possible) reduced by development consent conditions and Developer Contribution Plans.

4.5. Asset Programmes to Meet Demand

Council executes an annual Streetscape Capital Programme with funding of \$1.4Million expected over the next 10 years.

5. LIFECYCLE MANAGEMENT PLAN

Council have formed a committee the *Nowra CBD Action* to provide advice and recommendations on Levels of Service for the Nowra CBD especially regarding graffiti, cleanliness and maintenance with the view of maintaining the area consistent with the values of Council's exhibited CBD Masterplan.

Any recommendations from this committee that are adopted by Council will need to be reflected in this AMP.

5.1. Background Data

The town centres subjects of this AMP are as listed below and as shown on the maps of Appendix 1 –

- Berry
- Kangaroo Valley
- Bomaderry
- Nowra
- Culburra Beach
- Huskisson
- Vincentia
- Sanctuary Point

- St Georges Basin
- Sussex Inlet
- Milton and
- Ulladulla

As other town centres (e.g. Shoalhaven Heads) are developed, consideration will be given to including those town centres in this AMP.

Consideration of funding levels to achieve specified condition is not applicable for Streetscapes as asset condition is covered in the specific infrastructure AMPs (eg Kerb & Gutter, Footpaths). This AMP is primarily to specify Levels of Service for operating and maintenance and to detail priorities for capital enhancement/new programmes.

5.2. Infrastructure Risk Management Plan

The *Risk Management Procedures* for Roads, Footpaths & Kerb & Gutter apply equally to town centres.

In addition, the Roads Service Agreement specifies extra audits for town centres, viz – “It is required that all town centres, as defined in Schedule 4, be maintained to a high standard. To achieve this outcome it is a requirement that all locations will be inspected (on foot) every month to list any defects. Priority shall be given to footpath repairs and signage and any defects noted for these activities shall be corrected as a high priority.”

5.3. Routine Operations and Maintenance Plan

5.3.1. General

Town Centres are inspected on a monthly basis to identify any hazards and/or repairs. The identified works are undertaken as ‘urgent’ works. This inspection process has been specified to ensure a high level of presentation for the town centres.

Regular schedules have also been introduced for sweeping, cleansing, landscaping and litter bins to ensure regular and adequate servicing.

Appendix 7 is a report to the Nowra CBD Working Group detailing practices for maintenance and cleaning in Nowra CBD.

5.3.2. Landscape

All landscape improvements within the town centre locations are identified and there is a separate annual budget for their maintenance. An allowance is also included for renewal of plantings and mulch.

Appendix 2 indicates the current level of service and costs compared to the ‘ideal’ level of service. Additional funds of about \$32,000 are estimated as required to provide the ‘ideal’ level of service.

5.3.3. Sweeping & Cleansing

Appendix 3 indicates the current level of service for *sweeping & cleansing*. The current annual budget for this activity is \$412,000 of which about \$166,000 is for Nowra.

For a number of years there has been a specific staff member with a small footpath sweeper for Nowra CBD with the position entailing a 7 day roster at night.

- Sunday - 8:30pm to 5:30am

- Monday to Saturday – 9:30pm to 5:40am
- The person also visits Bomaderry during these shifts
 - Tuesday & Thursday – for 1.6 hours
 - Wednesday & Friday – for 0.6 hours

However, this has been reviewed and it is intended to now undertake cleaning works with a small crew starting pre-dawn.

5.3.4. Litter Bins

There are currently about 540 street litter bins with about 302 street litter bins within town centre boundaries. The 2012/13 budget Citywide for servicing and repairing/replacing street bins is \$388,000. Hence, the estimated cost for servicing litter bins in town centres is \$252,000 (65% of total) allowing a higher unit rate due to extra cleaning and restricted access. Previous audits of the bins have indicated that they are heavily used by adjacent shop owners. It is considered that a considerable number of bins could be removed; preferably in conjunction with an education strategy involving business owners. It is considered that an annual saving of about \$25,000 could be achieved.

The bin numbers at the town centres are –

- Berry – 29
- Bomaderry - 10
- Culburra Beach – 8
- Huskisson – 48
- Kangaroo valley – 18
- Milton – 21
- Nowra – 59
- Sanctuary Point - 2
- Sussex Inlet – 21
- Ulladulla – 65
- Vincentia – 17

During the peak holiday period the number of services are increased where required. The normal & holiday schedules are shown at Appendix 4.

Nowra CBD has a higher level of service than other areas and bins in Junction and Kinghorne Sts are replaced with clean bins every 2 weeks and the bin surrounds cleaned.

5.3.5. Signs & Furniture

It is important to repair signs in town centres as the need arises especially the regulatory signs. This funded from within the Road Sign Maintenance budget. 'Defects' are identified for signs and furniture by the monthly inspections and/or customer reporting.

An annual allowance is also made for refurbishment of furniture to ensure regular cyclic painting and this is undertaken on a 3 to 5 year cycle.

5.4. Renewal/Replacement Plan

Streetscape works to CBDs/Town Centres involve a mix of renewal works and new/enhancement works. Generally the *hard* assets such as paths & kerb do not reach the end of their useful life as the driver for works is generally from an aesthetic and/or economic basis.

Accordingly, the preparation of a Renewal Plan is not applicable. All *Streetscape* works will be considered to be *Augmentation*.

5.5. Creation/Acquisition/Augmentation Plan

The development of the town centres are detailed in the relevant Development Control Plan (DCP) for that location. Council is committed to improving town centres and it is expected that this demand will continue. DCPs may be varied over time and hence the extent of required works may change with time.

The draft Nowra CBD Masterplan has identified possible future improvements and those within the CBD locality have been included in this AMP; however, the cost estimates are only (very) preliminary. These include –

- New Gateway Park in Moss St
- Egan Place Town Square and
- Stewart Place – civic place

Future development may also extend the number of town centres but this is expected to be minimal.

5.5.1. Village Identification Signage

Council has been progressively installing identification signage at village entries. The provision of these signs is detailed in the *Interim Policy for Public Information Signs*. Recent projects include Basin View, Bawley Point, Berry, Callala Bay, Vincentia, Huskisson and Milton. Major entry signs have also recently been installed to both the northern and southern entrances to Ulladulla.

A review of the signage applicable for each ‘village’ in accordance with the *Interim Policy for Public Information Signs* has been undertaken and recommended signage details for each village are shown at Appendix 5. Appendix 5 also includes a priority list for provision of major town/village signage.

The estimated costs to provide the additional signage are –

- | | |
|------------------------------------|-------------------|
| • Town Gateway Signage (2 off) | - \$140,000 |
| • Highway intersections (4 off) | - \$200,000 |
| • Village Identification (17 off) | - \$200,000 |
| • Locality Signs (Splash) (44 off) | - <u>\$18,000</u> |
| • Totals | \$558,000 |

The annual average funding indicated in the 10 Year Financial Plan is \$20,000. If this funding level is maintained, all entry signage will be completed within 28 years. It is considered that additional funding should be provided to enable all additional signs to be provided within 10 years (by 2022/23). That is, annual average funding of \$56,000.

Existing identification signage to other (smaller) villages has been provided by a standard ‘splash’ sign design. Funding has been provided to renew these signs over the next 3 years and some of this funding may be available to provide some of the required additional ‘splash’ signs.

5.5.2. Town Centre Refurbishment

5.5.2.1. General

In February, 2007, Councillors considered, at a briefing session, the development of a *Streetscape Strategy*. Apart from major projects, the need to provide annual funding for *Minor Capital Works (minor projects of up to \$40,000)* and *Landscape Refurbishment (make-over to existing landscape beds)* was raised and the provision of funding to these types of projects is still relevant.

The provision of these 2 types of funding would have a good cost benefit to improving the overall aesthetics to town centres and the need for ongoing funding could be reviewed after 5 years.

5.5.2.2. Minor Capital Works

It is recommended that annual funding of \$40,000 be provided and that the matter be reported to Council each year to confirm the project(s). Projects would include works such as - renewal of small path lengths, installation or renewal of landscaping and furniture.

5.5.2.3. Landscape refurbishment

It is recommended that annual funding of \$20,000 be provided. The funding to be used for the refurbishment of existing landscaping to ensure ongoing high quality plantings in town centres. This funding would be additional to the annual "Road Tree Planting" budget which is currently about \$40,000/annum.

5.5.2.4. Major Refurbishment Projects (incl Town Entrance Improvements)

The design and extent of town centre refurbishment is guided by the relevant CBD Development Control Plan.

The relevant DCPs are –

- Berry – DCP49
- Kangaroo valley – DCP66
- Bomaderry – DCP16
- Nowra – Draft CBD Masterplan
- Huskisson – DCP54
- Culburra Beach – DCP30
- Sanctuary Point – DCP23
- St Georges Basin – DCP17
- Sussex Inlet – DCP50
- Milton – DCP26 and
- Ulladulla – DCP56

Cost estimates for works to the town centres have been prepared and are shown at Appendix 6. The estimates are approximate only due to difficulty in determining the full extent of works prior to detailed design. The project list does not include funded projects and known locations where upgrading is to be undertaken as a development consent condition. The project list does not include all works included in the draft Nowra CBD Masterplan only those within the immediate CBD.

The total estimated cost for all town centres is about \$24 Million. Accordingly, it is unlikely that all works will be undertaken in the short term. Even allowing for works by developers and developer contributions (Sec. 94), the total estimated cost to council is about \$16 Million.

Excluding the Ulladulla Harbour Boardwalk project, the average annual funding over the past 4 years has been \$155,000 with \$400,000 in 2012/13. However, it is to be noted that the current 10 Year Financial Plan only indicates funding of about \$1.4Million over the next 10 years. At this rate of funding it will be about 110 years before all works could be completed

However, it is to be noted that an average 'useful life' for CBD works is about 30 years due to both the useful life of pavers and to changes in aesthetic desires by the public and Council. If the current expectations of Council, the public and commercial representatives are to be achieved then a capital expenditure of about \$1Million per annum is required to retain a high level of 'aesthetics' to town centres and to provide refurbishment to all locations over a 30 year period. This level of funding is not currently available.

Accordingly, it is essential to prioritise projects to best target available funding.

Appendix 6 details required works and includes suggested 'higher priority' projects for completion over the next 5 years at a total cost estimate of about \$1,530,000. Hence, it is recommended that annual average funding of at least \$300,000 be provided for 5 years as of 2013/14.

It is also recommended that a review be undertaken of design standards for town centres with the aim of reducing future capital funding needs. In this regard it is to be noted that Council have resolved to "...amend DCP80 which will allow for attractive concrete designs to be used in new footpaths throughout the [Nowra] CBD rather than pavers..".

5.6. Disposal Plan

The disposal of assets is not expected.

6. FINANCIAL SUMMARY

The following table lists the estimated expenditures for the past four years for maintenance and capital works. The expenditure does not include operating costs such as electricity & CCTV and repair costs for road & ancillary assets.

Estimated Expenditure	2008/09	2009/10	2010/11	2011/12
Maintenance				
Landscaping	\$98,000	\$117,000	\$90,490	\$88,480
Sweeping, path cleansing & (hand) Litter Collection	\$392,000	\$416,000	\$393,100	\$443,150
Litter Bin Collection (assume 65% of total as per bin schedule)	\$216,370	\$222,600	\$243,220	\$235,900
Furniture Repair/Painting	\$12,000	\$45,000	\$10,000	\$51,160
Sign Repair (assume sign repair budget in Traffic Facilities Allocation for 2007/09 & same amount for subsequent years)	\$20,000	\$20,000	\$20,000	\$20,000
Maintenance Totals	\$738,370	\$820,600	\$756,810	\$838,690
Capital				
CBD Refurbishment	\$226,600	\$241,500	\$1,178,070	\$1,905,090
Town Entrance Improvements	\$0	\$0	\$156,460	\$0
Village Identification Signage	\$31,500	\$66,000	\$65,730	\$21,513
Capital Totals	\$258,100	\$307,500	\$1,399,260	\$1,926,603
Grand Totals	\$1,023,100	\$1,155,500	\$2,156,070	\$2,765,293

6.1. Financial Statements and Projections

For future needs for Capital Expenditure, it is difficult to estimate accurate cost estimates for each town centre. This is primarily due to –

- Each town centre will be individually designed and will be of varying standard. Accordingly, the design & cost estimate cannot be confirmed until construction is imminent.
- It is not possible to accurately predict the extent of refurbishment works that will be undertaken by developers as a condition of consent. The extent will depend on the timing of development and council's construction timing as well as the 'size' of the developments. For the purpose of this AMP, the cost estimates for new works do not include allowance for developer works or financial contribution.

