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## 8.4 LIVEABILITY AND NATURAL ASSETS

#### 8.4.1 NAMBOUR HERITAGE TRAMWAY PROJECT UPDATE

File No:	P-B3798
Author:	Coordinator Urban Projects Liveability & Natural Assets Group
Attachments:	Att 1 - General Arrangement Tramway

#### PURPOSE

This report provides a progress update on the Nambour Heritage Tramway project in accordance with Council Resolution OM17/95, specifically for a report to be referred back to Council in the event of a budget shortfall for Council's capital budget deliberations.

#### EXECUTIVE SUMMARY

The Nambour Heritage Tramway project has been before Council on several occasions in the past, most recently in June 2017 when Council resolved to advance the project with a series of specific resolution actions. All elements of the most recent Council resolution have been progressing over the last 18 months, with this report arising from latest project cost estimate exceeding allocated funding and a requirement to report back to Council should this eventuate.

The project is identified within Council's Nambour Activation Plan and is a collaborative effort of Council and community group, The Nambour Tramway Company Ltd (TNTCo). Several key packages of work make up the overall project:

- approvals/Legal: All necessary leases and funding agreements have been executed. An interface agreement between TNTCo and Department of Transport and Main Roads (DTMR) has been agreed in principle (subject to final signaling design). TNTCo has obtained accreditation from the Office of the National Rail Safety Regulator (ONRSR) that permits terminus construction and static commissioning of tram rolling stock but currently excludes construction and operation of tram rolling stock.
- b) terminus building: design completed and works ready to commence.
- c) tram rolling stock: open market tender advertised and closed 18 December 2018 (in probity / assessment phase).
- tramway (i.e. track, platforms, roadway modifications): concept design completed with next task scheduled detail design.

Some packages of work are approaching 'shovel ready', however the current funding summary shown in Table 1 below, indicates an estimated budget shortfall of \$2.97 million.

Item	Value
Expenditure (to date)	\$0.42 million
Updated estimate to complete (including contingencies)	\$4.65 million
Sub-total	\$5.07 million
Approved funding (to date)	\$2.1 million
Surplus / (deficit)	(\$2.97 million)

Table 1: Finance summary

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Progression of the individual work packages has been placed on hold awaiting budget shortfall clarification. Various options and budgeting solutions have been considered to address the funding shortfall. In the absence of additional funding the full project intent cannot be delivered.

## OFFICER RECOMMENDATION

That Council:

- (a) receive and note the report titled "Nambour Heritage Tramway Project Update"
- (b) recognise the updated estimates for entire project indicate a \$2.97 million capital budget deficit which cannot be accommodated within the existing Council 10-year Capital Works Program without significant changes in established regional priorities or increases in program totals and
- (c) acknowledge that the current estimated budget shortfall prevents the Nambour Heritage Tramway full scope from being delivered and the project is unable to proceed.

#### FINANCE AND RESOURCING

Total funding currently budgeted towards the project is \$2.1 million from multiple sources across previous, current and future financial years:

- 1. Council \$1.5 million
- 2. TNTCo \$0.1 million
- 3. Australian Government \$0.5 million

Costs to date incurred on the project development are approximately \$0.42 million leaving approximately \$1.68 million from current budget allocations to complete the project. The updated estimates to complete all the project work packages is \$4.65 million leaving a shortfall of approximately \$2.97 million. This shortfall is expected to exist within the 2019/20 financial year. If all funds are required to be sourced from Council it will effectively triple Council's commitment to date, which may have altered earlier examinations of feasibility and justifiable benefits.

Council's budget allocation for this project in the 10 year Capital Works Program was adopted within the Transportation Streetscape Major Centres program, however original budgeting was linked to the Transportation Public Transport Infrastructure program. The Streetscapes Major Centre program has an approximate total value of \$3.3 million annually. The Public Transport Infrastructure program has an approximate total value of \$0.56 million annually.

The current adopted 10 year Capital Works Program has nominated funding within the Streetscapes Major Centre program for Nambour CBD Activation Plan. Funding is scheduled as \$0.3 million in 2020/21, \$0.95 million in 2021/22 and \$1.74 million in 2022/23 for a total of \$2.99 million over three financial years. The intent of these funds was to implement aspects of the Nambour Activation Plan other than the tramway.

Council budgeting options examined to address the shortfall for 2019/20:

- reprioritise Streetscape projects within current program total (i.e. transfer funding from other streetscape projects to Nambour Heritage Tramway)
- b) increase the Streetscape program total with bring forward of all future financial years for Nambour CBD Activation Plan
- c) allocate new additional funding to the program and project.

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Implementing any of these options would be at the expense of other projects, programs or would exceed the funding parameters set down for 2019/20 development of Council's 10 year Capital Works Program.

Further options considered to address the latest cost estimates are outlined in the Proposal section of this report.

## CORPORATE PLAN

Corporate Plan Goal:	A strong community
Outcome:	2.4 - People and places are connected
Operational Activity:	2.4.5 - Progress the Nambour Activation Plan 2015.

## CONSULTATION

#### **Councillor Consultation**

Divisional Councillor G Rogerson

#### Internal Consultation

- Transport Infrastructure Policy
- Transport and Infrastructure Management
- Project Delivery
- Design and Placemaking Services
- Contract and Supply Services
- Legal Services
- Communication
- Property Management
- Finance

#### **External Consultation**

- Nambour Tramway Company Ltd
- Nambour Alliance
- Queensland Department of Transport and Main Roads
- Australian Government Department of Infrastructure and Regional Development

#### **Community Engagement**

Extensive community engagement was undertaken during the development of the feasibility study which was presented to Council on 23 April 2015, and also as part of the development of the Nambour Activation Plan, which was adopted by Council on 15 October 2015.

The Tramfest events remain a highly effective and successful community engagement tool, as is The Friends of the Tram group who maintain a Facebook presence and issue monthly newsletters.

A draft community communication plan for project construction has been developed however its implementation has been on hold pending construction timeframes which is linked to addressing budget deficit. Like other Council streetscapes a process of communication with the community will need to occur in advance of the tramway works.

#### PROPOSAL

The Nambour Heritage Tramway project is designed to re-activate the heritage listed tram line that was initially established to transport sugar cane through the centre of Nambour.

The project is a component of the Nambour Activation Plan 2015 which is a joint initiative between the Sunshine Coast Council and the Nambour Alliance Inc., the town's peak business and community representative body. This Plan, adopted by Council in October

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2015 for implementation, aims to provide a framework to activate Nambour to enable local businesses and communities to energise their township and celebrate their place.

The TNTCo tram operating model, as currently proposed, is a single tram running from 28 Mill Street, along Howard Street with additional passenger egress/access at tram stops outside of 80-82 and 127 Howard Street. TNTCo propose a tram service running half hourly, at least six days a week, with up to 28 passengers for gold coin donations. The business model relies primarily on volunteer workforce for maintenance of the rolling stock and operation of the tramway scheme.

At the Ordinary Meeting of Council on 27 February 2014, Council passed a resolution to provide in-principle support to establish the Nambour Heritage Tramway, pending further advice regarding the financial and legacy implications of the operations. To address Council resolution OM14/18(d) a feasibility analysis was undertaken and reported to Council at the 23 April 2015 Ordinary Meeting. Within the analysis none of the scenarios tested returned a financially feasible result, and indicated investment required from Council to make the operation feasible would be considerable (\$97,000 to \$494,000 per annum). The analysis did indicate a positive Benefit Cost Ratio was likely (sensitive to assumptions) along with various intangible social benefits. This feasibility analysis is included as Attachment 4 of this report.

Outcomes at the 23 April 2015 Ordinary Meeting included seeking external funding support, clarifying responsibilities of both Council and TNTCo, proposing Council funds in future capital budgets deliberations and advance planning investigations for further reporting to Council. OM16/33 further nominated an updated business case to be submitted to Council, which was prepared by TNTCo and included in reporting to Council at the 15<sup>th</sup> June 2017 Ordinary Meeting. The TNTCo business case highlighted their forecast positive operational cashflow, including sink fund and future fund, however it did not include a specific cost benefit analysis. Also included was a capital cost estimate of \$2.1million that was offset with equivalent identified revenue. This business case is included as Attachment 5 of this report.

Outcomes from the 15<sup>th</sup> June 2017 Ordinary Meeting included advancing the project with multiple project tasks, which have been actioned accordingly, however in the event of a budget shortfall a further report to Council was required. Introducing additional capital expenditure without corresponding revenue sources has significant consequences to the TNTCo sinking fund within their business case but no impact on their other operational cashflows. If project scope and legacy operations remain unchanged there are no foreseeable adjustments to previously reported outcomes and benefits.

#### Project Tasks

Several key packages of works make up the overall project to create the necessary infrastructure for the Nambour Heritage Tramway to function:

#### Approvals/Legals

Multiple documents have been negotiated and executed to advance the project in accordance with previous Council resolutions. This includes:

- a) Heads of Agreement between Council and TNTCo
- b) Funding Agreement between Council and Australian Government
- c) Funding Agreement between Council and TNTCo
- d) Lease of portion 28 Mill Street by TNTCo from Council.

A necessary interface agreement between TNTCo and the Department of Transport and Main Roads (DTMR) has been agreed in principle (subject to final signaling design). This is a requirement of DTMR for TNTCo to operate the tram in the State road corridor (Currie Street). There is potential for Council to develop a similar but more condensed agreement with TNTCo for them to operate the tram in the local road corridor.

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TNTCo has obtained accreditation from the Office of the National Rail Safety Regulator (ONRSR) that permits terminus construction and static commissioning of tram rolling stock within 28 Mill Street. Their accreditation currently excludes construction (tram or track) as well as the operation of tram rolling stock. A variation to their accreditation to operate the rolling stock will be required once the tram has been manufactured and is insurable.

A variation to their accreditation to allow construction of tracks will need to occur prior to track works into the terminus building. Should the tram be constructed overseas, as advised by ONRSR, no further construction accreditation is required by TNTCo. However, if the tram is constructed in Australia then TNTCo will have to vary their existing accreditation further to include tram construction. While TNTCo have obtained accreditation for some of the required tasks, it remains a risk to the project that the accreditation variation applications to enable other functions are not supported by the regulator.

#### Terminus building

The project includes a terminus building to occupy the TNTCo leased portion of 28 Mill Street. The design has been completed and necessary building / plumbing applications submitted. Council has previously resolved for TNTCo to be a specialised supplier to construct the building. The terminus functionality includes:

- a) Tramway centre
- b) Visitor information centre
- c) Station platform (disabled compliant passenger access / egress)
- d) Workshop (tram maintenance)
- e) Tram storage
- f) Tracks
- g) Amenities

The Nambour Alliance successfully obtained \$0.5 million from the Australian Government's National Stronger Regions Fund towards construction of the terminus building and associated tracks. In accordance with previous Council resolutions this funding has been transferred from the Nambour Alliance to Council with a \$1 million 50/50 funding agreement executed by Council and the Australian Government. The funding agreement requires works to be 30% complete on the terminus building by 29 March 2019 and fully complete/operating by 31 October 2019 with grant completion reporting and acquittal by 31 January 2020.

#### Tram rolling stock

TNTCo engaged a suitably qualified and experienced consultant to develop functional specifications for the tram rolling stock. The tram functionality includes being battery powered and compatible with the existing heritage listed tracks. Key safety aspects relating to operating on an active public road with vehicle and pedestrian traffic has been included. In accordance with previous resolutions, Council is undertaking the tram procurement but will transfer ownership, maintenance and operational responsibility to TNTCo. An open market tender using the TNTCo developed tram specification closed 18 December 2018 and at the time this report was drafted the tender was in the probity/assessment phase.

#### Tramway

Tramway aspects in the road corridor need to be constructed for the rolling stock to operate and the tram to function. This includes additional track into 28 Mill Street, stations/platforms at two locations, footpath modifications, traffic signal changes and roadway alterations including lighting and extensive line marking. The works are similar to tasks associated with a streetscape, being a mixture of civil and landscape outcomes. A concept design has been completed by suitably qualified external design consultancy with input from both Council and TNTCo. Further procurement is required to enable the detail design task to be completed in

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the first quarter of 2019. The estimated cost of the detail design is included within the overall estimate.

#### Funding Deficit

To address the current overall budget deficit several options have been explored:

#### Additional Revenue Sources:

- a) State and Federal Government grants: within the timeframes of expected project delivery in 2019 there have not been any identified appropriate grant programs. Success of applications is also considered unlikely given the project has already attracted Australian Government funding which has not yet been acquitted.
- b) TNTCo: as a not for profit community group TNTCo have undertaken significant community fund raising to contribute towards the project. They remain committed to continuing these efforts however at the time of report writing additional funds had not been secured.
- c) other 3rd Parties: none identified.
- d) Council: other Streetscape projects would have to be reprioritised or all future year funding for the Nambour CBD Activation would need to be brought forward increasing both the streetscape program and overall total Capital Works Program, at a time when strict limits are required and being applied.

The Streetscape program owner is Design and Place Making Services Branch. Regional streetscaping priorities are determined through a needs-based assessment using objective criteria including:

- Existing asset condition
- Amenity / aesthetics
- Safety
- Legibility
- Equity and opportunities
- Economic sustainability
- Social cohesion and well-being
- Value for money
- Community capacity building and collaboration opportunities
- Environmental sustainability
- Achieving Council vision, strategy and policy outcomes

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The Nambour Activation Plan highlights the following as improvements to be undertaken, albeit with only some being costed and partially budgeted:

- Strategic Projects:
  - Nambour splash water park (budgeted)
  - Connecting town centre to Nambour Showgrounds
  - Petrie Creek pedestrian and green spine
  - Nambour Heritage Tramway (partially budgeted)
- Placemaking Locations
  - Howard Street The Tracks
  - Town Square and High Streets
  - Forecourt/Currie St the little Brunswick St (partially budgeted)
  - C-Square arts and entertainment mecca
  - Petrie Creek Parklands town touching nature

Addressing the tram budget deficit with Nambour CBD Activation Plan allocated funds in Council's adopted 10 year Capital Works Program would consume all available budget over multiple financial years. This would leave no funds to further advance Placemaking locations as identified in the Nambour Activation Plan.

#### Reduce scope:

- Terminus building size reduced: not supported by TNTCo due to functionality requirements
- b) Landscaping treatments in tramway removed: not supportive of Placemaking / Streetscaping outcomes for the Nambour CBD
- c) Remove one or both tramway stations: not supported by TNTCo due to business model usage generation.

While aspects of the project could be undertaken in a staged manner to mitigate the financial impact each financial year, the overall cost to deliver would still require additional budget to achieve all the desired outcomes and project functionality. Furthermore, staging would likely increase the total costing due to multiple mobilisation and rework of staging connections, albeit over multiple financial years rather than just within 2019/20, and is therefore not recommended.

#### Value engineering:

- a) Terminus: building has already adopted low cost material choices
- b) Tram rolling stock: neither Council nor TNTCo are technical experts of tram manufacturing and accordingly have relied on commissioned external advice from industry expert in developing the functional specification. There may be some aspects of the tram that could be altered to reduce costs, but these would need to be considered and advised by technical expert(s) and potentially ONRSR and DTMR.

If reductions in costs or increased budget sources or a combination of both cannot be achieved, then the project is unable to proceed.

#### Legal

Multiple documents have been executed to date relevant to the Nambour Heritage Tramway project, including:

- heads of agreement, lease and funding agreement between Council and TNTCo
- funding agreement between Council and Australian Government

If additional funding is not secured and the project does not proceed the termination clauses/processes within each relevant document will be implemented.

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#### Policy

The Nambour Heritage Tramway project is an outcome of the Nambour Activation Plan.

In early 2018 the Nambour Master Plan was prepared by Strategic Planning Branch. Subordinate to this document, the Nambour Activation Plan remains live and provides the framework to activate the streets and places of Nambour and enable local businesses and community to continue to energise their township, celebrate their place and promote the town as a thriving and extraordinary place to live, work and play. The Nambour Heritage Tramway is a nominated strategic project within the Nambour Activation Plan. Council's Corporate Plan includes an operational activity to progress the Nambour Activation Plan 2015.

Additional work is being done on the 'Reimagine Nambour' project which is intended to bring together government, community and business leaders to deliver a strategy that unites the town and its leaders around an action plan. Funding for the action plan has been provided through the Federal Government's Building Better Regions Fund and Sunshine Coast Council. The project action plan is currently under development and is expected in early 2019.

#### Risk

- Updated estimates indicate that to complete the overall project Council's contribution may be triple current budget
- Actual costs incurred greater than updated estimate. Detail design of the tramway not yet completed. The updated estimate in this report include contingency factors and allowances
- Loss of investment to date if project does not proceed
- Loss of Federal Government grant funding should terminus not be constructed. Loss of revenue, loss of infrastructure investment into Nambour and Sunshine Coast region, loss of reputation with Australian Government through not delivering in accordance with funding agreement
- Key task within the Nambour Activation Plan not being implemented. Outcomes intended of the Nambour Activation Plan not achieved
- Tramway / streetscape construction consultation with businesses / community has not yet occurred
- ONRSR accreditation variations for TNTCo to allow construction and operational tasks not yet obtained.

#### **Previous Council Resolution**

#### Ordinary Meeting 15 June 2017 (OM17/95)

That Council:

- (a) receive and note the report titled "Nambour Heritage Tramway Project Update"
- (b) request the Chief Executive Officer to finalise the Heads of Agreement document in accordance with the position outlined in this report
- (c) receive and note The Nambour Tramway Company Ltd.'s Business Case
- (d) resolve pursuant to section 236(2) of the Local Government Regulation 2012 that an exception to dispose of an interest in land (agreement) in the property identified in Appendix A Site plan part thereof Lot 2 RP224422, other than by tender or auction be applied, as the disposal is to community organisations as per section 236(1)(b)(ii) and resolve to enter into an appropriate Community agreement with The Nambour Tramway Company Ltd

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- (e) adopt The Nambour Tramway Company Ltd as a specialised supplier pursuant to section s.235(b) of the Local Government Regulation 2012 as the development manager for the construction of the Western terminus as detailed in the Greenway Architect plans M13.003 (WD.01-WD.11), track and signal infrastructure within and leading up to the 28 Mill Street Nambour site, and request the Chief Executive Officer prepare an appropriate funding agreement to encompass the administration, supervision and acquittal of Council's, Nambour Alliance and the Federal Department of Infrastructure and Regional Development funding for the proposed capital works
- (f) note that The Nambour Tramway Company has raised in excess of \$650,000 funding towards the project via 'Tramfest' events, donations Department of Infrastructure and Regional Development, National Stronger Regions Fund grant of \$500,000
- (g) in recognition of the efforts stated in recommendation (f):
  - commit to allocate a further \$500,000 towards the project in the 2017/18 financial year in accordance with Council resolution (OM15/52[f]) and to complete Council's original commitment to the project totalling \$1.5 million
  - (ii) commit to progress the procurement of the tram from project funds, to provide ownership and the full maintenance and operational costs and responsibilities to The Nambour Tramway Company Ltd by utilizing section 236(1)(b)(ii) of the Local Government Regulation 2012. Council will develop detailed specification and tender documentation in consultation with The Nambour Tramway Company
  - (iii) request the Chief Executive Officer to proceed with the preparation of the detailed designs and refined cost estimates for the project, prior to the commencement of the construction works
  - (iv) delegate authority to the Chief Executive Officer to authorise any applications to be submitted for any approvals required to enable the tram, ancillary buildings and operations to be considered by the relevant authorities and
- (h) in the event of a budget shortfall, a report will be prepared by Council updating the current financial position of the project and seeking Council's future commitment within the 2018/19 financial year Capital Budget deliberations and
- (i) subject to agreement of the funding agent, grants from The National Stronger Regions Fund and Queensland Tourism Demand Driver Infrastructure Grant Fund, that have been provided to any parties or grants under consideration, if successful, be transferred to Sunshine Coast Council.

#### Ordinary Meeting 25 February 2016 (OM16/33)

That Council:

- (a) receive and note the report titled "Nambour Heritage Tramway Project Update"
- (b) request the Chief Executive Officer to provide a project update to Council on the execution of the heads of agreement, project costing, business case, fund raising and grant funding status and
- (c) note the works will continue to progress on the design development and associated approvals.

#### Ordinary Meeting 15 October 2015 (OM15/174)

That Council:

- (a) receive and note the report titled "Nambour Activation Plan"
- (b) adopt the Nambour Activation Plan (Appendix A) and
- (c) refer a funding request to undertake a feasibility study for the establishment of a water splash park in association with the Nambour Aquatic Centre to the 2016/17 budget considerations.

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#### Ordinary Meeting 23 April 2015 (OM15/52)

That Council:

- (a) receive and note the report titled "Nambour Heritage Tramway Feasibility Assessment Report"
- (b) note the Feasibility Analysis of the Nambour Heritage Tramway report
- (c) note that an amount of at least \$2.1 million in funding may be needed to deliver the project
- (d) support the Nambour Heritage Tramway project via joint funding and partnership arrangement with the Nambour Heritage Tramway Group (the Group), whereby the Group is responsible for the purchase of the tram, is the act as the Infrastructure Manager and Rail Transport Operator of the Tramway; with the Council responsible for land acquisition, buildings, tram tracks and signalling upgrading
- (e) note that considerable work has been completed and that additional work is required between Council and the Group to complete overall project governance and funding, key project hold points for future decision by Council and joint partnership arrangements, before a final project funding arrangement, project start date, can be confirmed by Council
- (f) request the Chief Executive Officer to include an allocation of \$500,000 in the 2015/16 draft Budget for future consideration by Council and further, that an additional amount of \$500,000 be included in each for the 2016/17 and 2017/18 draft Budgets for consideration by Council at the time. Further that these funds represent the maximum funding allocation by Council for this project and further that such funding is to be available for land acquisition, building and other associated capital works approved from time to time by the Chief Executive Officer
- (g) pending funding as per (f) above, being included in the 2015/16 budget request the Chief Executive Officer to draft a Heads of Agreement document in consultation with the Group, to formally recognise the parties' roles and responsibilities including the governance, funding and key project hold points described above; confirmation of the \$600,000 project funds to come from the Group via a combination of fund raising and grants from other governments fully realisable by 30 June 2017 or such other earlier date; agreed assets and operations insurance coverage; recognition that Council supports the Group in any application for funding to other governments, provides support to the Group to obtain necessary accreditation and an Infrastructure Manager and Rail Transport Operator and continues to provide support and advice and
- (h) pending funding as per (f) above, being included in the 2015/16 budget request the Chief Executive Officer to provide a project report to Council by 31 December 2015 on the status of key project hold points, project milestones, potential funding arrangements and the status of the Heads of Agreement document with the Group.

#### Ordinary Meeting 27 February 2014 (OM14/18)

That Council:

- (a) receive and note the report titled "Nambour Heritage Tramway Issues Paper Report"
- (b) receive the Nambour Heritage Tramway Issues Paper (Appendix A)
- (c) give in principle support for the re-activation of the existing heritage listed tramway line, located in Howard, Currie and Mill Streets Nambour, to accommodate the future running of an electric tram and all associated historic rail vehicles
- (d) request the Chief Executive Officer to have further due diligence assessment carried out considering:
  - detailed costings, including asset condition reports of existing infrastructure and rolling stock

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- (ii) funding sources
- (iii) cost-benefit / financial viability analysis
- (iv) Council's legal and financial liability
- (v) extent of community capacity and capability to support the project in terms of volunteers, sponsorship and funding from all sources and potential legacy implications for Council
- (e) reallocate up to \$50,000 from the 2013/2014 Division 10 Councillor Emergent Capital Works and Minor Operational Works Policy funding allocations for the due diligence assessment of the project and
- (f) allocate further funds from the Division 10 Councillor funds in the 2014/2015 financial year should they be required to complete the due diligence assessment.

#### Ordinary Meeting 13 December 2012 (OM12/197)

Notice of Motion - Nambour Tramway Development

That Council request the Chief Executive Officer, in consultation with the Divisional Councillor, to bring to Council a report including an issues paper for the development of the Nambour Tramway utilising the existing heritage listed sugar cane locomotive line with such reports to cover the following:

- outline of the proposal
- proposed ownership and operations of rolling stock
- route alignment
- property tenure issues
- essential infrastructure required
- planning and approval issues
- key stakeholders and any agreements required
- community aspirations and limitations
- cost estimates for:
  - construction (Capital Costs)
  - operating costs
  - revenue potential and
- other items as relevant.

#### **Related Documentation**

Attachment 1: General Arrangement Tramway

Attachment 2: Terminus Building Drawings

Confidential Attachment 3: Cost estimate by work packages [confidential as includes information currently within tender probity].

#### **Critical Dates**

The executed funding agreement between Council and the Australian Government for the terminus building includes a schedule for works to be 30% complete by 29 March 2019 and fully acquitted (i.e. constructed and operating) by 31 January 2020. For these requirements to be met construction of the terminus building needs to commence immediately following Council budgetary decision.

Other critical dates relate to Council funding and budget development / budget revisions within allocated financial years (2018/19 and 2019/20).

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#### Implementation

Should the recommendation be accepted by Council, it is noted that the Chief Executive Officer will:

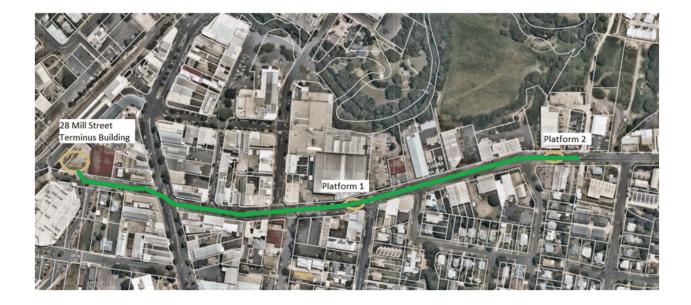
- (a) utilise the termination clauses and processes within the executed documents and
- (b) create a restricted fund for the unspent Nambour Heritage Tramway Council allocated budget to be used for reprioritised Nambour Activation Plan tasks.

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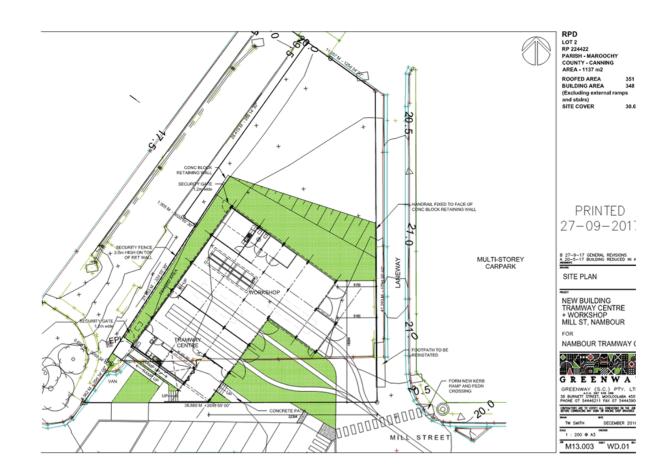
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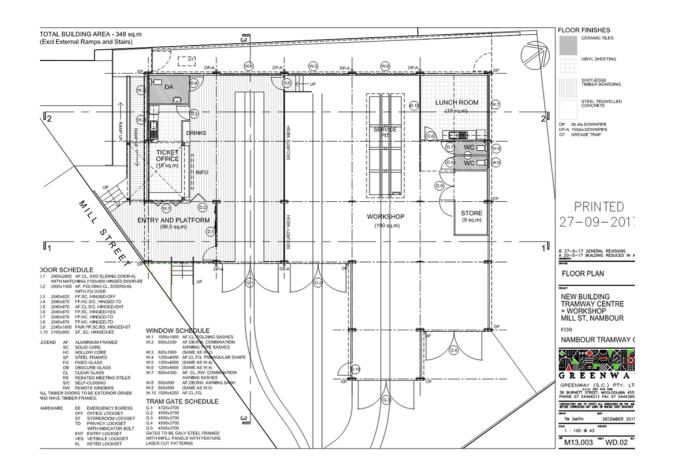
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# Attachment Folder

## Item 8.4.1 Ordinary Meeting

Thursday, 31 January 2019

## ORDINARY MEETING ATTACHMENT FOLDER

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ORDINARY MEETING Item 8.4.1 Nambour Heritage Tramway Project Update Attachment 4 Nambour Tramway 2015 Feasibility Analysis





Feasibility Analysis of the Nambour Heritage Tramway (R0300001)

> Sunshine Coast Regional Council October 2014

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This Report has been prepared for:

Sunshine Coast Regional Council October 2014

This report has been prepared by:

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With input from sub-consultants





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#### Disclaimer

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Feasibility Assessment of Nambour Heritage Tramway

## **Executive Summary**

In February 2014, Council passed a resolution to provide in-principle support to establish the Nambour Heritage Tramway, pending further advice regarding the financial and legacy implications of the operations. Following from this action, the Sunshine Coast Regional Council appointed C Change Sustainable Solutions Pty Ltd, together with Ranbury Pty Ltd, to further investigate the likely costs, revenues, benefits and risks associated with the establishment of the Tramway. The study was completed over a 6-week period and:

- Determined the financial feasibility associated with the introduction of the Tramway;
- Completed a cost benefit analysis of the operation;
- Analysed the economic and social impacts associated with the Tramway operation; and,
- Completed a risk assessment associated with the advancement of the concept, including any legacy implications for Council.

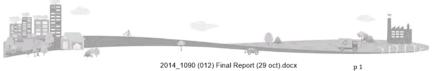
#### The Nambour Heritage Tramway

The concept assessed assumed the following:

- The Nambour Heritage Tramway would generally utilise the existing heritage listed sugar cane line along Howard Street and Mill Street.
- The Tramway would carry passengers between two points, with one intermediate stop. One destination would be adjacent to Coles Supermarket

on the corner of 9 Mill Street (western end of the line). The other destination would be the old Moreton Mill marshalling yard, adjacent to the Aldi Supermarket (eastern end of the line). The intermediate stop would be at a safe distance from the Howard Street / Sydney Street intersection.

- The extent of the line is approximately • 900 metres
- To ensure safe and effective functioning, the following works would be required:
- o Extension of the existing track to access the new depot site in the old marshalling yards site and the proposed western terminus adjacent to the Coles shopping centre.
- o New terminus stations at each end, including short low level platforms and weather awnings, and an information kiosk at the western terminus.
- o A new storage and maintenance depot located in the old marshalling yards site
- Property acquisition would be 0 required at both ends of the track for the terminus stations and the depot.
- o The base concept provides for minimal trackwork for a single tram operation only. A further option includes additional trackwork (runaround sidings) at each end to permit a locomotive hauled train to also



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Feasibility Assessment of Nambour Heritage Tramway

operate. This included the provision of additional storage tracks within the secure depot area and larger depot building to cater for extra locomotives and carriages. The potential extension works have been costed but have not been modelled in the financial feasibility assessments or the cost benefit analyses.

- The depot would provide amenities for employees / volunteers and would be able to accommodate the tram and up to two additional locomotives.
- A ticket office/tourist information kiosk is proposed at the western terminus. Tickets would also be able to be purchased on board from the driver.
- The Tram would be electric powered, with battery recharging from a solar power system located in the depot.
- The theme would be 'historic' and ensure that practicality, safety and access requirements were strictly adhered to.
- Operations of the Tramway would be based on a half hourly round trip. It is assumed that the Tramway would operate at least 5 days a week on weekdays, with the option to operate on a Saturday morning too.



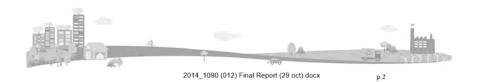
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#### Policy Environment and Community Support

The study completed a review of the policy environment as it relates to Nambour and assessed the likely level of community support for the Tramway.

Nambour currently enjoys the role of a Major Activity Centre that services the Sunshine Coast Regional Council's hinterland areas. Although the dominance of the centre has declined somewhat since early 2000, the Planning Scheme and SEQ Regional Plan note that growth is expected in the area over time. While there is no explicit support within the policy environment for the establishment of the Tramway, the role of the Centre does not preclude such a venture from progressing.

The study also assessed the community's views on the future of Nambour and the venture. There was a high level of enthusiasm from a large proportion of the Nambour Community regarding the establishment of the Tramway. From the community survey that was conducted 77 per cent of respondents indicated that they felt the establishment of the Tramway would be beneficial for Nambour as it would reinforce a unique identity for Nambour and attract additional visitation and expenditure (refer Figure 1). Approximately 30 per cent of respondents indicated they would provide some level of volunteer support (for those who indicated they would volunteer, the average amount of time was 13 hours per month).



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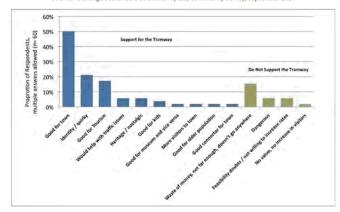
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Attachment 4 Nambour Tramway 2015 Feasibility Analysis



Feasibility Assessment of Nambour Heritage Tramway

Figure 1: Nambour Community's Response to the Tramway Proposal Source: C Change Sustainable Solutions Pty Ltd, Community Survey, September 2014

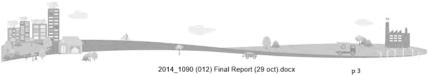


Those that did not support the establishment of the Tramway (12 per cent) indicated that the route 'didn't go anywhere' or that the route 'didn't go far enough'. These people felt that the money associated with establishing the concept could be better spent elsewhere, and another did not want to have to pay for the venture through increased rates. Other respondents also reflected on the old cane train and thought that the Tram would be dangerous.

Nambour Alliance, which includes representatives from Nambour's businesses and community, indicated that the establishment of the Tramway was an essential element for their 'vision' for Nambour, and they indicated that the current route was the first stage in what could be a longer and more destination defined route.

#### **Scenarios Tested**

The Nambour Heritage Tramway Group indicated that they expected the establishment of the Tramway to include considerable inkind support from a range of people. In addition to the service being run primarily by volunteer staff, community members with skills in (but not limited to) building, maintenance, promotion were also likely to provide inkind support to the venture. To ensure that Council has a complete picture of the overall costs associated with such a venture, as well as taking into account the potential for volunteer and inkind support, the financial feasibility and the cost benefit analysis tested a number of scenarios. These included:



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Feasibility Assessment of Nambour Heritage Tramway

- Scenario 1: Base Case Scenario, which included a 5 day service and commercial costs;
- Scenario 2: Extended Operation Scenario, which included a 6 day service with commercial costs.
- Scenario 3: Base Case Scenario as per Scenario 1, with allowance for inkind works and volunteer time;
- Scenario 4: Extended Scenario as per Scenario 2, with allowance for inkind works and volunteer time.

#### Financial Feasibility Outcomes & the Potential Investment Required from Council

Financial feasibility assessments were completed utilising discounted cash flow techniques that modelled costs and revenues over a 30 year period. Capital and operating costs assumed in the assessments are contained in Appendix 5. Expected revenues for the operation were determined through the application of assumptions derived through the analysis of the community survey. Revenue streams expected included ticketing from the Tram (\$2 for full fare, \$1 for concession, children under 5 free), plus revenue from merchandising and school excursions.



 operation feasible would be considerable:
 If full cost recovery was assumed, then Council would be required to input between \$4.2 million (where substantial inkind services were provided) to \$9.6 million (where no inkind services

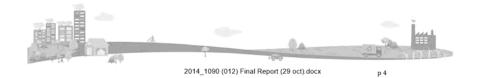
provided) over the 30 year period.

returned a financially feasible result, and the investment required from Council to make the

 If capital costs were assumed to be sunk, the annual subsidy that would be required by Council would be between \$97,000 (where substantial inkind services were provided) to \$494,000 per annual (where no inkind services were assumed).

Based on the financial feasibility assessments, even where volunteer services were allowed for, should full cost recovery be achieved, revenue would need to increase by 260 to 270 per cent in order for the operation to break even.

Sensitivity testing was performed using discount rates of 10 per cent and 12 per cent, plus scenarios where revenues were increased by 10 per cent. Given the magnitude of the costs versus revenues, the overall outcome of the assessment remained financially unfeasible. Full details of the financial feasibility assessments can be found in Section S, and Appendix 6.



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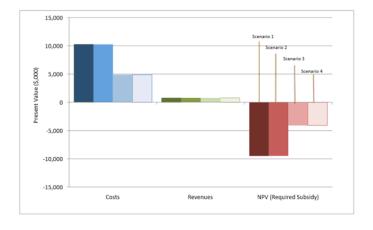
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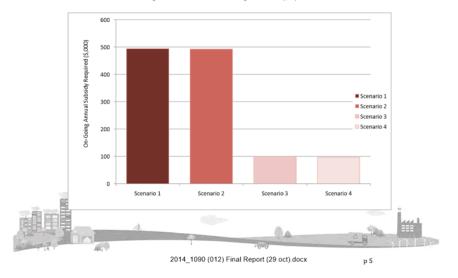


Feasibility Assessment of Nambour Heritage Tramway

Figure 2: Expected Costs, Revenues and Net Present Value for the Tramway Source: C Change Sustainable Solutions with costings from Ranbury, September 2014



#### Figure 3: Operational Ongoing Subsidy Required for the Nambour Heritage Tramway Source: C Change Sustainable Solutions with costings from Ranbury, September 2014



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In addition to the financial feasibility assessments, a cost benefit analysis (CBA) was

conducted to test the overall community

scenarios as those used for the financial

A CBA compares the outcomes of implementing a project (in this case the

Nambour Heritage Tramway) with the outcomes that are likely to occur should the

project not go ahead (termed a 'do minimal'

or 'do nothing' option). By comparing the 'do nothing' with the 'project' option, marginal (or

additional) costs and benefits result and the

overall outcome (if a positive result occurs)

shows 'how much' society is likely to benefit

The technique quantifies as many costs and

benefits as possible in each of the options in monetary terms. By doing so, the 'value for

money' can be clearly shown. It is important

to note that costs and benefits are valued in

community at large, rather than the costs or

benefits to any particular entity, and costs or

benefits that are simply transferred from one

part of society to another are not included (these are termed 'transfer' costs/benefits).

The costs used in the CBA were the same as

those for used in the financial feasibility

assessment. Benefits noted in the CBA included the 3 revenue streams expected to be directly related to the Tramway service (as used in the financial feasibility assessments ticketing, merchandising and school excursions), plus a number of other broader

terms of the impacts they make to the

from the implementation of a program.

'value' proposition of the venture. The same

**Cost Benefit Analysis** 

feasibility were assessed.



benefits that are likely to accrue to the wider Nambour community. These included:

- Induced spending in Nambour from visitors and workers;
- Increased tourism & visitor expenditure ٠ in Nambour;
- Benefits from additional tourism to • Sunshine Coast; and
- Expenditure from new events.

Assumptions used to determine the overall benefits are discussed in Section 7.

Analysing the costs and expected benefits over a 30 year period, it was found that a Benefit Cost Ratio above 1 is likely to be achieved if the volunteer and inkind services were provided as assumed, and if tram patronage and visitor assumptions held true (BCR = 1.3).

However, even under volunteer and inkind scenarios, the BCR is quite sensitive to cost increases and benefit decreases. Where costs are increased by 10 per cent and benefits decreased by 25 per cent, a BCR of 0.9 is returned (which indicates that the costs are marginally exceeding the benefits).

The graphs overleaf shows the expected costs, benefits and net present values (Figure 4) and the highest and lowest BCRs (Figure 5) for each of the scenarios assessed.



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Feasibility Assessment of Nambour Heritage Tramway



Figure 4: Expected Costs, Overall Nambour Community Benefits and Net Present Values (Cost Benefit Analyses) associated with the Nambour Heritage Tramway Source: C Change Sustainable Solutions with costings from Ranbury, September 2014

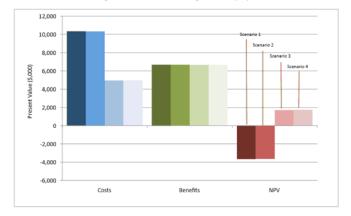
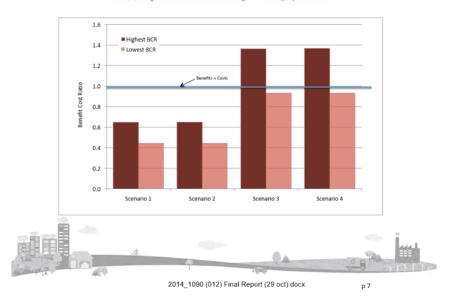


Figure 5: Benefit Cost Ratios associated with the Nambour Heritage Tramway (for Base Scenarios and Sensitivity Testing) Source: C Chanee Sustainable Solutions with costings from Rahvur, September 2014



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Feasibility Assessment of Nambour Heritage Tramway

#### Social and Economic Benefits Summarised

A social and economic impact assessment was also conducted for the study. A list of potential benefits from the venture include:

- The potential to assist in strengthening the identity and uniqueness of Nambour. This could lead to improved community pride, visitation and expenditure in Nambour
- The potential to create a point of difference for functions and events in Nambour, which is in line with the Nambour Alliance vision. This would assist in providing activities / events for children, young adults, aging people and the general public. Opportunities could include having bands play on the tram at the terminus of a Saturday night; having dinners along the track or at the stations; having a coffee tram; having artists on board or at the stations.
- Better access to goods and services. particularly for older people, which is a large component of the Nambour demographic.
- Increased expenditure in the Nambour centre and the broader Sunshine Coast Region as shown in the CBA.
- Opportunities for workers and visitors to park in the Coles and Aldi car parks and use the tram to access other parts of Nambour (assuming Coles and Aldi are willing to share parking). Thus making parking in Nambour more convenient.
- Many people surveyed believed that the Tramway would be a catalyst for further redevelopment opportunities & other activities and businesses. Beautification works and a stronger economic foundation for Nambour based on



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increased visitors and expenditure would also lead to increased employment opportunities and the potential to develop other businesses.