The following table indicates the current funding level and the recommended funding level.

Activity	Current Funding Level 2012/13 Budget	Ideal Funding Level	Annual Funding Gap
Maintenance			
Landscaping	\$160,000	\$192,000	\$32,000
Sweeping, path cleansing & (hand) Litter Collection	\$412,000	\$412,000	\$0
Litter Bin Collection (assume 65% of total as per bin schedule)	\$252,200	\$227,200	(\$25,000)
Furniture Repair/Painting	\$80,000	\$40,000	(\$40,000)
Sign Repair (assume sign repair budget in Traffic Facilities Allocation for 2007/09 & same amount for subsequent years)	\$20,000	\$25,000	\$5,000
Maintenance Totals	\$924,200	\$896,200	(\$28,000)
Capital			
CBD Major projects (current funding is average for past 5 years)	\$200,000	\$1,000,000	\$800,000
Village Identification Signage (current funding is proposed annual average as per 10 Yr Financial Plan)	\$20,000	\$56,000 (recommended 10 year program)	\$36,000
CBD Minor Capital Works	\$0	\$40,000	\$40,000
CBD Landscape Refurbishment	\$0	\$20,000	\$20,000
Capital Totals	\$220,000	\$1,116,000	\$896,000
Grand Totals	\$1,144,200	\$2,012,200	\$868,000

6.2. Funding Strategy

There is significant under-funding for capital works with a predicted timeframe of over 100 years to undertake all currently identified works as listed in village DCPs and the Nowra CBD Masterplan. This figure does not include for upgrading of commercial car parks.

The Resourcing Strategy currently gives priority to maintenance and renewal and hence there is a low priority for enhancement works.

Options for increasing income from 'new sources' needs to be investigated; such options should include Developer Contributions Plans & Special Rates.

6.3. Valuation Forecasts

Financial valuations are undertaken under the relevant asset categories – viz kerb&gutter, road pavement & surface, etc. Valuations are not undertaken for *Streetscapes*.

6.4. Key Assumptions Made in Financial Forecasts

The unit costs for footpath upgrading used for CBD improvements are based on the latest contract prices for recent works in Nowra and Ulladulla. The rates used to estimate project costs are –

- Nowra - \$650/sqm and
- Other locations - \$350/sqm

For Ulladulla and Huskisson, cost estimates prepared for the Developer Contribution Plans have also been used.

6.5. Forecast Reliability and Confidence

Expenditure on the Streetscapes Program is not easily accessible especially for operating and maintenance expenditure. The expenditure tables are 'best guess' only to give an indication of expenditure levels. Expenditure is currently booked against Parks & Gardens (for landscaping), Road Maintenance for path, kerb, pavement, signs & furniture repairs and elsewhere for operating costs (such as electricity & CCTV).

Consideration would need to be given to commencing a new cost centre of 'Streetscape' if detailed costing is required.

Preliminary cost estimates are 'best guess' only as there are no designs to base estimates upon and the extent of works to be undertaken by developers cannot be quantified.

7. PLAN IMPROVEMENT AND MONITORING

7.1. Status of AM Practices

- Financial
 - There are no current cost centres for 'Streetscapes' with budgets and expenditure spread over a number of centres. This should be changed to enable clear budgetary control and financial predictions.
- Service responsibility
 - Responsibility for the standard of service to town centres is currently split and there is no one single position with overall responsibility.
 - Service delivery for hard & green landscaping is specified under Service Agreements however these require review.

7.2. Improvement Programme

The following actions are proposed to improve service planning and execution.

Task No	Task	Responsibility	Resources Required	Timeline
1	Review Service Agreements for service provision and clarify required Levels of Service	Infrastructure Planning Manager Manager	Existing staff	March, 2013
2	Review financial cost centres and introduce a separate cost centre for 'Streetscape Program'.	Financial Services Manager	Existing staff	Include for 2013/14 Budget
3	Review responsibilities for service provision to town centres and nominate a position for overall responsibility.	Group Directors	Existing staff	February, 2013

7.3. Monitoring and Review Procedures

This asset management plan shall be reviewed during annual budget planning processes and amended to recognise any material changes in service levels and/or resources available to provide those services as a result of budget decisions.

7.4. Performance Measures

The following measures can be used as a guide to monitor performance of the Streetscape Program -

- Annual number of community action requests
- Number and value of public liability claims
- Extent of poor/very poor facilities within town centres

8. REFERENCES

There are no references other than the DCPs listed in Section 5.5.2.4 and the IPWEA, 2011, *International Infrastructure Management Manual*.

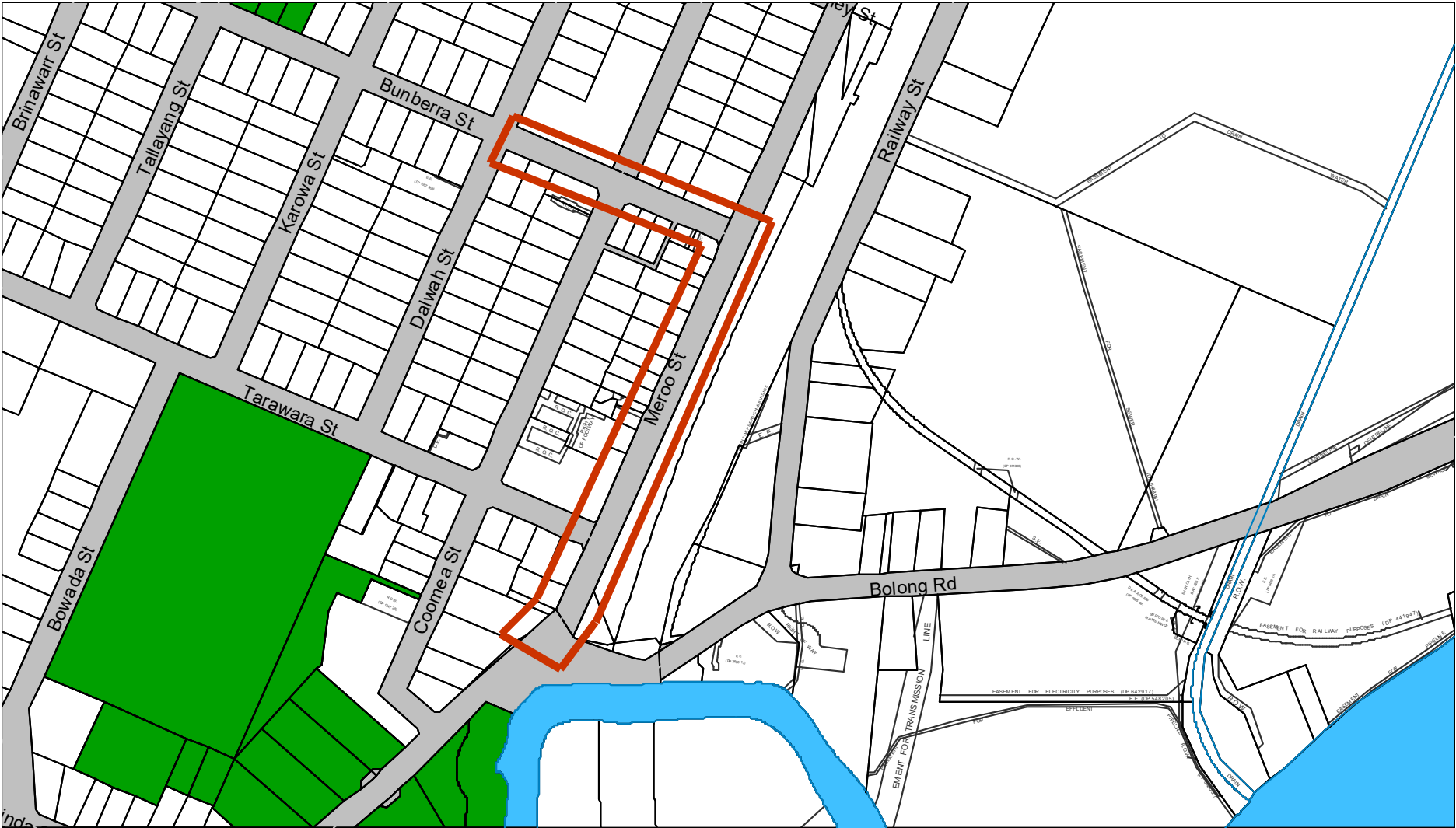
9. APPENDICES

Appendix 1	CBD Maps
Appendix 2	Landscape maintenance Servicing
Appendix 3	CBD Cleansing Schedule
Appendix 4	CBD Bin Schedule
Appendix 5	Village Identification Signage Strategy
Appendix 6	CBD Capital Works Strategy
Appendix 7	Nowra CBD Working Group – report of 30 th May,2012

10. REVIEW

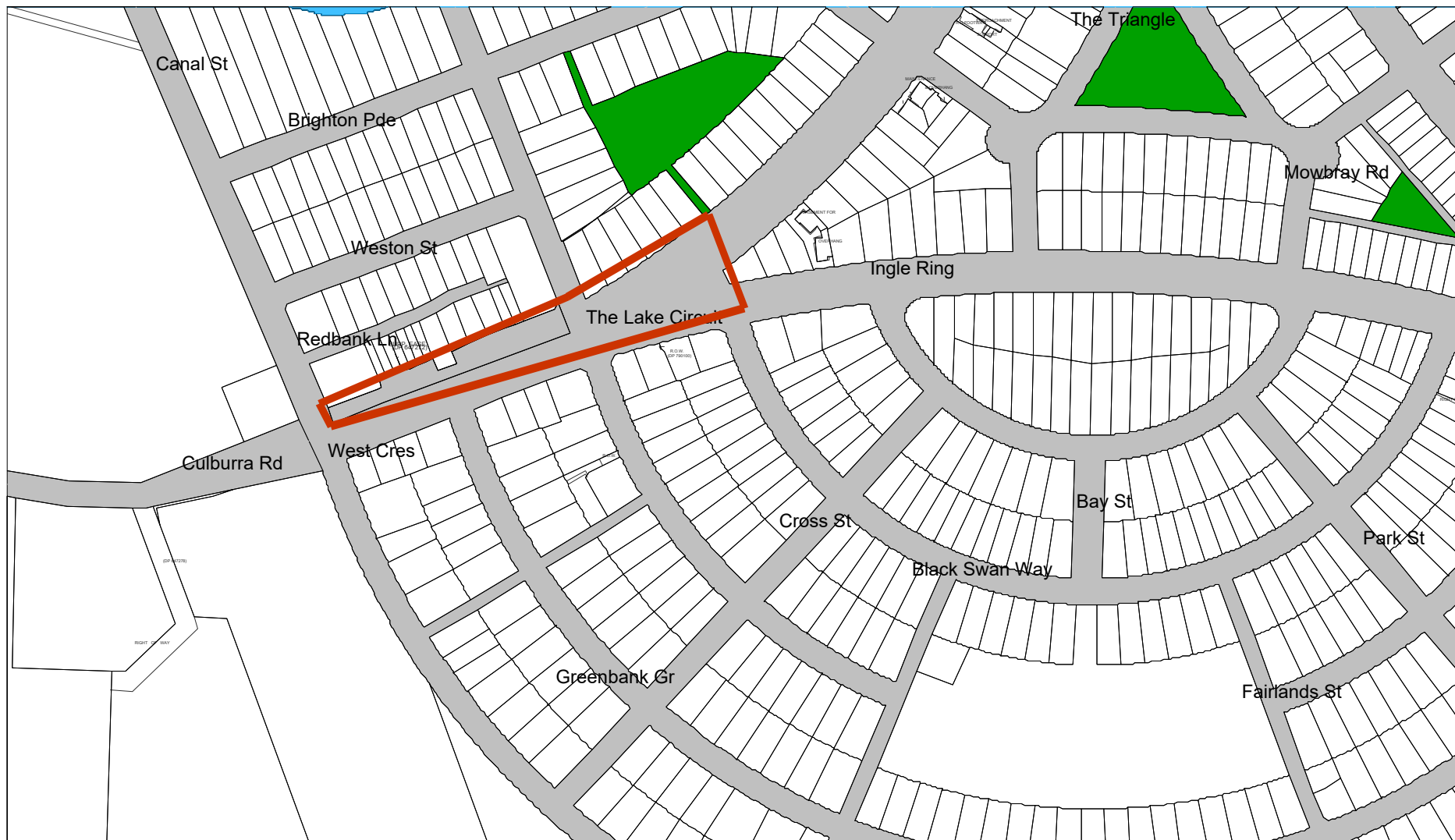
All Asset Management Plans are reviewed on a four yearly cycle and all reviews are undertaken within 12 months of the election of a new Council. The capital program will be reviewed annually in conjunction with the preparation of the draft Delivery Program and Operational Plan.

Bomaderry

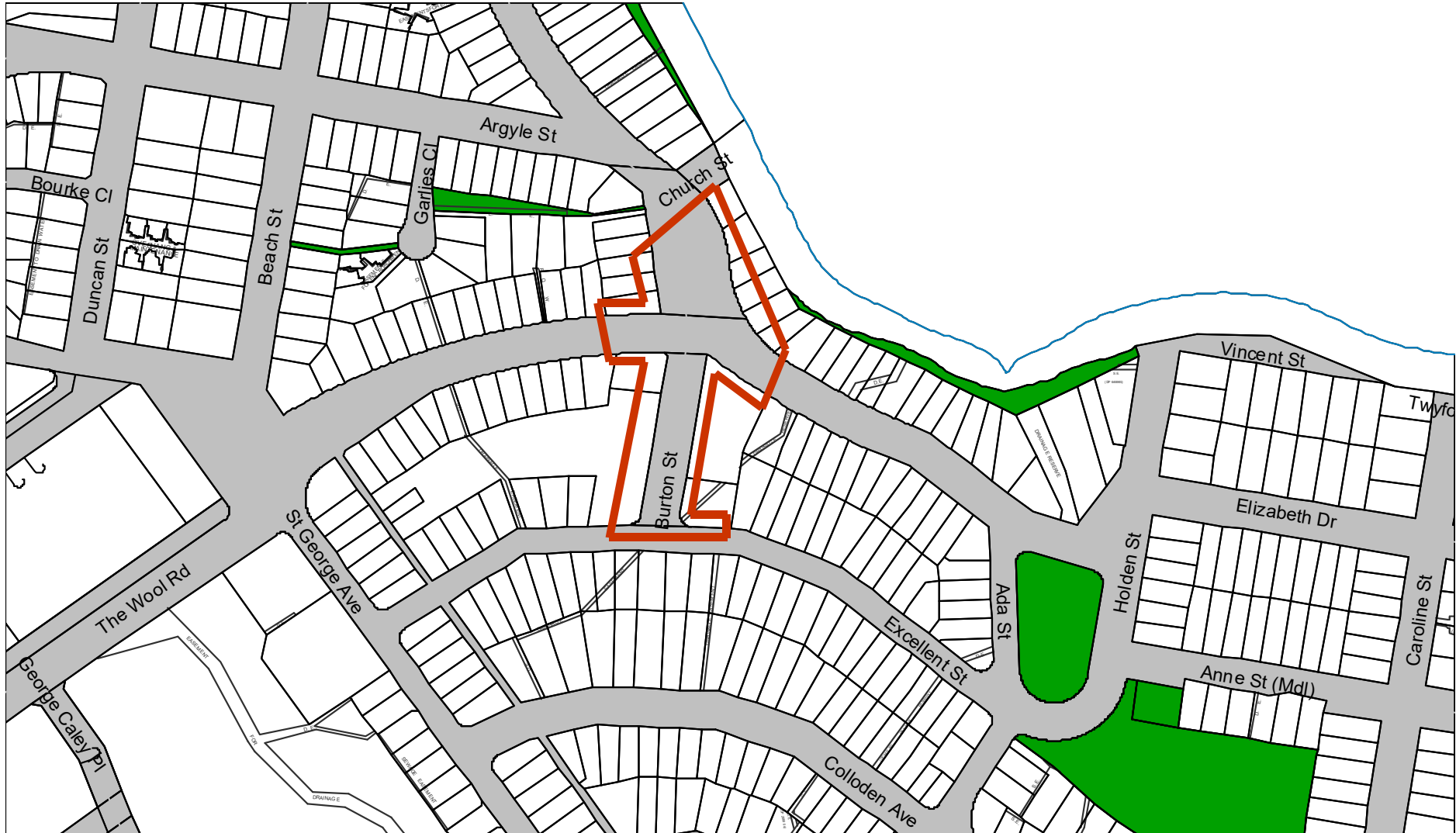


Culburra Beach

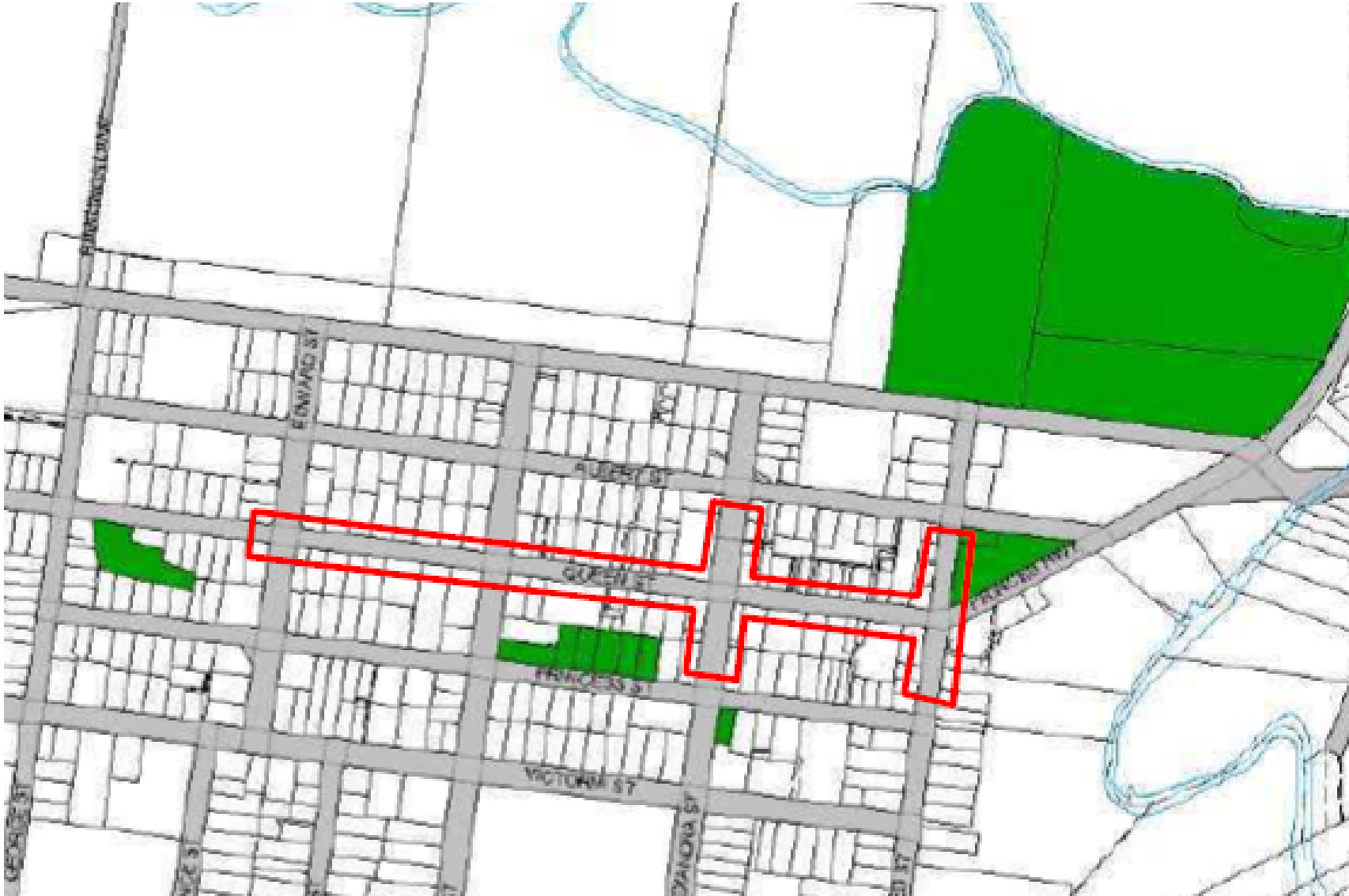
Penguins Head Rd



Vincentia



BERRY



NOWRA



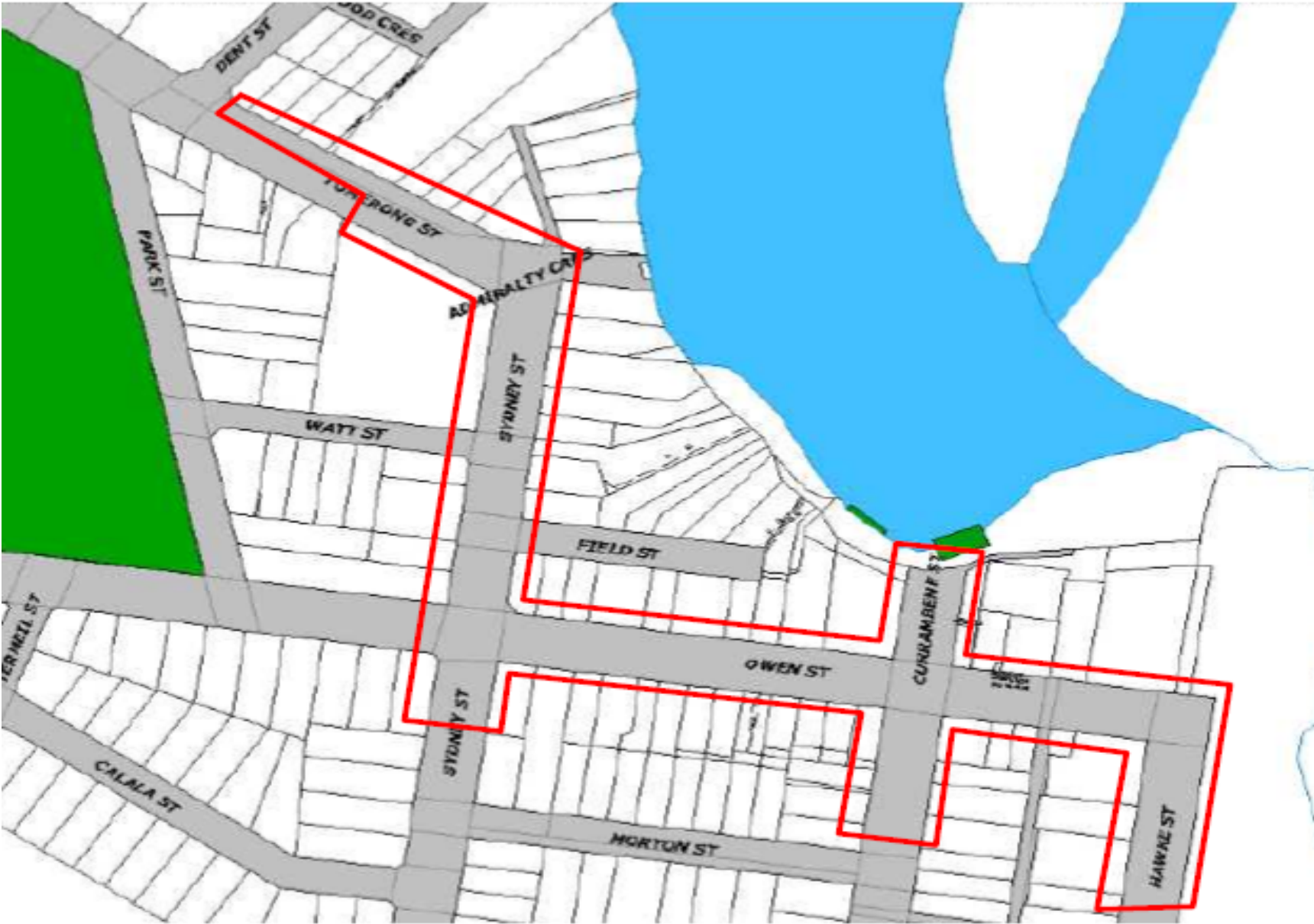
KANGAROO VALLEY



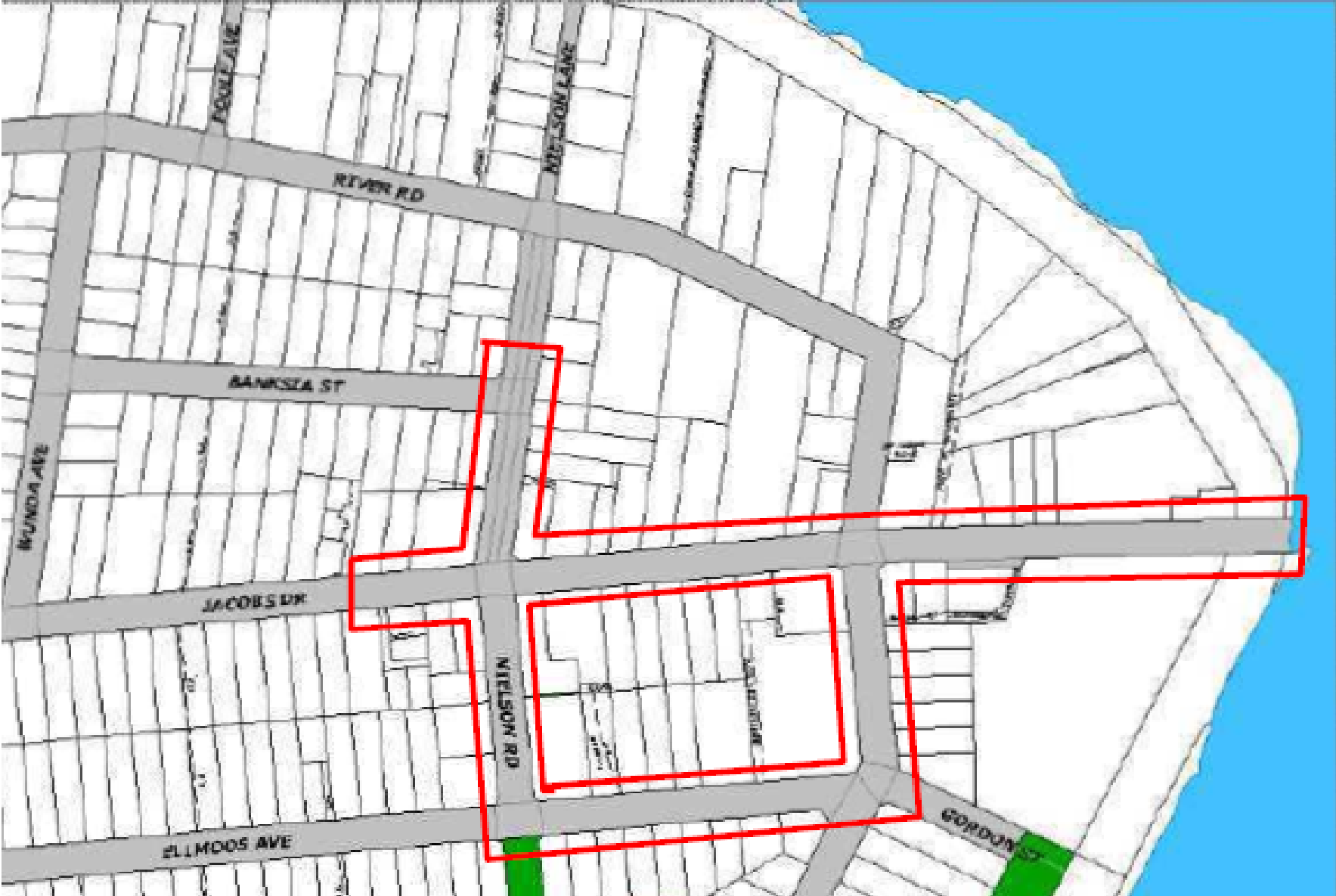
SANCTUARY POINT



HUSKISSON



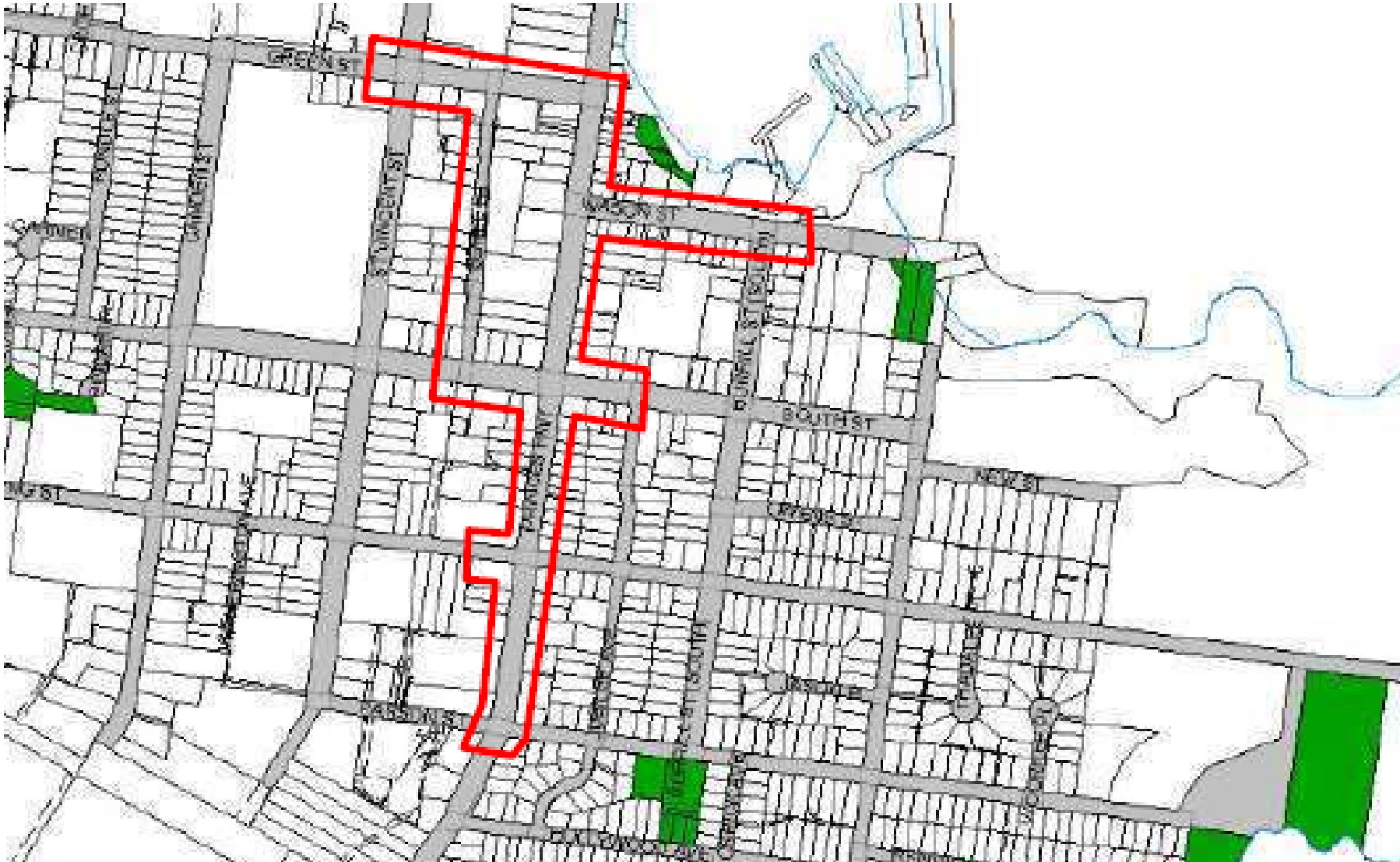
SUSSEX INLET



MILTON



ULLADULLA



Shoalhaven City Council
Asset Management Plan - Streetscapes

Town Centre Landscape Servicing

Streetscape AMP - Attachment 2

Location	Crew	Duration	Village	Current Monthly Service Frequency												Annual Services	Annual Cost	%	Ideal Monthly Service Frequency												Annual Services	Annual Cost	
				Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec				Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec			
Wason Street - Landscaping	SG	4	Ulladulla	0	0	0	0	0	1	0	0	0	0	0	0	1	\$200	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	\$200
Princes Highway Ulladulla - Landscaping	SG	3.85	Ulladulla	4	4	4	3	3	1	1	3	3	4	4	4	38	\$7,330	4	4	4	3	3	2	2	3	3	4	4	4	40	\$7,715		
Princes Highway Ulladulla - Landscaping	SB	10	Ulladulla	0	0	0	0	0	1	0	0	0	0	0	0	1	\$1,377	0	0	0	0	0	1	0	0	0	0	0	0	0	1	\$1,377	
Princes Highway Ulladulla - Landscaping	SG	2	Ulladulla	0	0	0	0	0	0	0	0	0	1	0	0	1	\$200	0	0	0	0	0	0	0	0	1	0	0	1	2	\$200		
Princes Hwy ,Ulladulla Centre Island Garden Beds.	SG	6	Ulladulla	1	1	1	1	1	1	1	1	1	1	1	1	12	\$3,607	2	2	1	1	1	1	1	1	1	1	1	2	2	16	\$4,810	
Princes Hwy ,Ulladulla Centre Island Garden Beds.	SB	6	Ulladulla	1	1	1	1	1	0	1	1	1	1	1	1	11	\$9,087	2	1	1	1	1	0	1	1	1	1	1	2	13	\$10,739		