- More recreational opportunities and activities can lead to better health outcomes and the opportunity for the rail/tram enthusiasts to share their knowledge and skills.
- There is the potential for jobs in other areas if activity and expenditure in Nambour increases (retail, services etc) and potential for further increases if all staff positions were paid. The economic impact assessment suggests that the construction phase alone is likely to generate jobs for around 27 people on the Sunshine Coast and an additional 8 people outside the Coast. Operation of the service is likely to create an additional 7 jobs on the Sunshine Coast and an additional 5 jobs external to the Coast.
- More tourists to Nambour and Sunshine Coast generally. More visitors, increased expenditure - on Tramway and related products as well as other shops.

#### Potential Negative Impacts and Risks

There are also potential risks and negative impacts associated with the operation if it was to proceed. These include:

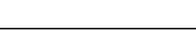
People thinking that the Tram's route is too short or not interesting enough to use, and therefore the assumed patronage and visitation to the centre used in these assessments may not be experienced. Based on case studies reviewed as part of the study (refer Section 3), a key success criteria was to



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Feasibility Assessment of Nambour Heritage Tramway

have interesting destinations and intermediate stops. The opportunity exists to redevelop the destinations in the future, but this has not been included in the assessments here.

- There is no firm commitment from Coles or Aldi on whether they would permit shared access to their carparks for Tram patrons. Discussions with Coles and Aldi would be required to ensure that this could be facilitated. Should Coles and Aldi not allow the car parks to be used, potential ridership of the Tramway is likely to decrease.
- There is a need to ensure that the image the Tramway provides for Nambour is one that is conducive to the ongoing development of Nambour. Some stakeholders noted that the 'tram that goes nowhere' is not something they want Nambour to be known for.
- If the Tramway is not sufficient to attract and sustain more visitors as assumed in the assessments here, then expenditure is unlikely to increase and the Tram is unlikely to be a catalyst for redevelopment or increased expenditure in the Centre.
- There is the potential for safety related tram incidents arising from its on-road The Rail Infrastructure operation. Manager and the Rolling Stock Manager will need to ensure that all staff members are adequately trained, and that there is community education associated with the Tram. This may be problematic with a small workforce and/or longer term reliance on volunteer support.
- The Depot and information centre would need to be adequately secure to ensure they don't attract graffiti or unwanted behaviour. Costs associated with

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security have been included in the

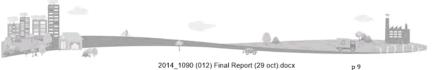
- Depending on the popularity of the tramway, and the available time of people, volunteering required to operate the tramway system may not be present over the longer term. If that is the case, longevity of the operation is questionable.
- Increased revenue and the benefits expected from the economic impact assessment may not result if visitation does not increase, or people do not use the tram as expected
- Indirect operational impacts are likely to be minimal if direct operational positions are voluntary as there are minimal wages or salaries associated with the Tramway.

#### **Conclusions and Potential Legacy** Implications for Council

A wide range of assessments were performed to assist in determining the overall costs and benefits associated with the establishment of the Tramway

The assessments here have shown that there is a wide level of support from the Nambour Community and that early indications are that people would use the 900 metre Tram route being suggested.

The financial feasibility assessments conducted have shown that from a variety of viewpoints, including those allowing for substantial volunteering and inkind services, Council is likely to need to provide at least an ongoing subsidy of around \$97,000 per annum. This assumes all capital costs have been covered and that substantial inkind



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services are provided. Should the level of assumed patronage and revenues from merchandising and school excursions be less than what has been assumed in the analysis, should capital costs not be able to be covered by grants or other means, or should the inkind services not result. Council's required investment could be substantially more assessed as up to \$9.4 million over a 30 year period in this analysis (under a full cost recovery scenario).

Under the assumptions of volunteer and inkind services, a Benefit Cost Ratio of 1.3 is likely, indicating that there are more broad society benefits than costs with the venture. However, achieving this outcome depends on the operation reaching the patronage and level of visitation assumed in the assessments. Should costs increase by 10 per cent and benefits fall by 25 per cent, the BCR would be 0.9 (indicating that the costs would marginally outweigh the broader community benefits likely to accrue to Nambour).

A number of intangible social benefits are likely to result with the venture, including improved community pride, strengthened identity and the potential to be the impetus for further redevelopment within Nambour. The Tramway is seen as important part of reinforcing Nambour's unique identity.

There are a number of risks for Council associated with the operation, including the risk of tram incidents if safety procedures are not followed, and the risk that volunteer and inkind services may decline over time if the venture is not as popular as first expected.

The Nambour Heritage Tramway - Issues Paper developed by Council (refer Appendix 1) provided an operational risk assessment. This indicated that accreditation of the Rail



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Infrastructure Manager and the Rolling Stock Operator is essential, but that even whe accreditation has occurred, the potential risks involved in the operation are not completely eliminated. The Issues Paper states that 'at all times, the responsibility for ensuring the safety of the railway operations remains with the Railway Organisation' (in this case Council). Should a tram incident occur, it is likely that there will be ramifications for both Council as the Rail Infrastructure Manager and the community operators as Rolling Stock Operators. As Rail Infrastructure Manager, Council will need to be satisfied that appropriate measures are in place such that:

- Track and infrastructure are safe and fit • for purpose, and are appropriately maintained:
- Rolling stock is safe and is appropriately maintained:
- All operational risks are identified and appropriately managed / mitigated
- There is a risk register in place and this is utilised appropriately; and,
- Management, training and staff policies and procedures are appropriate. This will be particularly important if a large volunteer base is utilised.

Another legacy implication to Council is associated with the risk of the volunteer base declining and the Rolling Stock Operator not being able to keep operations running. In this situation there is the potential that Council will have to 'take over' operations. If this was the case there may be an expectation in the community for Council to continue the operation of at least the Information Centre, if not the Tramway itself. To determine whether it was strategically beneficial for Council to continue the operations, the overall ongoing subsidy required to operate the Tram



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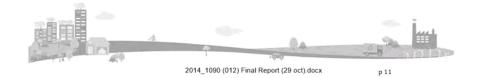
Feasibility Assessment of Nambour Heritage Tramway

and/or the regional benefits of the Tram would need to be weighed against the opportunity cost of Council spending the required subsidy elsewhere in the Region.

The alternative would be for Council to cease the Tramway operations altogether. If that was the case and there were outstanding debts Council would most likely become responsible for these. If, on the other hand, the community group operating the Tramway were provided the opportunity to do so on the basis that they were able to meet all establishment costs upfront (perhaps by securing grants or donations), Council could



cease the services and have minimal ongoing costs. In the case where all establishment costs were paid for and the Council ceased operations, Council's ongoing costs would be limited to housing the tram and ensuring that the information centre, depot / maintenance shed does not become a target for grafiti and/or other unwanted behaviour. This outcome is not likely to be an expensive proposition, but will require management of community expectations.



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Feasibility Assessment of Nambour Heritage Tramway



#### 1 Introduction

In February 2014, Council developed an Issues Paper associated with key components of the establishment of the Nambour Heritage Tramway, as well as two discussion papers. These are attached at Appendix 1 and should be read in conjunction with this report.

In considering these reports, the Sunshine Coast Regional Council passed a resolution to provide in-principle support to the establishment of Nambour Heritage Tramway, pending further advice regarding the financial and legacy implications of the operations. Specifically, the resolution stated (OM14/1):

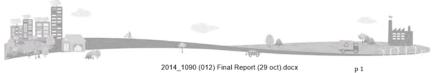
#### "That Council:

- (a) receive and note the report titled "Nambour Heritage Tramway Issues Paper Report"
- (b) receive the Nambour Heritage Tramway Issues Paper
- (c) give in-principle support for the re-activation of the existing heritage listed tramway line, located in Howard, Currie and Mill Streets Nambour, to accommodate the future running of an electic tram and all associated historic rail vehicles;
- (d) request the Chief Executive Officer to have further due diligence assessment carried out considering:
  - a. detailed costings, including asset condition reports of existing infrastructure and rolling stock;
  - b. funding sources;
  - c. cost-benefit / financial viability analysis;
  - d. Council's legal and financial liability;
  - Extent of community capacity and capability to support the project in terms of volunteers, sponsorship and funding from all sources and potential legacy implications for Council"

In August 2014, C Change Sustainable Solutions Pty Ltd (C Change) was commissioned by the Sunshine Coast Regional Council to complete the Feasibility Assessment of the Nambour Heritage Tramway in August 2014. C Change sub-contracted Ranbury Pty Ltd to provide the costs estimates for the study.

The study was completed over a 6-week period and the study:

- Determined the financial feasibility associated with the introduction of the Tramway;
- Completed a cost benefit analysis of the operation;



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- Analysed the economic and social impacts associated with the Tramway operation; and,
- Completed a risk assessment associated with the advancement of the concept, including any legacy implications for Council.

This report outlines the findings associated with the Study.

#### 1.1 The Nambour Heritage Tramway

As noted in the consultant brief issued for the study and through further discussions with Sunshine Coast Regional Council officers, the financial and legacy elements of the potential establishment of the Nambour Heritage Tramway would be assessed assuming that the Nambour Heritage Tramway would be established utilising the existing heritage listed sugar cane tramline and extending infrastructure to ensure that safe destinations could be developed at the end of the line.

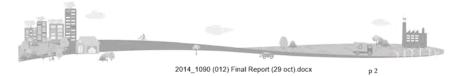
In line with the Transport (Rail Safety) Act 2010, the analysis notes that a Rail Infrastructure Manager and Rolling Stock Operator needs to be assigned to the Tramway. Based on discussions with Council, it has been assumed that Council would retain the role of Rail Infrastructure Manager, and another operator (e.g. the Nambour Tramways Group) would be the Rolling Stock Operator. Accreditation of both these elements is required by the Act, and monetary allowances for this have been included in the analysis. As per advice from Council, the assessments assumed that both the Rail Manager and Rolling Stock Operator would be covered by the Council's public liability insurance (refer Appendix 2 for Council advice on Insurances).

Further assumptions associated with the Tramway are provided in Section 4.

#### 1.2 Method

The method utilised for the study produced a robust analysis to assist Council in determining the merits or otherwise of progressing further with the concept. The C Change team completed the study in 8 stages as shown below. In summary, this included:

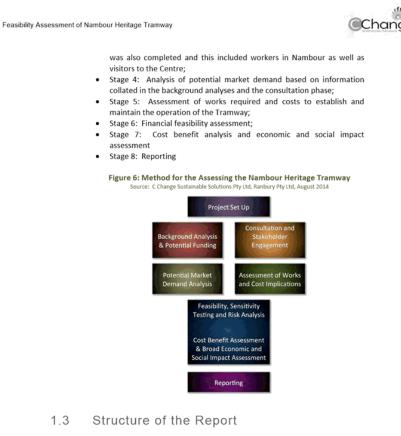
- Stage 1: Project set up;
- Stage 2: Background analyses, including a review of the local context and development of case study examples of other heritage trams and trains;
- Stage 3: Stakeholder consultation with key players, including key Council officers, Divisional Councillor, the Nambour Tramway Group, Nambour Alliance, Coles and Aldi supermarkets. A community survey



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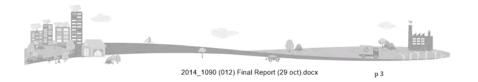
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The remainder of this report includes the following sections:

- Section 2 provides contextual information and outlines the policy context in which the Nambour Tramway would be placed as well as the demographic characteristics associated with the catchment of Nambour. Community attitudes towards the establishment of the Tramway are also discussed;
- Section 3 outlines case studies of other heritage tram and train projects and summarises key success criteria;



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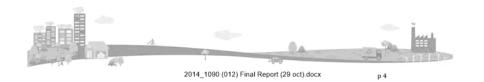
Feasibility Assessment of Nambour Heritage Tramway



- Section 4: includes details associated with the Nambour Heritage Tramway, including required works to ensure the safe and effective operation of the service;
- Section 5 includes the financial feasibility of the establishment of the Tramway. This section discusses the demand likely to be associated with the tramway and the component costs. A discounted cash flow (DCF) model developed to assess the financial feasibility of the project is discussed with regard to a number of scenarios, and various sensitively testing;
- Section 6 discusses the economic and social assessments of the potential Tramway. Specifically, a cost benefit analysis (CBA) with sensitivity testing is discussed as well as likely economic and social impacts of the venture on the community of Nambour. Both the CBA and the economic and social impact draw on information from the stakeholder consultation conducted and the community survey results;
- Section 7 includes a risk assessment associated with moving forward; and,
- Section 8 concludes the report.

Appendices included are as follows:

- Appendix 1: Nambour Heritage Tramway Issues Paper and Background
  Papers developed by Sunshine Coast Regional Council
- Appendix 2: Advice on Insurances provided by Sunshine Coast Regional Council
- Appendix 3: Community Survey utilised in the study
- Appendix 4: Potential Tram Suppliers
- Appendix 5: Capital and Ongoing Costs
- Appendix 6: Output associated with Financial Feasibility Assessments
- Appendix 7: Output associated with Cost Benefit Analyses
- Appendix 8: Risk Assessment
- Appendix 9: Funding Options



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Feasibility Assessment of Nambour Heritage Tramway

# 2 Nambour in Context

The Sunshine Coast is arguably one of Australia's most liveable regions – it has amazing natural attributes, growing sectors across many industry areas and it offers a lifestyle that is the envy of many.

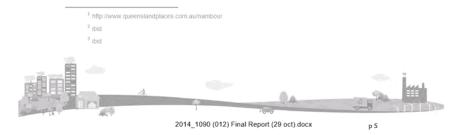
The coastal areas, which are synonymous with the Sunshine Coast, are complemented by the inland Rail Towns. Nambour, the Sunshine Coast's major inland Rail Town, was established as the administrative centre of the Sunshine Coast in 1890 and still hosts one of the main Local Government Office locations in the region. Many State and Australian Government services operate in Nambour, as well as anchor stores - such as Coles, Woolworths and Aldi - plus a number of diverse retail outlets, including the Coast's only vinyl record shops (Backbeat and The Time Machine).

Settled in the late 1800s, Nambour was originally named Petrie Creek. The name Nambour, or possibly Nambah was "the name of a farm taken up by William Samwell in the early 1870s, and it is thought that the name was derived from an Aboriginal word describing tea-tree bark"<sup>1</sup>.

After settlement, the economy of Nambour was broad and the region grew bananas, corn, fruit, timber for harvesting, and, of course sugar. In 1897 the main sugar mill in the region was established in Nambour. Four years later cane tramways were built and in 1907 locomotives were installed to transport cane to the mill<sup>2</sup>. The railway through Nambour was opened in 1891.

By the 1920s Nambour had a chamber of commerce established, a pineapple cannery, an electricity reticulation scheme and several new sawmills. According to the history chronicles<sup>3</sup>, the 1920s ended with the opening of the district hospital, which is still a considerable employment and health services hub on the Coast today.

Nambour was one of the more prominent areas on the Sunshine Coast until the 1950s. In the 1950s economic activity in the Maroochy district began to move to beach towns but the economy of Nambour was still solid. By the late 1990s and early 2000s, however, much of the activity on the Sunshine Coast was firmly focused on the coastal areas and the prominence of



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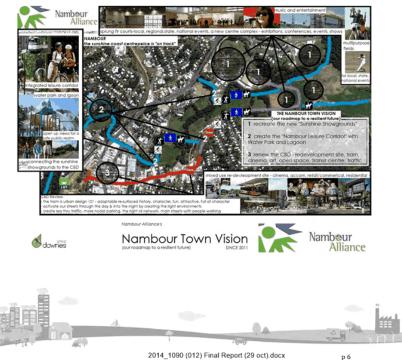
Feasibility Assessment of Nambour Heritage Tramway



Nambour declined. In 2003 the sugar mill closed, and along with it, the cane trains ceased operations

Still an area that is considered fondly by many, particularly the town's residents, discussions with Nambour Alliance, which includes representatives from Nambour's businesses and community, indicate that the community would like to establish Nambour as the thriving 'centrepiece' of the Sunshine Coast. Although not adopted Council policy, Nambour Alliance has developed a vision for Nambour which would see the area: a) host significant regional local and national events; b) provide significant leisure opportunities, particularly for youth; and, c) have an active and diverse CBD that reflects the town's history and character as well capitalising on the embryonic and 'quirky' arts and cultural scene. This vision for Nambour is shown in Figure 7. The establishment of the Tramway is a key feature of the Plan. Based on the survey conducted by the Consultant team for this project, the Tramway is supported by a large proportion of the general community (refer Section 2.3).

> Figure 7: Nambour Alliance's Vision for Nambour 2014



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#### 2.1 **Policy** Environment

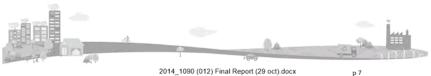
The policy environment for Nambour is established by the South East Queensland Regional Plan, the Sunshine Coast Regional Planning Scheme and Sunshine Coast Regional Council adopted policies. These documents allocate roles and expectations for the various areas across the Sunshine Coast. The Strategic Intent for the Sunshine Coast, and the key centres within the Sunshine Coast as determined by the Planning Scheme, SEQ Regional Plan, and the Sunshine Coast's Social Infrastructure Plan are discussed below. It is noted that the Sunshine Coast Sustainable Transport Strategy is silent on the establishment of the Nambour Heritage Tramway.

Strategic Intent

As noted in the Sunshine Coast Regional Planning Scheme, the overall vision for the Coast by 2031 is that it is renowned for its "vibrant economy, ecological values, unique character and strong sense of community. It is Australia's most sustainable community - vibrant, green and diverse." Also important to the vision is a more compact and efficient form of development. It is noted that the majority of new growth is directed towards the established coastal areas of Maroochydore, Caloundra, Kawana and Sippy Downs as well as the emerging communities of Palmview, Kawana Waters and Caloundra South. New growth is also expected in Nambour as the dominant major regional activity centre serving the hinterland areas.

#### Key Centres and Settlement Patterns

A range of urban centres support the Sunshine Coast residents, visitors and workers (refer Figure 8 overleaf). At the highest level in the centres' hierarchy is the Regional hub of Maroochydore. Demarcated as a Principal Activity Centre in the SEQ Regional Plan and Principal Regional Activity Centre in the Sunshine Coast Planning Scheme, Maroochydore is expected to provide a wide range of functions, including higher order retail, commercial, employment, health, administrative, cultural, recreational and entertainment uses. The vision for the future of Maroochydore is a centre that hosts innovative, knowledge based businesses as well as education and health industries. A focus on a lifestyle region with a large emphasis on place making and urban amenities is expected for the structure planning area. Significant tracts of land have been dedicated to commercial and retail functions to support the vision.



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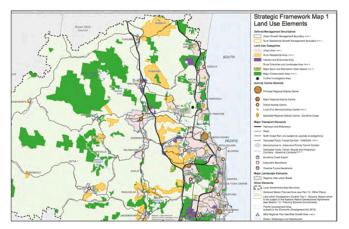
Feasibility Assessment of Nambour Heritage Tramway



Maroochydore is supported by other major regional activity centres at Caloundra, Kawana and Sippy Downs. Major Regional Activity Areas are also located throughout the Region, including in Nambour. Other major regional areas are located at Kawana, Caloundra, Noosa, Beerwah and Sippy Downs. Caloundra South is proposed to be a Major Regional Activity Centre into the future. These centres have various roles, including being major destinations for retail, commercial and in many cases tourism and business incubation. In the cases of Kawana and Sippy Downs, education and training are also key industry sectors given the Regional Hospital at Kawana and the Sunshine Coast University at Sippy Downs.

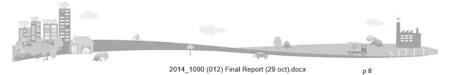
Figure 8: Strategic Framework and Land Use Elements (Nambour as a Major Regional Activity Centre

shine Coast Planning Scheme, 2014



The town centre of Nambour is expected to support higher-level retail, employment and service needs of Nambour and surrounding hinterland areas. As noted previously, both the Planning Scheme and the SEQ Regional Plan expect that Nambour will accommodate further housing development over time.

The Sunshine Coast Social Infrastructure Plan also supports the concept of developing and strengthening Nambour as a community hub servicing the hinterland community. It was recommended in that Plan that a precinct plan be prepared such that the community/cultural identify and function of



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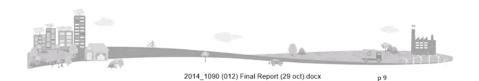
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the area be strengthened. Recommendations in the Social Infrastructure Plan include many of Nambour Alliance's vision elements, including the upgrading of the aquatic facility, further planning for rehearsal/arts/culture/meeting space/s, and planning for local library facilities. The community identity, character and social inclusion elements in the Planning Scheme provide overall support to creating activity centres on the Sunshine Coast that create a unique identity.

# 2.2 Demographic profile

For the purposes of the Study, the 'catchment' of Nambour was defined in line with the Social Infrastructure Plan – Nambour – Burnside and District, although it is noted that Nambour services the broader hinterland area for higher order services. Using Council's ID profiling tool for 2011 and 2006, defining characteristics of the Nambour population included the following:

- In 2011, Nambour's catchment was home to approximately 16,300 people. This was an increase of approximately 1460 people from 2006.
- Nambour had approximately the same proportion of families with children under the age of 18 when compared to Greater Brisbane, but lower proportions of people aged 18 to 49, and considerably more people aged 60+ (refer Figure 9 overleaf). The age distribution of Nambour was reflected in the area's median age – 41 years old compared to 35 for Greater Brisbane.
- Predominantly from an Anglo-Saxon background (82 per cent for Nambour District versus 71 per cent for Greater Brisbane), Nambour had a lower proportion of people working fulltime and a higher proportion of unemployed people when compared to Greater Brisbane.
- The most dominant employment industry in the Nambour District was health care and social assistance (21 per cent). This is not surprising given the Hospital and related health care services in Nambour. Other dominant industries included retail (11 per cent) construction (10 per cent), and accommodation / food services (7 per cent).
- Nambour had a marginally higher proportion of people nominating themselves as volunteer workers when compared with Greater Brisbane (approximately 21 per cent versus 19 per cent for Greater Brisbane).



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Figure 9: Age Structure, Nambour-Burnside District and Greater Brisbane (2011)

Source: Sunshine Coast Regional Council, ID Consulting, Based on Census 2011 Information

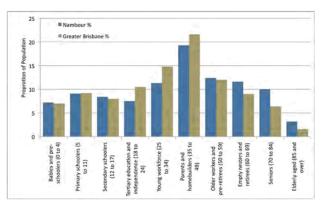
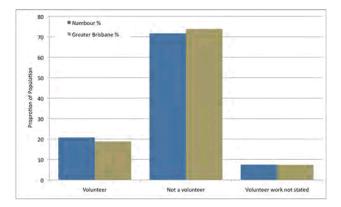
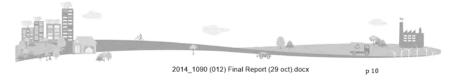


Figure 10: Proportion of Volunteer Workers, Nambour-Burnside District and Greater Brisbane (2011)

Source: Sunshine Coast Regional Council, ID Consulting, Based on Census 2011 Information





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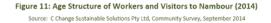


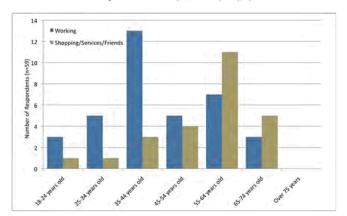
Feasibility Assessment of Nambour Heritage Tramway

# 2.3 Community Attitudes

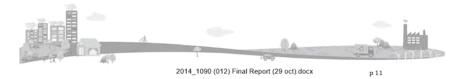
As part of the assessment of the Feasibility Nambour Heritage Tramway a community survey was conducted. Consultants conducted the survey over a 3-day period September 2014 in the Nambour activity centre and a total 60 responses were obtained. Of the 60 respondents, 62 per cent were in Nambour to work, and the remainder to either shop, use services and/or meet friends.

The age spread of respondents is shown below. Although both workers and visitors spanned the age groups, the median age for workers was 44 years old while it was 55 years old for visitors. As noted above, the median age for the Nambour District was 41 in 2011 (3 years ago). Approximately 15 per cent of respondents were retired.





The catchment of visitors to Nambour was generally the postcode 4560 (74 per cent of all respondents). The 4560 postcode is a wide area as shown below. Other areas that people came from to shop and generally browse in Nambour included Eudlo, Yandina and Gympie. One person resided in the ACT and was in Nambour to visit friends/relatives. Workers came from



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further afield (with 68 per cent from postcode 4560), with other workers from neighbouring postcodes as well as Redcliffe.

Figure 12: Nambour Postcode 4560



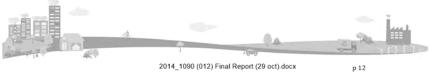
Several questions were asked in the survey including those inquiring about: Support for the concept of reintroducing the Nambour Heritage Tramway;

- The extent to which people were willing to pay to use the tram and likely frequency of use;
- For what purpose would people use the tram;
- Likely usage of ancillary services associated with the tram;
- Likelihood of increased expenditure in the Nambour centre; and,
- Willingness to volunteer services to assist the continuous operation of the Tram.

The questionnaire used is provided in Appendix 3 and a summary of results discussed below.

Survey Outcomes

The large majority of the respondents surveyed (77 per cent) indicated a high level of enthusiasm for the introduction of the Nambour Heritage Tramway. These people felt that the Tramway would be good for the town, particularly in terms of creating a unique identity for Nambour and encouraging more visitors to the centre (refer Figure 13). Twelve per cent of respondents did not support the idea, predominantly because they felt the money required to establish and operate the Tramway could be better used elsewhere. Many of those who did not support the concept indicated that the Tramway route as proposed was too short, and that the current destinations were not of sufficient interest to generate usage. A few



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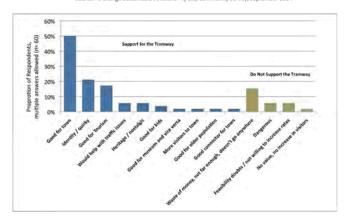
Feasibility Assessment of Nambour Heritage Tramway



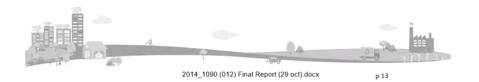
respondents reflected on the old cane rail and indicated that it would be dangerous, and a few respondents said they would not be willing to see rates go up to fund such a venture. Ten per cent of those surveyed did not have an opinion regarding the project.

#### Figure 13: Community Attitudes to the Establishment of the Nambour Tramway

Source: C Change Sustainable Solutions Pty Ltd, Community Survey, September 2014



The majority of those in favour of the introduction of the Tramway indicated that they would pay between \$1 and \$2 to use the tram (73 per cent of respondents) (refer Figure 14). Discussions with the Nambour Tramway Group supported this proposition, indicating that they felt a 'gold coin' donation was an appropriate fare for Tram usage.



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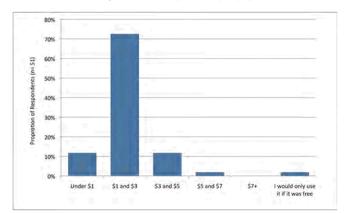
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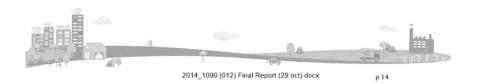
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Feasibility Assessment of Nambour Heritage Tramway





In total, 85 per cent of respondents indicated that they would use the tram, with 27 per cent indicating they would use the tram a few times a week, and 33 per cent indicating that they would use it either once a week or once a month (refer Figure 15). Fifteen per cent indicated that they would use it less frequently. Converting this to an average usage, the outcomes of the survey suggested that people visiting and working in Nambour would use the tram approximately 8 times a month (or twice a week). The most popular reason to use the tram was for shopping purposes (69 per cent), followed by recreation (41 per cent) and accessing work (29 per cent). Browsing and accessing other services were also mentioned by a number of respondents. None of the respondents indicated that they would use the service to assist in getting their children to school, but it is noted that the survey did not prompt respondents about this type of usage.



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Feasibility Assessment of Nambour Heritage Tramway

Figure 15: Nominated Frequency of Use of the Nambour Tramway Source: C Change Sustainable Solutions Pty Ltd, Community Survey, September 2014

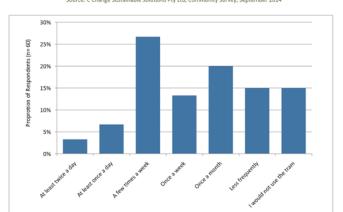
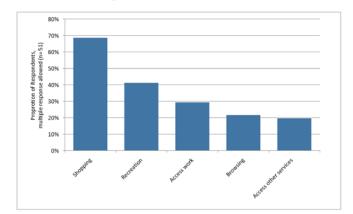
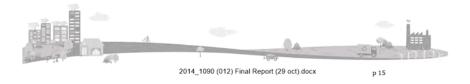


Figure 16: Reasons why the Nambour Tramway would be Used Source: C Change Sustainable Solutions Pty Ltd, Community Survey, September 2014





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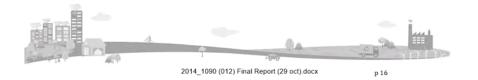
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Respondents were asked if there was anything that could be added to the tram to encourage more frequent use, and most indicated that the trip was too short to have a substantial experience. A couple of people indicated that free internet, having merchandise to purchase, linking the tramway to the sugar industry or having a special and/or open carriage would be good ideas.

Approximately 33 per cent indicated that they would spend more in Nambour if the Tramway was operating. Those who indicated they would spend more in the Centre, indicated that their expenditure would increase by approximately \$23 per week extra. If all respondents who indicated that they would use the tram were included in the assessments, then on average visitors and workers in Nambour using the Tram would spend approximately \$18 more in Nambour per week.

Respondents were also asked if they would use the Tram if it also operated as a restaurant with good value and good quality food in the evenings or at some time during the day, and 75 per cent indicated they would. Many noted that the restaurant would work best if it was stationary as the route itself was quite short. A few respondents also indicated that a coffee tram was an alternative to a restaurant. Given Nambour Alliance's vision of Nambour embracing the arts and culture scene, there is also the opportunity to have mini-concerts with bands playing, local theatre and the like around the stationery tram after operating hours.

Of those who expressed interest in a restaurant, 37 per cent indicated they would visit it once a month if the food was good and the price reasonable, and 12 per cent indicated fortnightly and weekly each. Sixty two per cent of respondents indicated that they would consider between \$10 and \$20 reasonable for a meal, 10 per cent indicated below \$10 and 10 per cent indicated between \$20 and \$30.



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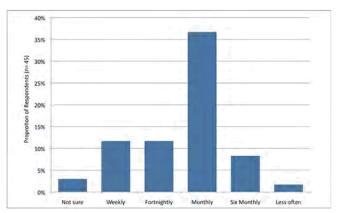
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Figure 17: Likely Frequency of use for Ancillary Tram Services / Activities (eg. Restaurant)

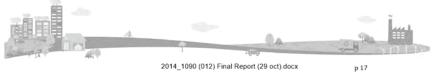
Source: C Change Sustainable Solutions Pty Ltd, Community Survey, September 2014



Respondents indicated a range of other opportunities are likely to arise with the development of the Tramway and 75 per cent indicated that they felt the Tramway would be a catalyst for further development of Nambour (refer Figure 18). Seventy nine per cent of respondents felt that the Tram would bring more tourists/visitors to the Centre.

Other opportunities thought to be encouraged by the Tramway included: Howard Street amenity improvements;

- Having further heritage information, opportunities and historical attractions;
- Encouraging other tours / tourism in and around Nambour;
- Encouraging the development of spaces for children;
- Encouraging street art and more stylish shops;
- Having further opportunities for the Tramway in the future. In particular, having the Tram loop around town, extend to the Showgrounds, Bli Bli and Coolum;
- Having an information centre in Town; Allowing businesses to promote themselves through specials events and through special options (e.g. on the back of tickets);
- Having an opportunity for unique parties for kids on the Tram / fun days for kids and the general public with the Tram;



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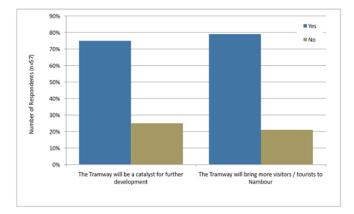
Feasibility Assessment of Nambour Heritage Tramway

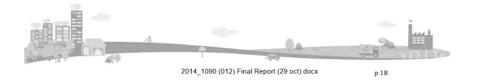


- Assisting parking issues;
- Providing a link between the civic centre and museum;
- Having markets (day or night) and also music concerts / safe youth hang
- outs at night (particularly Saturday nights);
- Merchandising; and
- School excursions.

# Figure 18: Opinions regarding the Tramway's impact on tourists and other developments in Nambour

Source: C Change Sustainable Solutions Pty Ltd, Community Survey, September 2014





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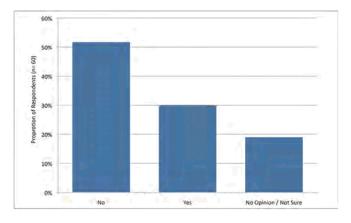
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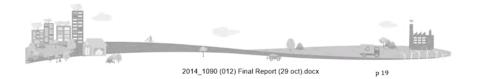
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Feasibility Assessment of Nambour Heritage Tramway

Respondents were asked whether they would be willing to provide volunteer time / services to assist with the operation of the Tram. Of the 60 surveyed, 30 per cent indicated they would, 52 per cent said they would not be willing to volunteer, and the remaining 18 per cent were not sure. Of those willing to offer their time through volunteering, the average time being offered was about 13 hours per month.

Figure 19: Willingness to offer Volunteer Support for Nambour Tramway Source: C Change Sustainable Solutions Pty Ltd, Community Survey, September 2014





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# 3 Heritage tram and train case study projects

To gain an understanding of the characteristics and challenges associated with other heritage tram and trains, five heritage attractions were studied. These included:

- The Mary River Heritage Railway The Red Rattler, Queensland;
- The Bendigo Tramway, Victoria;
- The Bellarine Heritage Train, Victoria;
- The Pichi Richi Heritage Train in South Australia; and,
- The Perth and Fremantle 'Tram'.

The findings of the case studies are noted below. For each railway/tramway and outline of the service is provided, along with information associated with visitation, staffing, revenue streams, and the operators' perspectives on the critical factors of success.

It is noted that the attractions studied are quite different in many respects to the Nambour operation. All have substantial routes (at least 10km long but some much longer), and 3 out of 5 of the case studies are railways as opposed to tramways (and therefore have quite different establishment and maintenance requirements). The Perth and Fremantle 'Tram' is actually a bus with a tram aesthetic. Nonetheless, the exercise of determining key success criteria for the operations can add value to the successful operation of the Nambour Heritage Tramway.



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3.1 Mary River Heritage Railway – The Red Rattler



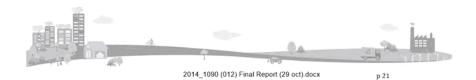
# Outline

The Mary Valley Heritage Railway (MVHR) had its genesis in 1984 when the Apex Club of Gympie and the Gympie and District Historical Society proposed that steam locomotive No 45 be preserved from ruin. In 1993 the Apex Club proposed that a tourist train be based in Gympie and run along the Mary Valley branch line as this was scheduled to be closed by Queensland Railways in 1995. After lengthy negotiations with Queensland Transport, Queensland Railways and the Gympie and District Historical Society, operations of the MVHR commenced on the 23rd May 1998. After beginning with a single steam locomotive (No. 45) the MVHR rolling stock grew to around 60 locomotives and carriages.

The MVHR operated continuously until The Red Rattler's licence was revoked in 2012 due to degradation of the track and a lack of funds to repair it. Discussions with the MVHR Board have highlighted that they expect that the Red Rattler will be up and running again in the near future.

# Visitation

At its peak, the MVHR had an annual visitation of around 35,000. Generally, patrons were from the Sunshine Coast, South East Queensland and Wide Bay regions and consisted primarily of school groups, retirees, train enthusiasts and general tourists from the region.



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## Staffing

Prior to the cessation of operations in 2012, the MVHR operated with around 11 Full-time equivalent staff and about 60 volunteers. Under the new proposed structure, the MVHR expects to employ 3-4 full-time equivalent staff and rely heavily on an expanded volunteer base of around 250 individuals.

Volunteers are generally mature aged individuals (between 50 and 75 years old) that are predominantly male. Some volunteers are from the local area, but many of the specialist roles (such as train drivers and guards) come from further afield.

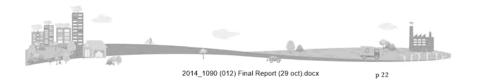
#### Revenue

Revenue streams for the MVHR include ticketing for train rides of varying lengths, themed days and merchandising of MVHR items. The MVHR also used to conduct a twilight market once a month. In order to diversify the product, MVHR are also investigating the possibility of introducing shorter two hour trips when they are again operating.

#### Critical Success Criteria

When asked about success criteria for a heritage railway/tramway, MVHR listed the following:

- Ensure the operation has access to substantial funds to maintain rolling stock and tracks;
- · The rolling stock needs to look authentic while maintaining practicality;
- The staff and volunteer base need to be passionate about the operation;
- Employ a clever marketing strategy, one that links in with other destinations in the Region; and
- Ensure the route has interesting destinations along the way, and at the start and finish point.



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#### 3.2 Bendigo Tramway



#### Outline

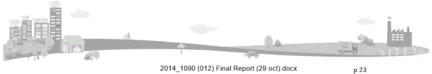
The Bendigo Tramways has been in operation since June 1890. From that time, the citizens of Bendigo have experienced battery, steam and electric traction as the principal modes of propulsion for their trams. On 11th September 1972, the State Government of Victoria granted The Bendigo Trust permission to operate a Vintage 'Talking' Tram tourist service between the Central Deborah Gold Mine in Violet Street, through Bendigo and on to the Bendigo Joss House Temple at North Bendigo. The line is approximately 4.4km long with stops and a round journey takes approximately 1 hour. The Trust has now maintained and operated the tramway for over 42 years.

#### Visitation

The Bendigo Tramway has an annual visitation of around 40,000 people. These patrons consist mostly of tourists to the area. Approximately 80% are from the greater Victorian area, 15% are from interstate and around 5% are international tourists

#### Staffing

In the past, Bendigo Tramways was heavily reliant on volunteers to ensure the successful operation of the line. In recent times, however, they have made a conscious move to include more paid positions in order to guarantee the operation of the service. Currently, Bendigo Tramways employs five full time staff, five part time staff and has around 34 volunteers on roster. Volunteers are generally quite local, but drivers can be from



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further a field, with some coming from Sydney to drive the tram. These people generally come for a week or more at a time.

Bendigo Tramways also restore heritage trams around Australia and staff are shared between this role and that of servicing the tour component of there operation.

#### Revenue

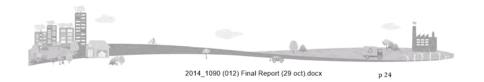
Bendigo Tramways has a diversified revenue stream that includes ticketing, merchandising, depot tours, collection and restoration of trams and rent for charters.

All general tickets are two day valid for two days and cost \$17.50 for a single adult and \$51 for family of four. Children under 5 travel for free. Charter costs can vary depending on the event and the tram requested.

#### Critical Success Criteria

When asked about success criteria for a heritage railway/tramway, Bendigo Tramways listed the following:

- The route should have interesting destinations at either end to draw people into the service;
- Information about the Heritage and interesting aspects of the town should be included in the experience;
- Food and drink are important parts of the experience, and therefore destinations and/or intermediate stops should be able to cater for this as well; and,
- The operation should link with destination marketing of the area to assist in attracting people to the operation.



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# 3.3 Bellarine Heritage Railway



## Outline

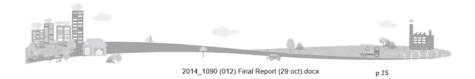
The Bellarine Railway, formerly known as the Bellarine Peninsula Railway, is a volunteer-operated steam-driven tourist railway located in Victoria. It operates on a 16 km section of a formerly disused branch line on the Bellarine Peninsula between the coastal town of Queenscliff and Drysdale, near Geelong.

During 1976 and 1977, the Geelong Steam Preservation Society engaged in fundraising efforts and began regauging a short section of track around Queenscliff station, in order to enable their rolling stock to operate on the line. With the help of some government funding, they succeeded in operating their first services - from Queenscliff to Lakers Siding, in May 1979, and to Drysdale not long after.

The railway currently operates a 'Heritage Train Service' between Queenscliff and Drysdale, along the southern shoreline of Swan Bay and through grazing land, with an intermediate stop at Lakers Siding. Several themed days also operate.

### Visitation

Current annual visitation to the Bellarine Railway is around 250,000. These patrons come from the local Bellarine area however are predominantly



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tourists from Geelong, Melbourne, country Victoria and interstate. The operation is marketed as part of the overall Bellarine experience.

#### Staffing

The Bellarine Railway has three paid full time staff and around 200 volunteers on its books. A core of 50 volunteers conduct the majority of tasks for the safe operation of the railway. The volunteer pool comes from the local area, as well as Warrnambool, Melbourne, Bendigo and as far as New South Wales.

#### Revenue

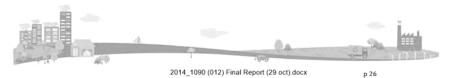
The Bellarine Railway receives revenue from ticketing and merchandising. It has diversified its railway experiences, specials and events offered to include the following:

- School holiday programs;
- Locomotive Cab rides available on days the Heritage Service is running;
- Steam and Diesel Train Driver Experiences;
- Day out with 'Thomas' weekends;
- Special occasion and wedding charters;
- Mid-week tailored group and school tours; and
- The Blues Train, which features live music on most Saturday evenings from August to May.

## Critical Success Criteria

When asked about success criteria for a heritage railway/tramway, Bellarine Heritage Railway listed the following:

- The operation needs to be an experience, not just a ride in which one gets on and off;
- The operation needs to be integrated with the broader Tourism authorities and operations in the Region;
- It would be beneficial to be actively marketing the service on social media; and
- It is necessary for operation to seek accreditation for its service and use this accreditation in its marketing strategy.