Princes Hwy ,Ulladulla Centre Island Garden Beds.	SG	2	Ulladulla	0	0	0	0	1	0	0	0	0	0	0	0	1	\$100	0	0	0	0	0	1	0	0	0	0	0	0	1	\$100		
Princes Hwy ,Ulladulla Centre Island Garden Beds.	SG	4	Ulladulla	1	1	1	1	1	1	1	1	1	1	1	1	12	\$1,843	1	1	1	1	1	1	1	1	1	1	1	1	12	\$1,843		
Deering Street R/About	SG	3.5	Ulladulla	1	1	1	1	1	1	1	1	1	1	1	1	12	\$2,104	2	1	1	1	1	1	1	1	1	1	1	2	14	\$2,455		
Deering Street R/About	SB	4	Ulladulla	0	0	0	0	0	1	0	0	0	0	0	0	1	\$551	0	0	0	0	0	1	0	0	0	0	0	1	2	\$1,101		
Deering Street R/About	SG	0.15	Ulladulla	1	1	1	1	1	1	1	1	1	0	1	1	11	\$63	1	1	1	1	1	1	1	1	1	0	1	1	11	\$63		
Princes Highway Ulladulla - South Street	SG	1.4	Ulladulla	2	2	2	2	1	1	1	1	1	2	2	2	19	\$1,333	2	2	2	2	1	1	1	1	1	2	2	2	19	\$1,333		
Princes Highway Ulladulla - South Street	SG	2	Ulladulla	0	0	0	0	1	0	0	0	0	0	0	0	1	\$100	0	0	0	0	1	0	0	0	0	0	0	1	\$100			
Green St - Landscaping	SG	2.45	Ulladulla	2	2	1	1	1	1	1	1	1	2	2	16	\$1,964	3	2	1	1	1	1	1	1	1	1	2	3	18	\$2,209			
Green St - Landscaping	SG	4	Ulladulla	0	0	0	0	0	1	0	0	0	0	0	0	1	\$200	0	0	0	0	0	1	0	0	0	0	0	1	\$200			
				Annual Total Ulladulla:												\$81,112	16.6%	Annual Total Ulladulla:												\$86,806			
Vincentia Mall - Landscaping	BG	17	Vincentia	0	0	0	0	0	0	0	0	1	0	0	0	1	\$950	1	0	0	0	0	0	0	0	1	0	0	1	3	\$2,880		
Vincentia Mall - Landscaping	BP	1.75	Vincentia	0	0	0	0	0	0	0	0	1	0	0	0	1	\$99	1	0	0	0	0	0	0	0	1	0	0	1	3	\$296		
Vincentia Mall - Landscaping	BQ	1	Vincentia	8	8	8	8	4	4	2	4	4	8	8	8	74	\$3,622	8	8	8	8	4	4	2	4	4	8	8	8	74	\$3,622		
				Annual Total Vincentia:												\$4,680	2.3%	Annual Total Vincentia:												\$8,788			
Annual Grand Total:																\$201,368		Annual Grand Total:												\$218,814			

Streetscape AMP

Attachment 3

SCHEDULE OF CBDS CLEANSING FREQUENCIES

Location	Footpath Sweeping & Litter Collection (Services per week)	Footpath Washing (Services per week)	Footpath High Pressure Clean (Services per annum)	Bin Cleaning incl surrounds (Services per annum)	K&G Sweeping (Services per week)
Berry CBD	1	0	1	12	2
Kangaroo Valley CBD	1	0	0	12	1
Bomaderry CBD	1	0	0	12	2
Nowra CBD	7	1	1	52	7
Cullburra Beach CBD includes car parks	1	0	0	12	1
Huskisson CBD	2	0	0	12	2
Vincentia CBD	2	0	0	12	1
Sanctuary Point CBD	2	0	0	12	1
St Georges Basin CBD	0	0	0	12	1
Sussex Inlet CBD	1	0	0	12	2
Milton CBD	2	0	0	12	2
Ulladulla CBD (North Area)	2	0	1	25	2
Ulladulla CBD (South Area)	2	0	0	12	2

NOTES: **Extra servicing to be undertaken as need arises.

**Bin Surround Cleaning includes removal of all litter, removal & cleaning as required, cleaning of bin surrounds, deodoriser as required.

Shoalhaven City Council
Asset Management Plan - Streetscapes

Appendix 4 – CBD Bin Schedule

Streetscape Asset Management Plan - Street Litter Bin Schedule

Attachment 4

Town	Street	Location	Bins	Normal Schedule							Holiday Schedule							Total Annual Services
				Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
Berry	Queen St	Albany St to Alexandra St	6	1	0	0	1	0	1	0	1	0	1	0	1	0	936	
Berry	Alexandra St	Victoria St to Albert St	8	1	0	0	1	0	1	0	1	0	0	1	0	1,248		
Berry	Albert St	Car Park	3	1	0	0	1	0	1	0	1	0	0	1	0	468		
Berry	Queen St	Alexandra St to Prince Alfred St	12	1	0	0	1	0	1	0	1	0	0	1	0	1,872		
Bomaderry	Coomes St	Bunberra St to Tarawara Rd	1	1	0	1	0	0	1	0	1	0	1	0	0	156		
Bomaderry	Meroo St	Bunberra St to Tarawara Rd	7	1	0	1	0	0	1	0	1	0	1	0	0	1,092		
Bomaderry	Bunberra St	Meroo St to Coomea St	2	1	0	1	0	0	1	0	1	0	1	0	0	312		
Culburra Beach	Prince Edward Avenue	Canal St to Culburra Park	8	0	1	0	0	1	0	0	0	1	0	0	1	880		
Huskisson	Owen Street	Huskisson Main St & Car Park	35	1	0	0	1	0	1	0	1	1	1	1	1	6,300		
Huskisson	Currumbene St	Bakery, Wharf & Pool Area	11	1	0	0	1	0	1	0	1	1	1	1	1	1,980		
Huskisson	Hawke St	Near round-a-bout	2	1	0	0	1	0	1	0	1	1	1	1	1	360		
Kangaroo Valley	Moss Vale Rd	Cemetery to Barreragarry Store	16	1	0	0	0	0	0	0	1	0	0	1	0	928		
Kangaroo Valley	Moss Vale Rd	Car Park	2	1	0	0	0	0	0	0	1	0	0	1	0	116		
Milton	Princes Hwy	Gordon St to Corks Ln	20	1	0	1	0	1	0	1	1	1	1	1	1	4,520		
Milton	Wason St	Bus Shelter	1	1	0	1	0	1	0	0	1	0	0	0	1	150		
Nowra	Bridge Rd	Bridge Tavern	1	0	0	1	0	0	1	0	0	0	1	0	0	104		
Nowra	Graham St	North St to McGrath Ave	1	0	0	1	0	0	1	0	0	0	1	0	0	104		
Nowra	North St	O'Keeffe Ln to Bridge Rd	2	0	0	1	0	0	1	0	0	0	1	0	0	208		
Nowra	O'Keeffe Ave	Car park	1	0	0	1	0	0	1	0	0	0	1	0	0	104		
Nowra	Junction St	Junction Court	4	1	1	1	1	1	1	0	1	1	1	1	1	1,272		
Nowra	Junction St	Kinghorne St to Berry St	13	1	1	1	1	1	1	0	1	1	1	1	1	4,134		
Nowra	Junction St	Berry St to Osborne St	3	0	0	1	0	0	1	0	0	0	1	0	0	312		
Nowra	Kinghorne St	North St to Worrigeer St	12	1	1	1	1	1	1	0	1	1	1	1	1	3,616		
Nowra	Kinghorne St	Plunkett St to Worrigeer St	2	0	0	1	0	0	1	0	0	0	1	0	0	208		
Nowra	Berry St	Worrigeer St to North St	4	1	1	1	1	1	1	0	1	1	1	1	1	1,272		
Nowra	Worrigeer St	Kinghorne St to Berry St	2	1	1	1	1	1	1	0	1	1	1	1	1	636		
Nowra	Schofield Lane	Toilets	1	1	1	1	1	1	1	0	1	1	1	1	1	318		
Nowra	Stewart Pl	Car park & Toilets	5	1	1	1	1	1	1	0	1	1	1	1	1	1,590		
Nowra	Egans Ln	Toilet Car Park & Library	8	1	1	1	1	1	1	0	1	1	1	1	1	2,544		
Sanctuary Point	Kerry Street	Bakery and Arcade Shops	2	1	0	0	1	0	1	0	1	1	1	1	1	360		
St Georges Basin	Island Point Rd	Bus Shed	1	1	0	0	1	0	0	0	1	1	1	1	1	134		
St Georges Basin	Island Point Rd	Front of Shops	3	1	0	0	1	0	0	0	1	1	1	1	1	402		
Sussex Inlet	Jacobs Drive	Main Shopping Area	21	0	1	0	1	0	0	0	0	1	0	1	0	2,310		
Ulladulla	Boree St	Car Park	6	1	0	1	0	1	0	1	1	1	1	1	1	1,356		
Ulladulla	Burrill St Sth	Payless Car Park	2	1	0	1	0	1	0	1	1	1	1	1	1	452		
Ulladulla	Green St	Shops	2	1	0	1	0	1	0	1	1	1	1	1	1	452		
Ulladulla	Princes Highway	Parson & Church St	46	1	0	1	0	1	0	1	1	1	1	1	1	10,396		
Ulladulla	Wason St		9	1	0	1	0	1	0	1	1	0	1	1	1	1,980		
Vincentia	Burton St	Vincentia Mall & Car Park	17	1	0	0	1	0	1	0	1	1	1	1	1	3,060		

302

Total Road Bin Servicing 58,842
Unit Service Cost \$4.50
Estimated CBD Cost \$264,789

Shoalhaven City Council
Asset Management Plan - Streetscapes

Appendix 5 – Village Identification Signage Strategy

Town/Village Signage Strategy (showing existing & proposed signage)

LOCATION	Gateway Signage - Major Urban Entrances		Major Highway Intersections	Village Entrance & Information Signage		LOCALITY NAME SIGNAGE (SPLASH STYLE)					
	POSITION 1	POSITION 2	POSITION 1	POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 3	POSITION 4	POSITION 5	POSITION 6
Back Forest						PROPOSED 1) Back Forest Rd near Baileu Lane	PROPOSED 2) Back Forest Rd near Swamp Rd				
Bamarang						PROPOSED Yalwal Rd	PROPOSED Yalwal Rd				
Bangalee						Ilaroo Rd - near West Cambewarra Rd	Ilaroo Rd - east of Tanilalee Rd				
Barrangarry						1) Moss Vale Road	2) Moss Vale Road				
Barringella						PROPOSED Burnier Rd	PROPOSED Burnier Rd				
Basin View				The Wool Rd & Grange Rd		1) Collingwood Street 100m south of The Wool Road Intersection (Immediately outside the Basin View Bush Fire Brigade Station)	2) John Street 20m south of John Street and Winn Avenue Intersection				
Bawley Point			PROPOSED - Intersection of SH1 & Bawley Pt Rd	Murramarang Rd at Shearwater Cres		1) Murramarang Road 200m south of Warradivilla Close	Bawley Point Rd east of Highway				
Beaumont						1) Moss Vale Road 0.5km north of Green Valley Road	2) Moss Vale Road 2.2km south of Green Valley Road OR 0.8km north of Tourist Road				
Bellawongarah						PROPOSED Kangaroo Valley Rd	PROPOSED Kangaroo Valley Rd				
Bendalong			PROPOSED - Intersection of SH1 & Bendalong Rd	PROPOSED - Bendalong Rd west of Inyadda Dr		1) Bendalong Road 150m west of Maple Street and Bendalong Road Intersection					
Berrara						1) Collier Drive Opposite Fifth Avenue					
Berringer Lake						Berringer Rd west of Cunjorong Pt Rd					
Berry				Princes Hwy north of Tannery rd at 50KPH sign	PROPOSED - southern approach in conjunction with by-pass works	1) Tannery Road (Beach Road) Cnr Agars Lane and Beach	2) Princes Highway 50m south-west of Victoria Street Intersection	3) Kangaroo Valley Road 200m west of Bundawallah Road	4) Wharf Road 700m south from Station Road		
Berry Mountain						PROPOSED Kangaroo Valley Rd	PROPOSED Kangaroo Valley Rd				
Bewong						1) Princes Highway 100m east of eastern most steel Light post at the Bewong Roadhouse	2) Princes Highway 400m west of Bewong Creek Bridge				
Bolong						1) Bolong Rd near Hann Creek	2) Bolong Rd west of Broughton Creek				
Bomaderry				Princes Highway 400m north of Moss Vale Road and Princes Highway Intersection	PROPOSED Bolong Rd near Manildra	1) Moss Vale Road 20m north-west of Elvin Drive Intersection	2) Princes Highway 400m north of Moss Vale Road and Princes Highway Intersection	3) Meroo Road 50m south of Halstead Place	4) Bolong Road 150m south-west of Hannigan's Lane	5) Princes Highway 50m north of Mattes Way Intersection (opposite Nowra Technical College)	
Brooman						1) Brooman Road 500m north of junction with Brooman Road and Middleridge Road (just south of the Toomboolomobah Creek)	2) River Road 10m north of junction with River Road and The Sheep Track				
Brundee						1) Greenwell Point Road 20m west of Appery's Lane	2) Greenwell Point Road 50m west (around the bend) of Mayfield Intersection				
Budgong						1) Budgong Road 20m past the end of the bitumen, just past Emery's Road Intersection	2) Budgong Road Junction where Budgong Road becomes Mt Scanzi Road at Budgong Gap				