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#### 3.4 Pichi Richi



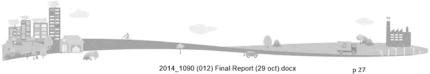
#### Outline

The Pichi Richi Railway Preservation Society (PRRPS) is a non-profit railway preservation society and operating museum formed in 1973. The society, managed and staffed by volunteer members, operates heritage steam and diesel trains on the restored 39 kilometre section of track between Quorn and Port Augusta in South Australia.

Built in the 1870s, this unique railway is the last remaining operating portion of the "Old Ghan" narrow-gauge line. The Railway was revived in 1974 by the volunteers of the Pichi Richi Railway Preservation Society. The Pichi Richi Railway has two main routes, The Afghan Express and the Pichi Richi Explorer. The Afghan Express is a return trip to Quorn from Port Augusta (78 kilometres return). This train usually consists of Ghan carriages from the 1920s and is often hauled, wherever possible, by an original Ghan steam locomotive, NM25, thus recreating the type of travel experienced on the Ghan in the 1930s and 1940s. A shorter journey, the Pichi Richi Explorer, is a return service to Woolshed Flat departing from Quorn (32 kilometres return).

#### Visitation

Annual visitation to the Pichi Richi Railway is around 10,000. Indications from the Pichi Richi Railway Preservation Society suggest that annual visitation needs to be around 16,000 in order for them to operate free from



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donations and other funding sources. It was noted that the continued operation of Pichi Richi is a struggle, particularly given its remoteness to any major town. Representatives from the board of Pichi Richi noted that if the train did not hold the historic value it had and was being established today it is unlikely to receive the funding support needed to maintain the operation.

Patrons of the Pichi Richi Railway dome from all over Australia and Internationally. The greatest percentage of patrons come from Adelaide and are predominantly 'grey nomads', grandparents with kids and families.

#### Staffing

Currently, the Pichi Richi Railway has no paid positions and is completely managed by around 20 volunteers. Due to the remoteness of the operation, most volunteers and qualified crews live between 300-1000km away.

#### Revenue

Most revenue for the Pichi Richi Railway comes directly from ticketing (pricing varies from \$44 - \$78 depending on length of journey). Some revenue comes from merchandising sold through the local council information centre

The Pichi Richi Railway has continually expanded the type and number of services it offers as more rollingstock and track is restored and rehabilitated. Other special services include occasional "double header" steam trains, and dinner trains originating in Port Augusta and stopping at the track-side Willows Brewery Restaurant en route to Quorn. A new service introduced in 2010 saw guests dining on the train in a first class dining carriage, with a 3course meal prepared in the carriage's kitchen by a local hotel's chef. Trains and carriages are also available for private hire, suiting a range of different occasions from weddings to tour groups.

### Critical Success Criteria

When asked about success criteria for a heritage railway/tramway, Pichi Richi Railway again stressed the difficulty of these types of operations being self sustaining. They indicated that for most success:

- The operation needs to be professional in its management from the outset;
- The operation needs sufficient money to ensure maintenance is guaranteed;



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- · It would be beneficial to develop a long term vision and plan for the operation; and
- The operation needs a core of passionate people who are young and active, as well as having key retired enthusiasts.

#### 3.5 The Perth and Fremantle 'Trams'



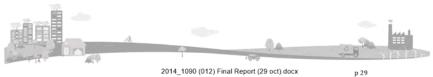
#### Outline

Perth and Fremantle in Western Australia offer a unique 'tram' experience offering either guided sightseeing tours (Fremantle Trams) and/or charter options for corporate affairs, weddings and school outings/balls (both Fremantle and Perth Trams). The 'trams' are tram carriages on top of bus chasses and therefore provide significant flexibility with regard to routes on offer. All trams are replicas of the first trams operating in the Perth and Fremantle regions in 1899.

The Fremantle Tram has been in operation since 1985 and the Perth operation for over 20 years. It is noted that the current operators of the Perth Tram have operated the business for the last 3 years, and that this business is run in line with their 'double decker bus' hop on and off tours.

Both Tram operations work in conjunction with other tour operators, which, according to the Perth Tram operator indicated that this was essential for success.

To cater for a more diverse target group, Perth Trams have a variety of trams in different sizes. This includes a 21 seater single trams to double carriages that seat 48 people comfortably.



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Visitation

Annual visitation to the Perth and Fremantle Trams is around 25,000 per year. The catchment of visitors to both operations is largely interstate and international markets, with the United Kingdom accounting for the largest proportion of patrons.

### Staffing

Both Tram operations are run by private companies and as such all positions are paid. The representative of the Perth Tram indicated that while it would be possible to run the Perth Tram operation as a stand alone business, the viability of the Tram is very much assisted by being a part of the larger 'double decker bus' tour operations.

#### Revenue

While the proportion of revenue could not be ascertained by activity type, it is noted that ticketing pricing varied from around \$24 for a hop on hop off service, up to \$85 for a service that included some type of cruise and dinner element. Some revenue is also derived from merchandising.

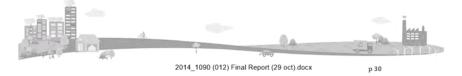
### Critical Success Criteria

When asked about success criteria for a heritage railway/tramway, the Perth Tram operator indicated that running such a venture is a difficult task. However, for most success:

- Broad destination marketing and linking with other successful tour operators is essential.
- Understanding the market and being realistic about patronage allows for a realistic expectations of how successful the business is likely to be.
- Understanding that maintaining an operation such as this is both costly and time consuming – people need to be dedicated and passionate to have most success.

# 3.6 Summary of Key Success Criteria for Nambour Tramway

Noting the above information, operators of other Heritage Tram/Train operations indicated that there were six criteria critical for successful and self-sustaining operations of heritage tramways/trains. These were that:



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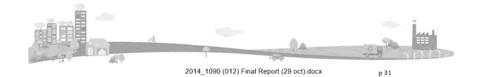
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- The operational funds, particularly those required for maintenance, need to be understood and catered for from the outset and throughout the operation;
- The rolling stock should have a point of difference and look authentic while still maintaining practicality;
- The staff and volunteer base are most reliable when they are passionate about the operation;
- Volunteer assistance should span a range of age groups, and not solely rely on retired people;
- Marketing strategies for the operation work best when they tie in closely with destination marketing for a 'package' of attractions; and,
- The route should have interesting destinations along the way, particularly at the starting and finishing point.

How the Nambour Heritage Tramway rates on the above criteria is discussed in the Risk Assessment in Section 7.



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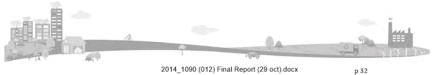
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#### 4 The Nambour Heritage Tramway

#### 4.1 **Proposed Operation**

The proposed operation as described in the Project Brief and the assumptions utilised for these assessments for the purpose of scoping and budget estimates are summarised as follows:

- The project will provide a tramway service generally along the existing tramway in Mill and Howard Streets between the Coles supermarket site and Aldi supermarket site.
- A depot to house the tram and up to 2 other locomotives will be located at the eastern end, assumed located within the old Mill Street marshalling yards site.
- A western terminus will be located adjacent to the Coles supermarket. which will also include a tourist information / memorabilia kiosk. This would be staffed, with staff amenities.
- An eastern terminus would be located off Howard Street and adjacent to the tramway depot. Both terminus stations will provide for awnings for weather protection for waiting patrons.
- The terminus stations are proposed to have a low level platform on one side to facilitate access. The intermediate stop within Howard Street is proposed as being appropriately signed only, with access off the road pavement due to the space constraints within Howard St and expected level of usage. Disability access would be though driver assistance if required.
- The intermediate stop would be located to best suit likely usage and attractions along the route.
- A single tram unit, with driving stations each end, to provide point -topoint services without the need to turn the tram. The tram will be electric battery powered.
- Whilst the depot could house up to 2 additional locomotives, the base case assumes that a locomotive hauled train (with carriages) does not operate on the line. The additional trackwork (run-around siding) at each terminus to permit re-positioning the locomotive to be the lead vehicle for each trip was costed separately to the base or minimum case, but has not included in the financial or economic assessments.
- Whilst operation is noted as being primarily in daylight hours, appropriate lighting of the terminus stations and intermediate stops would be provided.



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#### **Proposed Scope** 4.2

#### Tram Unit

A number of options exist from reputable suppliers for supplying a suitable tram unit. The 610 mm (2 foot) track gauge is not common for tramways or for battery operated trams, and a bespoke tram unit is required. Two suppliers of suitable units responded to preliminary enquiries as indicated in Appendix 4. Both Alan Keef Ltd and Severn Lamb are United Kingdom based. There was another potential supplier identified in the prefeasibility report (the Iowa - USA based company (Gomaco Trolley Company)), but it is noted that this company supplies only standard gauge (1435 mm track gauge) vehicles, and even for those vehicles its budget price was considerably higher than those from the UK companies.

For the purposes of the investigations conducted here, the estimate the Severn Lamb unit and budget price was included in the evaluation. This was a budget guote of UK pound 298,000 excluding works and transportation.

The technology is not complex, and the availability of a local supplier to design and build a suitable tram for a competitive price should be pursued in the event the project proceeds. It is noted that two companies with the appropriate rail vehicle design and manufacturing skills include Gemco Rail (based in Perth) and the local Maryborough based Wm. Olds & Sons Pty Ltd. If an alternative 'tram' was to be considered (such as the Perth bus 'Tram'), the Perth operators have indicated that they would consider selling a vehicle

The battery life between recharging of the Severn Lamb vehicle was indicated as being up to 9 hours, but dependent on intensity of use.

#### Track

An initial visual inspection of the existing track in Howard and Mill Streets indicates that the rail is in good condition, with some minor work needed to clean the rail surface where impacted by more recent road re-surfacing works. The duty cycle and axle loading of the tram operation would not be expected to involve much wear & tear on the rail and supporting structure, compared to the previous cane tramway operation.



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Track extensions would be required at each end to service the proposed terminus locations and the depot. Concept track layouts are shown in Figure 20, which show the track layout required to operate short locomotive hauled trains.

The extensions at either end require demolition of the current ends to provide the appropriate track alignment, and an extension of the embedded track within the roadway areas, and assumed within the terminus platform areas. Track in the depot building would similarly be embedded. Options elsewhere include ballasted track or non-encased track on concrete slab. The turnouts are proposed as being ballasted track for initial cost and ease of maintenance.

> Figure 20: Nambour Heritage Tramway Alignment Source: Ranbury Pty Ltd, September 2014

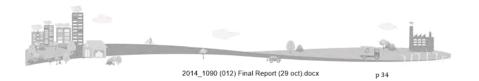


Typical photos of the route are included in Figure 21.

Figure 21: Along the Route of the proposed Nambour Tramway







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The run-around sidings are assumed as providing the length to run around a short 30 metre long train (eg up to 3 x 10 metre long carriages). This length can be extended if required, with the more obvious length constraints at the western terminus. The run-around siding at the eastern end is assumed as being within the depot compound, with the depot located close to the terminus station. This track would also serve the dual function of secure storage of the units when not in use. If the depot is located more remotely from the terminus station (for other reasons such as other redevelopment options for the balance of the marshalling yard site), then the run around siding would likely be required at the station, with extra track also required in the depot.

Track within the terminus areas and the depot should be level.

#### **Terminus Stations**

The terminus stations are proposed to be located as indicated in Figure 22 and Figure 23. Features include a defined low level platform on one side only for ease of access, an awning for weather protection, and seating. Public amenities have not been included, nor the provision of paved car parking at either end.

The western terminus is assumed to also include a staffed kiosk (one staff member), providing tourist information and sale of memorabilia. Basic staff amenities are included.

Figure 22: Western Terminus of the Proposed Nambour Tramway Source: Ranbury via Sunshine Coast Regional Council information, September 2014



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Figure 23: Eastern Terminus of the Proposed Nambour Tramway Source: Ranbury via Sunshine Coast Regional Council information, September 2014

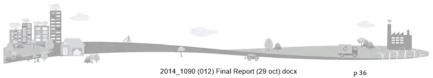


Intermediate Stops

Howard Street is width constrained in its current configuration to permit a permanent raised platform area and shelter for intermediate stops within the road pavement. A basic road pavement level stop with appropriate signage only is proposed, with basic bus-stop style footpath shelter where required. The typical street-scape in Howard Street is as shown in Figure 24.

> Figure 24: Typical Route down Howard Street Source: Ranbury Pty Ltd, September 2014





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#### Depot

The proposed depot layout is as indicated in Figure 23 above. This provides a secure compound with external track for storage of visiting vehicles (locomotives and carriages) and a secure workshop building to undertake maintenance and store the tram. The building includes a single track through the building (roller shutter doors), basic work-bench area, staff amenities and an office. The secure compound also provides for staff parking. The length of the building would depend on what requirement is to be provided for other than the tram.

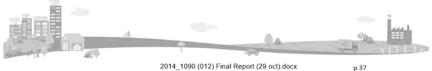
The depot would be equipped with a solar power unit, for either direct daylight recharging of batteries, requiring daily change-outs of batteries, or for feeding generated power into the grid and utilisation of overnight mains power for direct re-charging of the on-board battery. Power consumption is relatively low, with both suppliers indicating that a single daily re-charge should be achieved.

Day-day maintenance of the battery powered tram is relatively minor.

#### Route Construction Works

Key features associated with the route include:

- Western end access at Mill St/Mill Lane: The alignment required to locate the tramway clear of Mill Lane roadway is as indicated in Figure 22. This involves tightening of the previous track alignment on the corner, with excavation of the current stone pitched batter and its reinstatement, or construction of a retaining wall to preserve the corner to the heritage cottage. The track would terminate on the heritage cottage site and some works would be required to ensure the safe functioning and operation of the Tram. A decorative stone faced rock retaining wall has been assumed for this corner. The new alignment obviates the need to relocate the current light pole at the end of the current track.
- Signalised intersection of Currie Street: The original cane train operation included a track activation signalling system from an approaching cane train to ensure the safe passing of the train. Advice from DTMR has indicated that this system was owned, built and operated by Nambour Sugar Mill and it is likely that the system was decommissioned when the mill closed. DTMR has indicated that they would need to undertake further investigations to confirm, but that it is



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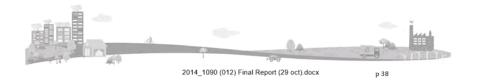
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likely that this system could not be reactivated due to the likelihood of current standards for control systems not being met. If the Tramway was to be activated, DTMR has indicated that the intersection would need to be re-designed and upgraded to current standards to include new lanterns and phases for displaying tram signals for both the approaching tram/driver/operation and the motor vehicle traffic. A proposed activation system (driver activated from the tram) is the default assumption, and an allowance of around \$80,000 has been assumed in the feasibility as per advice from DTMR. It is important to note that due to the age of the existing electrical circuits and other components at this intersection, DTMR will be rehabilitating the existing intersection in the 2014/15 financial year. The planned works have not included additional systems for the Tram, but are respectful of the heritage listed tram tracks and will not negatively impact on them. All works to be completed by DTMR will not prevent the introduction of the Tram if the decision to go ahead with the project is made.

Operations of the Tramway would be nominally based on a half hourly round trip, with a maximum speed of 10 – 15 kph. It is assumed that the Tramway would operate at least weekdays (5 days a week), with the option to operate on a Saturday morning too. Weekdays it is assumed that the service would operate from 8 am to 5 pm and if operating on weekends, the service is expected to run on a Saturday from 9 am to midday. Special charters for school excursions and special events could also occur either during the week and/or on a week night or weekend. Due to the assumed flexibility in staffing, operation costs associated with the Tramway are expected to be the same regardless of whether a 5 day a week or 6 day a week service is operating.



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#### 5 Financial feasibility

A core component of the study was to assess the likely financial feasibility associated with the operation of the Nambour Heritage Tramway.

The feasibility assessment included cost factors associated with the establishment / capital costs as well as the ongoing operation the track.

Broad construction costs associated with the following elements were determined by Ranbury:

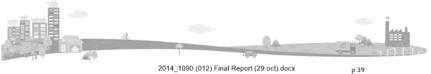
- Electric trams with solar capabilities;
- Solar equipment at the depot;
- Track reconstruction if required;
- Construction of depot;
- Construction of additional track where necessary; Construction of 2 or 3 stations and stops;
- Signals;
- Acquisition of land where necessary;
- Construction of the retaining wall required;
- Construction of a ticket office and information centre at the western ٠ end; and,
- Provision of maintenance and operating manuals for the tram, track, signals and other infrastructure.

Ranbury also provided estimates of ongoing costs such as maintenance/ repairs, licensing, traffic management, cleaning, power sources, insurance, staffing and depreciation. Detailed costs are provided in Appendix 5.

Revenue estimates were determined by C Change and are discussed further in Section 5.2.

Based on the cost and expected revenue information a discounted cash flow (DCF) feasibility assessment  $\!\!\!^4$  over a 30 year period was completed. The analysis also assessed the residual value of the assets after the 30 year period. However, given that most elements had an economic life of 30

<sup>4</sup> A DCF method assesses costs and revenues at the time they are expected to occur, that is, the DCF analyses the stream of costs or revenues. A 'discount rate' is then used to return the stream of costs or revenues to a single value (lermed the 'present value'). A discount rate can be the government bond rate (which would be the opportunity cost of government investing its money in the bank' rather than expend it on the Tramway). The theoretical justification for using discounted cash flow techniques is that individuals are generally reluctant to forego present consumption in favour of future gains. Therefore, costs or benefits earlier in a period. This is known as the 'time value of money';



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years or less, this cost was negligible. The analysis assessed the net present value (NPV) and the internal rate of return (IRR) of the project.

Scenarios Tested

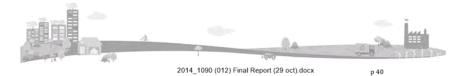
To inform Council of all possible costs associated with the operation of the Tramway, a number of scenarios were assessed. The first two scenarios assessed all operations from a stand alone commercial viewpoint. This assumed that all goods and services were purchased. It is noted, however, that Nambour Tramways Group has indicated that they have in-principle support for volunteering and inkind support from people with a range of skills. To ensure that all elements of the potential operation were assessed a further two scenarios were developed and assessed the financial feasibility assuming such volunteer and inkind services were forthcoming over an ongoing basis. The risks associated with relying on these outcomes are discussed in Section 7.

In total, four scenarios were assessed. Scenarios 1 assessed at all costs and likely revenues based on a 5 day operational period (weekdays), and Scenario 2 on a 6 day operational period. As these scenarios did not produce a financially feasible result, information associated with the level of revenue required to achieve cost recovery (either fully or on an ongoing operational level) was also produced. The multiples in revenue required to achieve operational cost recovery assumes that the capital cost element is treated as 'sunk' and not required to be recovered. This could only occur if ample funds for the capital component were forthcoming – either from the operating party, a third party or through grants.

As many of the Heritage style types of operations across Australia are based on volunteer and inkind services, an additional 2 scenarios were developed. Scenarios 3 and Scenario 4 replicated the first two scenarios but included assumptions associated with inkind works and volunteer staff as understood through discussions with the Nambour Tramways Group. As these scenarios did not reach a financially feasible result either, the multiples of revenue required to break even was also determined. As for Scenario's 1 and 2, these assessments solved for complete cost recovery as well as operational cost recovery (assuming the capital costs were 'sunk').

In summary, the scenarios included:

- Scenario 1: Base Case Scenario, which included a 5 day service with all elements indicated in Section 1.1;
- Scenario 2: Extended Operation Scenario, which included a 6 day service with all elements indicated in Section 1.1, plus allowance for special events and school tours.



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- Determination of Revenue Multiple Required for Scenario 1 & 2: Full Cost Recovery;
- Determination of Revenue Multiple Required for Scenario 1 & 2: Operational Cost Recovery (Assume Capital Costs sunk);
- Scenario 3: Base Case Scenario as per Scenario 1, with inkind works and volunteer time;
- Scenario 4: Extended Scenario as per Scenario 2, with inkind works and volunteer time;
  - Determination of Revenue Multiple Required for Scenario 3 & 4: Full Cost Recovery;
  - Determination of Revenue Multiple Required for Scenario 3 & 4: Operational Cost Recovery (Assume Capital Costs sunk).

Sensitivity testing was also performed on each of these Scenarios using 3 discount rates (7 per cent 10 per cent and 12 per cent), as well as creating scenarios that increased costs and decreased revenues.

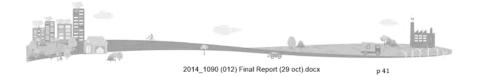
In total 24 assessments on the Nambour Tramway were completed. The results of these Scenarios are discussed in Section 5.3.

# 5.1 Expected Costs

# Capital Costs

Capital cost estimates were produced by Ranbury and based on a number of assumptions as shown below:

Route length	• 900 metres
Terminus stations	<ul> <li>Single side platform (15 metres long), awning weather cover, lighting, signage</li> <li>Mill Lane terminus include staffed ticket office/ memorabilia shop, with staff amenities</li> </ul>
Intermediate	<ul> <li>Assume off road pavement only. Need signage and</li></ul>
stops	pavement markings only
Depot	Includes workshop, office, crew amenities
Track	<ul> <li>Use part worn (2<sup>nd</sup> hand) rail and turnouts (31kg/m rail on</li></ul>
standard	new concrete ties)
Run-around	<ul> <li>At each end - Allow 30 metre length for 2 or 3 carriages</li></ul>
loops	only with 15 m dead end and buffer for loco release



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Insurances 

Insurances were absorbed within SCRC insurances.

Based on these assumptions, the annual operating costs associated with the Nambour Heritage Tramway are between \$147,000 per annum (if volunteering staff are considered – Scenario 3 and 4) and \$543,000 per annum where all staff members are required to be paid (Scenario 1 and 2) (refer Appendix 6). All staff costs include salary and on-costs. It is noted that Scenario 3 and 4 assume that the position of manager is full time, but at half pay, and that all other staff are voluntary. Scenarios 3 and 4 also assume half the budget for promotions is provided inkind. Justification for these assumptions is discussed in the next sub-section. Training costs have been included in accreditation costs.

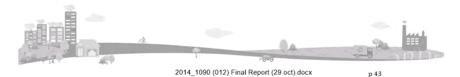
A break down of the ongoing costs is shown in Appendix 5.

Potential for Volunteer and Inkind Works

The Nambour Tramways Group indicated to the Consultant team that through their investigations into establishment of the Tramway, that many people had registered interested in becoming involved. Of the interest registered, between 40 and 50 community members had offered to volunteer their time and skills to ensure the operation could commence. Skills of people nominating an interest was vast and included (but not limited to) expertise in safety, general light rail operations, information and marketing services, engineering, public relations, building and construction, heritage areas, graphic design and landscape architecture.

The potential for volunteer workers was also tested by the community survey completed for this report. As noted earlier, outcomes of the survey indicated that 30 per cent of respondents would be happy to volunteer their time on an average of 13 hours per month. Information from the case studies completed has shown how vital volunteering is to operations such as this, and while some positions (such as tram drivers) may come from far and wide, often the volunteer base for other positions is quite local. The case studies also noted that at least one position should be paid for to ensure continuity of knowledge and operation practices. As noted in the Risk Assessment (refer Section 7), the reliance on volunteer workers to run the operation is a significant risk.

Taking into account the potential for volunteering, Scenarios 3 and 4 have assumed that the Manager's position would be a full time position but that it would be half paid / half volunteered. All other staff positions are assumed to be voluntary in Scenarios 3 and 4.



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Discussions with members from the Nambour Tramways Group also confirmed that labour costs associated with the construction of the Information Centre / Kiosk and the Depot would be provided in kind. As such, material costs only have been allocated for these elements.

Finally, a component of the civil works are assumed to be provided by inkind labour also. As such, Scenarios 3 and 4 allocate only 80 per cent of the capital civil works required.

Based on these assumptions, capital and operating costs in Scenarios 3 and 4 have been reduced by \$125,000 (total) and \$396,000 (per annum) respectively.

#### 5.2 Likely Demand and Revenues

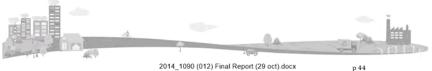
Revenue for the Tram has been assumed to include three elements: Ticketing associated with general usage;

- Merchandise sales at the Information Kiosk / Centre; and,
- School trips.

The ticketing associated with general usage is discussed below and is expected to generate around \$27,000 to \$29,000 in the first year. The assumptions associated with demand for tram trips are discussed in the next sub-section.

In addition to ticketing revenue, it has been assumed that the Rolling Stock Operator would also operate the Information Kiosk and sell merchandise. Information provided by the Nambour Museum indicate that around 260 people visit the museum and in lieu of any other official estimates, this is the base level of visitation assumed for Nambour currently. If it was assumed that the level of visitation to Nambour increased by 50 per cent due to the operation of the tram, then visitors to Nambour would total around 390 people. Assuming that 10 per cent of these spent around \$20 on merchandising, plus adding in a component of residents' spending on merchandising, an additional \$12,000 per annum is expected to be generated.

Finally, it is noted that there are some 200 schools in the Region that could also utilise the Tram as a school excursion. If it is assumed that each school has 4 classes that would be interested in using the Tram as an excursion, and 50 per cent of the schools participated in an excursion then around 400 trips on the Tram per year could be dedicated to schools. If it is assumed



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that the profit of the trip was \$3 per student (i.e. the excursion might be \$5 and the operators might include refreshments at the end) and there were 15 students in each group, then revenue from this source could total around \$18,000 per annum.

The overall revenue associated with the operation of the Tramway would be in the order of \$57,000 to \$58,000 per annum. All revenues are assumed to increase by 0.5 per cent per annum after the first year.

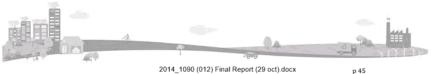
# Demand - Tram Trips

The Consultants were provided with patronage estimates that had been prepared by the Tramways group. The Tramways group assumed that 54 full fare and 60 concession fares would be purchased per week day over a 8am to 5pm operational period. An additional 50 children were expected to patronise the tram as well but would ride for free. In total, therefore, the Tramways group expect that around 164 trips per day would be made.

Outcomes of the community survey conducted for this study indicated that around 27 per cent of people in Nambour would use the tram approximately 8 times a month (or twice a week). If it was assumed that the number of workers in Nambour totalled some 2000 people, and the number of visitors was the average of those currently visiting the Nambour Museum, plus an additional 50 per cent to account for increased visitation (see the Cost Benefit Analysis section for further discussion), then the total demand in a year would total approximately 240 trips per week day.

The likely demand for the Tram for the financial feasibility analysis has therefore averaged these two outcomes and arrived at a patronage of 200 trips per day. The Tramway Group's expected breakdown of full fare, concession and child were utilised to determine the expected revenue. For the scenarios that included a 6 day a week operational period, patronage on the Saturday was assumed to be 60 trips.

It is noted that the case study outcomes indicated that patronage on their systems were very much determined by the quality of the experience on the trams/trains, plus the destinations and interim stops. As the route for the Nambour Heritage Tramway is limited to 1 kilometre and the destinations are supermarkets, attracting the patronage as determined here may be questionable. This is discussed in Section 7 Risk Assessment.



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# 5.3 Financial feasibility outcomes

Utilising all the preceding information a 30 year discounted cash flow analysis was conducted on the various scenarios. A summary of the results are shown below and discussed overleaf.

Table 1: Summary of the Financial Feasibility Assessments

	Present Val	lue (\$,000), Di	scount Rate		Testing, Discou	
Financial Feasibility	7%	10%	12%	Increase Costs 10%, Decreased Revenue 10%	0 increase in costs, Decreased Revenue 10%	0 increase in costs, Revenue Increase 10%
Scenario 1: 5 Day a Week Service						
Costs	\$10,330	\$8,720	\$7,980	\$11,360	\$10,330	\$10,330
Revenues	\$760	\$590	\$510	\$690	\$690	\$830
Net Present Value (Subsidy Required)	(\$9,570)	(\$8,130)	(\$7,460)	(\$10,670)	(\$9,640)	(\$9,500)
Ongoing Annual Subsidy (Capital Sunk)	(\$494)	(\$494)	(\$494)	(\$554)	(\$499)	(\$488)
Multiple required in Revenue to Break Even (overall costs)	13.6	14.8	15.5	16.5	15.0	12.4
Multiple required in Revenue to Break Even (operational costs only)		9.6		11.4	10.6	8.8
Scenario 2: 6 Day a Week Service						
Costs	\$10,330	\$8,720	\$7,980	\$11,360	\$10,330	\$10,330
Revenues	\$780	\$610	\$530	\$710	\$710	\$860
Net Present Value (Subsidy Required)	(\$9,550)	(\$8,120)	(\$7,450)	(\$10,660)	(\$9,620)	(\$9,470)
Ongoing Annual Subsidy (Capital Sunk)	(\$493)	(\$493)	(\$493)	(\$553)	(\$498)	(\$487)
Multiple required in Revenue to Break Even (overall costs)	13.3	14.4	15.1	16.0	14.5	12.0
Multiple required in Revenue to Break Even (operational costs only)		9.4		11.4	10.3	8.5
Scenario 3: 5 Day a Week Service, Volunteer	Staff and In-K	ind builders				
Costs	\$4,950	\$4,490	\$4,280	\$5,450	\$4,950	\$4,950
Revenues	\$760	\$590	\$510	\$690	\$690	\$830
Net Present Value (Subsidy Required)	(\$4,190)	(\$3,900)	(\$3,770)	(\$4,760)	(\$4,260)	(\$4,120)
Ongoing Annual Subsidy (Capital Sunk)	(\$98)	(\$98)	(598)	(\$119)	(\$103)	(\$92)
Multiple required in Revenue to Break Even (overall costs)	6.5	7.6	8.3	7.9	7.2	6.0
Multiple required in Revenue to Break Even (operational costs only)		2.7		3.2	3.0	2.5
Scenario 4: 6 Day a Week Service, Volunteer	Staff and In-K	ind builders				
Costs	\$4,950	\$4,490	\$4,280	\$5,450	\$4,950	\$4,950
Revenues	\$780	\$610	\$530	\$710	\$710	\$860
Net Present Value (Subsidy Required)	(\$4,170)	(\$3,890)	(\$3,760)	(\$4,740)	(\$4,240)	(\$4,090)
Ongoing Annual Subsidy (Capital Sunk)	(\$97)	(\$97)	(\$97)	(\$117)	(\$102)	(\$91)
Multiple required in Revenue to Break Even (overall costs)	6.4	7.4	8.1	7.7	7.0	5.8
Multiple required in Revenue to Break Even (operational costs only)		2.6		3.2	2.9	2.4
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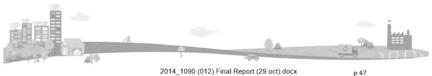
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As can be seen in the above table none of the Scenarios assessed return a positive Net Present Value (NPV), and therefore Internal Rate of Return cannot be calculated. Based on the Scenarios where all costs are paid for (i.e. no inkind or volunteer services - Scenarios 1 and 2), the NPV at a 7 per cent discount rate is a deficit of around \$9.6 million dollars over 30 years (refer Table 1). This would be the required subsidy from Council to commercially operate the project and cover all costs.

The majority of the costs associated with this large deficit are in the operating costs, which are a present value of around \$7.2 million dollars over the 30 year assessment period under a 7 per cent discount rate (refer Appendix 6). Expected revenue for the operation in all scenarios is a present value of around \$760,000 to \$780,000 (at 7 per cent discount rate) over the 30 year period (refer Table 1). If the project was to move forward with no volunteer or inkind services then at least 13 times the revenue would be required to be achieved for the Tramway to break even (refer Table 1).

If capital costs were treated as sunk, the annual operating cost under Scenario 1 and 2 would be in the order of \$543,000 each year (refer Appendix 6). Netting out the expected revenues indicates that an ongoing subsidy of around \$493,000 - \$494,000 would be required (refer Table 1). Thus, under Scenarios 1 and 2, even if capital costs could be covered through grants or donations, revenue would need to increase nearly tenfold for the operation to be able to cover all costs (refer Table 1).

As noted earlier, the Nambour Tramways Group expects that much of the effort associated with establishment and ongoing operation of the Tramway would be provided inkind or through volunteer time. Analysis of the community survey verified that there is a level of interest in volunteering and as such Scenarios 3 and 4 take into account this potential. However, even under these scenarios significant subsidies would be required to establish and operate the service on an ongoing basis. As can be seen in the above table, although the overall costs associated with the Tramway in Scenarios 3 and 4 are less than half of those indicated in Scenarios 1 and 2. there are still substantial subsidies required to operate the Tramway. The NPVs for Scenarios 3 and 4 indicate a deficit of around \$4.2 million (present value 7 per cent). If capital costs could be covered by grants or donations, there would still be an annual subsidy required in the order of about \$97,000 to \$98,000 per year. Revenue would need to increase by 2.6 times in order for no subsidy to be required (refer Table 1).



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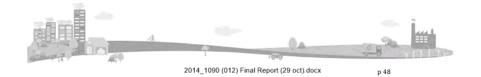
To determine the robustness of the outcomes, sensitivity testing was completed on the 4 scenarios as follows:

- Sensitivity 1: 10 per cent increase in costs, 10 per cent increase in revenues
- Sensitivity 2: no increase in costs, 10 per cent increase in revenues
  Sensitivity 3: no increase in costs, 10 per cent reduction in revenues.
- As can be seen in Table 1, even in situations where revenue is assumed to

increased by 10 per cent substantial subsidies would be required (of the order of \$4.1 million to 9.5 million under a full cost recovery basis, or if capital costs were treated as sunk, operational subsidies would be required from Council in the order of between \$91,000 and \$488,000 per annum).

Sensitivity analyses were completed through the application of a 10 per cent and 12 per cent discount rate. The results of these assessments are also shown in Table 1 and as can be seen, although subsidies required decrease marginally on a full cost recovery basis, the need for 'top up' funds are still substantial.

The output associated with all the scenarios tested are provided in full in Appendix 6.



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6 Economic and Social Impact Assessments

As well as a financial feasibility assessment, a Rapid Cost Benefit Analysis (CBA), a broad economic impact assessment (EIA) and a broad social impact assessment (SIA) were completed. The addition of these elements were considered important to consider the overall benefit of the establishment of the Nambour Heritage Tramway.

To determine the overall costs and benefits an evaluation framework was prepared. The evaluation framework outlines all expected impacts by recipient type, and notes whether the impact is tangible or intangible. Whether the impact can be considered under a CBA, EIA or SIA is also noted. To omit repetition, where intangible elements could be considered under the CBA and an SIA, these are reported in the SIA only.

Recipient Type	Tangible/ Intangible	CBA	Social	Economic Impact	Area of Impact
Community					
Defining the identity of Nambour	Intangible	×	×		Community Identity &
					Cohesion, Existence Val
Better access to goods and services	Intangible	×	×		Access and Mobility
More recreational opportunities /	Intangible	×	×	<u> </u>	Community Participati
activities					
Opportunities for youth activities	Intangible	×	×		Community Participati
Opportunities for rail/tram enthusiasts	Intangible	×	x	<u> </u>	Community Participat
and others					
Potential for jobs due to increased	Intangible		×	×	Education / Training 8
activities					
Skills increases	Intangible	×	×		Education / Training 8
Parking impacts	Intangible	×	×		Access and Mobility
Safety in mode of transport / Potential accidents	Intangible	×	×		Crime and Public Safe
Retailers/Shopkeepers	<u> </u>	<u> </u>		<u> </u>	
More tourists to Nambour and	Tangible	×	×		Tourism Benefits
Sunshine Coast generally					
Increased expenditure from workers	Tangible	×	×		General Economy Ber
and visitors					
Catalyst for further redevelopment	Intangible	×	×		Community Identity 8
opportunities & other activities and		1		1	Cohesion, Better Serv
businesses					Infrastructure
Council and Emergency Services					
Enhanced level of pride in the centre, less crime/graffiti	Tangible	×	×		Crime and Public Safe
Potential to have to 'take over'	Intangible		×		Legacy implications
operations if community cannot					
successfully operate					
Environment					
Reduced car emissions	Negligle	×	×		Environmental Benefi
Solar power operations	Negligle	×	×		Environmental Benefit
General Economy	<u> </u>				
Value Added to the Economy -	Tangible			×	General Economy Be
construction & operation					
Further jobs	Tangible			×	General Economy Be
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Table 2: Evaluation Framework for the Economic and Social Assessments

Source: C Change Sustainable Solutions, September 2014

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#### 6.1 Cost Benefit Analysis

As noted above, a broad Rapid Cost Benefit Analysis (CBA) was completed to assess the overall 'value for money' or otherwise of the establishment of the Nambour Heritage Tramway

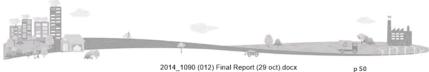
CBA is a tool used by decision makers to assist in determining how benefits to a community can be maximised given scarce resources. It can be one of the clearest ways to demonstrate the overall 'benefit' (or otherwise) of implementing a program.

CBA compares the outcomes of implementing a project (in this case the Nambour Heritage Tramway) with the outcomes that are likely to occur should the project not go ahead (termed a 'do minimal' or 'do nothing' option). By comparing the 'do nothing' with the 'policy' option, marginal (or additional) costs and benefits result and the overall outcome (if a positive result occurs) shows 'how much' society is likely to benefit from the implementation of a program.

The technique quantifies as many costs and benefits as possible in each of the options in monetary terms. By doing so, the 'value for money' can be clearly shown. It is important to note that costs and benefits are valued in terms of the impacts they make to the community at large, rather than the costs or benefits to any particular entity, and costs or benefits that are simply transferred from one part of society to another are not included (these are termed 'transfer' costs/benefits).

Given the difficulty of monetising some elements of tourism/heritage projects, CBA uses a variety of concepts to assist with ensuring that the marginal benefits and costs can be determined. These are important to understand and include the following:

- Opportunity Cost Costs and benefits are priced at their value in their best alternative use, which may be above or below the actual cost of the item;
- Willingness to Pay If opportunity costs cannot be determined, costs and benefits are valued at what the last consumer in a competitive market is willing to pay for them;
- Assessing costs and benefits over a reasonable timeframe To ensure all costs and benefits are adequately accounted for, a time period needs



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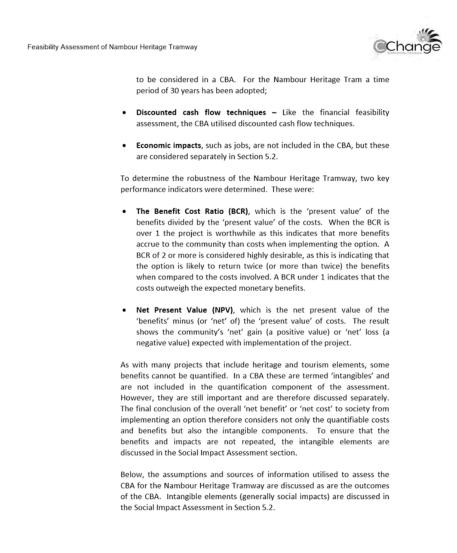
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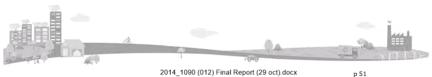
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# Quantifying Benefits and Costs

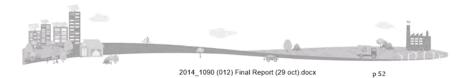
The potential costs and benefits of establishing the Nambour Tramway are discussed below:

#### Costs

- The establishment / capital cost of the operation: The establishment / capital costs of the operation noted in Section 4.1 in the financial feasibility was utilised for the CBA.
- The ongoing costs: Section 4.1 also noted the ongoing costs associated with the operation. These were utilised in the CBA.
- Total costs: Adding the capital costs and ongoing costs together over the 30 year period at a discount rate of 7 per cent, the present value of costs would total either \$10.3 million (if all costs were paid for), and around \$4.9 million if inkind works were provided.

# Benefits

- Revenue from the tram: As the tramway is likely to induce travel, rather than produce a mode-shift away from car based travel, the revenue associated with operation of the tram has been included as a marginal benefit for the Nambour community. Expected revenues from the scenarios developed for the financial feasibility have been utilised (refer Section 4.2).
- Increased expenditure from merchandising: As noted previously, it is expected that the Information Centre will have a range of merchandise for sale. The CBA has assumed that 10 per cent of visitors to the information centre and 10 per cent of resident travellers using the Tramway would spend around \$20 on merchandising.
- Expenditure from school trips: Again, as noted previously, it is expected that benefits would be accumulated from school trips using the Tramway. It is not clear whether these school trips would be additional trips (and therefore constitute a marginal benefit) or whether schools would simply forego an alterative excursion in order to use the Tramway. If the latter occurred, the revenue generated would not be considered 'marginal' and therefore would not be included in the analysis. The analysis has assumed that the school trips would be constitute a marginal benefit and therefore have been included in the CBA.



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In addition to the revenue expected from the tramway (as utilised in the financial feasibility assessments), other broader benefits are expected from the operation of the Tramway. These include:

- Induced spending from existing visitors: Based on the community survey outcomes, it was assumed that workers and visitors who regularly visited Nambour and used the Tram would on average spend an additional \$18 per week in the centre. This figure was applied to the expected number of users of the Tram and annualised;
- Increased tourism / visitor expenditure: As noted previously, the
  museum in Nambour indicated that on average 260 people per month
  visit the facility<sup>5</sup>. Outcomes of the community survey completed by the
  Consultants indicate that these visitors generally come from the 4560
  postcode. As the level of increased tourism / visitors due to the
  presence of the operating Tram is unknown, it was optimistically
  assumed that visitation to Nambour would increase by 50 per cent with
  the introduction of the tramway. The additional expenditure in
  Nambour was calculated on these additional visits, and was assumed to
  be \$30 per person.
- Increased tourism around the Sunshine Coast by Nambour visitors: Given the recommendations emanating from the case studies, it is expected that the Information Centre / Kiosk built in line with the operation of the Tram would also promote other tourist attractions across the Sunshine Coast. A component of these trips have assumed to be 'new' trips, and not just trips that would have occurred without the information presented at the Kiosk in Nambour. As many of the tourist attractions in the vicinity of Nambour have no entry fee, a travel cost method has been used to determine the marginal benefit associated with this element. This is a method whereby the value of the attraction to the person attending is assumed to be at least as valuable as the travel time cost (and out of pocket expenses) of getting there. If this was not the case, the trip would not rationally occur. To determine the benefit to assign the following was assumed:
- Of those people visiting the Information Centre (assumed to be current and likely increase in visitors), 20 per cent are also likely to attend additional attractions across the Sunshine Coast.
- Visitors to Nambour are likely to be mainly local, with a small proportion from SEQ or further afield.
- The average two way distance from Nambour to other attractions would be about 60km.