Shoalhaven City Council
Asset Management Plan - Streetscapes

Town/Village Signage Strategy (showing existing & proposed signage)

LOCATION	Gateway Signage - Major Urban Entrances		Major Highway Intersections	Village Entrance & Information Signage		LOCALITY NAME SIGNAGE (SPLASH STYLE)					
	POSITION 1	POSITION 2		POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 3	POSITION 4	POSITION 5	POSITION 6
Bundewallah						PROPOSED Kangaroo Valley Rd	PROPOSED Kangaroo Valley Rd				
Burrier						1) Burrier Road 100m east of private road into Grady's Riverside Retreat					
Burrill Lake				PROPOSED - southern approach on the Princes Hwy near 80KPH sign	Princes Highway near Canberra Cras	1) Princes Highway 300m south of Cooper Street	2) Dolphin Point Parade 100m from Intersection of Dolphin Point Parade and Princes Highway (east then south)	3) Princes Highway 800m south of Wallaroy Drive			
Callala Bay				Callala Bay Rd							
Callala Beach				Callala Beach Rd		1) Myola Road 100m north-east of 80km/hr sign (right on point where Myola changes to King George Street)					
Cambewarra Village				PROPOSED Main Road 100m east of 80km/hr sign		1) Hockeys Lane 20m south of Maculeta Close Intersection	2) Main Road 100m east of 80km/hr sign	3) Tapitallee Road North of Tapitallee Creek			
Comerong Island						PROPOSED Comerong Island Rd					
Conjola						1) Princes Highway 500m north of Conjola Creek	2) Princes Highway 100m south of Conjola Creek				
Conjola Park						Lake Conjola Entrance Rd best location close to Highway	Lake Conjola Entrance Road 100m to West of Evans Road Intersection				
Coolangatta						1) Bolong Road 500m west of Old Coolangatta Pottery and Craft Centre	2) Bolong Road 1km north of Berry's Bay Road (or 800m south of Shoalhaven Heads Road)				
Croobyar						PROPOSED Croobyar Rd					
Cudmirrah						1) The Springs Road 50m north of The Springs Road and Gosneerama Drive Intersection (about half way between Intersection and bridge over mouth of Swan Lake)	2) Collier Drive 20m north of Intersection of Fifth Avenue and Collier Drive				
Culburra Beach				PROPOSED - Culburra Rd 50m west of Strathstone St	Park Row 100m west of Tern Street	1) Culburra Road 50m west of Strathstone Street	2) Prince Edward Avenue 20m to west of Ambulance entrance to Culburra & Dist. Retirement Village				
Cunjurong Point						1) Cunjurong Point Road 100m north of Calgary Place					
Currarong				Currarong Rd							
Depot Beach						1) Depot Beach Road Sign to be placed at the beginning of Depot Beach Rd					
Dolphin Point						1) Dolphin Point Road 20m north of the northern edge of Pacific Park Caravan Park					
Durras North						1) North Durras Road 200m north-east of Mawson Street and Durras Road Intersection					

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Town/Village Signage Strategy (showing existing & proposed signage)

LOCATION	Gateway Signage - Major Urban Entrances		Major Highway Intersections		Village Entrance & Information Signage		LOCALITY NAME SIGNAGE (SPLASH STYLE)					
	POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 3	POSITION 4	POSITION 5	POSITION 6
East Lynne							1) Princes Highway 300m north of East Lynne General Store	2) Princes Highway Intersection of old highway and the Princes Highway, 350m south of East Lynne General Store				
Erowal Bay					PROPOSED Erowal Bay Road As Erowal Bay Road becomes Naval Parade (as it goes around the curve to head in southerly direction)		1) Erowal Bay Road As Erowal Bay Road becomes Naval Parade (as it goes around the curve to head in southerly direction)	2) Wrights Beach Road (Naval Pde) 100m south-east of intersection of Naval Parade with Grandview Street				
Falls Creek							1) Princes Highway 750m north of Parma Road	2) Jarvis Bay Road 500m south of Seagoon Road Intersection	3) Princes Highway 300m south of Mortimer Road			
Far Meadow							Coolangatta Rd	Coolangatta Rd	Bryces Rd - southern end			
Fishermans Paradise							1) Fishermans Paradise Road 20m west of 60km/hr sign as you come into Fishermans Paradise					
Greenwell Point					Greenwell Point Road Just to west of village							
Huskisson					Huskisson Rd just west of 60KPH sign		1) Burnell Street Sign to be placed at the end of guard rail north of Moona Moona Creek	2) Woolamia Road 100m north of intersection with Huskisson Road	PROPOSED 3) Burnell St south of Moona St			
Hyams Beach					PROPOSED Booderee Ave 100m west of 60KPH sign		1) Booderee Avenue 100m west of 60km/hr sign					
Ilaroo							PROPOSED Ilaroo Rd	PROPOSED Ilaroo Rd				
Jaspers Brush							1) Princes Highway 350m south of Scholfields Lane Intersection	2) Princes Highway 50m north of Wiley's Creek (200m north of Turner's Lane)				
Jerrawangala							Princes Hwy	Princes Hwy				
Jervis Bay					PROPOSED - Intersection of SH1 & Jervis Bay Rd							
Kangaroo Valley					PROPOSED - Moss Vale Rd east of village	PROPOSED - Moss Vale Rd west of village near Bendeels Rd	1) Moss Vale Road 2.2km west (north) of Police Station north of Hampden Bridge	2) Moss Vale Road 0.2km east of Police Station				
Kings Point							1) Kings Point Drive 50m east of Oakley Place					
Kioloa					PROPOSED Murrumbidgee Road 20m south of 60km/hr limit at Kioloa ie 200m north of O'Brien Street and Murrumbidgee Road Intersection		1) Murrumbidgee Road 20m south of 60km/hr limit at Kioloa ie 200m north of O'Brien Street and Murrumbidgee Road Intersection					
Lake Conjola					PROPOSED - Intersection of SH1 & Lake Conjola Entrance Rd	PROPOSED Lake Conjola Entrance Road 100m to West of Evans Road Intersection	1) Lake Conjola Entrance Road 100m to West of Evans Road Intersection					

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Town/Village Signage Strategy (showing existing & proposed signage)

LOCATION	Gateway Signage - Major Urban Entrances		Major Highway Intersections	Village Entrance & Information Signage		LOCALITY NAME SIGNAGE (SPLASH STYLE)							
	POSITION 1	POSITION 2		POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 3	POSITION 4	POSITION 5	POSITION 6		
Lake Tabourie				PROPOSED - Princes Hwy at tourist park intersection	PROPOSED - Princes Hwy south approach near 80KPH signs	1) Princes Highway 150m south of southern end of bridge over Tabourie Lake	2) Princes Highway 150m south of River Road and Princes Highway						
Manyana				PROPOSED - Inyadda Dr		1) Inyadda Drive 50m north of Curvers Drive and Inyadda Drive intersection	2) Curjurong Point Road 75m south of intersection with the Bastion and Curjurong Point						
Meroo Meadow						1) Princes Highway 200m west of Devitt's Lane	2) Princes Highway 600m south of Lamons's Lane						
Milton				Princes Hwy at Corks Lane	PROPOSED - Princes Hwy near Slaughterhouse Rd	1) Matron Porter Drive 20m west of intersection with Sungrove Lane and Matron Porter Drive	2) Princes Highway 80m south of Slaughterhouse Road and Princes Highway intersection	3) Croobyar Road 20m east of Ringlands Lane					
Mollymook						1) Golf Avenue Midway between Buchan Street and Princes Highway	2) Mitchell Parade 30m south of Mollymook Creek	3) Watt Avenue 80m from intersection with Princes Highway adjacent to the 80km/hr sign					
Mollymook Beach						1) Mitchell Parade 5.0m south of Mollymook Creek (right outside Fathoms)	2) Matron Porter Drive Sign to be located on the right hand side of intersection of Matron Porter Drive and Gerside Road	3) Matron Porter Drive Midway between Victor Avenue and Surfens Avenue					
Morton						PROPOSED Woodburn Rd	PROPOSED Woodburn Rd						
Mundania						PROPOSED Yahwal Rd	PROPOSED Yahwal Rd						
Myola						1) Myola Road 400m east of Myola Road and Catherine Street and Beach Street intersection							
Narrawallee						1) Leo Drive 30m from intersection of Leo Drive and Matron Porter Drive	3) Matron Porter Drive Midway between Victor Avenue and Surfens Avenue						
North Nowra						1) Ilaroo Road Cir Ilaroo Road and Princes Highway, in park facing Princes Highway.	2) Ilaroo Road (northern side) 50m to the west of the end of the double lines (just to the west of Ilaroo Road and West Cambewarra Road intersection)						
Nowra	Intersection of SH1 & Bridge Rd	PROPOSED - Princes Highway in landscaped area intersection of Hwy & Kinghome St				1) Princes Highway 20m south of Pleasant Way	2) Terara Road 450m west of Ferry Lane and Terara Road intersection	3) Princes Highway 200m north of Hillcrest Avenue	4) Albatross Road Midway between Yahwal Road and Doble Close				
Nowra Hill						1) B.T.U. Road Midway between Woncor Avenue and Princes Highway (100m from each)	2) Albatross Road 750m south-west of Flinder's Road						
Nowra Urban Area						1) Moss Vale Road 150m north-west of Elwin Drive intersection	2) Princes Highway 550m north of Moss Vale Road and Princes Highway intersection (150m south of existing 80km/hr sign)	3) Bolong Road 50m south-west of Hannigan's Lane	4) Terara Road 700m east of Milbank Road and Terara intersection	5) Greenwell Point Road 200m east of Rayleigh Drive	6) Princes Highway 1.2km south of Central Avenue intersection (just to north of southern entrance to parking bay)		
Numbaa						1) Terara Road East of Milbank Road and Terara Road intersection	2) Jindy Andy Lane 100m north of Greenwell Point Road intersection						

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Town/Village Signage Strategy (showing existing & proposed signage)

LOCATION	Gateway Signage - Major Urban Entrances		Major Highway Intersections		Village Entrance & Information Signage		LOCALITY NAME SIGNAGE (SPLASH STYLE)					
	POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 3	POSITION 4	POSITION 5	POSITION 6
Old Errol Bay							1) The Wool Road 75m north-east of MacGibbon Parade and The Wool Road Intersection (just south-west of crossing over Worroving Creek)	2) The Wool Road 200m south-west of Memie Street				
Orient Point					Park Row 100m west of Tam Street							
Parma							PROPOSED Braidwood Rd	PROPOSED Braidwood Rd				
Pyree							1) Greenwell Point Road 50m east of Jindy Andy Lane Intersection	2) Greenwell Point Road 100m north of Greenwell Point Road				
Sanctuary Point					The Wool Rd at Larmer Rd Intersection		Loralyn Avenue at intersection of The Wool Lane and Loralyn Avenue					
Sassafra							1) Turpentine Road, otherwise known as Main Road No 92 Sign to be 200m to west of the Etrema Cottage which is the western-most home in the settlement of Sassafra	2) Turpentine Road, otherwise known as Main Road No 92 3.7km east of sign which is 200m to west of Etrema Cottage.				
Shoalhaven Heads					Shoalhaven Heads Road 150m from intersection of Shoalhaven Heads Road and Bolong Road		1) Gerroo Road 950m north of Towers Road and Gerroo Road Intersection					
South Nowra	PROPOSED - Princes Hwy south approach in						1) Princes Highway 300m north of Hillcrest Avenue Intersection	2) Princes Highway 1.1km south of Central Avenue (just to north of				
St. Georges Basin					PROPOSED - The Wool Rd		1) Loralyn Avenue Intersection of The Wool Lane and Loralyn Avenue	2) The Wool Road 100m east of Grange Road and The Wool Road Intersection				
Sussex Inlet							1) Sussex Inlet Road 200m west of Sussex Inlet Road and Jacobs Drive Intersection (Titani Park)	2) Thomson Street 300m west of Thomson Street and Government Road Intersection				
Sussex Inlet Urban Area			Intersection of SH1 & Sussex Inlet Access Rd				1) Sussex Inlet Road 100m west of Sussex Inlet Road and The Springs Road Intersection					
Swanhaven							1) Huffmann Drive 10-15m from Intersection with The Springs Road					
Tapitallee							PROPOSED Tapitallee St	PROPOSED Ilaroo Rd	PROPOSED Ilaroo Rd			
Terara							1) Milbank Road 500m south from Milbank Road and Terara Road Intersection	2) Terara Road 1.1km west of Milbank Road and Terara Road Intersection	3) Terara Road 650m east of Milbank Road and Terara Road Intersection			
Terrell							1) Princes Highway 150m north of Mountain Road and Princes Highway Intersection	2) Princes Highway 700m south of Mummaring Road				
Tomerong							1) Princes Highway 100m north of Tomerong Creek	2) Princes Highway 20m south of Yarunda Road Intersection	3) Pine Forest Road 300m from intersection of Pine Forest Road and Princes Highway	4) Turpentine Road 500m from intersection of Turpentine Road and Princes Highway		

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Town/Village Signage Strategy (showing existing & proposed signage)

LOCATION	Gateway Signage - Major Urban Entrances		Major Highway Intersections	Village Entrance & Information Signage		LOCALITY NAME SIGNAGE (SPLASH STYLE)						
	POSITION 1	POSITION 2		POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 3	POSITION 4	POSITION 5	POSITION 6	
Ulladulla	Intersection of SH1 & Illett St	Intersection of SH1 & Kings Pt Rd				1) Golf Avenue Midway between Buchan Street and Princes Highway						
Ulladulla Urban Area						1) Princes Highway 300m north of Illett St	2) Princes Highway 700m south of Wallaroo Dr Intersection					
Vincentia				The Wool Rd just north of Naval College Rd Intersection		1) Elizabeth Drive Just south of Moona Moona Creek.						
Wandandian						1) Princes Highway 50m north of D&P Timber Yard entrance	2) Princes Highway 200m south of Shell Service Station					
Waterloigh						PROPOSED Kooilove Dr near Ilaroo rd						
Wattamolla						PROPOSED Wattamolla Rd	PROPOSED Wattamolla Rd					
West Nowra						PROPOSED Yalwal Rd	PROPOSED Yalwal Rd					
Woodburn						PROPOSED Woodstock Rd	PROPOSED Woodstock Rd					
Woodhill						PROPOSED Woodhill Mtn Rd	PROPOSED Wattamolla Rd					
Woodstock						PROPOSED Woodstock Rd	PROPOSED Woodstock Rd					
Woollamia						1) Huskisson end of town	2) Woollamia Road Past Duranbah Street at 80km/hr					
Worrigee						Greenwell Pt Rd	Greenwell Pt Rd					
Worring Heights				The Wool Rd south of Larmer Ave Intersection		Naval College Rd west of The Wool Rd						
Wrights Beach						1) Wrights Beach Road 650m from intersection with Grandview Street (just around the bend towards the east)						
Yalwal						1) The "staging" area before entering the "loop drive". Sign to be erected adjacent to the Danjere Dam sign - the one with the little roof constructed over the top of it. The staging area is 100m west of the small bridge crossing Yalwal Creek.						
Yattle Yattah						1) Princes Highway 700m north of Little Forest Road	2) Princes Highway 100m south of southern end of bridge over Currower Creek. 1.2km south of Lake Conjola turn off					
Yerriyong						PROPOSED Rawlwood Rd	PROPOSED Rawlwood Rd					

RECOMMENDED FOR NO SIGNAGE

Barren Grounds												
Beecroft Peninsula												
Broughton												
Broughton Vale												
Broughton Village												
Browns Mountain												
Boothiah												
Bream Beach												
Buangla												
Budawang												
Budderoo												
Bullee												

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Town/Village Signage Strategy (showing existing & proposed signage)

LOCATION	Gateway Signage - Major Urban Entrances		Major Highway Intersections	Village Entrance & Information Signage		LOCALITY NAME SIGNAGE (SPLASH STYLE)					
	POSITION 1	POSITION 2	POSITION 1	POSITION 1	POSITION 2	POSITION 1	POSITION 2	POSITION 3	POSITION 4	POSITION 5	POSITION 6
Cambewarra											
Cockwhy											
Comberton											
Coolumburra											
Currowan											
Endrick											
Ettrema											
Kinghome											
Mayfield											
Mogood											
Mundayong											
Moolatoo											
Mount Kingman											
Pebble Beach											
Pointer Mountain											
Porters Creek											
Pretty Beach											
Quera											
Red Rocks											
St. George											
Tallowai											
Tanjara											
Tohwong											
Touga											
Tullerwalla											
Twelve Mile Peg											
Upper Kangaroo River											
Wollumboola											
Yadboro											

Gateway/Town/Village Signage Priority List

LOCATION	Hwy Intersection & Village Signage Structures
Kangaroo Valley	Moss Vale Rd east of village
Kangaroo Valley	Moss Vale Rd west of village near Bendeela Rd
Bomaderry	Bolong Rd on completion of Manildra road works
Erowal Bay	Erowal Bay Road As Erowal Bay Road becomes Naval Parade (as it goes around the curve to head in southerly direction)
Culburra Beach	Culburra Rd 50m west of Strathstone St
Milton	Princes Hwy near Slaughterhouse Rd
Burrill Lake	southern approach on the Princes Hwy near 60KPH sign
Lake Tabourie	Princes Hwy at tourist park intersection
Lake Tabourie	Princes Hwy south approach near 80KPH signs
Cambewarra Village	Main Road 100m east of 60km/hr sign
Kioloa	Murramarang Road 20m south of 60km/hr limit at Kioloa ie 200m north of O'Brien Street and Murramarang Road intersection
Jervis Bay	Intersection of SH1 & Jervis Bay Rd
Bendalong	Intersection of SH1 & Bendalong Rd
Manyana	Inyadda Drive
Bendalong	Bendalong Rd
Bawley Point	Intersection of SH1 & Bawley Pt Rd
Lake Conjola	Intersection of SH1 & Lake Conjola Entrance Rd
Lake Conjola	Lake Conjola Entrance Road 100m to West of Evans Road intersection
Hyams Beach	Booderee Avenue 100m west of 60km/hr sign
Nowra	Princes Highway in landscaped area intersection of Hwy & Kinghome St
South Nowra	Princes Hwy south approach following Hwy upgrading
Berry	southern approach in conjunction with by-pass works
St Georges Basin	western boundary on The Wool Rd

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Appendix 6 – CBD Capital Works Strategy

STREETSCAPE REFURBISHMENT - OUTSTANDING WORKS At 1/07/12									
VILLAGE CBD	STREET	SECTION	SIDE OF ROAD	OTHER WORKS	EST. COST OF OTHER WORKS	INCOMPLETE FOOTPATH LENGTH (m)	\$RATE/M FOR FOOTPATH	TOTAL EST. COST OF REMAINING WORK	COMMENTS
Higher Priority Works									
BERRY	ALEXANDRA ST (NTH)	QUEEN ST TO ALBERT ST	R		\$10,000	40	\$700	\$38,000	HIGH PRIORITY SHORT REMAINING SECTION
NOWRA CBD	BERRY ST	NORTH ST TO LIBRARY	L		\$2,000	40	\$1,950	\$80,000	HIGH PRIORITY SHORT REMAINING SECTION
ULLADULLA	PRINCES HIGHWAY	WASON ST TO SOUTH ST	R	Complete median to South St and landscape existing median	\$100,000	20	\$1,100	\$122,000	REMAINING WORKS ON LHS FOLLOWING WOOLWORTHS & TARGET DEVELOPMENTS
ULLADULLA	PRINCES HIGHWAY	WASON ST TO SOUTH ST	L			130	\$1,100	\$143,000	REMAINING WORKS ON RHS
SUSSEX INLET	JACOBS DRIVE	NEILSON RD TO RIVER RD	R	Pedestrian Nibs & Landscaping	\$60,000	100	\$1,225	\$182,500	WORKS REQUIRED IN CONJUNCTION WITH SUPERMARKET DEVELOPMENT
NOWRA CBD	BERRY ST	SCHOFIELDS LN TO WORRIGEE ST	L	REALIGN K&G , LANDSCAPING	\$140,000	160	\$2,275	\$504,000	
NOWRA CBD	KINGHORNE ST	SCHOFIELDS LN TO WORRIGEE ST	R	LANDSCAPING	\$40,000	155	\$2,275	\$392,625	
SUSSEX INLET	NEILSON RD	ELMOOSE AVE TO JACOBS DV	R	K&G & Landscaping	\$29,000	65	\$525	\$63,125	WORKS REQUIRED IN CONJUNCTION WITH SUPERMARKET DEVELOPMENT
Total of Higher Priority Works:								\$1,525,250	
BERRY	ALEXANDRA ST (NTH)	QUEEN ST TO ALBERT ST	L	Landscaping	\$25,000	98	\$700	\$93,600	
BERRY	ALEXANDRA ST (Sth)	QUEEN ST TO END	R	Landscaping	\$15,000	55	\$525	\$43,875	
BERRY	QUEEN ST	ALEXANDRA ST TO ALBANY ST	L			210	\$525	\$110,250	
BERRY	QUEEN ST	ALEXANDRA ST TO ALBANY ST	R			210	\$375	\$78,750	
BOMADERRY	BUNBERRA ST	MERDO ST TO COOMEA ST	L			60	\$700	\$42,000	
CULBURRA BEACH	PRINCE EDWARD AVE	EAST END OF CAR PARK						\$80,000	
HUSKISSON	CURRAMBENE ST	OWEN ST TO MORTON ST	B	As per DCP & S94				\$1,200,000	
HUSKISSON	CURRAMBENE ST	OWEN ST TO END	B	As per DCP & S94				\$1,421,000	
HUSKISSON	LANEWAYS		B	As per DCP & S94				\$3,600,000	
HUSKISSON	OWEN ST	ROUNDAABOUT AT SYDNEY ST						\$760,000	
HUSKISSON	OWEN ST	CURRAMBENE ST TO HAWKE ST	L	Landscaping and K&G	\$126,250	125	\$1,300	\$288,750	
HUSKISSON	OWEN ST	SYDNEY ST TO CURRAMBENE ST	R	Landscaping and K&G	\$90,500	90	\$1,300	\$207,500	
HUSKISSON	OWEN ST	SYDNEY ST TO CURRAMBENE ST	L	Landscaping and K&G	\$159,000	220	\$1,300	\$445,000	
HUSKISSON	SYDNEY/BOIENMORTON STS			As per DCP & S94				\$2,000,000	
KANGAROO VALLEY	MOSS VALE RD	COMMUNITY HALL TO PRIMARY SCHOOL	R	Landscaping	\$15,000	150	\$525	\$93,750	
KANGAROO VALLEY	MOSS VALE RD	COMMUNITY HALL TO PRIMARY SCHOOL	L	Landscaping	\$5,000	150	\$160	\$29,000	
MILTON CBD	PRINCES HIGHWAY	WASON ST TO CHURCH ST	R	Bus shelter	\$15,000	50	\$700	\$50,000	
MILTON CBD	WASON ST (NTH)	PRINCES HWY TO THOMAS ST	B	New K&G	\$40,000	100	\$700	\$110,000	TO BE DONE FOLLOWING ADJACENT DEVELOPMENTS
NOWRA CBD	BERRY ST	JUNCTION ST TO WORRIGEE ST	R	REALIGN K&G , LANDSCAPING	\$120,000	200	\$2,275	\$575,000	
NOWRA CBD	KINGHORNE ST	NORTH ST TO EGANS LN	R	LANDSCAPING	\$10,000	160	\$2,275	\$374,000	
NOWRA CBD	NOWRA LANE	JUNCTION ST TO WORRIGEE ST	L	LANDSCAPING	\$5,000	185	\$1,625	\$305,625	
NOWRA CBD	NOWRA LANE	JUNCTION ST TO WORRIGEE ST	R	LANDSCAPING	\$5,000	40	\$1,625	\$70,000	
NOWRA CBD	O'KEEFE AVE	NORTH ST TO JUNCTION ST	L	LANDSCAPING	\$5,000	164	\$1,625	\$271,500	
NOWRA CBD	O'KEEFE AVE	NORTH ST TO JUNCTION ST	R	LANDSCAPING	\$5,000	144	\$1,625	\$238,188	
NOWRA CBD	STEWART PL	CIVIC PLACE			\$300,000			\$300,000	
NOWRA CBD	WORRIGEE ST	BERRY ST TO KINGHORNE ST	L	LANDSCAPING	\$5,000	210	\$1,625	\$346,250	
NOWRA CBD	WORRIGEE ST	BERRY ST TO KINGHORNE ST	R	LANDSCAPING	\$5,000	200	\$1,625	\$330,000	
NOWRA CBD	WORRIGEE ST	KINGHORNE ST TO O'CONNEL LANE	L	LANDSCAPING	\$5,000	50	\$1,625	\$86,250	
NOWRA CBD				PROVIDE BUS INTERCHANGE EAST OF HWY	\$600,000			\$600,000	
NOWRA CBD	MOSS ST	GATEWAY PARK			\$100,000			\$100,000	
NOWRA CBD	EGANS LANE	TOWN SQUARE			\$150,000			\$150,000	
SANCTUARY POINT	KERRY ST	PARADISE BEACH RD TO END CBD	R	PEDESTRIAN THRESHOLD	\$25,000	172	\$700	\$145,400	
SANCTUARY POINT	KERRY ST	ROUNDAABOUT AT PARADISE BEACH RD			\$350,000			\$350,000	
SANCTUARY POINT		CAR PARK & REAR ACCESS WORKS			\$140,000			\$140,000	
ST GEORGES BASIN		DRAINAGE WORKS AS PER DCP & S94 PLAN			\$50,000			\$50,000	BALANCE OF WORKS
ST GEORGES BASIN		ROADWORKS AS PER DCP & S94 PLAN			\$450,000			\$450,000	BALANCE OF WORKS
SUSSEX INLET	JACOBS DRIVE	NEILSON RD TO RIVER RD	L	Landscaping	\$25,000	120	\$1,225	\$172,000	