<sup>5</sup> It is noted that visitor numbers from official tourism data for the Sunshine Coast does not focus on small areas such as Nambour.

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Feasibility Assessment of Nambour Heritage Tramway



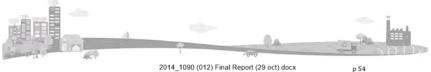
- $\circ$   $\,$  1.25 people were estimated to be in each car, based on information available from the Australian Transport Council (2006) guideline
- The cost of leisure travel time for each visitor was assumed at \$12 0 per hour based on the Australian Transport Council (2006) guidelines, with values indexed to reflect present day values.
- 0 The vehicle operating cost per km travelled was estimated at \$0.25 based on the Australian Transport Council (2006) guidelines, with values indexed to reflect present day values.
- Increased expenditure from events: The operation of the Tramway also provides the potential for other events/activities. The community survey tested the popularity of the concept of a restaurant tramway and over 75 per cent of people indicated that if the restaurant was good quality and good value for money they would use it. For the analysis, it has been assumed that 75 per cent of people from the Nambour -Burnside district would therefore visit at least one 'event' per year. In line with the outcomes of the survey it was assumed that the expenditure associated with the 'event' would be in the vicinity of \$20 per event.
- Existence Value of the Tramway: Often people ascribe a value to an attraction even if they are not likely to use it. This can be described as an attraction having an existence value. The outcomes of the community survey indicated that all but one person of those in support of the Tramway would use the Tram. Therefore the existence value has not been included, as people who support the Tram are paying for its usage and existence already.

### Outcomes of Cost Benefit Analysis

The outcomes of the Cost Benefit Analysis is shown below in Table 3.

Scenarios 1 and 2 (i.e. those scenarios where full costs are paid and there are no inkind or volunteer services) do not return a positive Net Present Value (NPV) or a Benefit Cost Ratio (BCR) over 1. The BCRs for these scenarios are 0.6 at all discount rates of 7 per cent, 10 per cent and 12 per cent, and NPVs are between a negative \$3.4 million and \$3.7 million. Thus under a commercially run operation, the costs associated with the project would exceed the broader benefits likely to be achieved.

However, Scenarios 3 and 4 (which includes inkind and volunteer services) do return positive NPVs and BCRs at all discount rates tested, albeit marginally for a 12 per cent discount rate. The NPV ranges from \$240,000 (12 per cent discount rate) over the 30 years to \$1.7 million (7 per cent



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discount rate). BCRs for these assessments are between 1.1 and 1.3, indicating that there are between 10 per cent and 30 per cent more benefits accruing to the Nambour community than costs for the operation.

#### Table 3: Summary of Cost Benefit Analyses

Source: C Change Sustainable Solutions with Costings from Ranbury, September 2014

	Present Val	ue (\$,000), Di	count Rate	Ser	nsitivity Testing,	Discount Rate	7%
Cost Benefit Assessment	7%	10%	12%	Increase in costs 10%, Decreased Benefits 25%	Increase Costs 10%, Decreased Benefits 10%	0 increase in costs, Decreased Benefits 10%	0 increase in costs, Benefit Increase 10%
Scenario 1: 5 Day a Week Service							
Costs	\$10,330	\$8,720	\$7,980	\$11,360	\$11,360	\$10,330	\$10,330
Benefits	\$6,660	\$5,200	\$4,520	\$4,995	\$6,060	\$6,060	\$7,330
Net Present Value	(\$3,670)	(\$3,520)	(\$3,460)	(\$6,365)	(\$5,300)	(\$4,270)	(\$3,000)
Benefit Cost Ratio	0.6	0.6	0.6	0.4	0.5	0.6	0.7
Scenario 2: 6 Day a Week Service							
Costs	\$10,330	\$8,720	\$7,980	\$11,360	\$11,360	\$10,330	\$10,330
Benefits	\$6,680	\$5,220	\$4,540	\$5,010	\$6,080	\$6,080	\$7,350
Net Present Value	(\$3,650)	(\$3,500)	(\$3,440)	(\$6,350)	(\$5,280)	(\$4,250)	(\$2,980)
Benefit Cost Ratio	0.6	0.6	0.6	0.4	0.5	0.6	0.7
Scenario 3: 5 Day a Week Service, Volunteer	Staff and In-K	ind builders					
Costs	\$4,950	\$4,490	\$4,280	\$5,450	\$5,450	\$4,950	\$4,950
Benefits	\$6,660	\$5,200	\$4,520	\$4,995	\$6,060	\$6,060	\$7,330
Net Present Value	\$1,710	\$710	\$240	(\$455)	\$610	\$1,110	\$2,380
Benefit Cost Ratio	1.3	1.2	1.1	0.9	1.1	1.2	1.5
Scenario 4: 6 Day a Week Service, Volunteer	Staff and In-K	ind builders					
Costs	\$4,950	\$4,490	\$4,280	\$5,450	\$5,450	\$4,950	\$4,950
Benefits	\$6,680	\$5,220	\$4,540	\$5,010	\$6,080	\$6,080	\$7,350
Net Present Value	\$1,730	\$730	\$260	(\$440)	\$630	\$1,130	\$2,400
Benefit Cost Ratio	1.3	1.2	1.1	0.9	1.1	1.2	1.5

Costs associated with all scenarios have been assumed to be the same as those assessed for the Financial Feasibility. For Scenario 3 and 4, these total some \$5.0 million (present value) at a discount rate of 7 per cent over the 30 year period. Benefits expected in Scenarios 3 and 4 are around \$6.7 million (present value) at a 7 per cent discount rate, but could decrease to around \$4.5 million if discount rates were to increase to 12 per cent.

Recall that the benefits included in the analysis covered: Revenue from tram ticketing;



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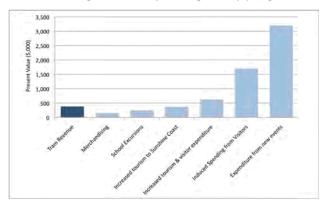
Feasibility Assessment of Nambour Heritage Tramway

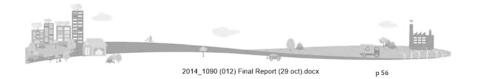
- Merchandising;
- School excursions;Induced spending in Nambour from visitors and workers;
- Increased tourism & visitor expenditure
- Increased tourism to Sunshine Coast; and
- Expenditure from new events.

As shown in Figure 25 below, the majority of the benefits are expected to come from induced spending from Visitors and Workers in the Nambour centre (26 per cent of all benefits); and expenditure from new events (48 per cent of all benefits). Therefore, if the assumptions associated with these elements do not hold true, the BCR would struggle to stay above 1.

Sensitivity testing was conducted on the CBA analyses in line with those tests completed for the Financial Feasibility. Given the reliance on benefits in the CBA, another scenario where costs were increased by 10 per cent and benefits decreased by 25 per cent was tested. In this scenario the BCR would be 0.9, which indicates that the costs of the operation are marginally higher than the broader benefits likely to be achieved.







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#### 6.2 Economic Impact Assessment

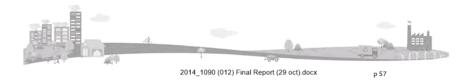
The likely economic impacts associated with the construction and operation of the Nambour Heritage Tramway was completed by the Economic Development Section in Council using their in-house economic impact model. The model used the assumptions associated with the costs generated by the Consultant team (rounded to the nearest million) and assumed that the direct jobs for the Tramway operation were classified in the rail transport sector. Economic Development has noted that noting the impacts using the rail transport sector may overstate the impacts to a degree.

A summary of impacts associated with Value Added to the economy and employment outcomes is shown below, and the following text discusses this as well as impact on Output and Wages and Salaries. The text was provided directly from the Economic Development Section of the Sunshine Coast Regional Council. It is noted that should volunteer and inkind services be provided, the overall impacts (particularly the direct impacts and impacts on wages and salaries) will be minimal.

#### Table 4: Economic Impact Assessment Summary - Value Added to GRP and **Employment Outcomes**

Source: Sunshine Coast Regional Council, September 2014

Value Added (\$,000)	Employment Outcomes
Impacts associate	ed with \$3m construction
\$2.75	27
\$1.00	8
\$3.75	35
Impacts associated with 4 F	TE jobs in the Rail Transport Sector
\$1.44	11
\$0.52	5
\$1.96	16
	Impacts associate \$2.75 \$1.00 \$3.75 Impacts associated with 4 \$1.44 \$0.52



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# **Construction Phase**

#### Impact on Output

The direct addition of \$3 million annual output in the Construction sector of Sunshine Coast economy would lead to an increase in indirect demand for intermediate goods and services across related industry sectors. These indirect industrial impacts (Type 1) are estimated to be an additional \$3.60m in Output, representing a Type 1 Output multiplier of 2.20.

There would be an additional contribution to Sunshine Coast economy through consumption effects as correspondingly more wages and salaries are spent in the local economy. It is estimated that this would result in a further increase in Output of \$0.96 million.

The combination of all direct, industrial and consumption effects would result in total estimated rise in Output of \$7.56m in Sunshine Coast economy, representing a Type 2 Output multiplier of 2.52.

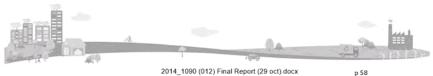
These impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy to the tune of \$2.06 million in Output.

The combined effect of economic multipliers in Sunshine Coast and the wider Australian economy is estimated to be \$9.62 million added to Australia's Output.

#### Impact on Local Employment (jobs)

The direct addition of \$3 million annual output in the Construction sector of the Sunshine Coast economy is estimated to lead to a corresponding direct addition of 8 jobs in the local Construction sector. From this direct expansion in the economy it is anticipated that there would be flow on effects into other related intermediate industries, creating an additional 14 jobs. This represents a Type 1 Employment multiplier of 2.68.

This addition of jobs in the local economy would lead to a corresponding increase in wages and salaries, a proportion of which would be spent on local goods and services, creating a further 5 jobs through consumption impacts.



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The combination of all direct, industrial and consumption effects would result in a total estimated increase of 27 jobs located in Sunshine Coast. This represents a Type 2 Employment multiplier of 3.33.

Employment impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy creating a further 8 jobs.

The combined effect of economic multipliers in Sunshine Coast and the wider Australian economy is estimated to be an addition of 35 jobs.

#### Impact on Wages and Salaries Income

The direct addition of \$3 million annual output in the Construction sector of Sunshine Coast economy is estimated to lead to a corresponding direct increase in income from Wages and Salaries of \$0.56 million within the local Construction sector. A further \$0.91 million in Wages and Salaries would be generated from the employment created in related intermediate industries. This represents a Type 1 Income multiplier of 2.63.

As these Wages and Salaries flow through the economy, it will increase local consumption, creating more jobs and adding an estimated \$0.27 million in Wages and Salaries in consumption industries such as the retail sector.

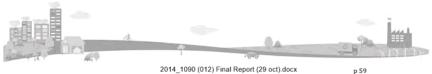
The combination of all direct, industrial and consumption effects would result in a total estimated increase in income through Wages and Salaries of \$1.73 million in Sunshine Coast. This represents a Type 2 Income multiplier of 3.12.

These income impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy creating a further \$0.50 million in Wages and Salaries.

The combined effect of economic multipliers in Sunshine Coast and the wider Australian economy is estimated to be an addition of \$2.23 million in Wages and Salaries.

# Impact on Value-added

The direct addition of \$3 million annual output in the Construction sector of Sunshine Coast economy would lead to a corresponding direct increase in Value-added of \$0.85 million. A further \$1.42 million in Value-added would be generated from related intermediate industries. These indirect industrial impacts represent a Type 1 Value-added multiplier of 2.67.



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There would be an additional contribution to Sunshine Coast economy through consumption effects as correspondingly more wages and salaries are spent in the local economy. It is estimated that this would result in a further increase in Value-added of \$0.48 million.

The combination of all direct, industrial and consumption effects would result in an estimated addition in Value-added of \$2.75 million in Sunshine Coast economy, representing a Type 2 Value-added multiplier of 3.23.

These impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy to the tune of \$1.00 million in Value-added.

The combined effect of economic multipliers in Sunshine Coast and the wider Australian economy is estimated to be \$3.75 million added to Australia's Value-added.

#### Impact on GRP

Value-added by industry represents the industry component of Gross Regional Product (GRP). The impact on Sunshine Coast's GRP as a result of this change to the economy is directly equivalent to the change in Valueadded outlined in the section above

In summary, GRP in Sunshine Coast is estimated to increase by \$2.75 million.

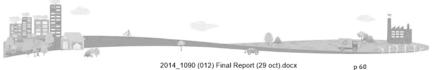
The effect on the Australian economy (including Sunshine Coast) is estimated to be a growth in Gross Domestic Product (GDP) of \$3.75 million.

**Operational Phase** 

#### Impact on Output

The direct addition of 4 jobs in the Rail Transport sector of Sunshine Coast economy is estimated to lead to a corresponding direct addition of \$1.41 million in Output from the local Rail Transport sector. From this direct expansion in the economy it is anticipated that there would be a flow on effects into other related intermediate industries, creating a further increase of \$1.15 million in Output. This represents a Type 1 employment multiplier of 1.82.

There would be an additional contribution to Sunshine Coast economy through consumption effects as correspondingly more wages and salaries



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are spent in the local economy. It is estimated that this would result in a further increase in Output of \$0.47 million

The combination of all direct, industrial and consumption effects would result in total estimated rise in Output of \$3.04 million in Sunshine Coast economy, representing a Type 2 Output multiplier of 2.15.

These impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy to the tune of \$1.18 million in Output.

The combined effect of economic multipliers in Sunshine Coast and the wider Australian economy is estimated to be \$4.22 million added to Australia's Output.

#### Impact on Local Employment (jobs)

The direct addition of 4 jobs in the Rail Transport sector of the Sunshine Coast economy would lead to a further increase in indirect demand for intermediate good and services across related industry sectors. These indirect industrial impacts (Type 1) are estimated to result in an additional 5 jobs, representing Type 1 Employment multiplier of 2.14.

This addition of jobs in the local economy would lead to a corresponding increase in wages and salaries, a proportion of which would be spent on local goods and services, creating a further 3 jobs through consumption impacts.

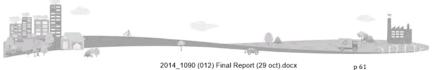
The combination of all direct, industrial and consumption effects would result in a total estimated increase of 11 jobs located in Sunshine Coast. This represents a Type 2 Employment multiplier of 2.80.

Employment impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy creating a further 4 jobs.

The combined effect of economic multipliers in Sunshine Coast and the wider Australian economy is estimated to be an addition of 16 jobs.

#### Impact on Wages and Salaries Income

The direct addition of 4 jobs in the Rail Transport sector of Sunshine Coast economy is estimated to lead to a corresponding direct increase in income from Wages and Salaries of \$0.42 million within the local Rail Transport sector. A further \$0.30 million in Wages and Salaries would be generated



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from the employment created in related intermediate industries. This represents a Type 1 Income multiplier of 1.72.

As these Wages and Salaries flow through the economy, it will increase local consumption, creating more jobs and adding an estimated \$0.13 million in Wages and Salaries in consumption industries such as the retail sector.

The combination of all direct, industrial and consumption effects would result in a total estimated increase in income through Wages and Salaries of \$0.85 million in Sunshine Coast. This represents a Type 2 Income multiplier of 2.03.

These income impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy creating a further \$0.26 million in Wages and Salaries.

The combined effect of economic multipliers in Sunshine Coast and the wider Australian economy is estimated to be an addition of \$1.11 million in Wages and Salaries.

#### Impact on Value-added

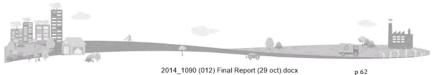
The direct addition of 4 jobs in the Rail Transport sector of Sunshine Coast economy would lead to a corresponding direct increase in Value-added of \$0.75 million. A further \$0.46 million in Value-added would be generated from related intermediate industries. These indirect industrial impacts represent a Type 1 Value-added multiplier of 1.61.

There would be an additional contribution to Sunshine Coast economy through consumption effects as correspondingly more wages and salaries are spent in the local economy. It is estimated that this would result in a further increase in Value-added of \$0.24 million.

The combination of all direct, industrial and consumption effects would result in an estimated addition in Value-added of \$1.44 million in Sunshine Coast economy, representing a Type 2 Value-added multiplier of 1.92.

These impacts would not be limited to the local economy. Industrial and consumption effects would flow outside the region to the wider Australian economy to the tune of \$0.52 million in Value-added.

The combined effect of economic multipliers in Sunshine Coast and the wider Australian economy is estimated to be \$1.97 million added to Australia's Value-added.



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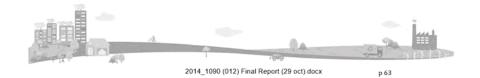
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# Impact on GRP

Value-added by industry represents the industry component of Gross Regional Product (GRP). The impact on Sunshine Coast's GRP as a result of this change to the economy is directly equivalent to the change in Valueadded outlined in the section above.

In summary, GRP in Sunshine Coast is estimated to increase by \$1.44 million.

The effect on the Australian economy (including Sunshine Coast) is estimated to be a growth in Gross Domestic Product (GDP) of \$1.97 million.



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# 6.3 Social Impact Assessment

The social impacts likely to be generated by the construction and operation of the Nambour Heritage Tramway are considered below. Potential positive and negative impacts are noted, as are potential opportunities associated with the establishment of the Tramway.

Impacts are discussed with reference to:

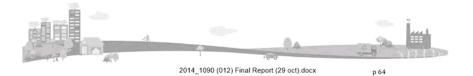
- Access and Mobility, including parking;
- Community Identity & Cohesion, Better Services & Infrastructure;
- Community Participation;
- Crime and Public Safety;
- Education / Training & Jobs;
- Environmental Benefits;
- General Economy Benefits;
- Tourism Benefits; and,
- Legacy implications.

A summary of the social impacts is presented below, and a full description associated with this is discussed thereafter.

# Table 5: Summary of Social Impact Assessments

Source: C Change Sustainable Solutions, September 2014

Area of Impact	Potential Positive	Potential Negative	Opportunities
	Impact	Impact	
Access and Mobility, Services and			
Infrastructure	~~	*	~~~
Parking Impacts			
	✓	×	
Community Identity & Cohesion			
	~~	×	~~~
Community Participation			
	~~	×	~~~
Crime and Public Safety			
	11	×	
Education / Training & Jobs			
	11		
Environmental Benefits			
	✓	*	
General Economy Benefits			
	✓	×	
Tourism Benefits			
	11	*	~~~
Legacy implications			
	✓	×	



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Access and Mobility, Services and Infrastructure

Potential Positive Impact	Potential Negative Impact	Opportunities
<ul> <li>The distance between Coles and Aldi is around 1km and consultation with the stakeholders indicated that the walk can be quite hot, particularly in summer. The operation of the Nambour Heritage Tramway would provide better access to goods and services, particularly to older people who are less resilient to the heat. Results from the community survey support the establishment of the tram, with 85 per cent of people surveyed indicating that they would use the tram (refer Figure 15).</li> <li>The existence of the Tramway could alleviate perceived parking issues in Nambour as people could park at Coles or Aldi and access other parts of the centre using the Tram. However, discussions with Coles and Aldi would need to be held to ensure that shared parking arrangements were acceptable.</li> <li>The development of the Tramway could become a catalyst for further development. This may bring more services to the Nambour Centre.</li> </ul>	<ul> <li>The route is very short and unlike the 'critical success factors' noted throughout the case studies, the destination and intermediate stops are not areas of 'special / historical' significance. Some stakeholders and community members noted that the 'tram doesn't go anywhere interesting' or 'it is not long' and therefore they noted they would not use it.</li> <li>Coles and Aldi may not be satisfied with tram patrons using their carparks. Coles was unable to provide an indication of whether they would be happy to have shared parking. Further discussions would be required.</li> </ul>	<ul> <li>There are opportunities in the future to redevelop the Tramway destinations. Some suggestions that have been made are to master plan the 'heritage' precinct at the Coles end of the route, as well as having more opportunities at the Aldi area.</li> <li>Nambour Alliance ultimately envisions a Tramway that links at least with the Showgrounds and could also reinstate the original route. The capital and operating costs, as well as potential patronage associated with these extensions would need to be investigated.</li> <li>If flexibility is required for the route of the tram, the Perth and Fremantle Tram 'bus' options could still be along the heritage tramway, but could also visit other destinations (including the Showgrounds when necessary, the old sugar route, and coiled with this option would need investigation, and early indications from the Perth and Fremantle operations suggest that appropriate levels of patronage are essential for the votures to be viable.</li> </ul>



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# Community Identity & Cohesion

	Potential Negative Impact	Opportunities
Many people consulted for the project emphasised the need to have further defining elements associated with Nambour's identity. People were proud of the evolving 'quirky' nature and arts and cultural elements in Nambour, and feit that the addition of the tram would be a large positive for Nambour. Assisting with community identity was expected to improve community pide and therefore translate to more people using and visiting Nambour. Over 75 per cent of people surveyed indicated that he addition of the Tram was considered to be a likely catalyst for further redevelopment opportunities & other activities and businesses (refer Figure 18). This is likely to bring about economic benefits as discussed in General	<ul> <li>Some stakeholders in the community were concerned about the message that the Tram (as currently routed) sent to the broader Sunshine Coast areas and indeed the whole of South East Queensland. Some community members noted that the tram route was too short and idi not have a point of interest. These people suggested that Nambour did not want to be known for being the area with the 'tram that goes nowhere'.</li> <li>The expectation of patronage as utilised in this assessment relies on the outcomes of the community survey and expectations associated with additional visitors. However, should the Tramway attract less tourists and visitors than</li> </ul>	<ul> <li>The Tramway presents many opportunities to strengthen community identity and cohesion. Taking into account Nambour Alliance's vision, opportunities that build on the arts and culture scene (such as having bands play at the tram stations after tram operation hours, having ginners on the tracks, having a coffee cart, having special promotional events, having family fun days with the tram, artists on board) could be instigated.</li> </ul>



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Community Participation

Potential Positive Impact	Potential Negative Impact	Opportunities
<ul> <li>As noted above in the opportunities for community identity, the existence of the Tram may bring about more recreational opportunities / activities for a range of people - children, youth, young adults, tram enthusiasts, families as a whole, retired people.</li> <li>The opportunities for volunteering also provide more avenues for community participation. If these opportunities were taken up by people who might not otherwise be active in the community, it could also lead to better health and well being outcomes.</li> </ul>		<ul> <li>As noted above, there are many opportunities to increase community participation with the introduction of the Tram. For example, there could be the opportunity to have bands play on the tram at the terminus of a Saturday night; could have dinners along the track or at the stations; could have a coffee tram; could have artists on board, and many other events/ activities.</li> </ul>
<ul> <li>With the volunteering / staff requirements there are also opportunities to increase participation for people in training in diverse areas, such as rail operations, promotion, safety/security.</li> </ul>		



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Feasibility Assessment of Nambour Heritage Tramway



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Crime and Public Safety

Potential Positive Impact	Potential Negative Impact	Opportunities
<ul> <li>The Tram is expected to be travelling at a relatively low speed to ensure the safety of travellers, pedestrians and drivers. Nonetheless, safety training will need to be strictly adhered to. It is noted that the tram route has not been identified as an area that requires attention with regard to safety.</li> <li>The enhanced level of pride in the centre could also lead to improved sense of "ownership' of the Centre by the community and therefore less crime grafiti. It is noted, however, that crime was raised as an issue by only one stakeholder in the community.</li> </ul>	<ul> <li>As with any mode of transport, the introduction of the Tram does provide for the potential for tram incidents. Safety training and community education is essential if the Tramway is to move to implementation.</li> <li>In addition, the Depot and information centre would need to be adequately patrolled / secure to ensure they don't attract grafiti or nuwanted behaviour. Costs for security patrols have been incorporated into the cost assessments for the study.</li> </ul>	<ul> <li>As noted, it is essential that all staff members are adequately trained in safety and efficient operations. In addition, community education associated with the Tram would be beneficial. One suggestion for community education included having 'walking' trams for a while prior to introducing the Tram - people walk the track as though they are in a Tram so the community understands that there will be changes.</li> </ul>



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Education / Training & Jobs

Pot	ential Positive Impact	Potential Negative Impact	Opportunities
•	The introduction of the Tram in Nambour will require construction and operation, and therefore attract jobs to the area. As shown in the economic impact assessment, this is likely to have indirect benefits also. The types of positions required for the operation of the Tramway include tram drivers,	<ul> <li>Depending on the popularity of the tramway, volunteering required to operate the tramway system may not be present over the longer term. If that is the case, longevity of the operation and the jobs associated with it is questionable.</li> </ul>	<ul> <li>Depending on the success of the Tramway, there is the opportunity to develop training 'days' or courses associated with maintenance of the Tramway.</li> <li>'Education' days and 'heritage events' could also be run in line with the Tramway operation.</li> </ul>
	information kiosk operators as well as maintenance crews. Training for staff members will be required.	<ul> <li>With voluntary staff covering the majority of the ongoing employment, the level of flow on impacts on jobs in other</li> </ul>	
•	If the Tramway did become a catalyst for further development, there is the potential for more jobs in the area, plus the potential introduction of new skills in the area.	industries and areas is likely to be diminished.	

#### Environmental Impacts

Environmental benefits are negligible to negative given that most people using the Tramway will have driven to the centre to do so. If visitation and patronage occurred as expected, it is likely that the operation of the Tramway would increase emissions rather than decrease them.



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General Economy Benefits, Including Tourism Benefits

Pot	ential Positive Impact	Potential Negative Impact	Opportunities
•	Approximately 75 per cent of the people surveyed indicated that they felt the addition of the Tram would be a catalyst for more development in Nambour (refer Figurre 18). More visitors to the centre were expected to prompt beautification works and the introduction of other goods and services. This in turn was expected to generate to more visitors and further expenditure. The outcomes of the community survey also noted that of those who indicated they would use the tram would also spend more money in the centre. The CBA has shown that this is an important component of the benefits, and should people spend more, the benefits of the operation could exceed the establishment and ongoing costs.	<ul> <li>As noted previously, if the patronage and visitation increases to Nambour do not result then the likely benefits associated with the operation and the expected additional tourism across the Sunshine Coast will be minimal.</li> <li>Once the Tram is operational, the expected increase in expenditure may not either result, or continue over the longer term. If this occurs, the costs of the operation are likely to be in excess of the community benefits.</li> <li>Indirect operational impacts are likely to be minimal if direct operational positions are voluntary.</li> </ul>	
•	Construction and operation will have a direct and indirect impact on the economy. This has been quantified in the economic impact section and has shown that up to \$3.75 million worth of benefits could be expected in the construction period, and the generation of up to 16 jobs Australia-wide.		
•	Tourism / visitation to Nambour is expected to increase with the introduction of the Tram. In addition, the presence of the information centre is also expected to marginally increase tourism to other attractions on the Sunshine Coast generally. This is expected to bring substantial benefits to Nambour and the Sunshine Coast generally.		



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Feasibility Assessment of Nambour Heritage Tramway



Potential Legacy implications for Council

There are a number of issues for Council to consider regarding the operation of the Nambour Heritage Tramway.

The first relates to the risk associated with Tram incidents. The Nambour Heritage Tramway – Issues Paper developed by Council (refer Appendix 1) provided an operational risk assessment. This indicated that accreditation of the Rail Infrastructure Manager and the Rolling Stock Operator is essential, but that even when accreditation has occurred, the potential risks involved in the operation are not completely eliminated. The Issues Paper states that 'at all times, the responsibility for ensuring the safety of the railway operations remains with the Railway Organisation' (in this case Council). Should a tram incident occur, it is likely that there will be ramifications for both Council as the Rail Infrastructure Manager and the community operators as Rolling Stock Operators. As Rail Infrastructure Manager, Council will need to be satisfied that appropriate measures are in place such that:

- Track and infrastructure is fit for purpose, safe and is appropriately maintained;
- · Rolling stock is safe and is appropriately maintained;
- All operational risks are identified and appropriately managed / mitigated;
- There is a risk register in place and this is utilised appropriately; and,
- Management, training and staff policies and procedures are appropriate. This will be particularly important if a large volunteer base is utilised.

The second issue that needs to be considered by Council is the scenario of what would happen should the volunteer base decline and the Rolling Stock Operator not be able to keep operations running. If this was to occur, Council has a number of options, including:

- The potential that Council will 'take over' the operations. If the Rolling Stock Operator was no longer able to viably run the Tramway, there may be an expectation in the community for Council to continue the operation. To do so would incur costs to Council (as outlined in Section 5). To determine whether it was strategically beneficial for Council to continue the operations, the overall ongoing subsidy required to operate the Tram would need to be weighed up against the opportunity cost and benefits of Council spending the required subsidy elsewhere in the Region.
- The potential that Council will cease operations of the Tram but keep operating the Information Centre. Under this scenario there will also



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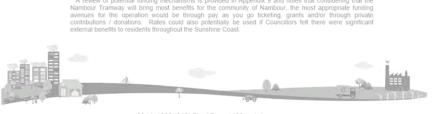
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be costs associated with staffing and maintaining the Information Centre / Kiosk. Again, the benefits of doing so will need to be weighed up against the overall costs.

The potential for Council to cease all operations. Under a situation whereby Council was required to resume responsibility of Rolling Stock Operator, an alternative would be for Council to cease the Tramway and the Information Centre / Kiosk operations altogether. If that was the case and there were outstanding debts Council would most likely become responsible for these. If, on the other hand, the community group operating the Tramway was only allowed to take the operation of the Tramway forward on the basis that they were able to meet all establishment costs upfront<sup>6</sup> (perhaps by securing grants or donations), Council could cease the services and have minimal ongoing costs. In the case where all establishment costs were paid for and the Council ceased operations, Council's ongoing costs would be limited to housing the tram and ensuring that the information centre, depot / maintenance shed does not become a target for graffiti and/or other crime. This is not likely to be an expensive proposition, but will require management of community expectations.



anisms is provided in Appendix 9 and notes that conside

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#### 7 **Risk Assessment**

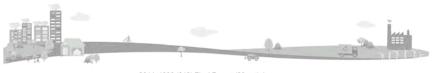
Taking into account all preceding information and analyses, a risk assessment was conducted on the construction and operation of the Nambour Heritage Tramway. The details associated with the Risk Assessment can be found in Appendix 8 and a summary of risks is provided below. It is noted that most risks are considered low to medium, but the risks associated with the actual level of patronage and visitation not reaching the expected levels, sustaining the level of volunteering for the ongoing operation of the service and the potential for the required operational subsidy required to continue the operation not being available over the longer term are considered high.

# Planning

With regard to planning, the risks identified included project scope adequacy, forecast patronage, adequacy of capital and operating cost estimates, understanding planning and land impacts, and the proposed design of terminus station and depot not being acceptable to local businesses and residents. Should these risks come to fruition, impacts on project viability and public acceptability might occur. Mitigation actions such as comprehensive feasibility assessments with sensitivity testing, conservative planning assumptions and effective stakeholder engagement would be required to mitigate many of the potential negative impacts. The feasibility assessments conducted as part of this project have been very comprehensive and a number of scenarios have been tested. Patronage estimates have been established based on community feedback and visitation estimates have been conservative. Nonetheless, the risk still remains that the patronage and induced visitation expected as in line with the operation of the Tramway may not be reached. In addition, stakeholder consultation has been conducted on many elements of the study, but not on the broad design elements of the Terminus, Depot or the Tram rolling stock. Should the project move to implementation, further consultation and detailed design of these elements would be beneficial.

# Procurement

Procurement risks associated with the Nambour Heritage Tramway operation include purchasing the bespoke heritage tram at a competitive price and transporting it without incident / damage, having a procurement process that is less than efficient or not of sufficient detail such that sub-



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standard acquisitions result, and the ability to purchase / acquire the properties needed for the depot and terminus. Ways to mitigate some of these potential risks include holding early discussions with the likely suppliers of the Tram prior to project approval, establishing a competent resourced team that is experienced in procurement, and ensuring that the ability to purchase / acquire the land required for the safe and efficient functioning of the tram is present.

Through the development of this report confirmation current established suppliers of similar type equipment in the UK and USA being able to supply a tram was confirmed. However, the price and specifications were less than desirable, and the rail experts had low confidence in the indicative price and ability to meet specifications. The technology is not comples, and the difficulties of the tram specifications arise more from remoteness and size of order (i.e. one tram only). A local Australian manufacturer would obviate some of these risks, albeit there is none that has substantial experience in designing a bespoke tram for this application, nor obtaining safety accreditation for such a vehicle. An imported vehicle introduces additional risks when being transported to its destination. In addition, the ability to access acceptable warranty and after sales service is made more difficult with an overseas supplier.

Despite further investigation through this study, medium risks associated with acquisition costs of the required properties are still likely to be present, as is the ability to be confident in the procurement practices of the organisation responsible for the ongoing operation of the Tramway. However, it would be expected that a more detailed assessment of available product and suppliers, coupled with a more specific specification, could elicit a likely supply cost and contingency cost below the Severn Lamb price used in this assessment.

### Construction

Should the Nambour Heritage Tramway project move forward to implementation, construction risks will be present. These would include being able to guarantee the performance of civil works and building contractors, being able to build and construct elements in a timely fashion and without, and being able to ensure that key staff and contractors are maintained throughout the construction process. The impacts associated with these risks can result in increased cost and resources and/or delays in the delivery of the required outcomes. To reduce the risks associated with these elements, mitigation measures would include rigorous selection of construction teams, ensuring that the design / construction solutions are fit for purpose and have effective management of impacts (such as traffic,



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property), ensuring that contingency costs take into account potential delays. In the financial feasibility assessment contingency fees have been included (30 per cent of costs) to cover minor scope variation, cost rises and some level of potential delay. The other areas of risk would need to be mitigated during construction. The residual risk after mitigation for most of these elements would still be medium.

### **Operation Safety**

Ensuring that operational safety of the Tram service is maximised is essential. Risks associated with operation once the Tram is operational include collision with road vehicles, injuries to passengers and/or staff, and injuries to pedestrians. The impact of these risks could be minimal to highly significant, and depending on the incident, there is the risk of considerable personal injuries or death. Should incidents occur (even ones with low impacts) impacts would include impacts on services, poor publicity, potential impacts on future patronage, increases in insurance costs and also potential loss of accreditation. As noted previously, Council as Rail Infrastructure Manager is likely to share the responsibility of any incident that occurs. As such, it is essential that Council and the Rolling Stock Operator is confident that the design and signage associated with the Tramway is adequate, maintenance is appropriate, there is comprehensive and ongoing staff and driver training and that public awareness campaigns are implemented. After implementing these elements the residual risk of tram incidents has been assessed as medium.

### Service reliability

Service reliability will depend on ensuring operational and maintenance procedures are adequate, staff and volunteer training is appropriate and ongoing, the presence of volunteers is sustainable over the longer term and the potential for vandalism addressed. The impacts of not ensuring these elements are in place include impacts on service, poor publicity, impacts on safety and impacts on future patronage. To reduce these risks, a thorough and ongoing assessment of operational needs should be present, effective training and management practices for paid and volunteer staff will be required, an adequate number of volunteers needs to be available, appropriate vendor selection needs to occur, and quality control and testing need to be in place. Ensuring that there are appropriate operational procedure manuals in place will be essential.



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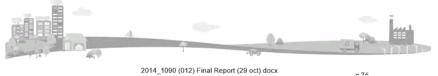
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Commercial

The commerciality of the operation has been assessed throughout this report and even with considerable assumptions associated with volunteer staff and inkind services a subsidy will still be required. The extent of this subsidy has been estimated as between around \$97,000 and \$500,000 per annum. These estimates are based on assumptions of patronage developed through application of community perceptions noted through the community survey. There is a risk that once the operation commences patronage does not reach the level expected, or over time decreases. Should this occur, the subsidy requirements could increase from those estimated here. In addition, the induced visitation to Nambour has been conservatively assessed but again if the expectations associated with the assessments made here are not reached, the broader level of benefits associated with the cost benefit analysis may not result. All care has been taken to ensure estimates are conservative and sensitivity has been undertaken, but no guarantee can be made regarding people's actual and long term behaviour. As such, the residual risks associated with patronage not being achieved as described herewith has been assessed as high, and therefore, so too the ability to obtain an ongoing subsidy.



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Feasibility Assessment of Nambour Heritage Tramway

# 8 Conclusions

This study has investigated the establishment of the Nambour Heritage Tramway and provided information associated with:

- The financial feasibility of the Nambour Heritage Tramway, including the costs required to establish, maintain and operate the venture;
- The overall likely costs and benefits associated with the operation of the Tramway:
- The economic and social impacts associated with the Tramway operation; and,
- A risk assessment associated with the advancement of the concept, including any legacy implications for Council.

A wide range of tasks were performed to assist in determining the overall costs and benefits associated with the establishment of the Tramway. This included considerable stakeholder consultation, a community survey, the development of four possible scenarios for testing the financial feasibility and cost benefit analyses, six different sensitivity tests for each of the scenarios, and social and economic impact assessments.

The assessments completed showed that there is a wide level of support from the Nambour Community for the operation of the Tramway, and the early indications were that people would not only use the 900 metre Tram route being suggested, but also spend more in the centre if the Tramway was in operation. Seventy seven per cent of people surveyed about the Tramway thought that the establishment of the operation was good for the community and Nambour Alliance indicated that the Tramway was one of the key components of the community's vision for Nambour.

Financial feasibility assessments conducted showed that from a variety of viewpoints, including those allowing for substantial volunteering and inkind services, ongoing subsidies would be required to run the operation. Under the most optimistic assumptions whereby capital and establishment costs could be funded through grants or donations, Council would need to provide an operational subsidy of around \$97,000 - \$98,000 on a yearly basis. This ongoing subsidy could be even higher if the assumed level of revenue (from patronage, merchandising and school excursions) did not eventuate. Where no inkind services were provided, the operating subsidy that would be required from Council would be around \$494,000 per year. Under a full cost recovery scenario, Council would need to invest between \$4.2 million (where inkind services were provided) and \$9.6 million (where no inkind



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services were forthcoming) over the 30 year period for the  $\ensuremath{\mathsf{Net}}$  Present Value to be neutral.

Under the assumptions of volunteer and inkind services, there is likely to be a broad range of benefits for the community of Nambour. With volunteer and inkind services, Benefit Cost Ratios (BCRs) of around 1.3 are likely, indicating that there are more broad society benefits than costs with the venture. Again, however, these outcomes depend on the operation reaching the patronage and level of visitation assumed in the assessments. Sensitivity testing using a 10 per cent rise in costs and a 25 per cent lowering of benefits indicated a BCR of 0.9, indicating that the costs would marginally outweigh the overall community benefits. Where no inkind or volunteer services are provided BCRs of between around 0.6 are expected.

There are multiple intangible social benefits likely to result with the introduction of the Tramway. This includes: improved community pride; strengthened identity; and, the potential to be the impetus for further redevelopment within Nambour.

However, there are also a number of risks associated with the operation, including: the risk of tram incidents if safety procedures are not followed; the risk that volunteer and inkind services may decline over time if the venture is not as popular as first expected; and, the risks associated with reduced patronage and visitation. The risk of Nambour being known as the area with the 'Tram that goes nowhere' was also indicated by some respondents and stakeholders consulted as part of the study.

With regard to risks / legacy implications for Council, there are a number of elements Council should consider.

The first is associated with the potential of Tram incidents. The Nambour Heritage Tramway – Issues Paper developed by Council (refer Appendix 1) provided an operational risk assessment. This indicated that accreditation of the Rail Infrastructure Manager and the Rolling Stock Operator is essential, but that even when accreditation has occurred, the potential risks involved in the operation are not completely eliminated. The Issues Paper states that 'at all times, the responsibility for ensuring the safety of the railway operations remains with the Railway Organisation' (in this case Council). Should a tram incident occur, it is likely that there will be ramifications for both Council as the Rail Infrastructure Manager and the community operators as Rolling Stock Operators. As Rail Infrastructure Manager, Council will need to be satisfied that appropriate measures are in place such that:



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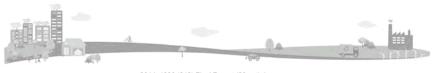


- Track and infrastructure are fit for purpose, safe and are appropriately maintained;
- Rolling stock is safe and is appropriately maintained;
- All operational risks are identified and appropriately managed / mitigated;
- There is a risk register in place and this is utilised appropriately; and,
- Management, training and staff policies and procedures are appropriate. This will be particularly important if a large volunteer base is utilised.

The next legacy implication is associated with if the volunteer base declines and the Rolling Stock Operator is not able to keep operations running. Where this occurs, there is the potential that Council will have to 'take over' operations. If this was the case there may be an expectation in the community for Council to continue the operation of at least the Information Centre, if not the Tramway itself. To determine whether it was strategically beneficial for Council to continue the operations, the overall ongoing subsidy required to operate the Tram and/or Information Kiosk would need to be weighed up against the opportunity cost and benefits of Council spending the required subsidy elsewhere in the Region.