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STREETSCAPE REFURBISHMENT - OUTSTANDING WORKS At 1/07/12									
VILLAGE CBD	STREET	SECTION	SIDE OF ROAD	OTHER WORKS	EST. COST OF OTHER WORKS	INCOMPLETE FOOTPATH LENGTH (m)	\$RATE/M FOR FOOTPATH	TOTAL EST. COST OF REMAINING WORK	COMMENTS
SUSSEX INLET	JACOBS DRIVE	RIVER RD TO END	L	Pedestrian Nibs	\$35,000	170	\$700	\$154,000	
SUSSEX INLET	JACOBS DRIVE	RIVER RD TO END	R	Realign K&G and landscaping	\$40,000	80	\$525	\$82,000	
SUSSEX INLET	NELSON RD	ELMOOSE AVE TO JACOBS DV	L	Pedestrian Nibs	\$35,000	0		\$35,000	
SUSSEX INLET	NELSON RD	JACOBS DV TO BANKSIA ST	L	Pedestrian Nibs	\$35,000	100	\$525	\$87,500	
SUSSEX INLET	NELSON RD	JACOBS DV TO BANKSIA ST	R			65	\$525	\$34,125	
SUSSEX INLET	RIVER RD	JACOBS DR NORTH FOR 100 LM.	L			100	\$525	\$52,500	
SUSSEX INLET	RIVER RD	JACOBS DR TO ELMOOS AVE	L	Pedestrian Nibs	\$35,000	0		\$35,000	
ULLADULLA	BOREE ST	CAR PARK TO SOUTH ST	L	As per DCP & S94				\$20,000	MAJORITY OF WORKS ARE DA CONSENT CONDITIONS
ULLADULLA	DEERING ST	PRINCES HWY TO BURRILL ST	B	As per DCP & S94				\$250,000	
ULLADULLA	DEERING ST	PRINCES HWY TO ST VINCENT ST	B	As per DCP & S94				\$304,000	
ULLADULLA	GREEN ST	BOREE ST TO ST VINCENT ST	L	Landscaping	\$20,000	70	\$900	\$83,000	
ULLADULLA	GREEN ST	TRAFFIC SIGNALS AT ST VINCENT ST		As per DCP & S94	\$678,000			\$678,000	
ULLADULLA	PRINCES HIGHWAY	SOUTH ST TO DEERING ST	L	K&G & Landscaping	\$170,000	200	\$1,100	\$390,000	
ULLADULLA	PRINCES HIGHWAY	SOUTH ST TO DEERING ST	R	Landscaping & Median	\$340,000	200	\$1,100	\$560,000	
ULLADULLA	PRINCES HWY	TRAFFIC SIGNALS AT SOUTH ST		As per DCP & S94				\$511,000	
ULLADULLA	SOUTH ST	PRINCES HWY TO BURRILL ST	B	As per DCP & S94				\$400,000	
ULLADULLA	SOUTH ST	TRAFFIC SIGNALS AT ST VINCENT ST		As per DCP & S94	\$511,000			\$511,000	
ULLADULLA	SOUTH ST	ROUNDABOUT AT JUBILEE ST		As per DCP & S94	\$214,000			\$214,000	
ULLADULLA	WASON ST	PRINCES HWY TO BURRILL ST	L	As per DCP & S94		100		\$370,000	
ULLADULLA	WASON ST	TRAFFIC SIGNALS AT BURRILL ST		As per DCP & S94				\$511,000	
ULLADULLA		BUS INTERCHANGE		As per DCP & S94	\$678,000			\$678,000	
ULLADULLA		WORKS AS PER HARBOUR MASTERPLAN						\$900,000	
VINCENTIA	BURTON ST	SOUTH END	B					\$180,000	
								\$24,273,063	

Appendix 7 – Nowra CBD Working Group - report

REPORT OF GENERAL MANAGER

NOWRA CBD WORKING GROUP

WEDNESDAY, 30 MAY 2012

CITY SERVICES AND OPERATIONS

1. **Nowra CBD Maintenance & Cleaning Practices** **File 45446E**
-

PURPOSE OF THE REPORT

This report is to provide information to the Working Group regarding Council's current cleaning and maintenance practices, available resources and recent initiatives.

RECOMMENDED that the report regarding maintenance and cleaning in Nowra CBD be received for information.

COMMUNITY STRATEGIC PLAN

Objective: 1.5 Major Town Centres that are attractive, vibrant and popular destinations
Strategy: 1.5.2. Develop and progressively implement beautification plans for town entrances and major town thoroughfares

DELIVERY PROGRAM

Activity: 1.5.2.3 Implement maintenance service schedules for streetscapes and CBD's in accordance with servicing and quality presentation requirements.

OPTIONS AND IMPLICATIONS

Option 1:

Receive the report for information.

Option 2:

The Working Group indicates another recommendation.

REPORT DETAILS

Council allocates significant resources to the cleaning and maintenance of the Nowra CBD. The attached table details the type, frequency and the estimated cost of the various scheduled activities carried out within the Nowra CBD area. In addition, various other services are provided to repair defects and to refurbish street furniture, landscaping, roads etc depending on condition. More resources are allocated to regularly

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servicing the Nowra CBD area due to its size and usage pattern than any other town within the City of Shoalhaven.

A higher level of service was introduced this year for street litter bin cleaning. Street litter bins are now removed and replaced with clean bins every 2 weeks in Junction and Kinghome Streets and the bin surrounds are wiped down.

A trial commenced in Bomaderry CBD this week using different equipment to provide a high pressure wash down of the footpath pavement. If successful it will be used in Nowra CBD and other locations as well.

A restructure has been approved in the Northern Maintenance team which means that the overnight cleaning service by a single person will be replaced by a small crew that will start cleaning the Nowra CBD early morning (pre-dawn). This will allow the crew to work together or separately as required. It will still allow time for essential works before the morning peak period but allows cleaners/maintenance staff more daylight hours to undertake the work more effectively. This team will also be equipped to take more of an overview of the area and report back on problem areas. This change will be introduced in the second half of 2012 as positions are revised.

Graffiti removal is the subject of a separate report which indicates that a significant portion of the Graffiti Removal Officer's time has been spent in and around the Nowra CBD area in the last 5 months, as outlined in that report.

Resourcing Implications – Financial, Assets, Workforce:

Resources allocated to cleaning and maintenance of the Nowra CBD area is outlined in the report details.

Community, Environment (ESD), Economic and Governance Impact:

Council regularly cleans and maintains its assets including CBD areas and continues to pursue a variety of options to improve the quality of service to the community.

/ Harris
GENERAL MANAGER

Pigg
GENERAL MANAGER

Shoalhaven City Council
Asset Management Plan - Streetscapes

Attachment – Nowra CBD Maintenance & Cleaning Practices

Scheduled Cleaning CBD footpaths/carparks/roads	Frequency (days/wk)	Duration (hr)	Annual Cost
Footpath sweeper, manual footpath cleaning & washing	6	7.6	\$105,291
Street Sweeper	5	2	\$37,011
Street Litter bins emptied	6	2	\$51,732
Litter Patrol	1	3	\$4,930
Addition litter & repair crew	3	2	\$19,901
			\$218,865
Scheduled Servicing CBD Major Parks	Frequency /yr	Duration (hr)	Annual Cost
Harry Sawkins Park			
Playground Inspections	4	2.5	\$564
Litter Collection	29	1.25	\$1,774
Park Servicing	30	34	\$47,848
Pond/Dam delitter	30	0.25	\$352
Pond Cleaning (boat)	14	7.5	\$7,239
Landscape Maint	11	4.5	\$3,408
Mulch Program	1	4	\$400
Vegetation Control	1	0.25	\$17
Softfall Renovation	1	3.75	\$227
Inspections	2	0.25	\$28
Marriott Park			
Playground Inspections	4	1.25	\$282
Litter Collection	29	0.5	\$710
Park Servicing	28	24	\$46,724
Pond/Dam Delitter	14	4	\$3,855
Pond Cleaning (boat)	14	4.25	\$4,102
Landscape Maint	12	17	\$14,064
Mulch Program	1	20	\$2,000
Softfall Renovation	1	3.75	\$227
Inspections	2	0.25	\$28
Nowra Library			
Landscape Maint	25	1.5	\$2,585
Inspections	4	0.25	\$56
Mulch Program	1	4	\$400
			\$136,890

Shoalhaven City Council
Asset Management Plan - Streetscapes

Attachment – Nowra CBD Maintenance & Cleaning Practices

Scheduled Servicing CBD Road Landscaping	Frequency /yr	Duration (hr)	Annual Cost
Junction Ct			
Mulch Program	1	4	\$400
Landscape Maint	28	1.75	\$3,378
Verge Servicing	28	0.75	\$1,448
Junction St			
Mulch Program	1	3.5	\$241
Landscape Maint	36	4	\$14,400
Kinghorne St			
Mulch Program	1	2	\$200
Landscape Maint	11	5	\$3,792
Graham St			
Mulch Program	1	4	\$400
Landscape Maint	11	2.5	\$1,896
Jane St Underpass			
Verge Servicing	6	0.5	\$178
O'Keefe Ave			
Mulch Program	1	4	\$400
Landscape Maint	11	1.5	\$1,138
Scenic Drive			
Verge Servicing	8	3.5	\$1,657
Inspections	2	0.25	\$28
			\$29,556
Cyclic Maintenance			
	Frequency		
Street Litter bins in Junction & Kinghorne Sts changed & surrounds wiped down	once/fortnight		
Street furniture, paving & sign repairs	as reported by inspection or the public		
Street furniture painting (bollards, seats, shade structures etc)	every 3 to 5yrs depending on condition		
Graffiti Removal (see the other report to the Working Group)	as reported by inspection or the public		