Under a situation whereby Council was required to resume responsibility of Rolling Stock Operator, an alternative would be for Council to cease the Tramway operations altogether. If that was the case and there were outstanding debts, Council would most likely become responsible for these. If, on the other hand, the community group operating the Tramway were only allowed to take the operation of the Tramway forward on the basis that they were able to meet all establishment costs upfront (perhaps by securing grants or donations), Council could cease the services and have minimal ongoing costs. In the case where all establishment costs were paid for and the Council ceased operations, Council's ongoing costs would be limited to housing the tram and ensuring that the information centre, depot / maintenance shed does not become a target for graffiti and/or other crime. This is not likely to be an expensive proposition, but will require management of community expectations.

As noted throughout, the idea of introducing the Nambour Tramway is a very popular one by many in the Nambour community. However, there is a cost associated with the operation, and Council will need to determine the overall strategic benefit to the Sunshine Coast of moving forward to implementation.



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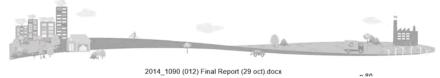
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Appendix 1: Nambour Heritage Tramway **Issues Paper and Discussion Papers** (SCRC)



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ORDINARY MEETING Item 7.1.1 Nambour Heritage Tramway Issues Paper Report Appendix A Nambour Heritage Tramway Issues Paper 27 FEBRUARY 2014

This Issues Paper has been prepared in response to the Council Resolution of 13 December 2012. This resolution requested a report and

Issues Paper be prepared on the utilisation of the existing heritage listed sugar cane locomotive line in Howard Street and Mill Street, Nambour.

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### NAMBOUR HERITAGE TRAMWAY - ISSUES PAPER

#### Introduction

At the Ordinary Meeting of Council on 13 December 2012, Council resolved, inter alia, that a report, including an issues paper, be presented to Council regarding the development of the Nambour Tramway utilising the existing heritage-listed sugar cane locornotive line.

The resolution made reference to community aspirations and limitations. To this end the local councillor, Cr Greg Rogerson invited persons from the local business community and other organisations to form an interest group to canvass community opinions and to discuss and consider the options. The Nambour Heritage Tramway Group was formed at a meeting on 13 March 2013.

To assist this Group in their discussions a Discussion Paper (No 1) was prepared and distributed to those persons attending the initial and subsequent meetings. The purpose of the Discussion Paper was to inform interested persons and organisations on the progress of investigations, and to invite contributions to the debate and to the final Issues Paper.

This Discussion Paper was also sent to the Department of Transport and Main Roads (DTMR) prior to a meeting with Director Rail Safety Regulation and the Manager Road Operations (North Coast).

A further Discussion Paper (No 2) was prepared and distributed to members of the local Group and some Council staff on 20 May 2013. Both Papers had limited distribution.

Whilst the resolution referred to the utilisation of the existing heritage listed sugar cane locomotive line, it must be said at the outset that additional track and other infrastructure will need to be provided beyond the ends of the existing track to support the management, maintenance and running of any rolling stock.

To determine the extent of this additional infrastructure requires consideration of a scenario, or a series of scenarios, particularly with respect to rolling stock. To a large extent, track infrastructure including stations, maintenance and storage facilities and traffic control will be common for each scenario.

The variables considered in developing these scenarios include not only the rolling stock and other infrastructure but also the governance, and the legal and financial liability of the managing parties.

The Sugar Industry Act 1999 (similarly under the former Sugar Industry Act 1991) permits a mill owner to maintain rail lines on roadways "for the supply of cane to a mill".

The conduct of other rail operations within Queensland is subject to the Transport (Rail

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	Sofety) Act 2010. This Act is administered by the Department of Transport and N and together with the Work Health and Safety Act imposes duties and obligati transport operators and workers including those of State owned entities.	Aain Roads, ions on rail
	On 20th January 2013, the Office of the National Rail Safety Regulator (ONRSR) i rail safety regulator for rail activities under the Rail Safety National Law (RS jurisdictions of New South Wales, South Australia, Tasmania and the Northern Terr	in the
	Subject to the passage of further state law, it is expected that Western Austral Queensland and the Australian Capital Territory will also be regulated by the ON end of 2013.	
	Both the current Queensland and National legislation seek a common outcome r accreditation process for rail infrastructure managers and rolling stock operal strong focus on the preparation and adherence to a Safety Management Plan.	
	Council Resolution	
	8.1.3 Notice of Motion – Nambour Tramway Development (OM12/197), 13 Dec 20	112.
	That Council request the Chief Executive Officer, in consultation with the Divisional to bring to Council a report including an issues paper for the development of th Tramway utilising the existing heritage listed sugar cane locomotive line with such caver the following:	e Nambour
	<ul> <li>outline of the proposal;</li> <li>proposed ownership and operations of rolling stock;</li> </ul>	
	<ul> <li>proposed ownership and operations of rowing stock;</li> <li>route alignment;</li> </ul>	
	<ul> <li>property tenure issues;</li> <li>essential infrastructure required;</li> </ul>	
	<ul> <li>essential infrostration eleganea,</li> <li>planning and approval issues;</li> </ul>	
	<ul> <li>key stakeholders and any agreements required;</li> </ul>	
	<ul> <li>community aspirations and limitations;</li> <li>cost estimates for –</li> </ul>	
	construction (Capital Costs);	
	<ul> <li>operating costs;</li> </ul>	
	<ul> <li>revenue potential; and</li> <li>other items as relevant.</li> </ul>	
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	NAMBOUR HERITAGE TRAMWAY – ISSUES PAPER	
	Scope of this Issues Paper The specific items in the Council resolution are addressed under the follo	wing general
	headings; • Legislation - legislation or regulation may either give authority to use	
	tracks, or constrain or prevent some courses of action. The critical legislation is the <i>Tronsport (Roil Safety) Act 2010</i> and the a <i>Transport (Roil Safety) Regulation 2010</i> . The primary objective of this leg provide for the improvement to safety and the management of risks as rail operations. To achieve this objective, accreditation is required by I Infrastructure Manager and the Rolling Stock Operator.	gislation is to sociated with
	Like all vehicles travelling on public roads the tram will be subject to t Operations (Road Use Management) Act 1995 and the Transport Oper Use Management—Road Rulesj Regulation 2009, albeit with specific rul to trans, and the relationship to other vehicles in the roadway.	ations (Road
	Any modification to the heritage-listed track will require approva Queensland Heritage Act 1992 and the accompanying Queensla Regulation 2000.	
	Any extension of the track to provide end-of-track facilities will acquisition of additional land, an application for a Material Change of compliance with the current Planning Scheme and consistency will Planning Scheme.	Use (MCU),
	<ul> <li>Governance - the process for making and implementing decisions aims and objectives of the organisation. Good governance within a r organisation needs to be consistent, accountable, transparent, partic follow the rule of law.</li> </ul>	not-for-profit
	Standards and policies need to be established early, particularly with re involvement of volunteers.	espect to the
	Issues to be addressed include: o Policies and procedures o Management responsibilities o Recruitment o Work and the workplace o Training and development o Service delivery o Documentation o Continuous improvement	
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Some of the issues above will be addressed in the Safety Management System document and the accreditation process.

· Scenarios - these are the operational scenarios that may make use of the tracks.

The scenarios considered in this document are seen to represent the gamut of reasonable options. Their consideration does not in any way endorse or recommend these scenarios as a course, or courses of action, but collectively allows consideration of the wide range of issues associated with any future scenario.

The obvious variations between scenarios are the type and form of the locomotive and the passenger rolling stock. This may lead to variations in the end of track facilities required, not only for storage and maintenance purposes, but also for staff and passenger amenity.

The frequency of the tram operation will determine the level of staffing and the extent of facilities at either end of the track. The frequency will also lead to a variation in the level of operational and financial risk.

These scenarios are not necessarily mutually exclusive. Scenarios may have different Governance and Financial Models but there will be overlap and these can best be represented in the form of a table for comparison.

Whilst there will probably be a common Rail Infrastructure Manager, the different rolling stock scenarios may have different Rolling Stock Managers. This will certainly apply if there are visiting locomotives using steam power which will require its own accredited team.

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# Legislative Issues

#### General

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The operation of trains or trams on the heritage-listed sugar cane track will be subject to a range of State Acts and Regulations. It is important to investigate thoroughly that there is the legislative authority to do so, and that all legal issues are identified.

The following list is not exhaustive, but represents the most applicable:-

- Queensland Heritage Act 1992
   Queensland Heritage Regulation 2003
- Transport (Rail Safety) Act 2010.
- Transport (Rail Safety) Regulation 2010.
- Rail Sofety National Law (South Australia) Act 2012.
- Transport Operations (Road Use Management) Act 1995.
  - Transport Operations (Road Use Management—Road Rules) Regulation 2009
- Transport Infrostructure Act 1994
- Local Government Act 2009
- Sustainable Planning Act 2009
- Maroochy Plan 2000 & Draft Sunshine Coast Planning Scheme

Running passenger vehicles on unused cane tracks down the centre of a town is unique and does not appear to be specifically identified in legislation or regulation however it is clear that the *Transport (Rail Sqfety) Act & Regulations* apply in this case and, subject to the passage of further state law, the *Rail Sofety Notional Lows* will apply in Queensland by the end of 2013.

The Transport Operations (Road Use Management—Road Rules) Regulation 2009 provide road rules in Queensland under the Transport Operations (Road Use Management) Act 1995 (RUM) that are substantially uniform with road rules elsewhere in Australia. As part of this consistency they refer to trams and the specific rules applicable to trams travelling in the road carriageway (as in Melbourne, Bendigo, Adelaide and Sydney).

The RUM Act defines a tram as "any conveyance or group of connected conveyances used or designed for use upon a tramway". A tramway is not defined.

Under the Transport Infrastructure Act 1994, the terms tram and tramway specifically refer to cane trams and cane tramways. There is however considerable reference to light rail and light rail transport infrastructure.

Is this a tram or a light rail? The distinction between tram and light rail is not always clear. The term *light roil* was devised in 1972 by the U.S. Urban Mass Transportation Administration

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(UMTA) to distinguish between the earlier urban streetcars and the current resurgence of urban rail systems using exclusive and shared right-of-way.

Generally, the term tram refers to a public passenger vehicle travelling in a public road at the road surface level. The term *light rail* is increasingly used to describe high capacity modern public passenger systems operating in a separate right-of-way (sometimes still within a road resurve) with less frequent stops compared to the traditional trams.

#### **Queensland Heritage Act & Regulations**

The object of this Act is to provide for the conservation of Queensland's cultural heritage for the benefit of the community and future generations. This is achieved by regulating, in conjunction with other legislation, development affecting the cultural heritage significance of Queensland heritage places.

It should be noted here that the legislation consistently uses the term *ploce* to define or identify land that is historically significant. It may be held on two or more titles and includes any *features* and their immediate surrounds that may be on the land. A feature may include a part or whole of a building or structure, an artefact including an archaeological artefact, a precinct, or a natural or landscape feature.

The Act promotes heritage agreements to encourage appropriate management of Queensland heritage places, and provides appropriate enforcement powers to help protect Queensland's cultural heritage. Heritage places are defined spatially and include objects within that defined space.

Under the Act, the local government is the owner for a road or other land under a local government's control. This would include the assets in the road reserve including the cane tracks.

The portion of roadway 1.5 metres either side of the centre of the cane tracks within the Howard Street and Mill Street road reserves, and the their intersection with Currie Street, is registered as a heritage place.

Entry in the Queensland Heritage Register does not exclude changes, additions or the construction of new works, provided the proposed work does not detract from the heritage values of a place.

Owners of heritage places are not obliged to fully restore their property. However, owners are advised to maintain their place to ensure it is protected from serious or irreparable damage or deterioration. The tracks in Mill Street west of Currie Street show considerable wear and the concrete surround is crumbling. Maintenance will be required by Council in the near future.

The registration of the two former mill cottages in Mill Street extends to the road centreline and therefore includes the footpath mounted, cane train warning sign.

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### Transport (Rail Safety) Act 2010.

The conduct of rail operations within Queensland is subject to the Transport (Rail Safety) Act 2010. This Act is administered by the Department of Transport Main Roads. This Act, together with the Work Health and Safety Act imposes duties and obligations on rail transport operators and workers including State owned entities.

The Act also requires for a system of accreditation to ensure that the rail operators have the competence and capacity to operate their system safely and to manage the risks associated with rail operations.

Cane railways are also exempt from the Act which, by definition do not carry passengers or freight other than sugar cane products.

Specifically, the legislation requires the accreditation of the Rail Infrastructure Manager, and the Rolling Stock Operator.

The two functions may be separately accredited and the accreditation may apply to an individual or a corporation.

The Rail Infrastructure Manager need not be the owner of the rail infrastructure, however the applicant must demonstrate that they have effective management and control by written contract.

Similarly, the Rolling Stock Operator need not be the owner of the rolling stock, however again the applicant must demonstrate that they have effective management and control by written contract.

An initial accreditation fee, and annual fees based on the revenue range and the total length of track travelled are payable by both the Rail Infrastructure Manager and the Rolling Stock Operator.

Further requirements in support of the Act are contained within the Transport (Rail Safety) Regulation 2010.

As of 1 September 2010, all Queensland rail infrastructure managers and road managers must enter into an interface agreement for rail crossings on public roads.

An interface agreement is a written agreement for managing risks in relation to rail or road crossings. As a minimum an interface agreement must include provisions for

- · implementation and maintaining measures to manage those risks,
- the evaluation, testing, and where appropriate, revision of those measures · the respective roles and responsibilities of each party to the agreement in relation
- to those measures, procedures by which each party to the agreement will monitor and determine
- whether the other party complies with its obligations under the agreement, a process for reviewing the agreement and how it will be conducted and
- implemented.

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The definition for a crossing includes not only a railway level crossing but also pedestrian level crossing and *a lane of a road on which trains move alongside road vehicles*. This is particularly applicable to Howard Street and Mill Street.

An agreement will be required between the State (as road manager of the Currie Street intersection) and the rail manager.

A further agreement will be required between council (as road manager of Howard Street and Mill Street) and the rail manager, if the rail manager is not council.

National Rail Safety Legislation and Regulations

The Council of Australian Governments decided on 7 December 2009 to implement a single National Rail Safety Regulator ('National Regulator') and a body of National Rail Safety Law ('National Law').

The Rail Safety Regulators' Panel (RSRP) consists of the Rail Safety Regulators from all States, the Northern Territory and New Zealand.

The key role of the RSRP is to provide advice to the Safety Standing Sub-Committee (Safety SSC) and National Transport Commission (NTC) on rail safety regulatory issues to help enhance safety and regulatory outcomes consistent with the co-regulatory framework.

The Panel has produced a publication Sofety Management System Guidance for Tourist and Heritage Rail Transport Operators – February 2010. This guidance material outlines the legislative requirements and associated processes for Tourist and Heritage Rail Transport Operators in preparing their Safety Management Systems, as reflected in the National Model Rail Safety Legislation.

On 7 June 2012 the South Australian Government Gazette proclaimed the Rail Safety National Law (South Australia) Act 2012.

On 20th January 2013, the Office of the National Rail Safety Regulator (ONRSR) became the rail safety regulator for rail activities under the Rail Safety National Law (RSNL) in the jurisdictions of New South Wales, South Australia, Taximania and the Northern Territory.

Subject to the passage of further state law, it is expected that Western Australia, Victoria, Queensland and the Australian Capital Territory will also be regulated by the ONRSR by the end of 2013.

The Executive Office and the Central Branch (SA, Tas, NT) are based in Adelaide with a Branch office established for New South Wales. Further Branch Offices will be established for Western Australia, Victoria and Queensland. Staff from DTMR will move to the Queensland Branch Office.

The Queensland Transport (Rail Safety) Act 2010 and the Rail Safety National Low Act were developed in the same environment and with the same intent. In many cases the wording of the various clauses is the same.

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The transition from the Queensland Regulations to the National Regulations should be seamless for almost all operators.

Transport Operations (Road Use Management Act) 1995

This Act provides for the effective and efficient management of road use in the State. The Act establishes a scheme for the identification and performance of vehicles, drivers and ro users. The scheme monitors compliance and manages non-performing vehicles, drivers and road users. It also manages traffic to improve safety.

Under this Act a local authority may install or remove official traffic signs on local roads in its area, notwithstanding that the State may override this and serve notice on a local authority to remove or install such sign. An official traffic sign must be installed in a way specified by the Manual of Uniform Traffic Control Devices (MUTCD).

In general terms, councils are limited to controlling the local road space and how it can be used (including parking). Refer also to Local Government Act 2009 re temporarily or permanently closing a road to any class of traffic.

Transport Operations (Road Use Management-Road Rules) **Regulation 2009** 

The object of this regulation is to provide road rules in Queensland that are substantially uniform with road rules elsewhere in Australia.

It is not the intent of this summary to reproduce the complete regulations relating to the operation of trams in the road but to highlight those that might influence the operation of trams on these particular tracks.

It is extremely important that it is quite clear to the other drivers that trams are operating in the area and that there are regulations that apply that may well be unique in Queensland. These regulations also apply to pedestrians most particularly those accessing or leaving the tram

A critical issue is the safety of pedestrians / passengers at tram stops. Whilst it may be desirable that passengers only alight from, or access the tram at the off-road stations at either end of the tram tracks, we must consider the contingency where tram stops may be created along the route.

In general, if a tram is stopped, then other traffic travelling alongside or behind in the same direction must also stop. Even after stopping, a driver cannot drive past a tram if the tram doors are open, or a pedestrian is crossing the road between the tram and the left side of the

The definition of vehicle includes tram, even though currently trams or light rail are not a

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road. feature in Queensland roadways. Transportation Strategy Branch Sunshine Coast Regional Council

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ORDINARY MEETING Item 7.1.1 Nambour Heritage Tramway Issues Paper Report Appendix A Nambour Heritage Tramway Issues Paper 27 FEBRUARY 2014 NAMBOUR HERITAGE TRAMWAY - ISSUES PAPER There are definitions also for: tram lane - the part of a road with tram tracks between a tram lane sign and an end tram lane sign, and marked on either side by a continuous yellow line parallel to the tracks. A driver of any vehicle may drive up to 50m in a tram lane to enter or leave the road. -LANE LANE END End tram lane sign Tram lane sign O Figure 1 Tram Lane signs and linemarking tram stop - means a place on a road at which there is a sign indicating that trams will stop to enable people to get on or off. tram tracks - includes a rail designed for a light rail vehicle to run on. tramway - the part of a road with tram tracks between a tramway sign and an end tramway sign, and marked on either side by 2 continuous yellow lines parallel to the tracks, or a structure such as a pedestrian refuge, traffic island or kerb. ÷ ONLY ONLY END End tra D Figure 2 Tramway signs & Linemarking Transportation Strategy Branch Page | 10 Sunshine Coast Regional Council OM Attachment Page 18 of 77

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Local Government Act 2009

This Act gives a local authority its authority. Generally, a local government has the power to do anything that is necessary or convenient for the good rule and local government of its local government area.

The question is what limitations might apply to Council becoming the rail infrastructure manager and a rolling stock operator (manager)?

A local government may close a road (permanently or temporarily) to all traffic, or traffic of a particular class, if there is another road or route reasonably available for use by the traffic.

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If a road is closed to traffic for a temporary purpose, the local government may permit the use of any part of the road (including for the erection of any structure during a fair for example, for example) on the conditions the local government considers appropriate.

This could be applicable if council sought to temporarily close portions of road for the purposes of a fair or celebration of a historically, significant event linked to the sugar industry.

Sustainable Planning Act & Regulations

The Sustainable Planning Act seeks to achieve ecological sustainability by the coordination and integration of planning at the local, regional and State levels, and by managing the development process and the impact development may have on the environment and the use of premises. A Local Government Planning Scheme and a planning scheme policy are local planning scheme instruments under the Act.

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### Maroochy Plan 2000

The current Maroochy Plan 2000 did not envisage closure of the Moreton Sugar Mill and supported the development of ancillary land uses in the vicinity of the Mill.



Precincts
1. Nameour Centrel (Town Centre Tore)
2. Nameour Centrel Forue (Town Centre Frame)
3. Nameour Widge Residencial (Mared Housing)
4. Nameour Central Residencial (Mared Housing)
18. Mereton Mil (Con Enduzing)
22. Nambour Showground (Special Purposes)

#### Figure 3 Maroochy Plan 2000

The following statements are made within the Maroochy Plan, Planning Areas, Precincts and Precinct Classes (Volume 3) under the following heading and sub-headings: 0

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# 3.2 Planning Area No. 2 – Nambour

3.2.2 Vision Statement (in part)

Nambour will be a major activity centre, providing higher order goods and services to the hinterland ond rural parts of the region. It will also provide a focus for a number of important industry and administration activities as well as accommodating the headquarters of a number of rural focussed State and Commonwealth government agencies.

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(b) New development in the Town Centre will be sited and designed to address the street and will reinforce the cultural heritage values and contemporary rural character of the town.

3.2.3 Key Character Elements,

#### (1) Location of Uses and Activities,

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Precinct 2 surrounds the Town Centre Core. The intent for this Precinct is to provide a range of commercial, business and service activities at a scale and intensity less than the scale and intensity of activities in the core (Precinct 1). Uses such as business and professional offices, fast food establishments and service trades requiring proximity to the Town Centre should be located in this Precinct. There is also a mix of housing in this Precinct. Some reuse of detached dwellings is encouraged provided it does not adversely Impact on surrounding residential uses.

Under the Maroochy Plan 2000, track facilities could fall under the following use;

#### Industrial Use

Transport Use

Transport Station - the use of premises for a road transport passenger terminal. Vehicle Depot - the use of premises for the overnight or longer storage of more than one motor vehicle, or premises used as an operational base or depot for any such vehicles.

Venues. Vehicle Repair Workshop - the use of premises for commercially servicing, repairing or maintaining motor vehicles or motor vehicle equipment, including engine tuning, engine reconditioning, radiator repairs and panel beating.

Subject to detailed design and application, it is probable that facilities at the eastern end of the track in the vicinity of the former Marshalling Yards would include all three categories above, whilst facilities at the western, former Mill site would be a transport station. If an intermediate station is proposed then it would also be considered a transport station.

Additional facilities such as Tourist Information would be under the category of;

#### Other Use Community Use

Local Utility - the provision of neighbourhood or district community services such as libraries, theatres, galleries, tourist information facilities, and the like;

It is most likely that the provision of track facilities overall would be impact assessable.

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Nambour MDA Town Centre Structure Plan

The South East Queensland Regional Plan (SEQRP) 2005-2026 was released in June 2005 designating Nambour as a Major Activity Centre for the Sunshine Coast, complementing the Principle Activity Centre of Maroochydore.

Nambour Central was designated a Major Development Area (MDA) by the State Government on 27 June 2007. The designation triggered the need to prepare a Structure Plan for the town centre consisting of precincts 1 (Nambour Central), 2 (Nambour Village Residential) and 18 (Moreton Mill) of the Nambour Planning Area.

The Structure Plan was required to support future infrastructure provision, urban development, economic growth and social and community development needs of Nambour. Some of the key outcomes for the town centre included a detailed master plan for the MDA including new redevelopment areas and precincts supported by improved infrastructure provision supported by SIA (State Infrastructure Agreement) planning and budgetary process.

- The planning steps were; an Enquiry by Design Workshop,
  - Technical Studies & Investigations,
  - Consultation, and,
  - Preparation of a Draft Structure Plan.

The Draft Structure Plan was endorsed by (the former Maroochy Shire) Council at its meeting of 12 Dec 2007.

The next step was to prepare planning scheme amendments to the Maroochy Plan 2000, however this has not occurred as a Material Change of Use (MCU) application for the former Mill site has now been approved.

Any statutory planning changes required within the MDA area will be dealt with by the new Planning Scheme.

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Draft Sunshine Coast Planning Scheme

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The Draft Planning Scheme was placed on Public Display for comment on 19 October 2012. The public consultation period for the Draft Sunshine Coast Planning Scheme ended on the 14 December 2012. Council is considering a report outlining the issues raised in each submission and any recommended changes to the draft planning scheme at a series of Special Meetings.

Following a further report to Council on the submissions, the amended Scheme will be presented to the State Minister for approval. The timetable for completion is at this stage unknown.

H HAT intal Zones Categ Viormental Manager dential Zones Category Low Density Residential Zone ZZZ Precinct LDR1 (Dval Occup Medium Density Residential Zone Environmental Management a Industry Zones Category Low Impact Industry Zone Medium Impact Industry Zone High Impact Industry Zone Waterford and Marine Indust 0 High Density Residential Zone ion Zone les Category monunity Facilities Zone es Category merging Community Zone imited Development (Constrained Land) Zone I RUR (N Plains Ex nes Category oal Zone entre Zone and Re-Space Zon m Area Zone Transportation Strategy Branch Page | 15 Sunshine Coast Regional Council OM Attachment Page 23 of 77

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Nambour is designated a Major Centre under the SEQ Regional Plan. The Major Centre Zone above extends the current Town Centre Core to include parts of the current Town Centre Frame.

The former Marshalling Yards off Howard Street are now designated Medium Density Residential.

A Transport Depot is defined as a Medium impact Industry - premises used for the storage, for commercial or public purposes, of more than one motor vehicle. The use includes premises for the storage of taxis, buses, trucks, heavy machinery and uses of a like nature. The term may include the ancillary servicing, repair and cleaning of vehicles stored on the premises.

There may be some argument however that the maintenance and storage use may be defined as Low Impact Industry. Nevertheless, all industry is impact assessable in the Medium Density Residential Zone.

Within the Specialised Centre Zone however Low Impact Industry is self-assessable in an existing building and code-assessable otherwise. Medium Impact Industry is impactassessable.

Within the Major Centre Zone, facilities for Community Use (western end-of-track facilities) are self-assessable if located on Council owned or controlled land **and** undertaken by or on behalf of Council **or** in an existing building, otherwise code-assessable

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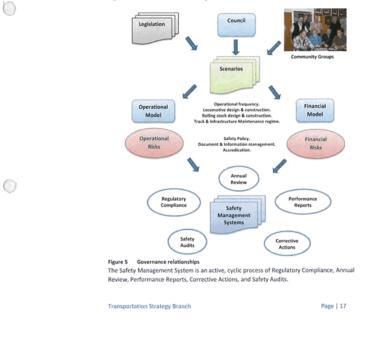
### NAMBOUR HERITAGE TRAMWAY - ISSUES PAPER

#### **Governance** Issues

#### General

Governance of the proposal is the most critical issue to be addressed in the first instance. The most likely entity for both the Track Manager and the Rolling Stock Operator is probably in the form of a Trust and the appropriate legal and financial advice should be sought.

The following simplistic diagram indicates that whilst there are operational risks that need to be addressed, the Track & Infrastructure Manager and the Rolling Stock Operator must also have the capacity to meet the financial demands of accreditation, most particularly with regards to maintenance, staff training and insurance.



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The Transport (Rail Safety) Act 2010 and the Transport (Rail Safety) Regulation 2010 refer to prescribed rollway operations and make a clear distinction between the functions of the Rail Transport Operator and the Rail Infrastructure Manager, although a person or entity may function in both capacities.

Furthermore, the Rolling Stock Operator need not necessarily be the owner of the rolling stock, however the Operator must have effective management and control of the rolling stock. Similarly, the Rail Infrastructure Manager need not necessarily be the owner of the infrastructure however the Manager must have effective management and control of the infrastructure.

Two or more Rolling Stock Operators may operate on the same rail infrastructure but there needs to be an infrastructure arrangement applying to the safety risks arising, or potentially arising, from railway operations carried out by or on behalf of any of them. This would include the operator of a visiting locomotive invited to a Special Event, where an infrastructure arrangement would need to be negotiated with the current Rolling Stock Operator.

There are three governance structures that may apply:-

Governance	Infrastructure Ownership <sup>1</sup>	Infrastructure Manager Council <sup>2</sup>	Transport Operator(1) Council <sup>8</sup>	Transport Operator(2) Contracted Operator
<ol> <li>Council as Rail Infrastructure Manager &amp; Rail Transport Operator</li> </ol>	Council			
G2. Council as Rail Infrastructure Manager; contracted Rail Transport Operator	Council	Council	Contracted <sup>®</sup> Operator	Contracted Operator
G3. Contracted Rail Infrastructure Manager ; contracted Rail Transport Operator	Council	Contracted <sup>®</sup> Manager	Contracted Operator	Contracted Operator

Table 1 Governance Responsibilities

<sup>1</sup> This includes all Council examed or controlled land, including land necessary for track extension, and all fixed assess and buildings, hereon. <sup>2</sup> Council responsible for maintenance and management of all infrastructure including tracks and traffic control. <sup>3</sup> Special, single day event celebraring the Sagi Industry, using disad powerel locamotive with care trucks. No passenger carages, Council will nece to implement temporary and dosumes and apecial traffic control. <sup>4</sup> Special, ungle day event celebraring the Sagi Industry, using including using loconstive with and trucks, e.g. IFCS from Woodford Naurum. Ascredietter Colling stock and operators - may include passenger raining stock, otherwise care trucks without passengers. <sup>3</sup> A for <sup>1</sup> above. The will propose bolt passenger rolling stock for use with local diesel powered locomotive or visiting stoam-powered loconotive. <sup>4</sup> Accredited infrastructure Manager and Transport Operator, together with <sup>1</sup> above. Additionally, may include purpose built "tram" on regular timetable.

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Council currently owns the heritage listed track and several locomotives. Western track extensions may be on extended road reserve. Council should be the owner of land for the future eastern track extension.

Council may decide to adopt G3 from the outset minimising its involvement and risk. Alternatively, the above Governance structures may evolve over time and will be dependant to some extent on the scenarios that are adopted.

For example, initially G1 may apply for a special, single day events with "enactments" using a diesel locomotive towing cane trucks without passengers and the appropriate risk assessments made. As part of the event, road closures may be implemented whilst the tram is travelling along the track.

As passenger carriages are developed and the volunteer organisations gain expertise, financial support and accreditation, G2 may be implemented, finally evolving into G3 with or without the purpose-built tram.

Notwithstanding which scenario is adopted, the latter structure (G3) where Council is neither the infrastructure Manager nor the Transport Operator presents the widest range of issues to be addressed, including the contracts and interface agreements between Council, DTMR and the infrastructure and operator entities.

#### **Operational Risk Assessment**

The object of accreditation is the safe operation of railway operations and the management of the risks associated with such operations. It is acknowledged that not all risk can be eliminated, but that risks need to be reduced so far as it is reasonably practicable.

For the definition of reasonably practicable refer to the ONRSR Guideline, Meaning of Duty to Ensure Safety So Far As Is Reasonably Practicable.

The Safety Management System shall provide sufficient detail appropriate to:

- the scope and nature of the rail operations,
- the potential risks to persons by these operations,
- the operators duties.

Accreditation does not attest that all risks have been identified or controlled. It is not a guarantee by the regulator that the controls employed will be adequate in all foreseeable circumstances.

It is not a process whereby the regulator takes over the responsibility for the safety of the railway operation by giving approval to the detail within operating systems.

At all times the responsibility for ensuring the safety of railway operations remains with the railway organisation.

There are four key areas that must be considered:

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- Track and Infrastructure fit for purpose, track bed, vertical and horizontal alignment. Safety alighting to and from the carriage at stations. Appropriate
- Rolling stock safe containment of passengers. Appropriate maintenance.
   Operation identification and management of risks. Competence and skill of staff.
- Management policies and procedures.

In addition to the systems and procedures required to eliminate or reduce risk, an assessment must include a register of potential risks. This register shall consider for each potential risk the:-

- likelihood of the risk eventuating.
- degree of harm as a result.
- reasonable knowledge of person(s) concerned.
- availability of ways to eliminate or reduce the risk.
- suitability of ways to eliminate or reduce the risk.
- cost to eliminate or reduce the risk.

All documentation must be stored and made available to the regulatory body. This includes the safety responsibilities, accountabilities, authorities and interrelationships of persons who manage or verify rail safety work, the test results from scheduled maintenance programs, to the financial capacity or public risk insurance arrangements to meet potential accident liabilities arising from railway operations.

It is not the role of the regulatory body to design the rolling stock or specify in detail the day to day operation of the rail system.

### Organisation Structure and Volunteers

The Australian Bureau of Statistics (ABS) publishes data quantifying the extent of volunteering within the Australian population. In 2010, 6.1 million people (36% of the Australian population aged 18 years and over) participated in voluntary work, with women (38%) more likely to volunteer than men (34%). The 2010 overall volunteer rate was up slightly from 34% in 2006; however this increase was not statistically significant.

Sport and physical recreation organisations were the most common type that people volunteered for (44% of male volunteers and 32% of female volunteers). The age groups with the highest proportions volunteering for these types of organisations were 35-44 years and 45-54 years (47% and 46% of volunteers respectively). People aged 65 years and over most comme only volunteered for welfare and community organisations (37%).

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	The operation of Heritage Railways around Australia invariably relies very heavily on volunteers. It is important that the organisational structure of the volunteer group is robust enough to undertake the responsibilities of Rail Infrastructure Manager and Rail Transport Operator.
	The roles can be defined under three categories, although individuals may volunteer in several categories. These categories are;
	<ul> <li>Management, including finance and fund raising.</li> <li>Administration and Semi-skilled operations.</li> <li>Skilled operation; infrastructure, track and rolling stock refurbishment and maintenance.</li> </ul>
	The Project will move through a Development Phase before reaching an Operational Phase.
	Management volunteers may include a high proportion of business and professional people still in full or part time employment. Financial, accounting and legal advice may be offered pro bono from within the community, particularly during the development phase.
	Many older Australians move to volunteering as a way of seeking satisfaction beyond the normal material gains they have received from long years in the workforce. These volunteers are often looking for activities which will offer new and stimulating experiences in a social atmosphere, and many will bring technical skills to the Project. This skills base is critical in the Operational Phase.
	No matter how much enthusiasm there is within the Management team during its Development Phase, the Project will struggle if it cannot attract sufficient skilled volunteers for its Operational Phase.
	Recruitment needs to focus on skilled volunteers who are able to pass on skills to other volunteers.

In a previous section it was identified that the Operational Risk Assessment should consider the "cost to eliminate or reduce the (potential) risk". If the cost to "eliminate or reduce the risk" cannot be met then this can be a showstopper putting the whole Project at risk or at

In its simplest terms financial management may be seen simply as efficient and effective management to achieve business vision and goals. In a commercial environment, time becomes an important element as the budget and cash flow are not only time-dependent, but may also be time-constrained. Labour resources may be varied to meet projected timetables, although this may come at additional incremental costs.

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Financial Risk Assessment

least stalling its progress.

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Where the Project has a high proportion of volunteers, time may not be the dominant dependency. The timetable will extend if the volunteer workforce numbers and/or the skillset is limited with little impact on the budget unless this delay impacts on ticket sales and other fundraising. This may be particularly applicable where the operation of the transway was to be a headline act at a celebratory event.

Expenditure will fall into two broad categories:-

- Capital,
- Recurrent Insurance, particularly Public Liability, will be a major, recurrent cost.
- Capital costs may be met by income from a range of sources including:-
  - Federal Grants
  - State Grants
  - Council Grants
  - Other Grants
  - Sponsorship
- Donations
- Other, including ticket sales and on-going fundraising.

An important aspect of fundraising is Deductible Gift Recipient (DGR) status granted by the Federal Government. Potential donors may be attracted by the tax-exempt opportunity.

In general, grants are not given for on-going, recurrent expenditure and this needs to be covered by sponsorship, donations, ticket sales and other fund raising activities.

Track and rolling stock maintenance will be primarily a function of usage, whereas building and other facilities maintenance will be more time dependant.

The high proportion of volunteers can skew the financial model, hiding the real cost of the operation or the liability, if the labour component cannot be met by skilled volunteers.

As the owner of the track infrastructure and facilities, and some of the rolling stock (locomotives), Council needs to be aware that it may be exposed to financial risk to maintain these assets if the other entities are unable to do so..

This risk increases as the operational frequency is increased and there is a commitment, or implied commitment, to a regular service throughout the day using a single locomotive.

Regular maintenance must be then scheduled out of hours and breakdown maintenance assumes a priority that comes at a premium, commercial price. Alternatively the service is irregular and confidence of the patrons is undermined.

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### NAMBOUR HERITAGE TRAMWAY - ISSUES PAPER

#### **Scenarios**

General

The scenarios considered in this Issues Paper are seen to represent the gamut of options of rolling stock, track & infrastructure (including passenger and public facilities), and the management and frequency of operation being considered by the Nambour Heritage Tramway Group.

The consideration of these Scenarios does not in any way endorse or recommend these Scenarios individually or collectively as a course or courses of action, but allows consideration of the wide range of issues that may be encountered in any future Scenario.

Passenger carriages were regularly used on the Nambour-Mapleton tramway, and intermittently on the eastern track along Howard Street to Coolum for special occasions up to the mid-1930s. These carriages, particularly those to Coolum, were open sided and would not meet the more stringent safety standards of today.

Given the heritage listing of the tram track and the houses at the former Moreton Mill site it is important that there are tangible links in the design of the rolling stock to the sugar industry and the particular role the Moreton Mill and the cane tram played in the development of Nambour.

These links may range from the authenticity of the rolling stock, including their colours and appearance, to the experience and celebration of milestone events. We should however be pragmatic in the selection of locomotive power as replica locomotives taking advantage of modern power sources and technology will be more sustainable in the longer term.

The obvious Scenario variations are type and form of the locomotive and the passenger rolling stock. This may lead to variations in the end of track facilities required, not only for storage and maintenance purposes, but also for staff and passenger amenity.

These scenarios are not necessarily mutually exclusive. Scenarios will evolve and within any period of a year or so several scenarios or events may occur. Whilst there will probably be a common Rail Infrastructure Manager, the different rolling stock scenarios may have different Rolling Stock Managers. This will certainly apply if there is a visiting locomotive using steam power which would be accompanied by its own Rolling Stock Manager and operational staff.

For planning purposes, the Scenarios are considered to evolve in three phases;

#### less than 5 years Short term

- Medium term -5 - 10 years Long term - more than 10 years.

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The following Scenarios are presented in the order described in the Discussion Paper 2. This is not the anticipated chronological sequence.

Scenario 1 is a stand-alone tram.

Scenarios 2, 3 &4 are locomotives pulling purpose-built passenger rolling stock. This rolling stock may be shared between each of these Scenarios. The description of this rolling stock is considered after the description of the individual Scenarios.

Additional track and other infrastructure will need to be provided beyond the ends of the existing track to support the management, storage, maintenance and running of any rolling stock. To maximise future opportunities the land requirements should be determined to meet the long-term uses. Outlines of the land and infrastructure requirements follow consideration of the passenger rolling stock.

Scenario 1 - Electric passenger Tram

Some members of the NHTG have aspirations for a single unit, battery powered passenger tram, running on a frequent, daily timetable along the heritage listed track. The batteries would be recharged using solar panels located on the storage facilities at the eastern end of the track. An example cited is designed and manufactured by Gromaco Trolley Co, lowa, USA.

An alternative designer/manufacturer is Severn Lamb (UK) who offer a wide range of rail rolling stock designs ranging from 15" to 3' gauge (380mm – 900mm) for theme parks around the world. Severn-Lamb manufactured the locomotives for Hong Kong Disneyland.

Recently, members of the NHTG have made enquiries with a foundry in Bundaberg regarding the design and manufacture of a tram based on a Melbourne cable car (similar to the Portland, Victoria tram), or an historical Brisbane "toast rack" tram.

This scenario would require a capital budget in the order of \$800,000. Whilst it may attract Grants and Sponsorship there will be little opportunity for a local volunteer component save the construction of the superstructure on a supplied chassis and bogie sub-structure. This may be able to be negotiated with the Bundaberg manufacturer.

It is assumed that this Scenario operation would require two shifts per day of 3 volunteers to operate the tram (skilled volunteers), together with management/administration/ticket sales staff (semi-skilled volunteers). Operating daily, this would require a pool of at least 60 volunteers which is comparable to the Portland, Victoria experience.

Additionally, track and facilities maintenance will increase with usage and additional volunteers and sponsorship will be required for this task. Furthermore, operating daily will require more stringent traffic control compared to running at events or once a month where manual traffic control and partial road closures might be applicable.

Recurrent expenditure including management salaries, vehicle maintenance, insurance, accreditation fees, consultant fees for review of SMS, additional track maintenance due to higher usage could be of the order of \$200,000 pa, although some of this could be offset by

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#### sponsorship and ticket sales.

This should be considered a medium to long-term Scenario after the establishment of Scenarios operating less frequently.

Scenario 2 - ex Moreton Mill Diesel Locomotive

Discussion Paper 2 identified several ex Moreton Mill diesel locomotives owned by Bundaberg Sugar that are apparently no longer in use by the company. An estimate was made that the cost of purchase and refurbilishment could be of the order of \$70,000.

Recently, it was announced that Bundaberg Sugar would give an ex Moreton Mill, diesel locomotive to Council. Whilst the detailed, overall condition of the locomotive is unknown at this stage, it is acknowledged that this is an important "gift" and is likely to bring forward in time this Scenario, if only for a special event with cane trucks but no passengers.

Revised budget for refurbishment is \$30,000. Some costs may be offset by sponsorship and volunteer labour.

This is probably the most achievable Scenario in the short-term. It could be used to generate and maintain interest in the overall project, attracting sponsorship and contributions in cash and kind.

Maintenance and insurance is estimated to be in the order of \$20,000 pa. Refurbishment and maintenance offset by sponsorship and volunteer labour.

Scenario 3 - ex Moreton Mill Steam Locomotive refurbished to diesel power.

The ex-Moreton Mill steam locomotive "Bli Bli" is currently stored on a plinth at the northwest corner of the Nambour. & District Historical Museum in Bury St, Nambour, overlooking the Coles development site, having been recently located on ex-Mill land off Mitchell Street. It had previously been on display in Muller Park off the David Low Way on the eastern side of the Maroochy River at Bli Bli.

It is not feasible to refurbish it as an operating steam locomotive. It could however be refurbished to be driven by a diesel engine. Much of the steel plate will need replacing.

Budget for refurbishment is \$80,000. Some costs may be offset by sponsorship and volunteer labour.

Maintenance and insurance is estimated to be in the order of \$20,000 pa. Refurbishment and maintenance offset by sponsorship and volunteer labour.

Scenario 4 - Visiting Steam Locomotive

Using designs licensed from John Fowler & Co Leeds (UK), eight "Bundy Fowlers" were constructed by the Bundaberg Foundry Co Ltd in 1952 and 1953.

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The steam engine "BFC5 - Bundy Fowler #5" operated at the Pleystowe Sugar Mill, Mackay, In 1971 it was donated to the Australian Narrow Gauge Railway Museum Society (ANGENS) at Woodford, Queensland, and restored to operation by volunteers. It is currently out of service for boiler tube renewal.

In 1997, during a week of centenary celebrations for the Moreton Mill, BFCS hauled cane from the Marshalling Yards to the Mill. It returned in August 1999 for similar duties. These events have been recorded on video.

In celebration of milestone events linked to the sugar industry, BFCS could be returned to Nambour. At these events it could pull either refurbished cane trucks (with cane but without passengers), or purpose-built passenger carriages.

#### Budget for a single visit is \$10,000 to cover costs of insurance, transport, cranage, coal and water supply and ash disposal. Some costs may be offset by sponsorship.

Passenger Rolling Stock

Passenger carriages will need to be purpose designed and built. The narrow gauge restricts the width of the carriages. There are many 610 mm gauge carriage designs currently in use throughout Queensland and virtually all have transverse seating arrangements. Access is gained to each passenger module directly from the side platform. This may not be acceptable to the safety regulator for a train operating in a road environment where access to and from the carriage may need to be more closely controlled.

The design of the carriage sub-structure needs to take into account the reduced track radii proposed at the eastern and western track extensions.

Budget for design and construction is \$100,000. Some costs may be offset by sponsorship and volunteer labour. The chassis / sub-structure may be commercially manufactured with the superstructure constructed by volunteers and sponsorship.

Maintenance and insurance is estimated to be in the order of 10,000 pa. Maintenance offset by sponsorship and volunteer labour.

Cane Trucks

For special occasions in celebration of Nambour's sugar industry past, a group of refurbished cane trucks loaded with cane would offer an authentic experience – probably only 10 or 12 carriages. They could be towed by locomotives in either Scenario 2, 3 or 4. They may be owned locally and refurbished, or they may be loaned from an operating Mill for the specific occasion. In the latter case the provision and transport of the cane trucks to Nambour may be sponsored.

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Additional Land, track & Infrastructure

None of the above Scenarios can operate without additional land being provided for a terminus at both ends of the heritage-listed track. Additionally, storage and maintenance facilities will need to be provided at one end.

Operationally, the locomotive will be required to pull the carriages, not push. Pulling reduces the risk of derailing the carriages. Pulling gives the greatest visibility in a pedestrian environment. The locomotive will need a passing loop at both termini to pass to the other end of the carriages. This also includes two sets of track points. The passing loop would not be required for Scenario 1, the single-unit tram as it would be designed to be driven from either end.

Locomotives both steam and diesel can operate as effectively in either forward or reverse gear and there is no performance advantage one over the other. A diesel locomotive and a steam locomotive without a coal tender both offer greater visibility in reverse gear.

Aesthetically, it would be more appealing to have the locomotive in forward gear for both directions but this can only be achieved at a significant cost.

# To pull in forward gear both ways would require a turntable at both the eastern and western ends.

This may be problematical at the western, Mill site end where the site is constrained. Manoeuvring will need to be within a safe environment.

At the western end, additional land would need to accommodate as a minimum, a track extension, a passing loop with two sets of points, and a station platform. The Nambour Heritage Transway Group is investigating a widening of the Mill Lane extension road reserve to the boundary of heritage listed house in Mill Street. Careful consideration needs to be given to the safe operation of a station, passing loop and rail points in a public road reserve environment.

If the widening of the Mill Lane road reserve is insufficient to safely accommodate the rail terminus functions then the whole project is at risk. Additional land may need to be purchased.

To the south there is a further parcel of land proposed as part of the Coles' development, immediately west of the heritage-listed, former Mill Manager's house in Bury Street. This proposed parcel, greater than 1,000 m<sup>3</sup> will be offered to the market as a commercial development site.

If purchased, this area would be in excess of the requirements for the terminus and the residual could be made available for some other public or commercial function.

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#### Budget for land and rail terminus facilities at the Western end required.

At the eastern end of the track, Bundaberg Sugar has considerable land holdings formerly used for the marshalling yards. The land has been on the market for some time. Some parcels are flood prone. The Draft Sunshine Coast Planning Scheme designates the land as Medium Density Residential.

For each scenario, and additionally for the passenger rolling stock, the requirement would be for a shed 18m x 6m, i.e. say 18m x 30m under cover if all scenarios are to be supported. Staff facilities would be required.

Additional land required for offloading rolling stock and turning around locomotives (turntable) and parking. Land requirement would be at least 2000 m<sup>2</sup> plus corridor access.

For the visiting steam locomotive, provision needs to be made for coal and water loading, and ash disposal facilities.

Budget for land and rail terminus facilities at the Eastern end required.

Total terminus facilities and land requirements attract preliminary estimated cost of \$1,800,000.

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Scenario Locomotive Summary

Locomotive:	New, Purpose-built tram; heritage design.			
Frequency / Hours:	To a daily timetable.			
Staff:	Minimum 3 operational staff plus management.			
Rolling Stock Management:	would require some full-time, paid staff to manage the			
	workload. On-going training programs would require			
	"professional" trainers.			
	Estimated capital cost \$800,000			
Scenario 2a (with Cane	trucks) & Scenario 2b (with passenger carriages)			
Locomotive:	Ex Moreton Mill diesel locomotive Petrie			
Frequency / Hours:	Monthly, 10 times per annum			
Staff:	2 volunteer crews per day (min 5 persons), short shifts.			
Rolling Stock Management:	refresher training and briefing required before each			
	shift and debriefing after shift as part of the SMS.			
	Estimated capital cost \$30,000 (excl carriages)			
Scenario 3				
Locomotive:	Ex Moreton Mill steam Bli Bli locomotive converted to diesel			
Frequency / Hours:	Monthly, 10 times per annum			
Staff:	2 volunteer crews per day (min 5 persons), short shifts.			
Rolling Stock Management:	refresher training and briefing required before each			
	shift and debriefing after shift as part of the SMS.			
	Estimated capital cost \$80,000 (excl carriages)			
Scenario 4				
Locomotive:	Visiting Steam locomotive, e.g. BFCS from Woodford			
	Museum.			
Frequency / Hours:	Special Occasions or celebrations.			
Staff:	Volunteer crews with locomotive. Additional local volunteers			
	required for track management.			
Rolling Stock Management:	refresher training and briefing required before each shift and			
	debriefing after shift as part of the SMS.			
	Estimated capital cost nil			

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Period	Item	Action by <sup>7</sup>	Comments
	Legal and financial review	Council	Project due diligence.
	Expressions of Interest from Community not-for-profit groups.	Council	Publically invite submissions
	Secure land at both ends of track.	Council	Negotiate with owners
	Build workshop, storage& loop at	Community	
	eastern end, loop and station at	Sponsors	Refurbish & extend tracks.
	western end. Refurbish track.	Council	Workshop possibly
Stage 1	Refurbish Ex Moreton Diesel &	Community	with sponsorship.
	Cane trucks.	Sponsors	
Short Term <s td="" years<=""><td>Develop interim SMS<sup>8</sup> and agreements for Scenario 2a with cane trucks.</td><td>Community Council/State</td><td>Scenario 2a with cane trucks for promotional &amp; celebratory events</td></s>	Develop interim SMS <sup>8</sup> and agreements for Scenario 2a with cane trucks.	Community Council/State	Scenario 2a with cane trucks for promotional & celebratory events
	Build passenger carriages	Community Sponsors	Capacity to match tourist bus, nominally S0 passengers.
	Develop SMS <sup>8</sup> and agreements for Scenario 2b with passenger carriages including traffic control	Community Council/State	Probably requires external, professional, expert advice.
	Commence regular operation of	Community	Monthly operation for
	Scenario 2b with passengers	Sponsors	Scenario 2b
	Refurbish ex-Moreton steam locomotive <i>Bli Bli</i> to diesel operation.	Community Sponsors	Workshop possibly with sponsorship.
Stage 2	Develop SMS <sup>8</sup> and agreements for	Community	Probably requires external,
	Scenario 3.	Council/State	professional, expert advice.
Medium 5-10 years	Commence regular operation of Scenario 3 with passengers.	Community Sponsors	Monthly operation for Scenario 3
	Develop SMS <sup>8</sup> and agreements for	Community	Scenario 4 for promotional &
	Scenario 4.	Council/State	celebratory events
Stage 3	Manufacture vintage tram for Scenario 1	Community Sponsors	Bogeys & sub-structure commercially built. Superstructure possibly by volunteers with sponsorship.
Long	Develop SMS <sup>8</sup> and agreements for	Community	Probably requires external,
>10 years	Scenario 1 including traffic control	Council/State	professional, expert advice.
1.1 100.3	Commence regular operation of Scenario 1 with passengers	Community Sponsors	Regular operation for Scenario 1

Table 3 Development Sequence

<sup>7</sup> In the context of this Table, the term Sponsors includes Cash Grants from all sources as well as donated material and labour. The term Community includes the approved Management Entity, volunteers and professional pro soon advice.
<sup>8</sup> SMS - Safety Management System

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Item 7.1.1	Nambour Heritage Tramway Issues Paper Report
Appendix A	Nambour Heritage Tramway Issues Paper

## NAMBOUR HERITAGE TRAMWAY - ISSUES PAPER

# **Operation Summary**

Scenario	Locomotive	Rol Sto opti	ck <sup>3</sup>	Operational Frequency	Comments
1	Tram	Nil	Nil	Daily	Purpose built tram - heritage design
2	Diesel	P	C	Monthly	Ex-Moreton Mill diesel Petrie
3	Ex-Steam	P	C	Monthly	Ex-Moreton Mill steam loco , to diesel
4	Steam	Р	C	Annual	Steam loco from Woodford Museum

Table 4 Operation Summary

Expenditure Summary

2 [	*	Plan	<sup>11</sup> Value	Capital \$	Recurrent \$ pa	
3 E	Tram	L	Low	\$800k	\$200k	1
	Diesel	S	High	\$30k	\$20k	1
4 5	Ex-Steam	M	Medium	\$80k	\$20k	
	Steam	м	High	Nil	\$10k	1
Scenario	Rolling Stock	Plan	Heritage Value	Capital \$	Recurrent \$ pa	Comments
2,3&4	P- passenger	s	Low	\$100k	\$10k	Purpose built passenger carriages.
2,3&4	C-cane truck	s	High	\$20k	ŞSk	Refurbished cane trucks (non-passenger)
			ck and structure	Capital \$	Recurrent \$ pa	Comments
		East	ern end	\$1,000k	\$5	Maintenance and services to storage/workshop
		Wes	tern end	\$800k	\$1.5k	Maintenance of track & points on passing loop
		1	rack	\$500k	\$8k	Including traffic control
		1	otal	\$3,330k	\$279.5k	Offset by sponsorship and volunteers.

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	Item	Action by	Capital	Recurrent
	Legal and financial review	Council		
	Expressions of Interest from Community not-for-profit groups.	Council		
	Secure land at both ends of track.	Council	\$1,400 k	
	Build workshop, storage& loop at	Community		
	eastern end, loop and station at	Sponsors	\$900 k	\$5 k pa
	western end. Refurbish track.	Council		
Stage 1	Refurbish Ex Moreton Diesel & Cane	Community	4100	4201
profe v	trucks.	Sponsors	\$50 k	\$20 k pa
Short	Develop interim SMS <sup>12</sup> and agreements	Community		
Term	for Scenario 2a with cane trucks.	Council/State		
<s td="" years<=""><td>Build passenger carriages</td><td>Community</td><td>\$100 k</td><td>\$10 k pa</td></s>	Build passenger carriages	Community	\$100 k	\$10 k pa
	Build passenger carriages	Sponsors	\$100 K	\$10 K Da
	Develop SMS <sup>32</sup> and agreements for	Community		
	Scenario 2b with passenger carriages	Council/State		
	including traffic control	CouncilyState		
	Commence regular operation of	Community		
	Scenario 2b with passengers	Sponsors		
	Sub-Total		\$2,450 k	\$105 k ov 3 years <sup>13</sup>
	Refurbish ex-Moreton steam locomotive	Community	\$80 k	
	Bli Bli to diesel operation.	Sponsors		
	Develop SMS <sup>12</sup> and agreements for	Community		
Stage 2	Scenario 3.	Council/State		
	Commence regular operation of	Community	1	· · · · ·
Medium	Scenario 3 with passengers.	Sponsors		
5-10 years	Develop SMS <sup>12</sup> and agreements for	Community		
	Scenario 4.	Council/State		
	Sub-Total		\$80 k	\$175 k ove 5 years
	Manufacture vintage tram for	Community	\$800 k	\$200 k
	Scenario 1	Sponsors	2000 K	
Stage 3	Develop SMS <sup>12</sup> and agreements for	Community		
-	Scenario 1 including traffic control	Council/State		
Long	Commence regular operation of	Community		
>10 years	Scenario 1 with passengers	Sponsors		
Pao years			\$800 k	\$235 k p
vao years	Sub-Total		3000 K	5255 K p

### NAMBOUR HERITAGE TRAMWAY -- ISSUES PAPER

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TING ambour Heritage Tramway Issues Paper Report ambour Heritage Tramway Issues Paper	27 FEBRUARY 2014
NAMBOUR HERITAGE TRAMWAY – ISSUES PAPER	
References	
Publications from Sunshine Coast Libraries,	
Heritage Collection, Nambour.	
Moreton Sugar Mill Sweet Heort of Nambour - Berenis Alcorn and Ro	bin Dunn
The Mapleton Tramway - John Knowles	
Built by Baldwin - Craig Wilson Making Maroochy - Helen Gregory	
Internet References & Links	
Queensland Acts & Regulations	
Queensland Heritage Act 1992	
www.legislation.qld.gov.au/LEGISLTN/CURRENT/Q/QldHeritageA92.pl Queensland Heritage Regulation 2003	<u>or</u>
www.legislation.qld.gov.au/LEGISLTN/CURRENT/O/QldHeritageR03.pd	df
Transport (Rail Sofety) Act 2010. www.legislation.gld.gov.au/LEGISLTN/ACTS/2010/10AC006.pdf	
Transport (Roil Safety) Regulation 2010	
www.legislation.gld.gov.au/LEGISLTN/CURRENT/T/TrantRailR10.pdf	
Transport Operations (Road Use Management) Act 1995. www.legislation.gld.gov.au/legisltn/current/t/trantoprua95.pdf	
Transport Operations (Road Use Management-Road Rules) Regulation 2009	
www.legislation.qld.gov.au/LEGISLTN/CURRENT/T/TrantOpRURR09.pd	<u>af</u>
Planning Schemes Maroachy Plan 2000	
www.sunshinecoast.qld.gov.au/sitePage.cfm?code=maroochy-plan	
Draft Sunshine Coast Planning Scheme 2012	
www.sunshinecoast.qld.gov.au/sitePage.cfm?code=sc-planning-schen	ne
Policies	
Road and Rail Crossing Interface Agreements – Guidance Manual	
www.tmr.gld.gov.au/~/media/Safety/railsafety/GuidanceManual1309 Road and Rail Crossing Interface Agreements – Template	11V5.pdf
www.tmr.qld.gov.au/~/media/Safety/railsafety/InterfaceAgreement1	90911V4.pdf
SCC Policy Register (Internal Council link)	
http://collaboration/sites/topics/policies/Documents/Forms/Policy%2 lew.aspx	ORegister%20V
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	NAMBOUR HERITAGE TRAMWAY – ISSUES PAPER	
	Place Making (Internal Council Documents) SCC Place Making Policy http://collaboration/sites/topics/Placemaking/Documents/Place%20Makin SCC Place Making Charter http://collaboration/sites/topics/Placemaking/Documents/Place%20Makin SCC Place Making Guidelines http://collaboration/sites/topics/Placemaking/Documents/Placemaking%2	g%20Charter.pdf
	Narrow Gauge Heritage Rail in Australia The Australian Narrow Gauge Railway Museum Society (ANGRMS), Wood www.angrms.org.au/ The Australian Sugar Cane Railway (ASCR), Bundaberg www.glotaliberitage.com/ascr/ The Bally Hooley Steam Railway, Port Douglas www.balt/hooley.com.au/ The Ginger Factory, Yandina, www.gingerfactory.com.au/park-information/ginger-train Drearnworld on the Gold Coast www.drearnworld.com.au/Rides/Family-Rides/?tileid=6339407229 The Big Pineapple, Woombye. www.bigpineapple.com.au/big-pineapple-train-ride/	
	Other Heritage Rail Sites, Australia Portland Cable Trams www.portlandcabletrams.com.au Brisbane Tramway Museum www.brisbanetramwaymuseum.org/ Bendigo Tramways www.bendigotramways.com/	
	Photos from the Sunshine Coast Library http://library.sunshinecoast.old.gov.au/sitePage.cfm?code=picture-sunshi	ne-coast
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Attachm	A Nambour Heritage Tramway Issues Paper Report I Discussion Paper No 1 Sunshine Coast Council	
	Nambour Heritage Tramway 🛛	Inside this issue
	Discussion Paper No 1	Introduction (Environment of Environment of Environ
	Introduction At the Ordinary Meeting of Council on 13 December 2012, Council re- solved, inter alia, that a report, including an issues paper, be presented to Council regarding the development of the Nambour Tramway utilising the	Loost Internet of the Segar Care In- dustry, Sankine Care Tamina 1 Heritage Using Times 3 Legislative Requirements 3 According Names Gauge Transien, Denomical Annone Gauge Transien,
	existing heritage#listed sugar cane locomotive line. <sup>31</sup> Whilst the historical aspects of the sugar industry on the Sunshine Coast and the role of cane trains and associated infrastructure are the basis for the heritage listing of the rail line in Mill Street and Howard Street, Nam- bour, they will not be dealt with in great depth in this paper. There are several excellent documents available in Council's libraries and on the worldSividewbe buthored by people with a passion for history and the local area. B	Photo Rumou Gauge Transitive: Disconsistent Microtio Mil (pomothers)87 Proceeding Stock87 Microtive Hist 2000100 Divit Stanker Cast Planning Scheme101 Microtivers101
	This Discussion Paper is the first in a series of papers to be prepared to inform interested persons and organisations on the progress of investigations, and to invite contributions to the debate and to the final Issues Paper. <sup>2</sup>	
	Council Resolution That Council request the Chief Executive Officer, in consultation with the Divisional Councillor, to bring to Council a report including an issues paper for the develop- ment of the Nambour Tramway utilising the existing heritage listed sugar cane locomotive line with such reports to cover the following. <sup>33</sup>	
	<ul> <li>outline of the proposal?</li> <li>proposed ownership and operations of rolling stock??</li> <li>route alignment;??</li> <li>property tenure issues;??</li> <li>essential infrastructure required;??</li> <li>planning and approval issues;??</li> <li>key stakeholders and any agreements required;??</li> <li>community aspirations and limitations;??</li> <li>construction (Capital Costs);??</li> <li>operating costs;??</li> <li>revenue potential; and?</li> <li>operating costs;??</li> </ul>	

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Milestonest	Brief History of the Sugar Cane Tramway,
897.2 First Crush, initially hauled by horses to the MILT	Sunshine Coast
1042 First steam locomotive pur- chased by the MILD	For the initial crush of 1897, drays and horse teams were used to haul cane to the cane carrier at the Mill or to waiting trucks on the one and a
343 Marooshy Stire takes over the Dulong line 3	half miles of tramline. Horses continued to be used over the years on permanent and temporary tram lines and on the road network until they were eventually phased out by 1922.3
9157 Maraochy Sive extends line to Mapleton using two Shay loco-	In 1904 the first steam locomotive was purchased signalling the transi-
motives.3 9227 Haulage by horses phased out.1	tion to steam power. Steam continued to be the power of choice until the general transition to diesel power across all rail networks in Australia
920's Tram lines extended eastwards to serve new plantings.®	in the 1960's.2
9272 Trams carrying passengers to Marbochydore and Coolum.2	The tram line west of the Mill to Dulong was taken over by Maroochy Shire in 1914. The Shire extended the line to Mapleton and by August
P352 Passenger services to Coolum and Maroochydore discontin-	1915 a reliable service was running bringing timber, farm produce and passengers to the Nambour railhead. The rolling stock included the Shay
Chu	gear@triven steam locomotive, two passenger carriages, and eleven goods and livestock wagons, @
9483 Marsochy Shire closes the Mapleton line. Mil takes over cane haolage from Perwälswen	Council controlled all the lines west of the mill, and the running rights
and Burnside.If	over various lands. Council purchased a second Shay locomotive also in
9583 Marshaling yards developed aff Howard Street.3	1914. Cane was being phased out at Dulong but was still hauled by the Mill from Perwillowen and Burnside. <sup>33</sup>
9672 Steam powered locamotives decommissioned.2	The Mapleton line was closed by Council at the end of 1944. The Mill
9708 Last care train from Burnside due to increasing urbanization.3	purchased the rail assets and dismantled the line beyond Burnside. The Nambour to Burnside cane tram line remained in operation until the end
9972. A steam locomotive from the Woodford Museum (BICS)	of the 1970 crushing season, and then the rail was dismantled in 1971 due to the increasing pressure from urban development in the Burnside
hauled care to the Mill from the marshalling yards cele-	area.3
brating the centerlary for a week in August /!	In the 1920's the Mill continued to extend the tram lines to east of Nam- bour to service new plantings. Trams were carrying passengers en route
999 TBFCS revisited. Recorded on youtube, 11	to Maroochydore and Coolum in 1927 but these services "were not pay- ing their way". Revenue from the carriage of passengers and freight on
003 SLAST CRUSH , Thursday, 4 De- cembert2	the Coolum line continued to diminish and was almost non@existent in July 1935 when the service was discontinued. The services to Maroochy
	River continued on Wednesdays and Saturdays, but by 1936 locomotives and carriages were not made available for community groups. <sup>20</sup>
	In 1953, the Company developed a marshalling yard off Howard Street
	after the Maroochy Shire insisted that the shunting loop in Howard Street should be relocated due to traffic congestion. ${\rm I\!B}$

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ORDINARY MEETING Item 7.1.1 Nambour Heritage Tramway Issues Paper Report Attachment 1 Discussion Paper No 1 27 FEBRUARY 2014 The steam powered "Moreton" was decommissioned in 1967 after sixty@three years of service. By October 1967 the steam powered "Petrie", "Bli Bli" and "Valdora" were also out of service. The names of the steam engines not in use were transferred to diesel locomo tives.28 The Company's 1967 Christmas card included a photo of "Coolum" and entitled "the Last of Steam". In 1968 during a visit by the Aus-tralian Railway Society a steam locomotive hauled cane to the Mill rom the marshalling yard.2 Whilst many requests were received for the for the decommissioned steam locomotives from as far afield as California, USA, the locomo-tives surplus to the MIII's requirements were promised to local organisations within Maroochy Shire.8 0 The Australian Narrow Gauge Railway Museum Society at Woodford, Qld (ANGRMS) owns and operates the Bundy Fowler #5 steam loco-motive (BCF5) which, for a week in August 1997 took part in the Moreton Mill centenary hauling trains from the marshalling yard to the Mill.® 1999 BFC5 BFC5 re-turned hauling cane from the marshalling yards to the mill; 2 3 3 outube.com/watch?v=9NOBilixRvcR Thursday 4 December 2003 saw the completion of the last crushing season for the Moreton Sugar Mill in Nambour, ending an era for the sugar industry on the Sunshine Coast that lasted for 106 years. The events of this last crushing season have been captured for posterity in the documentary of "The Last Crush" produced by the University of the Sunshine Coast for Maroochy Shire Council. This film was funded through a State Library of Queensland Innovation Grant and the DVD is available for purchase from Council library. 

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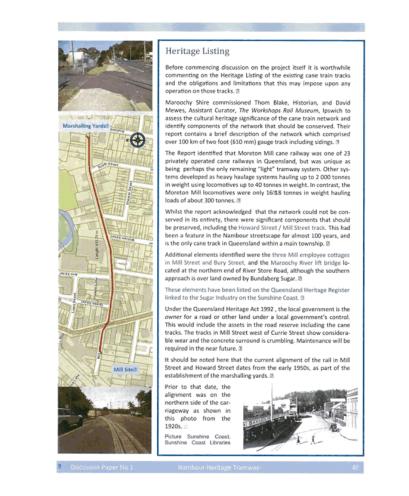
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Legislative Requirements Key Issues from Guide The conduct of rail operations within Queensland is subject to the 1.2 Establish appropriate Govern-ance, Management, Accounta-billites, Responsibilities and Authorities for the Manage-ment Committee which may include? Leadership? Financial? Resultance? Transport (Rail Sofety) Act 2010. This Act is administered by the Depart-ment of Transport Main Roads. This Act, together with the Work Health and Sofety Act imposes duties and obligations on rail transport operators and workers including State owned entities.2 The Act also requires for a system of accreditation to ensure that the rail operators have the competence and capacity to operate their system safely and to manage the risks associated with rail operations.  $\!\!\!\!\!\!\!$  Financial
 Regulatory@
 Safety@
 Operational?
 Infrastructure?
 Rolling stock@ The Act does not apply to a railway that is operated solely within an amusement or theme park and does not operate on or across a road. Cane railways are also exempt from the Act which, by definition do not carry passengers or freight other than sugar cane products. 2 2... Develop an effective Safety Policy communicated throughout the organisation 2 Further requirements in support of the Act are contained within the Transport (Rail Safety) Regulation 2010. 3.11 Regulatory Compliance. Systems The Rail Safety Regulators' Panel (RSRP) consists of the Rail Safety Regmust be in place to ensure Regu-latory Compliance.® ulators from all States, the Northern Territory and New Zealand. The key role of the RSRP is to provide advice to the Safety Standing Sub2 Committee (Safety SSC) and National Transport Commission (NTC) on 4.1 Docum ent and info Document and Information Management. All rail safety doc urnents must be approved and reviewed before they are issued A Document Register must be maintained.8 rail safety regulatory issues to help enhance safety and regulatory outcomes consistent with the collegulatory framework. Comes consistent with use coargeneory animates and a set of the se 5.2 Annual Review of SMS. The Review shall include performance against goals and measures; tional Model Rail Safety Legislation. 2 Safety alerts, directions or prohi This document aims to help operators understand the overarching re-quirements of an SNAS and is intended as a guide only. It is not legally binding but it has legal effect once each jurisdiction enacts its own leg-islation.2 notices since the last re new.B 6.2 Safety Performance Measures and Reports. An operator must give the Rail Safety Regulator a safety performance report for each reporting period.2 Applications for accreditation may be to carry out railway operations a rail infrastructure manager or as a rolling stock operator, or both. $\ensuremath{\mathbb{B}}$ ns as This includes for the following railway operations: Infrastructure: construction, management, commissioning, mainte-nance, repair, modification, installation, operation, decommissioning3 7.2 Safety Audits using Audit Check lists and Audit Report Form.2 Rolling stock: construction, commissioning, maintenance, repair, modification, decommissioning, operation or movemer eration or movement by any means on a railway.3 ovement or causing the op-8.8 Corrective Actions to be app priately prioritised, assigned and implementation monitored.8 http://www.rsrp.asn.au/files/publications/23\_44.SMS%20Guidance% B Discussion Paper No 1 Nam

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 Private Narrow Gauge Tram Lines, Qld

 There are several narrow gauge lines which operate entirely within them parks or other private land, and as such do not require accreditation by the Department of Transport Main Roads under the Transport (Bill Sofety) Act 2010. They do however need to comply with the Work Health and Sofety Act. Several sugar cane locomotives are running in theme parks.

 Image: Imag

dens.8 http://www.gingerfactory.com.au/park8nformation/ginger8train8

Dreamworld on the Gold Coast operates two steam powered locomotives. The 1951 Perry was operated by the Bingera Mill, north of Bundaberg until the 1970's. It has been heavily "Americanised" with a large cowflatcher. The 1917 Baldwin (US) originally operated at the Racecourse Mill, Mackay. It was relocated to Dreamworld in December 1981 and converted to an oil burner. 3 http://www.dcaamworld.com.au/Rdew/Familu/Bildes/?

http://www.dreamworld.com.au/Rides/FamilyiRides

The Big Pineapple train operates on a one kilometre track taking allowing visitors to see tropical fruits under cultivation. Commencing at Christmas 1971 it used a succession of secondBand Ruston model diesel locomotives one from the Bingera Sugar Mill and another from Caledonian Colliery, South Maitand. In 1977, E.M. Baldwin, Castle Hill, NSW supplied a further locomotive based on a Ruston frame and wheelsets. Using the Pineapple's Bingera Mill Ruston frame and wheelsets Baldwin delivered a mechanically similar locomotive to the first but with cosmetic extras to add to the tourist appeal.<sup>2</sup>

http://www.blgpineapple.com.au/blgfpineapple@rain@ride/@

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eam Locomotives	Moreton	Mill Locomotive	25					
043 Moreton purchased, decom- missioned XJV 19678			two categories: pre 1960s steam although there were several ear-					
508 abulong Shoy 8			d locomotives used for mainte-					
914T Mapleton, Shoy in 1948	nance or yard	work. <sup>2</sup>						
Dulong was cannibalized for	Further resear	ch is needed to definiti	vely locate all examples of rolling					
parts. Decommissioned		stock associated with the Moreton Mill. From the Light Rail Research Society of Australia Inc website the following information has been						
1960.9		stralia Inc website the	following information has been					
114 il Nambour purchased, then renamed Manoochy in 1922.	extracted.28							
Decommissioned 1963.0	Steam Locom	notives3						
41 Coolum purchased, Decore- missioned in 1970.3.	Name®	Builder/ date2	Current Location?					
57 Eudo purchased. Decommis-	Moreton <sup>3</sup>	Krauss / 1901	Ginger Factory, Yandina <sup>1</sup> 3					
sioned in 1970. It	Shay(3	Lima / 1908, 1948%	Nambour Museum <sup>2</sup>					
<li>Valdora (c 1893) purchased from Racecourse Mill, Mac-</li>	Maroochy3	Hudswell Clarke /	Narangba®					
kay, Decommissioned 1964.0	Coolum	Fowler / 19233	Eudlo 3					
33 (M BII (c 1913) purchased from Babinda Mill 1960.	Eudlo?	Fowler / 19253	Nambour Museum <sup>27</sup>					
Decommissioned 1967.8	Valdora[]	Dick Kerr / 18933	Nambour Museum <sup>23</sup>					
Petrie (c 1933) porchaiad	Bli Bli2	Fowler / 19153	Nambour Museum <sup>2</sup> 3					
from Babinda Mill 1960. Decommissioned 1967, 11	Petriel							
	Petries	Fowler / 19333	Geelong, Victoria?					
	Diesel Locom	otives						
	Name®	Builder/ date®	Current Location®					
	Maroochy3	E M Baldwin / 19643	Eudlo 🗵					
	Valdora3	E M Baldwin / 1965	Bundaberg Botanic Gardens 42					
	Dunethin3	Com/Æng / 1958 /	Bingera Mill <sup>5</sup> 12					
	Bli Bli2	E M Baldwin / 1965	Bingera Mill 5					
	Petrie	E M Baldwin / 19683	Bingera Mill <sup>5</sup> 7					
	10							
		hydraulically with diesel engine i It Historical Museum Association						
		red , privately owned.ft						
		ine Railway, Bundaberg Botanic	Gardens Railway JB					
			s apparently now out of service. <sup>3</sup>					

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ORDINARY MEETING Item 7.1.1 Nambour Heritage Tramway Issues Paper Report Attachment 1 Discussion Paper No 1 27 FEBRUARY 2014 Passenger Rolling Stock ur Chron cle and North Coast Advertiser 212 October 1923 Zextract.2 Passenger rolling stock was used regularly on the Mapleton line by Council, and irregularly by the Moreton Mill on the Coolum and Deepof trains left Brisban Jost 9 s.m. and 9.30 Subser at 11 water lines.<sup>[2]</sup> ----Coolum carriages about to leave Nambour, c 1917 .2 There doesn't appear to be any drawings available of these carriages? Ø 0 Ø On occasions, improvised seating was provided, something that would not be allowed under accreditation ( see adjacent extract from Nam-bour Chronicle).<sup>20</sup> The rail gauge is a limiting factor to the overall width of the carriages. 3 2 13 The adjacent draw-ings are by Jim Fainges. 🛙 They depict passen-ger carriages that operated on a 2' 0" . gauge.⊠ 0 The Buderim Tram-way operated on a 2' 6" gauge.® 171 ß 12 12 R B Discussion Pr

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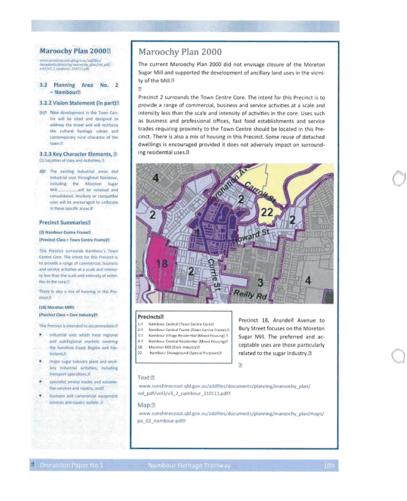
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ORDINARY MEETING Item 7.1.1 Nambour Heritage Tramway Issues Paper Report Attachment 1 Discussion Paper No 1

References:	
The photos on pages 1,2,3,4 & 9 are produced with permission from the Sunshine Coast Library®	
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Other web sites accessed are 🗵	
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Nambour.28	
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■ Moreton Sugar Mill Sweet Heart of Nambour 図図	
B Berenis Alcorn and Robin Dunn	
The Mapleton Tramway 8 2 John Knowles?	
전 Built by Baldwin 전 전 Craig Wilson전	
Making Maroochy 23 Z Helen Gregory	
Nambour Heritage Tramway 12!	

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ORDINARY MEETING Item 8.4.1 Nambour Heritage Tramway Project Update Attachment 4 Nambour Tramway 2015 Feasibility Analysis **31 JANUARY 2019** 

ORDINARY MEETING Item 7.1.1 Nambour Heritage Tramway Issues Paper Report Attachment 2 Discussion Paper No 2 27 FEBRUARY 2014 Sunshine Coast Council Nambour Heritage Tramway Previous issue (No 1) **Discussion Paper No 2** ouncil Resolution® Introduction Brief History of the Sugar Cane In Justry, Sumhine Coastillition At the Ordinary Meeting of Council on 13 December 2012, Council re-Hardage Usive Butternerstering solved, inter alia, that a report, including an issues paper, be presented to Council regarding the development of the Nambour Tramway utilising the existing heritage@isted sugar cane locomotive line.@ This is the second of a series of Discussion Papers prepared to inform interested persons and organisations on the progress of investigations, and to invite contributions to the debate and to the final Issues  ${\sf Paper}$ per Rolling Stock chy Flan 2000 . The resolution made reference to community aspirations and limitations. To this end the local councillor invited persons from the local business community and other organisations to form an interest group to canvass community opinions and to discuss and consider the options. It Inside this issue The Nambour Heritage Tramway Group was formed at a meeting on 13 March 2013. Paul Moriarty was elected as Chairperson and Michael Foley Legislative II General as Secretary. 🛛 writage Act & Regulation ransport (Rail Safety) Act Whilst the Council resolution referred to the utilisation of the existing her-National Regulations itage listed sugar cane locomotive line, it must be said at the outset that Roat Use Manager additional track and other infrastructure will need to be provided beyond the ends of the existing track to support the management, storage, RUM It Road Pulles

> To determine the extent of this additional infrastructure requires considreation of a scenario, or a series of scenarios, particularly with respect to rolling stock. To a large extent, much of the track infrastructure including stations, storage and maintenance facilities, and traffic control will be common to all scenarios.2

> The variables considered in developing these scenarios include not only

maintenance and running of any rolling stock.®

legal and financial liability of the managing parties.

the rolling stock and other infrastructure but also the governance, and This Document is for discussion only and is not Council Policy.®

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Transport Infrastructure Act

safety Management System

Rolling Stock -Locor Rolling Stock—Passenger Rolling Stock—Operation

Track & Indrastructure

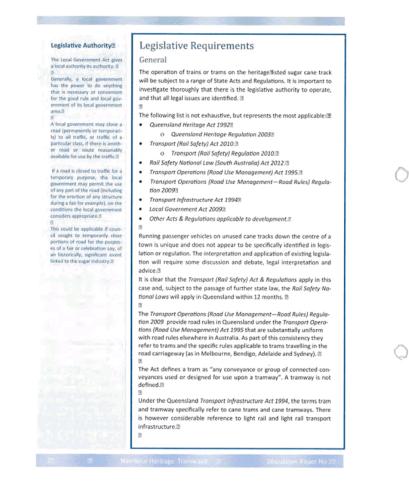
Track Management

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#### ORDINARY MEETING Item 8.4.1 Nambour Heritage Tramway Project Update Attachment 4 Nambour Tramway 2015 Feasibility Analysis

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 Queensland Heritage Act & Regulations The object of this Act is to provide for the conservation of Queensland's
 Image: Constraint of Constraints o

The object of this Act is to provide for the conservation of Queensland's cultural heritage for the benefit of the community and future generations. This is achieved by regulating, in conjunction with other legislation, development affecting the cultural heritage significance of Queensland heritage places.  $\ensuremath{\mathbb{B}}$ 

It should be noted here that the legislation consistently uses the term place to define or identify land that is historically significant. It may be held on two or more titles and includes any features and their immediate surrounds that may be on the land. A feature may include a part or whole of a building or structure, an artefact including an archaeological artefact, a precinct, or a natural or landscape feature.<sup>(3)</sup>

The Act promotes heritage agreements to encourage appropriate management of Queensland heritage places, and provides appropriate enforcement powers to help protect Queensland's cultural heritage. Heritage places are defined spatially and include objects within that defined space.<sup>20</sup>

Under the Act, the local government is the owner for a road or other land under a local government's control. This would include the assets in the road reserve including the cane tracks. The exception would be the public utilities such as drainage, electricity, gas, sewerage, telecommunications or water.

The portion of roadway 1.5 metres either side of the centre of the cane tracks within the Howard Street and Mill Street road reserves, and the their intersection with Currie Street, is registered as a heritage place.

Entry in the Queensland Heritage Register does not exclude changes, additions or the construction of new works, provided the work does not detract from the heritage values of a place.<sup>20</sup>

Owners of heritage places are not obliged to fully restore their property/Bhowever, owners are advised to maintain their place to ensure it is protected from serious or irreparable damage or deterioration. The tracks in Mill Street west of Currie Street show considerable wear and the concrete surround is crumbling. Maintenance of the surrounds will be required in the near future. 2

The registration of the two former mill cottages in Mill Street extends to the road centreline and therefore includes the footpath mounted, cane train warning sign in Mill Street.  $\otimes$ 

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Tracks pass through the William Street roundabout on Howard Street.2



eason" position.8

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Transport (Rail Safety) Act 2010. Accreditation The conduct of rail operations within Queensland is subject to the Requires? Transport (Rail Safety) Act 2010. This Act is administered by the Depart-ment of Transport and Main Roads. This Act, together with the Work Health and Safety Act imposes duties and obligations on rail transport Safety Man nt Sys tems (SMS),2 operators and workers including State owned entities.23 SMS suitable and suffic The Act also requires for a system of accreditation to ensure that the rail for their operations, and It operators have the competence and capacity to operate their system • that the management, safely and to manage the risks associated with rail operations.® The Act does not apply to a railway that is operated solely within an amusement or theme park and does not operate on or across a road, staff and contractors have the competency and ca-pacity to implement tho ment those Cane railways are also exempt from the Act which, by definition do not systems. I carry passengers or freight other than sugar cane products. 23 Further requirements in support of the Act are contained within the Transport (Rail Safety) Regulation 2010.3 Four key areas? As of 1 September 2010, all Queensland rail infrastructure managers and Track & Infrastructure3 road managers must enter into an interface agreement for road or rail crossings on public roads.  $\ensuremath{\mathbbm G}$  Rolling Stock2 An interface agreement is a written agreement for managing risks in re- Operation lation to rail or road crossings. As a minimum an interface agreement must include provisions for:  $\ensuremath{\mathbb{B}}$  ManagementIl 2 implementation and maintaining measures to manage those risks,
 the evaluation, testing, and where appropriate, revision of those Interface 🗷 measures,3 Agreements the respective roles and responsibilities of each party to the agreement in relation to those measures.<sup>(3)</sup>
 procedures by which each party to the agreement will monitor The DTMR has developed a guidance manual under the and determine whether the other party complies with its obliga-tions under the agreement/// a process for keeping the agreement under revision and how it requirements of the Transport (Rail Safety) Act will be conducted and implemented.2 http://www.tmr.old.gov.au/ \*/media/Safety/railsafety/ GuidanceManu-al130911V5.pdf8 The definition for a crossing includes not only a railway level crossing but also pedestrian level crossing and a lane of a road on which trains move alongside road vehicles. This is particularly applicable to Howard Street A template interface agree-ment is provided on the DTMR website, viz:8 and Mill Street. An agreement will be required between the State (as road manager of the Currie Street intersection) and the rail manager.28 http://www.tmr.qld.gov.au/ ~/media/Safety/railsafety/ A further agreement will be required between council (as road manager of Howard Street and Mill Street) and the rail manager if the rail manager er is not council.<sup>[3]</sup> InterfaceAgree-ment190911V4.pdf8

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Project Update

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National Rail Safety Legislation and Regulations The Council of Australian Governments decided on 7 December 2009 to implement a single National Rail Safety Regulator ('National Regulator') and a body of National Rail Safety Law ('National Law').<sup>20</sup> The Rail Safety Regulators' Panel (RSRP) consists of the Rail Safety Regulators from all States, the Northern Territory and New Zealand. The key role of the RSRP is to provide advice to the Safety Standing Sub Committee (Safety SSC) and National Transport Commission (NTC) on rail safety regulatory issues to help enhance safety and regulatory outcomes consistent with the codegulatory framework.20 The Panel has produced a publication Safety Management System Guidance for Tourist and Heritage Rail Transport Operators – February 2010. This guidance material outlines the legislative requirements and associated processes for Tourist and Heritage Rail Transport Operators in preparing their Safety Management Systems, as reflected in the Na-tional Model Rail Safety Legislation. national rail regulator On 7 June 2012 the South Australian Government Gazette proclaimed the Rail Safety National Law (South Australia) Act 2012. IDn 20th January 2013, the Office of the National Rail Safety Regulator Exemptions? (ONRSR) became the rail safety regulator for rail activities under the Rail Safety National Law (RSNL) in the jurisdictions of New South Wales, he Roll Sofety No ides for general exclusion flation to various function South Australia, Tasmania and the Northern Territory.2 Subject to the passage of further state law, it is expected that Western Australia, Victoria, Queensland and the Australian Capital Territory will I It also does not apply to private, nonitommercial, hobby raiways operated only on private proper-ty to which members of the public do not have access. also be regulated by the ONRSR within 12 months. 3 The Executive Office and the Central Branch (SA, Tas, NT) are based in Adelaide with a Branch office established for New South Wales. Further Branch Offices will be established for Western Australia, Victoria and re, it does not a Queensland, Staff from DTMR will move to the Queensland Branch to railways not connected to an accredited railway and used as an amusement structure wholly within an amusement park, for example, *Dreamworld* on the Office.3 The Queensland Transport (Rail Safety) Act 2010 and the Rail Safety National Low Act were developed in the same environment and with the same intent. In many cases the wording of the various clauses is the The Ginger Factory at Yandina and the Big Pineapple at Woombye will now be required to attain accreditation for the operation of their tourist rail same. 🛙 The transition from the Queensland Regulations to the National Regulations should be seamless for almost all operators. @

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	bour Heritage Tramway Issues Paper Report ussion Paper No 2	
2		2
	ks I includes a rail designed for a light rail vehicle to run on. I means a place on a road at which there is a sign indicating	
	s will stop to enable people to get on or off.	
B tramway l	Ethe part of a road with tram tracks between a tramway sign	ONLY
	d tramway sign, and marked on either side by 2 continuous	Tramway sign
	es parallel to the tracks, or a structure such as a pedestrian affic island or kerb. 21	
2		
	issue is the safety of pedestrians / passengers at tram stops.	
	may be desirable that passengers only alight from, or access at the off3road stations at either end of the tram tracks, the	<b>#</b>
	cy where tram stops may be created along the route must	ONLY
also be co	nsidered.2	END
	I, if a tram stops then other traffic travelling alongside or be- e same direction must also stop. @	End transvay sign
	r stopping, a driver cannot drive past a tram if the tram doors	
are open,	or a pedestrian is crossing the road between the tram and	
the left sid	de of the road.23	
12		
Transpo	ort Infrastructure Act 1994	
	port Infrastructure Act provides for a strategic overview and d planning and management of the provision and operation of	n III
all transpo	ort infrastructure, from road to rail, from marine ports to air-	
ports, and	I to busways and light rail. <sup>27</sup>	Transway with double yellow line
	sue with respect to road infrastructure and this Act is the au- the State to "declare" a road to be a State®controlled road. I	and some server
	thorises the agreements that may be made between the State	
	government for the joint funding of works on either the State and networks that contribute to the effectiveness and efficien-	2 10
	overall road network.2	
	cifically, with respect to this project, it requires a Transport	
	Agreement to be entered into between the road authority 'light rail" entity to define the responsibilities of the parties	
involved.2		
See furthe	er information under Transport (Rail Safety) Act 2010.28	Transway with separation kerb
		A CONTRACTOR OF A CONTRACT

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Governance The Transport (Roil Sofety) Act 2010 and the Transport (Roil Sofety) Reg-ulation 2010 refer to prescribed railway operations and make a clear distinction between the functions of the Rail Transport Operator and the Rail Infrastructure Manager, although a person or entity may be subject to rail safety duties in both capacities.<sup>20</sup> Rall Transport Operations and Rail Infrastructure Man-agement are separate func-tions and may be managed by different persons or enti-Furthermore, the Rolling Stock Operator need not necessarily be the owner of the rolling stock, however the Operator must have effective management and control of the rolling stock. (7) The Applicant for accredita-tion need not necessarily be the owner of the Rolling Stock or Track Infrastructure and may be another person or entity. Similarly, the Rail Infrastructure Manager need not necessarily be the owner of the infrastructure however the Manager must have effective management and control of the infrastructure.  $\ensuremath{\mathbb{S}}$ Two or more Rolling Stock Operators may operate on the same rail infra-E A contract must exist between the owner of the rolling stock and the Operator, and the own-er of the infrastructure and the infrastructure Manager (provid-ing for the applicant to have effective management and con-rol at the relevant time.2 structure but there needs to be an *infrastructure arrangement* applying to the safety risks arising, or potentially arising, from railway operations O carried out by or on behalf of any of them. This would include the operator of a visiting locomotive invited to a Special Event, where an infra-structure arrangement would need to be negotiated with the current Rolling Stock Operator. There are three governance structures that may apply:100
Council as Rail Infrastructure Manager & Rail Transport Operator0
Council as Rail Infrastructure Manager; contracted Rail Transport A safety performance report most be submitted to the regu-latory body at least annually. T This report must include a de-latory performance of the rail transport operator, and deficien-cies or irregularities that may be relevant to rail adery, a decuris-tion of instatives undertaken in the reporting period (in the next reporting period) relating to rail attety, and any other period. Operator<sup>®</sup> Contracted Rail Infrastructure Manager & contracted Rail Transport Operator (Council as infrastructure owner).<sup>(2)</sup> The governance structure will be dependant to some extent on the scenarios that are adopted.3 Notwithstanding which scenario is adopted, the latter structure where Council is neither the Infrastructure Manager nor the Transport Operator presents the widest range of issues to be addressed, including the con-tracts and interface agreements between Council, DTMR and the infra-structure and operator entities.® and any other per indicator required un reports must be su about accidents or in elated to rail safety with rescribed period. It All documentation must be stored and made available to the regulatory body. This includes the safety responsibilities, accountabilities, authori-ties and interrelationships of persons who manage or verify rail safety work, the test results from scheduled maintenance programs, to the financial capacity or public risk insurance arrangements to meet potential accident liabilities arising from railway operations.<sup>22</sup> The ONRSR is moving to full cost recovery from the industry (current less payable to the regula-ill depend on the scenario marios advoted # cost of regulator activities nationally is \$35m, 39% recovered). Variable fees will be calculated on track kilometres managed (30%) and train kilo metres travelled (70%). 🗵

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#### ORDINARY MEETING item 8.4.1 Nambour Heritage Tramway Project Update Attachment 4 Nambour Tramway 2015 Feasibility Analysis

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ORDINARY MEETING Item 7.1.1 Nambour Heritage Tramway Issues Paper Report Attachment 2 Discussion Paper No 2 Whilst the previous page focusses on the Governance requirements The three personal health issues of :11 with respect to the Transport (Rail Safety) Act 2010 and the Transport (Rail Safety) Regulation 2010, there are wider governance issues that health and fitness:2 need to be addressed.23 drugs and alcohol;2 fatigue risk manage-ment/3 are extremely important in operating a tram or train in what is essentially a road environment/3 An appropriate fiscal management structure is required by the Tramway Management entity to be able to  $:\!\!\varpi$  Enter into contractual arrangements to manage rail infrastructure and rolling stock.<sup>[2]</sup> Obtain accreditation with ONRSR. Become a registered charity and be registered with the Australian Charities and Not@or@rofits Commission (ACNC).@

- Apply for, and receive Grants from the Federal and State governments, the Sunshine Coast Council and philanthropic organisations (e.g. service clubs).
- · Gain the confidence of the business sector and receive sponsorship and contributions in kind.
- Gain the confidence of the general public and receive support through donations and voluntary assistance.28

The appropriate management structure is also required to ensure all workers, whether paid or as volunteers have the appropriate skills to undertake the tasks required and receive on going training and protective equipment.®

On 1 January 2012, Queensland, the Australian Capital Territory, New South Wales, the Northern Territory and the Commonwealth harmonised their Work Health and Safety (WHS) laws protecting workers, including volunteers, in these jurisdictions with the same WHS laws.  $\ensuremath{\mathbb{B}}$ WHS isn't just about the responsibilities of the employer with re-

spect to a safe working environment and staff training. IB

It is also about the responsibilities of the employees, including volunteers, to ensure they are fit to undertake the assigned tasks. $\!\mathbb{Z}$ 

Heritage tram and train operations need a large number of enthusiastic volunteers to function.

Volunteers in general will be retired persons who will, as time moves on, be facing increasing issues with respect to general mobility and mental alertness.3

Working shifts need to be short and back@up staff available at all times.8

Appropriate advice should be sought from legal and accounting professionals to prepare, discuss and negotiate the structure and responsibilities of the managing entities.®

They assume greater im-portance when applied to a volunteer workforce whose average age will be much higher than that of the gen-eral workforce.<sup>23</sup>

For staff operating with, or around machinery the overall Health & Fitness needs to be assessed in terms of mobility and mental alertness.28

The term 'drugs' isn't just confined to illicit substances or 'performance enhancing,' substances that some athletes are using.<sup>21</sup>

In this instance it is more likely to mean legitimately prescribed drugs which can cause drowsiness or other physical impairments.!!

There will be a "zero toler-ance" to alcohol.3

Regular voluntary health checks and certificates may need to be the norm for op-erating personnel.2

Fatigue not only look at the length of the working shift but also the travel time at either end. Z

Volunteer rail enthuslasts may travel for several hours either side of their shift and this needs to be taken into account./8

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For the defin practicable re Guideline, M Ensure Safety sonebly Proce B The Safety System sha cient detail : • the son the rail • the po persons	Her to the ONRSR earling of Duty to So Far As is Reo- coble.® Management Il provide suffi- oppropriate to :80 be and nature of operations,20	<ul> <li>safety performance</li> <li>safety audit arrange</li> <li>corrective action;3</li> <li>management of char</li> <li>consultation;3</li> <li>internal communicat</li> <li>training and instructi</li> </ul>	neasures;8 nents;8 ige;8 ion;8	rstem;∃			
practicable in Guideline, M Ensure Safety Sonobly Proct B The Safety System sha cient detail • the sco the rail • the po persons	Her to the ONRSR earling of Duty to So Far As is Reo- coble.® Management Il provide suffi- oppropriate to :80 be and nature of operations,20	<ul> <li>safety audit arrange</li> <li>corrective action;%</li> <li>management of char</li> <li>consultation;%</li> <li>internal communicat</li> <li>training and instruction</li> </ul>	nents;® ige;3 ion;8				
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The Safety System sha cient detail : • the sco the rail • the po persons	Il provide suffi- appropriate to :32 be and nature of operations,72	<ul> <li>consultation;3</li> <li>internal communicat</li> <li>training and instruction</li> </ul>	ion;®				
System sha cient detail : • the sco the rail • the po persons	Il provide suffi- appropriate to :32 be and nature of operations,72	<ul> <li>internal communicat</li> <li>training and instruction</li> </ul>					
<ul> <li>the scotthe rail</li> <li>the popersons</li> </ul>	pe and nature of operations,2	<ul> <li>training and instruct</li> </ul>					
<ul> <li>the rail</li> <li>the popersons</li> </ul>	operations,2	-					
<ul> <li>the popersons</li> </ul>		<ul> <li>risk management;//</li> </ul>					
persons							
	by these opera-	<ul> <li>human factors;</li> </ul>					
		<ul> <li>procurement and co</li> </ul>	0				
<ul> <li>the ope</li> </ul>	rators duties.2	<ul> <li>general engineering</li> </ul>	and operational	l systems saf	ety requirement	s;7	
8	1	<ul> <li>process control;<sup>28</sup></li> </ul>					
In addition to	the systems and	<ul> <li>asset management;8</li> </ul>					
	equired to elimi-	<ul> <li>safety interface coor</li> </ul>	dination;®				
	ce risk, an assess- clude a register of	<ul> <li>management of noti</li> </ul>	fiable occurrenc	ces;2			
potential risk		<ul> <li>rail safety worker co</li> </ul>	npetence;2				
	shalt consider for	<ul> <li>security management</li> </ul>	t;IE				
each potentia		<ul> <li>emergency manager</li> </ul>	nent;2				
	d of the risk even-	<ul> <li>health and fitness;3</li> </ul>					
tuating.0	f harm as a result. <sup>35</sup>	<ul> <li>drugs and alcohol;8</li> </ul>					
	le knowledge of	<ul> <li>fatigue risk manager</li> </ul>	nent:@				
	concerned.8	<ul> <li>resource availability.</li> </ul>					1
	ty of ways to elim-	E Increase and a contraction of the	-				
	educe the risk.8 y of ways to elimi-	Each of the above topics	are dealt with i	n detail in th	e Transport (Raj	,	
	educe the risk.It	Safety) Regulation 2010,		-recton in th	e monspore pron		
	liminate or reduce	(I					
the risk.	Sec. Sec.	www.legislation.gld.gov.au	/LEGISLTN/CURRI	ENT/T/TrantR	ailR10.pdfl8		
		8					
	10.00	The Safety Management	System is the r	most import	ant document.		
	2.50 ( WC)	25					
	5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Appropriate professional	, rail safety pers	sonnel shoul	d be engaged to		
	the state of the s	prepare, discuss and neg	otiate the form	and conten	t of the SMS.II		

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# ORDINARY MEETING Item 8.4.1 Nambour Heritage Tramway Project Update Attachment 4 Nambour Tramway 2015 Feasibility Analysis

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very heavily on volunteers. This can skew the financial model, hiding       Shire stop km vest of Meilbours, is the odest Burgeners in settlement in Victoria and has a population of same to alwort 21, 240.5         This raik increases as the operational frequency is increased and there is a commitment, or implied commitment, to a regular service throughout the day using a single locomotive. B       Shire spolation of adult 2, 240.5         Regular maintenance must be then scheduled out of hours and break-down maintenance assumes a priority that comes at a premium price. B       B         Regular maintenance asumes a priority that comes at a premium price. B       B         Insurance, barticularly Public Liability will be a major cost to all Scenarios. B       B         Income Sources       B         Expenditure will fail into two broad categories:BB       B         State GrantsB       Copital costs may be met by income from a range of sources including:BB         B       Copital GrantsB         Copital GrantsB       SponsorshipB         SponsorshipB       DonationsB         Other GrantsB       B         Other, including ticket sales and on@going fundraising.B       B         B       Specific donations included the community in Spearame totaling S1,275,000.8	Financial Considerations	Portland Cable Tram,
Provide on volunteers. This can skew the financial model, hiding the real cost of the operation or the liability, if the labour component cannot be methy skilled volunteers. (b)       Provide the operation of the operation of some the oldest furgoes an settlement in Victoria and the set a population of some 10,000 residents out of a some 20,000 therera shubble in 1950 resident and the set out of the partons is undermined. (b)         Regular maintenance must be then scheduled out of hours and break-down maintenance assumes a priority that comes at a premium price. (b)       B         Regular maintenance must be then scheduled out of hours and break-down maintenance, particularly Public Liability will be a major cost to all Scenarios. (b)       B         Insurance, particularly Public Liability will be a major cost to all Scenarios. (b)       S         Income SOUTCES       B         Expenditure will fall into two broad categories.       S         Income Sources       S         Capital Cost may be met by income from a range of sources including.       B         Income Sources       S         Income Sources       S         Income Sources       S         Income Sources       S         Income Sources	Liabilities	Victoria
This may then represent a financial risk. <sup>21</sup> This risk increases as the operational frequency is increased and there is a commitment, co implied commitment, to a regular service through- but the day using a single locomotive. If Regular maintenance must be then scheduled out of hours and break. Mice maintenance must be then scheduled out of hours and break. Mice maintenance must be then scheduled out of hours and break. Mice maintenance must be then scheduled out of hours and break. Mice maintenance must be then scheduled out of hours and break. Mice maintenance must be then scheduled out of hours and break. Mice maintenance must be then scheduled out of hours and break. Mice maintenance must be then scheduled out of hours and break. Mice maintenance must be then scheduled out of hours and break. Insurance, particularly Public Liability will be a major cost to all Sce- as building and other facilities maintenance will be time dependant. In COME SOUTCES Coppenditure will fall into two broad categories. State Grants State Grants Copital costs may be met by income from a range of sources including. State Grants Source Grants	very heavily on volunteers. This can skew the financial model, hiding the real cost of the operation or the liability, if the labour component	Portland, in the Gleneig Shire 360 km west of Mel- bourne, is the oldest Europe- an settlement in Victoria and
<ul> <li>a commitment, commitment, to a regular service throughout the day using a single locomotive. If a regular service throughout the day using a single locomotive. If a regular service throughout the day using a single locomotive. If a regular service throughout the day using a single locomotive. If a regular service throughout the day using a single locomotive. If a regular service throughout the day using a single locomotive. If a regular service throughout the day using a single locomotive. If a regular service throughout the day using a single locomotive. If a regular service throughout the day using a single locomotive. If a regular service throughout the day using a single locomotive. If a regular service is irregular and confidence of the patrons is undermined. If a locome service is irregular and confidence of the patrons is insurance, particularly Public Liability will be a major cost to all Scenarios. If rearm links many of PortLand's marks attractions. The tramway (a relation for usage, where as building and other facilities maintenance will be a function of usage, where as building and other facilities maintenance will be time dependant. If a rearway is operated under the direction of a full time manager, and the service of fund is foral service at a mainter and to a full time manager, and the service of fund is foral at the key and for volumity in terns of cash materiatian at time. If a significant discustions included the Community is support fund Victoria and the key and a fund time service at a subility of the service at a service at a subility of the service at a service at a subility at a service</li></ul>	This may then represent a financial risk. <sup>2</sup>	10,000 residents out of a
Regular maintenance must be then scheduled out of hours and break- town maintenance assumes a priority that comes at a premium price.       If IC, was established in 1995, and has in excess of 2,000, hours of voluntary communi- ty labour. The tramway can reak its finite priority that communi- ty labour. The tramway can reak and rolling stock maintenance will be a major cost to all Sce- insurance, particularly Public Liability will be a function of usage, where- as building and other facilities maintenance will be time dependant.25       If IC was established in 1995, and has in excess of 2,000, hours of voluntary communi- ty labour. The tramway can reak its first priving passen gers in February 2002.8         If Track and rolling stock maintenance will be a function of usage, where- as building and other facilities maintenance will be time dependant.25       The tram links many of Port- land's major tourism attrac- tions.32         If Comme SOUTCES       If Tram links many is operated under the direction of a full time manager, and the set res on the roll .3         Capital, IS       The Tramway is operated under the direction of a full time manager, and the set res on the roll .3         Capital costs may be met by income from a range of sources including:30       The project has received funding from all three time.3         Copital costs may be met by income from a range of sources including:30       The project has received funding fromatis and time, 8         Specific donations included the Community in terms of community in terms of cash, materiatia and time, 8       8         Other Grants <sup>30</sup> Donations <sup>30</sup> Other, including ticket sales and on% poing fundraising. <sup>30</sup> Seefit       8	s a commitment, or implied commitment, to a regular service through-	a
Insurance, particularly Public Liability will be a major cost to all Scenarios. () Track and rolling stock maintenance will be a function of usage, where- as building and other facilities maintenance will be ime dependant.() Income sources Expenditure will fail into two broad categories:() a Capital, () Recurrent.() Capital costs may be met by income from a range of sources including:() Federal Grants() Council Grants() Council Grants() Council Grants() Sponsorship() Donations() Other, including ticket sales and on?going fundraising.() See()	down maintenance assumes a priority that comes at a premium price. Alternatively the service is irregular and confidence of the patrons is undermined. 🛙	PORTLAND CABLE TRAMS INC was established in 1996, and has in excess of 20,000 hours of voluntary communi- ty labour. The tramway car- ried its first paying passen-
narios. 8 Track and rolling stock maintenance will be a function of usage, where- as building and other facilities maintenance will be time dependant.8 a INCOME SOULCES Expenditure will fall into two broad categories.33 • Gapital, 3 • Recurrent.8 Capital costs may be met by income from a range of sources including.33 • Federal Grants8 • Council Grants8 • Council Grants8 • Sponsorship3 • Other, including ticket sales and on%going fundraising.8 8 8 8 8 8 8 8 8 8 8 8 8 8		
Track and rolling stock maintenance will be a function of usage, where- as building and other facilities maintenance will be time dependant.     Image: Stock maintenance will be a function of usage, where- so building and other facilities maintenance will be time dependant.       Income sources     Image: Stock maintenance will be time dependant.       Income sources     Image: Stock maintenance will be time dependant.       Income sources     Image: Stock maintenance will be time dependant.       Income sources     Image: Stock maintenance will be time dependant.       Income sources     Image: Stock maintenance will be time dependant.       Income sources     Image: Stock maintenance will be time dependant.       Image: Stock maintenance will be time dependant.     Image: Stock maintenance will be time dependant.       Image: Stock maintenance will be time dependant.     Image: Stock maintenance will be time dependant.       Image: Stock maintenance will be time dependant.     Image: Stock maintenance will be time dependant.       Image: Stock maintenance will be time dependant.     Image: Stock maintenance will be time dependant.       Image: Stock maintenance     Image: Stock maintenance will be time dependant.       Image: Stock maintenance     Image: Stock maintenance will be time dependant.       Image: Stock maintenance     Image: Stock maintenance will be time dependant.       Image: Stock maintenance     Image: Stock maintenance will be time dependant.       Image: Stock maintenance     Image: Stock maintenance will be	narios. 🛛	The Tram links many of Port- land's major tourism attrac- tions.70
Income sources     winter. 8       Expenditure will fall into two broad categories.083     Image: Transvay is operated under the direction of a full time manager, and the servent.8	•	
Expenditure will fall into two broad categories:33	Income sources	
Capital, (3)     time manager, and the services of a band of 60 volume ters on the roll at     ters on the roll at     te	Expenditure will fall into two broad categories:38	The Tramway is operated
Capital costs may be met by income from a range of sources including:323 Federal Grants3 Council Grants3 Council Grants3 Other Grants3 Sponsorship3 Donations3 Other, including ticket sales and on%going fundraising.33 Section Secti		time manager, and the ser- vices of a band of 60 volun-
Federal Grants®     Federal Grants®     State Grants®     State Grants®     Council Grants®     Council Grants®     Other Grants®     Sponsorship®     Onations®     Other, including ticket sales and on%going fundraising®     See®	Capital costs may be met by income from a range of sources including 22	2
State Grants     of Government as well as significant donations from the Community in terms of cash, materials and time, it is the Community in terms of cash, materials and time, it is the Community is terms of the Community support of the C		
Council Grants <sup>3</sup> Other Grants <sup>3</sup> Spenforship <sup>3</sup> Donations <sup>3</sup> Other, including ticket sales and on <sup>3</sup> going fundraising <sup>3</sup> See <sup>3</sup>	State Grants	of Government as well as
Other Grants®     Specific donations included     Specific donations included     be Community Support     Donations®     Other, including ticket sales and on®going fundraising®     Sections®	Council Grants	the Community in terms of
Sponsorship     the Community Support     Donations     Other, including ticket sales and on     going fundraising     See	Other Grants <sup>®</sup>	
Donations     Donations     Other, including ticket sales and on/going fundraising     Sale     S	Sponsorship	Specific donations included:
Other, including ticket sales and on@oing fundraising.     totalling \$1,275,000.8      See8	Donations	Fund VictoriaZ and the Re-
I Seell	<ul> <li>Other, including ticket sales and on%poing fundraising.</li> </ul>	gional Solutions Programme totalling \$1,275,000 II
n general grants are not given for on training recurrent expenditure and	1	2
	n general, grants are not given for on going, recurrent expenditure and	See?
his needs to be covered by sponsorship, donations, ticket sales and www.portlandcabletrams.co m.au3	other fund raising activities.	www.portlandcabletrams.co m.au3

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Disclaimer.®	Scenarios
This Document is for discussion only and is not Council Policy.2	The scenarios considered in this Discussion Paper are seen to represent the gamut of options of rolling stock, track & infrastructure (including passenger and public facilities), and management and frequency of op- eration being considered by some members of the community. <sup>20</sup>
The consideration of these Sce- narios does not in any way en- dorse or recommend these Sce- narios individually or collectively as a course or courses of action.	It may well be that when the risk analysis applicable to a particular Sce- nario is undertaken in detail, then the requirements outlined here, in particular relating to track and infrastructure, may seem to be excessive, or alternatively, be deficient.®
but allows consideration of the wide range of issues that may be encountered in any future Sce- nario.0	The obvious Scenario variations are type and form of the locomotive and the passenger rolling stock. This may lead to variations in the end of track facilities required, not only for storage and maintenance purposes, but also for staff and passenger amenity. $\Im$
	Given the heritage listing of the tram track and the houses at the former Moreton Mill site it is important that there are tangible links in the de- sign of the rolling stock to the sugar industry and the particular role the Mill and the cane tram played in the development of Nambour. 20
	These links may range from the celebration of milestone events to the colours and appearance of the rolling stock which will all contribute to the experience. We should however be pragmatic in the selection of lo- comotive power as replica locomotives taking advantage of modern power sources and technology will be more sustainable in the longer term. @
Not everything that counts can be counted, and not everything that	None of these scenarios will make any measurable contribution to the overall <i>Public Transport</i> task and we should be wary about attributing value in this regard. The transport demand modelling doesn't stack up.20
an be counted counts." Sign hanging in Einstein's office at Princeton)	Scenarios may have different Governance and Financial Models but there will be overlap and these can best be represented in the form of a table for comparison. $\mathbb{B}$
	These scenarios are not necessarily mutually exclusive and within any period of a year or so several scenarios may apply. Whilst there will probably be a common Rail Infrastructure Manager, the different rolling stock scenarios may have different Rolling Stock Managers. This will cer- tainly apply if there are visiting locomotives using steam power. <sup>33</sup>
	Some people within the community see these scenarios being extend- ed to a wider area. No attempt has been made in this Study to consider wider planning issues other than to provide end of track facilities nec- essary to directly support the use of the heritage listed track. This is in accordance with the Brief developed from the Council resolution. <sup>2</sup>

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Scenario 1		
As a standalone tram no	additional passenger rolling stock is required. 3	
	e was commissioned to run in Glendale, California. The 15.5 acre development ums, 238 apartments, and more than 74 shops along with cafes and restaurants.	
Scenarios 2, 3 & 4		
	or these scenarios can essentially be the same design although the livery may be orship or special events $\underline{\mathbb{Z}}$	
an aisle with transverse	scale of the carriages. The narrowness of the gauge makes it impractical to have seating either side. The Mapleton passenger carriages had longitudinal seating had low passenger capacity. <sup>33</sup>	
	Yandina, and the Pineapple Train at Woombye have transverse bench seats. This gers can experience the activities on either side of the $track/3$	
	designs will be totally acceptable in the "road" environment and additional pas- d be required to ensure that passengers do not inadvertently step into road	
	es in Port Douglas would appear to be more appropriate with transverse seating r in a compartment. Each compartment has a door or gate. ${\mathbb Z}$	
8 9 9 9 9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8		
From "The Newsport",	Port Douglas & Mossman News First, 30 Jan 2012.	
	Budget 🗄4 carriages at \$25,000 = \$100,0002	

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Rolling Stock		8 0
Operation & Ma	inagement	Ø
tions have satisfied t have established that these syste and that they have th systems. Sufficient funding wo sociated with annual	<ul> <li>of accreditation is to attest that railway organisa- he Rail Safety Regulator (RSR) that they?</li> <li>Stafety Management Systems (SMS),3 ms are suitable and sufficient for their operations, he competency and capacity to implement those build be required for the recurrent expenditure as- l training, maintenance and statutory reporting.</li> </ul>	
Scenario 1		
Staff: 00 Min Rolling Stock Man to manage the work	sﷺ To a daily timetable. mimum 3 operational staff plus management. agement: would require some fullitime, paid stat kload. rograms would require "professional" trainers.	
Staff: 2 v Rolling Stock Man	3 5.3 Monthly, 10 times per annum.3 olunteer crews (min 5 persons), short shifts.3 agement: refresher training and briefing re- h shift and debriefing after shift as part of the	TOT
	ay operate on the same shift with an interface anaged separately.®	
Scenario 4		
Staff:20 20 Fro Rolling Stock Man an interface arrange	SS Special Event or Festivals m visiting organisations agement: By visiting Rolling Stock Manager with ment with the other Rolling Stock Managers. priefing and debriefing session with Rolling Stock	
	Infrastructure Managers and staff as part of the	

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Track & Infrastructure General The track within the road reserve has infill between the rails and the train wheels travel in "slots" inside the rails. Debris can accumulate in these "slots".8 In each of the scenarios that have a locomotive with carriages, a ris analysis will require the locomotive to "pull" the carriages, not push. The heavier locomotive will offer more stability around curves and crush objects within the "slots" that might otherwise derail the lighter e at Bally He ley, th Port Dr passenger carriages. The Mill always 'pulled' the cane trucks.® Pulling gives the greatest visibility in an pedestrian environment. At the termini at either end the locomotive will need a passing loop to pass to the other end of the carriages. 3 ives, both steam and diesel can operate as effectively in eithe forward or reverse gear and there is no performance advantage one over the other. A diesel locomotive and a steam locomotive without a coal tender both offer greater visibility in reverse gear. Aesthetically, it would be more appealing to have the locomotive it rward gear for both directions. To pull in forward gear both ways would require a turntable at both the eastern and western ends. This may be problematical at the western, Mill site end where the site is constrained. Manoeuvring will need to be within a safe environment.@ Fort Dougles II The photo top left shows the turntable at the southern end of the Bally Hooley train at Port Douglas he middle photos show the platform, passing loop and turntable at the Marina Mirage, Wharf Street, Port Douglas. 3 Station Platform Passing Loop As the Tram will be able to be driven from both ends there is no ne for a turntable or loop at the ends of the track for that particular so ario.R

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Track & Infrastructure -Traffic control along track: Programming of existing traffic signals at Sydney St Ann St / Howard St (Council) and Currie St / Howard St (DTMR) will need to be amended to include "tram / train" input detection. @ Note that the DTMR intersection previously op-erated with train detection, however if rewiring is required then the asbestos ducts and pits will also need to be replaced—cost \$400,000. 🗷 ional pits and ducts were installed at Sydney St , Addit Ann St / Howard St intersection to provide for train de-tection however the Mill operation closed before the signals were commissioned. It is not known at this stage whether the "draw wires ' are accessible." The roundabout at William St / Howard St will equire some form of signal control, possibly an "all ed" phase to allow the tram / train to pass safely hrough the roundabout. 33 O At both the Marshalling Yards and former Mill Site the tram / train must cross part of the carriageway to enter a terminus or station site. As with the rounda-bout above this could use an amber / red signal phase to allow the tram / train to cross to the terminus with all3red to road traffic.® HERE N RE SIGNAL Budget \$500,000 without rewiring Currie St / How ard St traffic signals.28

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Tr	ack & Infrastructure	CURPER A PROVIDER
Op	eration & Management	C. C. C. AND
8	General	The Rail Infrastructure Mar ager will need to ensure the
	Traffic signals throughout the Sunshine Coast on State and Council controlled roads are maintained under contract by RoadTek, a com- mercial business within Transport and Main Roads.23	there is a regular inspectio regime to ensure the signa along the route are function ing correctly.2
	The additional traffic control elements identified on the previous page together with the associated train detection input will need to be similarly maintained. $\ensuremath{\mathbb{S}}$	2 The Rolling Stock Operato will need clearance from th Infrastructure Manager bi
	Budget provision needs to be made for the inspection and mainte-	fore proceeding.1
	nance of these signals. Visual, operational inspections may be carried out by volunteer staff, but electrical inspections will need qualified	and the second second second
	staff. <sup>20</sup>	2
	Regular , visual track inspection will be required.	
	Budget \$8,000 pa across all scenarios. <sup>22</sup>	A. C. Martin Street
	a budget a otogo ha nel ora nu scenterioran	1.1
L		
ſ	Scenario 1	
Ŀ	f the proposal is to run from battery power recharged from solar	
þ	power then there needs to be sufficient roof and solar panel area at the eastern depot.2	
l	Budget \$5,000 pa for maintenance and back-up power.	2
L	As the Tram can be driven from both ends there is no need for a turn-	
	able or loop at the ends of the track.28	A CONTRACTOR OF
Ľ		
Е	Scenarios 2, 3 & 4 n each of these scenarios a risk analysis will require the locomotive to	A passing loop with points well clear of pedestrian areas is re- quired at both ends.II
P	'pull" the carriages , not "push", as this offers the greater stability and	
	ess risk of derailing the carriages. It also gives the greatest visibility in pedestrian environment. g	To pull in forward gear bot ways would require a turnta ble as well as a passing loo
	The locomotive, will need a passing loop to pass to the other end of he carriages. And it is important that points are clear of pedestrian reas.	at both ends, however th offers no performance at vantage.2
	Budget \$ 1,500 pa for points maintenance.	In San Francisco, operation of the cable car turntable is an attraction in its own right.2
Ŀ	Additional funds required for turntable maintenance if installed.	

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ORDINARY MEETING Item 7.1.1 Nambour Heritage Tramway Issues Paper Report Attachment 2 Discussion Paper No 2 27 FEBRUARY 2014 Summary Sequence;® Governance of the proposal is the most critical issue to be addressed in the first instance. The most likely entity is probably in the form of a Trust and the appropriate legal and financial advice should be sought as to the most appro riate way forward. The purchase of land to enable track infrastructure to be extended would be the first expenditure priority. None of the Sce narios can proceed until this is resolved. Scenario 2 could have the shortest lead time and be able to provide the earliest demonstration project. The carriage design and construction could proceed concurrently. Scenario 3 could then follow.® he visiting locomotive may be available in 2015. cenario 1 will depend to a large extent on the success of the other Scenarios. Given that it requires a one/off design and co truction the lead time with protracted negotiation could be in the order of 5° years.® overnance, Track & Infrastructure, including land;8 🛛 apital Cost: a \$2,300,000, including land purchase, traffic control, extension of track, station facilities, storage & work@ shop facilities. (Note there will be non@ecurring costs associated with the preparation of the initial SMS).@ nt cost: @ Governance (including accreditation), insurance, maintenance, training.@ 8 \$25,000 pa@ Q Scenario 1 - purpose built passenger tram (imported). apital Cost:2 \$800,0003 Scenario 2 - purchase and refurbish ex Mill diesel loco Capital Cost: 3 \$60,000 for locomotive. ecurrent cost :// Maintenance and insurance // // \$20,000 pa// efurbishment and maintenance offset by sponsorship and volunteer labour. Scenario 3 - refurbished ex Mill steam loco with diesel power. apital Cost:# \$80,000 for locomotive.# ecurrent cost 🕸 Maintenance and insurance 🗷 🛛 520,000 paß efurbishment and maintenance offset by sponsorship and volunteer labour. 0 Scenario 4 - visiting locomotive. apital Cost:// Nil 8 current cost : Transport and Insurance budget 2 \$10,000 per event.@ Transport costs may be offset by sponsorship.@ Scenarios 2,3 & 4 - 4# purpose built passenger carriages. pital Cost:8 \$100,0002 rrent cost II maintenance and insuranceII II \$10,000 pall truction and maintenance offset by sponsorship and volunteer labour

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ORDINARY MEETING Item 8.4.1 Nambour Heritage Tramway Project Update Attachment 4 Nambour Tramway 2015 Feasibility Analysis

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Feasibility Assessment of Nambour Heritage Tramway

## Appendix 2: Advice on Insurances

Provided by Sunshine Coast Regional Council, October 2014

Public liability insurance. It is likely that Council's existing Public Liability (PL) coverage would operate to provide PL cover for anyone injured through the use or operation of this tramway. If the project did proceed Council would be prudent and professional and confirm this with Council's insurers.

Asset Insurance: Council has advice that there is coverage available for what is called "rolling stock". This should provide the necessary coverage for the asset itself and also for other vehicles it may come in contact with as it will be operating in the domain of the roadways. It is unclear how much this coverage will cost.

Employee Insurance: Any Council employee, whilst acting within the scope of their duties, would be provided with workers compensation coverage if involved in any incident involving this asset.

Volunteer Workers Insurance: Volunteers are likely to be covered under Council's existing volunteer coverage once Council notifies the insurer of the details. It should be noted that this cover is limited in what it can provide and also sets out requirements in light of supervision.



2014\_1090 (012) Final Report (29 oct).docx

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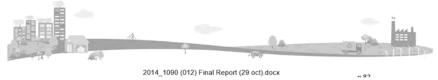
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Feasibility Assessment of Nambour Heritage Tramway

Appendix 3: Community Survey Questionnaire



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Nambour Heritage Tramway Feasibility Assessment: Visitors and Workers Survey

Hi, my name is .... And I'm conducting some research on behalf of the Sunshine Coast Regional Council. Currently, Council is investigating the feasibility and economic impact of re-establishing the Nambour Heritage Tramway. The route would include the current extent of the heritage listed sugar cane locomotive line that travels from Mill Street (adjacent to Coles) up to the old marshalling yard 'Moreton Mill', (adjacent to Aldi Supermarket).

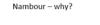
We are asking a number of stakeholders to comment on the project to provide us with additional information to assist in assessing the financial feasibility of the project, plus the economic and social impacts of re-establishment. Would you mind if I asked you a few questions in regards to the potential project? All information will be treated confidentially and no individual response will be able to be determined. The survey should only take about 7 minutes.

[Surveryor: Location of Survey .....]

 In general terms, what is your view of the re-establishment of the Nambour Heritage Tramway? And why?
 c. I do not have an opinion

 a. I support it, it would be good for Nambour – why?

 b. Loppose it, I don't think it would be good for





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- 2. If the tramway was reestablished, what would you be willing to pay to use the tram? a. Under \$1

  - b. Between \$1 and \$3
  - c. Between \$3 and \$5
  - d. Between \$5 and \$7
  - More than \$7 e.
  - f. I would only use it if it was free
  - g. I would not use it
- 3. If you would use the tramway and the fare was what you considered reasonable, how often would you use it?
  - More than twice a day a.
  - b. At least twice a day
  - c. At least once a day
  - d. A few times a week
  - e. Once a week
  - f. Once a month
  - g. Less frequently than once a month
- What would you use the tramway for? (multiple answers allowed)
  - Shopping a.
  - b. Browsing c. Recreation
  - d. Access work
  - Access other services and e.
  - facilities
  - f. Other (please specify)

to either use it or use it more? Eg. free internet?

5. Is there anything that could be

added to the Tram to entice you

- 6. If the tramway existed, do you think you would spend more in the Nambour centre? For example at the supermarkets, and/or other retail / service tenancies? Eg. would you purchase lunch more often? Would you go shopping more often? Etc If so, can you provide examples?
- 7. If you answered yes to the previous question, how much more would you be likely to spend?
- 8. If the re-establishment of the Tramway also included tourism features such as a Tram restaurant, and you considered the service and price reasonable, would you be likely to visit and utilise this? a. Yes.



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Change

- If yes, how often would you visit? i. Weekly
  - ii. Fortnightly

Nambour Heritage Tramway Project Update

Attachment 4 Nambour Tramway 2015 Feasibility Analysis

- iii. Monthly
- iv. Three monthly
- v. Six monthly
- vi. Less often
- vii. Don't know
- b. No c. Don't know
- If the food and service was good, what price/s would you consider paying for a meal on the Tramway Restaurant?
  - a. Below \$10 for a mealb. Between \$10 and \$20 for
  - a meal c. Between \$20 and \$40 for
  - a meal d. Between \$40 and \$50 for
  - a meal
  - e. Above \$50 f. Don't know
- What other opportunities do you think could be associated with the re-establishment of the

Tramway?

11. Do you think that the tramway would attract additional tourists Nambour?

a. Yes

b. No c. Don't know

- 12. Do you think the re-establishment of the tramway is likely to be a catalyst for other redevelopment in Nambour?
  - a. Yes b. No
  - c. Don't know
  - c. Don't kno
- 13. Would you be willing to volunteer if that was required to get the tramway operating?
  - a. Yes b. No
  - c. Don't know

14. If yes, how much time would you be willing to spend volunteering?

- a. Up to 10 hours per week
- b. Up to 10 hours per fortnight
- c. Up to 10 hours per month
- d. Less than 10 hours per month
- More time than indicated here (if so how much?)



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#### Some quick questions about you

- 15. Why are you in Nambour today?
  - a. Working
  - b. Shopping
  - c. Using Services / Facilities
  - d. Browsing e. Meeting friends /
  - colleagues
  - f. Other (please specify)
  - g. Don't wish to answer
- 16. What is your home postcode?
- 17. How often do you come to
  - Nambour
  - a. Everyday
  - b. Every weekdayc. Once a week
  - d. Once a fortnight

  - e. Once a month
  - f. Once every 3 months
  - g. Less frequently h. Don't know

19. Your age: a. Less than 18

18. Please indicate:

a. Male

b. Female

- b. 18-24
- c. 25-34
- d. 35-44
- 45-54 e.
- f. 55-65
- g. 65-74
- h. 75+
- i. Don't wish to answer
- 20. Employment status
  - a. Working full time
  - b. Working part timec. Looking for work
  - (unemployed)
  - d. Not looking for work
  - Other..... e.
  - f. Don't wish to answer
- 21. Are there any other comments you'd like to make with regard to the reestablishment of the Nambour Tramway?

Thank you for your time and consideration. It has been greatly appreciated.



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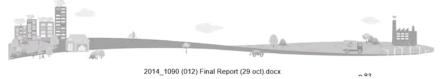
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Feasibility Assessment of Nambour Heritage Tramway

Appendix 4: Potential Tram Suppliers



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Nambour Heritage Tramway

31 JANUARY 2019



Nambour

Australia

Sunshine Coast Queensland

Alan Keef Limited

LIGHT RAILWAY ENGINEERS

Lea Line Ross-on-Wye Herefordshire HR9 7LQ Tel: 01989 750757 Fax: +44 (0)1989 750780 Email: sales@alankeef.co.uk Website: www.alankeef.co.uk

Directors: A M Keef P M Keef A E Basey

25 September 2014

Our Ref: NHT/001

#### QUOTATION

1 off Traditional style K20E battery electric tramcar to suit 610mm gauge, fitted with 18kW 80 volt motor, driving to axle mounted drive gearboxes on both axles. Dual driving positions. Traditional steel and wooden construction bodywork with seating for 24 adult passengers. Finish painted and lined. Includes on site commissioning and staff training. Generally as per our drawing P3060-1 and associated specification. Fully packed for export shipping. Ex works GBP £287,000.00 Optional extra for 80V on board solar PV panels and charging circuit GBP £10,650.00 Shipment C.I.F. Brisbane GBP £ T.B.A. 10 to 12 months from receipt of official purchase order and deposit Delivery: payment. Subject to other commitments at time of order. Payment: Stage payment schedule as follows: 25% of total contract value deposit with order ٠ 30% at approximate half way stage of construction 30% following completion and UK testing, prior to shipment • 15% final payment due following satisfactory commissioning Validity: This quotation is valid until 30 April 2015

• DIESEL, STEAM & BATTERY ELECTRIC LOCOMOTIVES
 •ROLLING STOCK
 •NEW & SECONDHAND
 •OVERHAUL & REPAIR
 •EQUIPMENT HIRE
 •MONORAIL
 •TRACKLAYING
 •TRACK MATERIALS
 •SPARE PARTS FOR SIMPLEX, RUSTON, LISTER & PLANET LOCOMOTIVES

Unless otherwise stated, all quotations are subject to VAT at the standard rate. Registered No. 195 850817 Registered in London, No 1232542. Registered Office: Lea Line, Ross-on-Wye, Herefordshire HR9 7LQ

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For and on behalf of Alan Keef Limited

A. C. Ullar

Patrick Keef

Sunshine Coast Regional Council

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Nambour Heritage Tramway

ORDINARY MEETING Item 8.4.1 Nambour Heritage Tramway Project Update Attachment 4 Nambour Tramway 2015 Feasibility Analysis 31 JANUARY 2019



Nambour Sunshine Coast

Queensland Australia Alan Keef Limited

LOCOMOTIVE BUILDERS LIGHT RAILWAY ENGINEERS Lea Line Ross-on-Wye Herefordshire HR9 7LQ Tel: 01989 750757 Fax: +44 (0)1989 750780 Email: sales@alankeef.co.uk Website: www.alankeef.co.uk

Directors: A M Keef P M Keef A E Basey

25 September 2014

Our Ref: NHT/002

#### QUOTATION

tions. To be supplied in cally manufactured body commissioning and staff nerally as per our drawing	Traditional style K20E battery elect gauge, fitted with 18kW 80 volt m gearboxes on both axles. Dual d operational state in readiness for f structure. Finish painted. Include training following completion of body P3060-1 and associated specification
	Optional extra for 80V on board so components for fitting and assembly
GBP £8,450.00	
GBP £T.B.A.	Shipment C.I.F. Brisbane
	10 to 11 months from receipt of o payment. Subject to other commitme
r	<ul> <li>Stage payment schedule as follows:</li> <li>25% of total contract value deposi</li> <li>30% at approximate half way stag</li> </ul>
ruction ior to shipment	<ul> <li>30% following completion and UK</li> <li>15% final payment due following s</li> </ul>

• DIESEL, STEAM & BATTERY ELECTRIC LOCOMOTIVES
 • ROLLING STOCK
 • NEW & SECONDHAND
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 • TRACKLAYING
 • TRACK MATERIALS
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For and on behalf of Alan Keef Limited

Patrick Keef

Sunshine Coast Regional Council

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$\Diamond$
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# **Alan Keef Limited**

Type:	K20E tramcar to seat 24 passenge	'S
		-
Customer:	Nambour Heritage Tramway	
Drawing:	P3060-1	
Dimensions:	Rail gauge:	24"/610mm
	Length over headstocks:	5.800mm
	Width:	2,364mm max
	Height:	2,850mm
	Total wheelbase:	2,000mm
	Wheel diameter:	18"/460mm
	Weight (unladen):	4,500kg
	Maximum service speed:	15kph
Wheelsets:	headstocks.	it. Single slot drawheads built into both
	"Metalastic" rubber chevron suspe	ension units. Both axles fitted with axle n gearboxes of our own manufacture. Drive
Brake Gear:	internal electromagnetic brake fo	mounted on one gearbox. Motor mounted r emergency and "dead man" situation. ided through electrical control gear.
Bodywork:	structure fabricated from rolled ste incorporating driver's control positi behind driving positions. Roof t Bulkheads to be glazed in laminate	tury single deck tram appearance. Basic el sections. Sheet steel front dash panels on and headlight. Two internal bulkheads to be of traditional wooden construction. d safety glass in wooden frames. Wooden as appropriate. Forged grab handles on
Interior:		wooden slatted seats on end balconies. s with traditional "flip-over" seat backs. nits.
Electrical Equip	ment:	
Electrical Equip Motor:		epex motor IP20 rated, incorporating ooled.
Electrical Equip Motor: Battery:	<ul> <li>Single 18kW 80V 2100 rpm S electromagnetic brake. Fan c</li> <li>Lead-acid wet cell type, comp</li> </ul>	ooled. rising of 1 x 80V battery split into 6 x 12V tanks ty of 420AH (equivalent to 34kW), suitable for

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#### ORDINARY MEETING Item 8.4.1 Nambour Heritage Tramway Project Update Attachment 4 Nambour Tramway 2015 Feasibility Analysis

Controller: · Curtis Sepex motor controller, 80V up to 600 amps with two heavy duty bidirectional lever operated speed controls mounted in steel box, rated to IP20, mounted at each driving position, with key switch isolator. Standard Features: neutral plug braking thermal protection speed control anti-roll-back safety trips maximum speedspeed management Adjustable Functions: • creep speed regenerative braking acceleration Safety Features: interlock switch on handbrake
 heavy duty foot operated "dead man" control activating plug braking explosion proof battery switch linked to electromagnetic brake and controller at each driving position · current overload protection connector Auxiliary Fittings: · 80V to 24V DC converter for ancillary · battery status indicator electrics, lights, horn, etc Battery Chargers: Fixed Single or three phase fully automatic unit. 80V, 100 amp output, IP55 rated. Complete with 5m of charging cable and plug. **Optional on board** 80V solar PV charging circuit comprising 10 x roof-mounted panels (1480mm x 670mm each) and associated control circuitry to provide an average of 5.5kW power per day. Finish: Railcar finish painted, lined and lettered to customer's specification. Woodwork to be painted, stained or varnished as appropriate. Instructions: Maintenance instruction and spare parts manuals provided. Commissioning: On site commissioning and full driver and maintenance training provided. 1 year or 2000 hours, whichever is less, from satisfactory commissioning, for materials and workmanship by Alan Keef Ltd. Manufacturer's warranty on motor and electrical equipment. 5 year warranty on battery. All subject to Warranty: inspection, fair wear and tear and misuse.

Alan Keef Limited

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# Alan Keef Limited

#### Nambour Heritage Tramway

#### Notes to accompany quotation and specification

#### 1. Background

The new tram is designed to operate along the remaining cane railway tracks left in situ following the closure of Moreton Sugar Mill. These run along Howard Street and Mill Street. Short extensions will be required to bring the track to a suitable terminus location at each end. At the Howard Street end a storage depot and maintenance building is planned. The total route will be approximately 800m. The steepest gradient is 1 in 32.

The new tram is designed to work within these parameters.

#### 2. Proposed design

Based on discussions, the proposed tram is to be of a traditional "heritage" appearance with battery electric operation,

We propose to use traditional lead-acid traction batteries with solid-state control gear to run a single DC motor driving all four wheels via axle drive gearboxes of our own design. This arrangement has been well proven on both our industrial and passenger equipment, being robustly and heavily designed and built with minimal maintenance requirements.

The tram is designed with individual, isolatable driving positions on both ends to allow full visibility in both directions.

The traction package is designed to allow the tram to operate for a normal 12 hour shift without need for recharge. An 8 hour overnight recharge period is required to allow the battery to reach full capacity. Additionally, when new we allow for a 25% margin on this duty cycle.

#### 3. Styling

The appearance of the tram is to be that of an early 20<sup>th</sup> century single deck, four wheel tram as those used in cities such as Brisbane and Melbourne.

The basic body style is of the "Open Toastrack" type for the main body of the tram with glazed bulkheads fitted to the front panels and inner bulkhead to afford the driver some degree of weather protection.

The bodywork will have a basic steel structure with a traditionally made hardwood roof, inner bulkhead panels and floor. Additional wooden panels and seat slats would be used to give the overall effect. Painting and lining out would be traditionally undertaken and styled.

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The suggested styling is provisional only at this stage and is open to interpretation and revision if required.

Full length footboards are fitted to allow ease of access.

#### 4. Provision of bare chassis

Our quotation NHT001 covers the supply of a completed, ready to run tram, which can be commissioned straight into service immediately following delivery.

During discussions on site, consideration was given to the supply of the bare chassis only, with the bodywork to be built locally. This way forward offers significant initial savings and a potential reduction in shipping cost as the bare chassis can be containerised. This option is covered by our second quotation NHT002.

#### 5. On board solar P.V. provision

In line with instructions, we are able to provide a level of on board solar P.V. power provision by mounting solar panels on the tram roof. This installation will provide a relatively small amount (5.5kW in an average day) of additional power.

We would not recommend this approach as we feel that the visual effect of the panels on the tram roof will detract from the "heritage" appearance of the tram, with a relatively small gain in power and a not insignificant cost. Our suggestion would be that a fixed installation on the depot building feeding into the grid would be more appropriate.

#### 6. Commissioning

We have included the services of a commissioning engineer to oversee the tram into service following delivery and to undertake driver and maintenance training for local staff.

#### 7. Conclusion

We trust that we have interpreted your requirements and look forward to working with the committee to bring this exciting project to fruition.

#### For and on behalf of Alan Keef Limited

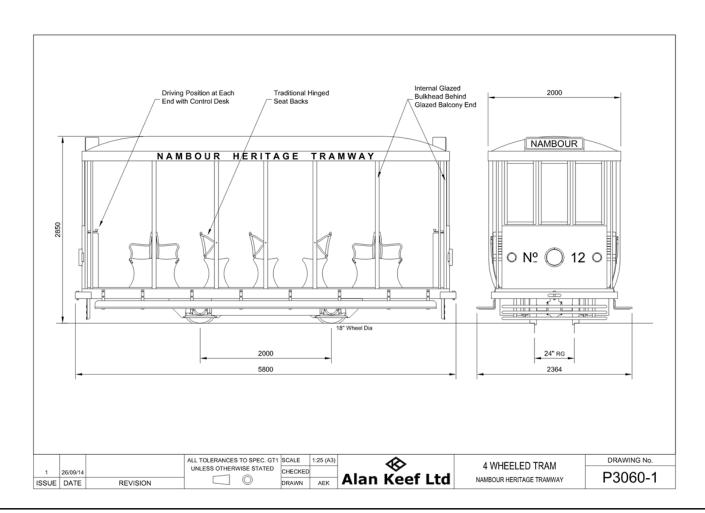
Patrick Keef

Alan Keef Limited

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31 JANUARY 2019

From: Gary Hardy [mailto:Gary.Hardy@severn-lamb.com] Sent: Wednesday, 27 August 2014 2:08 AM To: Ross Hunter Cc: Patrick Severn Lamb Subject: RE: Electric Tram for Nambour, Queensland

Dear Ross,

Thank you again for your enquiry into our Trolley.

For more information about Severn Lamb and the range of products and services that we offer, please find attached our **People Movers Brochure**.

Our Trolley is a battery electric powered vehicle able to operate on 2 foot (24") gauge. The duty cycle of the battery pack is specified according to the required daily operational hours. This means that we take into account factors such the 1km route length, the number of stops, speed, gradient, daily operational hours etc... to ensure the Trolley can run without charging the whole day. Charging can occur overnight.

Considering your outline project needs, a single deck Trolley would meet your capacity (20-30 passengers) and period styling requirements. For more detail, I have attached our **Trolley Brochure** for your review. We recently delivered a Double Deck Trolley to a shopping centre in Turkey. You can read more about this project via our blog by clicking here.

My comments to your questions are below:

*Is Severn Lamb able and interested in supplying this bespoke equipment*? We are very interested in projects of this nature. We have undertaken a number of very varied bespoke previously such as parade floats for the Athens Olympics and Electric Tour Trams built specifically to suit a cave tour to name but two. Do you have anything in your previously supplied range approaching this? Please see the blog link as per the above.

What would be a notional cost to supply this unit? Subject to the required duty cycle and final specification, this would be from £200,000 ex-works Alcester, UK.

What is your experience with battery powered units, and likely duty life of a battery before need to re-charge We have vehicles still operating over 15 years without having to replace the battery pack. The system will need to be charged every night.

Does the depot need any special gear (eg pit, jacking/lifting equipment) for

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*normal maintenance?* No, the Trolley is designed to be as easy to maintain as possible. The battery pack can be pulled out for ease of maintenance. *What normal warranty is offered?* We offer a 12 month warranty. *What would a delivery period be from order placing to delivery?* Subject to time of order and final specification, this would currently be around 12-18 months.

I look forward to hearing back from you.

Best regards,

Gary

Gary Hardy

Sales & Marketing Executive

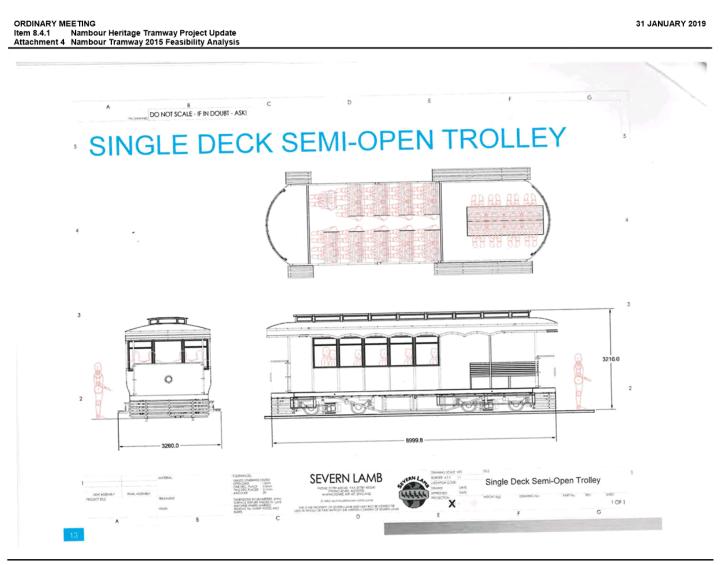
www.severn-lamb.com

Direct:	+44(0) 1789 767 153
Switchboa rd:	+44(0) 1789 400 140
Fax:	+44(0) 1789 400 240
Email:	<u>Gary.Hardy@severn-</u> lamb.com
Severn Lam	b, Tything Road, Alcester, Warwickshire, B49 6ET, United Kingdom

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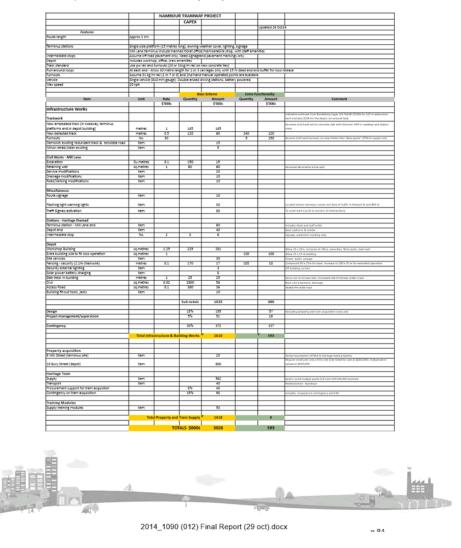
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Feasibility Assessment of Nambour Heritage Tramway

### Appendix 5: Assumed Capital & Ongoing Costs

Capital Costs - Ranbury Pty Ltd



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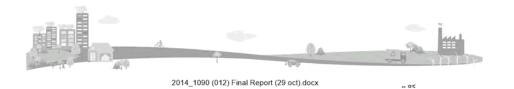
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Feasibility Assessment of Nambour Heritage Tramway

Operating and Maintenance Costs - Ranbury Pty Ltd

		NAME	BOUR TRAMWAY F	ROJECT	
			OPEX		
ssumptions					
Operated by Sunshine Co					
	around a workforce of 4 FTE wo	rkers			
Only single-person opera					
Klosk at Western Termin					
Multi-skilling with flexibl					
Low maintenance vehicle					
Low infrastructure maint	enance (track, buildings, depots)				
HR services, insurances,	etc absorbed within SCRC current	establishment,	costs etc		
Vehicle has an overhaul	every 10 years (budget \$100k)				
item	Unit	Quantity	Rate	Annual Cost	Comment
			\$000s	\$0005	
Operating				Budget Estimate	
Labour					
Manager	PTE	1	130	130	including On-Costs
staff	FTE	3	100	300	
Utilities	Item	+	-	8	Power, water supply/sewerage, telecoms
Rail Accreditaion	item			0	Nil for revenue <\$250k. \$6.5k for revenue>\$250k
Security				25	Regular drive-by patrols (out of hours)
Promotions				50	
			Operating Costs	513	
		+	operating costs	515	
Maintenance					
Tram				10	Excludes overhauls & labour
Depots/Stations				10	Repairs, grafitti removal
infrastucture				10	Minor only expected
		Ann	ual Maintenance Cost	30	
Periodic Overhauls		-			
Tram	Overhaul ev	ery 10 years	-	100	



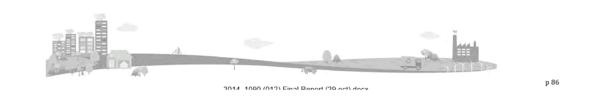
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Feasibility Assessment of Nambour Heritage Tramway



Appendix 6: Financial Feasibility Assessments



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					amway I Scenario																										
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	Value				1												000											1			
apital Costs	\$,000	Yr1	Yr2	Yr3	Ye4	Yr5	Yr6	Yr7	1/8	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	Yr16	Yh17	Yr18	Yr19	Yr20	Yr21	Yr22	Y/23	¥r24	7r25	Yr26	Yr27	Yr28	Yr29	Yr30
				<u> </u>				<u> </u>	<u> </u>	L			<u> </u>	<u> </u>	<u> </u>	<u> </u>									<u> </u>				<u> </u>		-
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$77 \$225	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track Stations - Heritage themed	5225	225	0	0	+ *	°	÷.	0	0	0	0	÷	0		l °	<u>°</u>	0		0	0	0	- °	0	l °	l °	0	0	0	0	0	0
	5466			0			0									0			<u> </u>	0					0						
Depot Overhaul for buildings	\$15	466	0		0	0	°	0	0	0	0	20	0	0	0	0	0	0	0	0	0	0	0	0	<u> </u>	0	0	0	0	0	0
Civil Works - Mill Lane	515	115	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	- °	0	0	0
Miscellaneous	2112	115	v		- v	~	v .	- v		- v		· ·	- V	-			- V	- V		0		- V	- V	- v			- V	~	- v		
	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0	0		0	0	0	0	0	0	0
Route signage	510	30	0	0	0	ŏ	ŏ	0	0	8	0	ŏ	0	0	0	0	ő	8	0	0	0	0	- ×	- <u> </u>	0	0	0	- v	ŏ	0	0
Flashing light warning lights Traff Signals activation	580	80	0	0	- <u> </u>	- v	+ °	÷	0	0	- °	- o	0	0	- °	0	ő	- v	8	0	0	0	0	l ö	0	0	0	l ö	0	0	6
Design	\$155	155	0	0		- č	- č	- č	0	1 °	- č	ŏ	- č	- °	- °	0	ŏ	- č	0	0	0	ŏ	- č	l ő	- °	0	- č	- č	- ŭ	ŏ	6
Project management/supervision	5155	155	0	- č	- č	ů č	+ °	- č	1 0	- ů	- č	- č	- °	- °	l °	0	- č	- č	- č	0	0	-	-	l ő	+ °	+ °	-	l ö	- č	ő	+ °
Safety Accreditation	\$49	49	0	0	0	0	ŏ	- č		-	0	0	ŏ	- °	- °	0	0	ŏ	ŏ	0	0			- č	- °	0	0	- ŭ	ŏ	0	6
Rail Accreditation Application Fee	549	- 49	0	0	-	ŏ	ŏ	1 ŏ	- ŏ	- ŭ	ŏ	ŏ	ŏ	1 ŏ	- č	0	ŏ	ŏ	ŏ	0	0	ŏ	ŏ	l õ	- č	- o	ŏ	- ŭ	ŏ	ŏ	6
Contingency	\$372	372	0	- č	1 ŏ	- č	ŏ	ŏ	1 õ	1 ő	Ť	ŏ	Ť	1 ŏ	- č	0	- v	Ť	- č	0	0	- č	- č	- č	- č	- v	- č	- č	- č	ŏ	6
Total Costs	\$3,120	3028.4	0	0	0	0	ő	0	0	0	1 o	120	0	0	0	0	ŏ	ŏ	0	ő	ő	120	- o	- č	ŏ	0	0	- ö	ŏ	ő	6
Operating Costs	33,220	3020.4				- v				-		120	-		-	- v	-	-	-	-		120		-	-			-	- °		
Labour	\$5,709	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430
Utilities	\$106	8	8	8	450		8		8	8	8	8		8	8		830	430	430	8		8		8	8	8	8		8	8	8
Rail Accreditation	5106	°	0	0	0	÷.	÷	0	- °	- °	0	0	0	- °	- °	0	0	- °	0	0	0	0	- °	- °	÷	0	0	- °	0	0	0
Security	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$554	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Maintenance	5398	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
atal Operating Costs	\$7,210	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
DTAL COSTS	\$10,330	3571.4	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543
evenues	740,330	33/1.4	.45	,,45	20	745	- 245	,45	,45	- 20	245		,45	,45	- 40	76	245	,45	745	245	- 45		- 40	,45	- 45	,45	-45	,45	245	745	- 243
Tram Revenue	\$364	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28
Merchandising	\$154	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
School Excursions	\$240	18	18	18	18	18	18	18	18	12	18	18	18	18	18	18	18	18	18	15	18	18	18	18	18	18	18	18	18	18	18
school Excursions	\$758	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	58	58	58	58	58
let Value	(\$9,572)	-3515	-486	-456	-456	-456	-456	-486	-456	-456	-486	-606	-456	-455	-486	-486	-456	-456	-486	-486	-486	-606	-456	-456	-486	-486	-455	-455	-485	-485	-45
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let Present Value	(\$9,572)	-		-	-	-		-	<u> </u>		-		-	<u> </u>		-	-	-			-	<u> </u>	<u> </u>	<u> </u>	-	-	<u> </u>	-	-		
tet Present verve	(39,572) NA	<u> </u>		-		<u> </u>		-	<u> </u>	<u> </u>		<u> </u>	-	<u> </u>		-	-	-	-		-	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	-	-		<u> </u>
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iscount Rate	7%	1			1		1		1	1	1		1	1					1									1	1		1

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	Present			·	· · · · ·					· · · ·			·																		
	Value															5.0	000														
ltem	\$,000	Yr1	Y/2	Yr3	Yr4	Yr5	Yr6	¥/7	Yr8	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	Yr16	9/17	Yr18	Yr19	Yr20	Yr21	Yr22	Y/23	¥r24	Yr25	Yr26	Yr27	Yr28	¥/29	Yr30
							_			<u> </u>																					
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$53	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$106	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$456	465	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$11	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	51	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$372	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Costs	\$3,092	3028.4	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
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Labour	\$4,459	430	430	430	430	430	430	430	430	430	430	430	430	430	450	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430
Utilities	\$83	\$	8	8	8	8	\$	8	8	8	8	8	8	8	8	\$	\$	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$259	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$518	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Maintenance	5311	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Total Operating Costs	\$5,631	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
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Tram Revenue	\$284	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28
Merchandising	\$120	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
School Excursions	\$187	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Net Value	(\$8,132)	-3515	-486	-486	-456	-486	-486	-486	-456	-486	-486	-606	-456	-486	-486	-486	-456	-456	-486	-486	-486	-606	-456	-486	-486	-486	-455	-485	-485	-485	-485
ano	gC																														
Discount Rate	10%																														

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		Nambo	ur Heri	tage Tra	amway	Feasibil	ity Asse	ssment																							
Concession of the second																															
conange ranbu	ry																														
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1	Present Value	I															200														
tem	5.000	¥.4	W-5	¥/3	Yr4	1 X.E	Yr6	1/7	Y/8	Y:9	Yr10	7/11	Y/12	Yr13	Yr14	>,1 1/15	XX0	9/17	Yr18	Y/19	7/20	¥/21	Yr22	Y/23	¥/24	1/25	Yr26	Yr27	Y/28	¥/29	Yr30
Cepitel Costs	5,000	Yr1	Yr2	173	114	Yr5	1/10	117	178	119	1720	1/11	1/12	1/15	1/14	1/15	1/20	1/1/	1/18	1/19	1120	11/21	1722	1/23	1724	1125	7720	112/	1728	1729	1130
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	- o	ŏ	ŏ	0	- ŏ	0	0	0	0	0	0	ŏ	0	ŏ	0	0	ŏ	- ŭ	ŏ	ő	0	0	0	0	0	0
Overhauls for Trams	543	0	0	0	0	- ŭ	ŏ	- ŭ	6	- °	0	100	0	0	0	0	- v	0	0	0	0	100	0	- č	- <u> </u>	- o	0	0	0	0	0
Track	5225	225	0	- ŏ		- č	ŏ	- ŏ	1 ő	۰,	- č	0	ŏ	ő	0	0	- č	ŏ		0	0	100	- č	Ť	- č	- ů	0	0	ő	0	0
Stations - Heritage themed	5106	105	0	0	0	0	ŏ	0	6	- °	0	0	0	0	0	0	0	0	0	0	0	0	- <u> </u>	- č	- <u></u>	0	0	0	0	0	0
Depot	\$456	466	0	- č	- č	1 ő	Ť	٠,	1 ő	۰,	1 ő	ŏ	0	ŏ	0	ő	- č	÷	ő	ő	0	ŏ	- č	٠.	٠.	- č	ő	ő	ŏ	0	0
Overhaul for buildings	59	0	0	- o	0	- č	ŏ	- č	- o	1 ŏ	- č	20	0	ő	0	ő	- č	ŏ	0	ő	0	20	ŏ	1 ő	- č	- o	0	0	0	0	0
Civil Works - Mill Lane	\$115	115	0	0	- ŭ	ŏ	ŏ	0	1 ŏ	1 ŏ	1 ů	0	0	ő	0	ő	0	0	ő	ő	0	0	- ŭ	1 õ	1 ů	- o	0	0	0	0	0
Miscellaneous	50	0	0	0	0	0	ő	ő	ő	1 č	ő	ő	0	0	0	ő	ŏ	0	0	ő	ů ů	0	0	- i	ů ř	ő	0	0	0	0	0
Route signage	510	10	0	0	0	0	0	0	10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	- 0
Flashing light warning lights	\$30	30	0	ő	0	0	ő	0	0	0	0	0	0	0	0	ů.	0	0	0	ő	0	0	0	- č	0	ő	0	0	0	0	0
Traffi Signals activation	\$80	80	0	ŏ	0	0	- č	ŏ	1 ő	1 ő	0	0	0	0	0	ő	0	ő	ő	ō	0	0	0	1 õ	- o	ŏ	ő	0	0	0	0
Design	\$155	155	0	0	0	0	0	ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
Project management/supervision	\$52	52	0	0	0	0	ŏ	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	i i	- O	0	6	i i	i i	0	0	0	0	0	0	0	0	0	0	0	ō	t i	i i	0	i i	0	0	0	0
Rail Accreditation Application Fee	51	1	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0
Contingency	\$372	372	0	ō	0	0	- i	0	t ö	i i	i i	0	0	0	0	0	0	0	0	0	0	0	- o	t ö	i i	0	0	0	0	0	0
Total Costs	\$3,079	3028.4	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs	Pagerra		-			<u> </u>	- ·		<u> </u>	-	<u> </u>		-	-	-	-		-	-	-	-			<u> </u>	-	<u> </u>		-		-	
Labour	\$3.879	430	430	430	430	430	430	430	430	430	430	430	430	430	450	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430
Utilities	\$72	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$226	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Premotions	\$451	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Maintenance	5271	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Total Operating Costs	\$4,899	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
TOTAL COSTS	\$7,978	3571.4	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543
Revenues			-																												
Tram Revenue	\$247	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28
Merchandising	\$105	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
School Excursions	\$163	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Total Revenues	\$514	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	58	58	58	58	58
Net Volue	(\$7,464)	-3515	-486	-486	-456	-486	-486	-486	-456	-486	-486	-606	-456	-486	-486	-486	-456	-456	-486	-486	-486	-606	-456	-486	-486	-486	-485	-485	-485	-485	-485
Net Present Value	(\$7,464)	1		<u> </u>	-	<u> </u>	-	-			<u> </u>						<u> </u>							<u> </u>		<u> </u>					
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ensitivity Testing: Increase costs 10%, r				_	_		_	_			_	_	_		_		_	_		_	_	_		_	_	_	_	_	_	_	_
ensitivity lesting: increase costs 10%, r	evenue decri	1076		<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>											
	Present													L																	
	Value																000														
tem	5.000	Yr1	Y/2	Y/3	Yr4	Yr5	Y/6	¥/7	Y/8	Yr9	Yr10	7/11	Yr12	Yr13	Yr14	Yr15	Yr16	9:17	Yr18	Y/19	Yr20	Yr21	Yr22	Y/23	¥/24	7/25	Yr26	Yr27	Y/28	¥/29	Vr30
Capital Costs	5,000	1/2	172	173	114	115	1/10	117	178	119	1730	7/11	1/12	1/15	1/14	1/15	1/20	1/1/	1/18	1/19	1120	7721	1722	1/23	1724	1125	7720	112/	1728	1129	1130
Property acquisition	\$682	682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	l .	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	5822	822.45	0	0	- č	ŏ	ŏ	0	- ×	0	- ŭ	ŏ	ŏ	0	0	0	ŏ	- č	1 ŏ	- č	0	- v	ŏ	- č	0	0	0	0	ŏ	ŏ	0
Overhauls for Trams	584	0	0	1 ő	1 ő	ő	ŏ	0	1 ő	- °	1 ů	110	0	1 ő	0	0	ŏ	- č	1 ő	ő	ő	110	ő	- č	0	ŏ	ő	ő	ő	0	1 õ
Track	\$248	247.5	0	- č	۲. č	ŏ	ŏ	ŏ	1 ő	1 ő	1 č	0	1 č	1 ő	0	0	ŏ	1 č	<del>ا</del> ت	- č	0	0	ŏ	٠.	- č	0	ő	ŏ	ŏ	ő	1 ő
Stations - Heritage themed	5117	116.6	0	1 ŏ	- č	ő	ŏ	ŏ	0	0	1 ů	ŏ	ŏ	1 ő	0	ů.	ŏ	0	1 ő	- °	0	0	ŏ	ŏ	ő	ő	ŏ	ő	ŏ	ő	0
Depot	\$5137	513	0	- ŭ	1 č	ŏ	Ť	1 č	1 ő	1 ő	٠,	٠.	٠ ٠	۰,	0	ő	ŏ	- č	<del>ا</del> ت	- č	0	- v	1 č	٠.	٠.	ŏ	ŏ	ŏ	٠.	ŏ	0
Overhaul for buildings	517	0	0	- o	۰.	ŏ	ŏ	ŏ	- o	- ŏ	1 õ	22	ŏ	1 ŏ	ő	0	ŏ	- č	۲ŏ.	- č	0	22	ŏ	1 ő	- č	ő	ŏ	ő	ŏ	ő	0
Civil Works - Mill Lane	\$127	126.5	0	1 ŏ	1 ŏ	ŏ	ŏ	1 ů	1 ŏ	- °	1 ů	0	1 ů	1 ŏ	ő	ő	ŏ	1 ů	1 ŏ	1 ů	ŏ	0	ŏ	1 č	- č	ŏ	ŏ	ő	ŏ	ő	1 ŏ
Miscellaneous	50	0	0	ŏ	1 č	r ö	ŏ	ŏ	1 o	10	r ő	ŏ	ŏ	1 o	- o	ŏ	ŏ	- č	۰,	, i	ŏ	- a	- o	1 i	r o	ŏ	ŏ	0	ŏ	ő	ŏ
Route siznane	511	11	0	0	0	0	0	0	0	1 0	0	0	0	0	0	0	0	0	1 0	1 ö	0	0	0	0	0	ŏ	0	0	10	0	Ť
Flashing light warning lights	\$33	33	0	ő	- č	0	ő	0	ő	0	0	0	0	- o	0	ů.	ő	0	1 õ	- č	ő	0	0	0	0	ő	0	0	0	0	0
Traffi Signals activation	588	88	0	ŏ	- ŏ	0	- č	ŏ	1 õ	1 0	0	0	1 o	1 õ	0	0	ő	1 õ	<del>ا ق</del>	1 õ	ő	1 0	0	1 õ	0	ŏ	ő	0	ō	ő	ŏ
Design	\$170	170	0	0	-	0	0	- o	0	6	0	0	0	0	0	0	0	0	1 0	-	0	0	0	0	0	0	0	0	0	0	6
Project management/supervision	\$57	57	0	0	6	0	ō	0	6	0	0	ō	0	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	t õ
Safety Accreditation	\$54	53.9	0	0	1 õ	1 õ	- č	0	10	10	- o	ő	0	10	- O	0	ő	0	1 0	÷	0	1 0	10	1 č	0	ō	1 0	0	1 č	0	1 0
Rail Accreditation Application Fee	51	1.1	0	0	10	0	0	0	6	6	0	0	0	6	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
Contingency	\$409	409	0	0	6	i i	- O	0	6	t ö	i i	- o	- o	6	0	0	0	- o	6	i i	0	- o	0	i i	0	0	- o	0	ō	0	t õ
Total Costs	\$3,432	3331.2	0	0	0	0	0	0	0	0	0	132	0	0	0	0	0	0	0	0	0	132	0	0	0	0	0	0	0	0	0
Operating Costs	10,-22		-		<u> </u>	<u> </u>	-	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	-	-	<u> </u>	<u> </u>	<u> </u>		-		-	<u> </u>	<u> </u>		<u> </u>		<u> </u>	-	<u> </u>
Labour	\$6.280	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473
Utilities	\$117	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Rail Accreditation	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$365	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
Promotions	\$730	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Maintenance	\$438	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
Total Operating Costs	\$7,931	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3
TOTAL COSTS	\$11,363	3928.5	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	729.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	729.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3
Revenues																															
Tram Revenue	\$331	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Merchandising	\$140	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
School Excursions	\$218	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17
fotal Revenues	\$689	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
Net Value	(\$10,674)	-3877	-545	-546	-546	-546	-546	-546	-545	-545	-545	-677	-545	-545	-545	-545	-545	-545	-545	-545	-545	-677	-545	-545	-545	-545	-545	-545	-545	-545	-545
Net Present Value	(\$10,674)						<u> </u>																								
RR	NA																														
Discount Rate	75				-		_	_		-	-																				_

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Sunshine Coast Regional Council

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	Present			·		·	·	·	-	·	·									·			·	·		-	-				· · · ·
	Value															\$2	000														
en .	\$,000	Yr1	Y/2	Yr3	Ye4	Yr5	7/6	Yr/7	Yiß	Y/9	Yr10	Ye11	Yr12	Yr13	Yr14	Yr15	Yr16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Y/23	¥/24	Ye25	Yr26	¥r27	Y/28	¥r29	Yr30
apital Costs																															
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$77	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$106	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$466	466.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$15	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	154.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	51.613	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	\$1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$372	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Costs	\$3,120	3028.4	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs																															
Labour	\$5,709	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430
Utilities	\$106	8	8	8	8	\$	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$664	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Maintenance	\$398	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Total Operating Costs	\$7,210	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
TOTAL COSTS	\$10,330	3571.4	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543
Revenues																															
Tram Revenue	\$331	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Merchandising	\$140	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
School Excursions	\$218	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17
fotal Revenues	\$689	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
iet Value	(\$9,641)	-3520	-491	-491	-491	-491	-491	-491	-491	-491	-491	-611	-491	-491	-491	-491	-491	-491	-491	-491	-491	-611	-491	-491	-491	-491	-491	-491	-491	-491	-49
Vet Present Value	(\$9,641)	1			-	<u> </u>		<u> </u>	<u> </u>	<u> </u>	-									<u> </u>			<u> </u>	<u> </u>		<u> </u>					-
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Discount Rate	75		_	-	-					-						-	-		-	-							-		-	-	

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ten	5.000	¥/1	Y/2	Yr3	Ye4	Yr5	7/6	197	YH8	Y/9	Yr10	Ye11	Yr12	Yr13	Yr14	7/15	Yr16	Yr17	¥/18	Yr19	Yr20	Yr21	Y/22	Y/23	¥/24	Yr25	Yr26	¥r27	Y/28	¥/29	Ye
Tapital Costs	3,000	172	112	11:3	1/4	173	7/0	117	1/10	1/9	1/10	7/11	1/12	1/13	1714	7725	1/10	1/1/	1/18	1719	1120	7721	1722	1723	1124	1125	1120	1127	1728	1129	
Property acquisition	\$620	620	0	0	0	0	0	l .	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Property acquisition Heritage Tram	\$748	747.68	0	0	0	0	0	1 <del>.</del>	0	0	0	0	- <del>-</del>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Overhauls for Trams	\$77	0	0	l ö	0	ŏ	ŏ	<del>ا د</del>	- č	0	0	100	<del>ا د</del>	ő	0	0	0	ŏ	0	0	0	100	ŏ	ŏ	0	6	0	0	ŏ	6	1 8
Diverhauls for Trams	\$225	225	0	0	0	0	- °	8	- °	0	0	100	l ÷	0	0	0	0	- °	0	0	0	100	- °	0	0	0	0	0	0	0	
Stations - Heritage themed	5106	105	0	0	0	0	0	0	8	0	0	0	8	0	0	0	0	0	0	0	0	0	°	0	0	0	0	0	0	0	- 0
Depot	\$466	466.25	0	0	0	0	0	l ÷	l °	0	0	0	- ö	0	0	0	0	- °	0	0	0	-	- č	0	0	0	0	0	0	0	-
Overhaul for buildings	\$15	400.25	0	1 8	0	- <u></u>	- č	1 .	1 .	0	0	20	- °	- ŭ	0	0		- U	0	0	0	20	- č	- °	0	-	0	0	0	0	
Civerhaul for buildings Civil Works - Mill Lane	\$15	115	0	0	0	0	0	- °	- °	0	0	20	0	0	0	0	0	ů č	0	0	0	20	- °	0	0	0	0	0	0	0	-
Miscellaneous	5115	0	-	0	- ů	- č	ő	0	- č	- ů	0	0	0			-	- č	- č		0	ő	0	- č	- č		-	0	ő	0	0	- 0
	50	10	0		6	0	0	6	F 0	0	0	0		0	0	0	0	0	0	0	0		<u></u>	- °	0	0	0	0	0	0	6
Route signage	\$10	30	0	-	0	0	0	-	-	0	0	0	-	0	0	0	0	0	0	0	0	0	- ŭ	0	0	-	0	0	0	0	
Flashing light warning lights	\$10 \$80		0	0	0	0	0	8	8	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Traffi Signals activation	\$80	80	0		0	0		-			0		-		0	0	0	- °	0		0	-	0	0	0		0				0
Design	5155	154.84	-	0		<u> </u>	0	<del>ا د</del>	0	0	0	0	<u> </u>	0			- °		-	0		-	· ·			0	0	0	0	0	0
Project management/supervision	549	51.613	0	0	0	0	0			0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation			0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		0		0
Rail Accreditation Application Fee	\$1 \$372	1	0	0	0		0		0	0		0		0	0		0	0	0	0		0	0	0		0		0	0	0	0
Contingency		372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		0		0
Total Costs Operating Costs	\$3,120	3028.4		0	0	0	0		0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	v	0	0	0	<u> </u>
	\$5.709																														430
Labour		430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	
Utilities Rail Accreditaion	\$106 \$0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	5332								0	0				0					0		0		0			25	25	25			25
Security	\$332 \$664	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	5398				30			30																			30	30			
Maintenance		30 543	30 543	30 543	543	30 543	30 543	543	30 543	30	30 543	30 543	30 543	30 543	30 543	30	30 543	30 543	30 543	30 543	30 543	30	30 543	30	30 543	30	543	50	30 543	30	54
fotal Operating Costs IOTAL COSTS	\$7,210				543	543	543	543		543 543	543		543	543	543	543	543	543		543			543		543	543 543	543	543	543	543 543	543
IDIAL COSIS Revenues	\$10,330	3571.4	543	543	>43	>43	545	545	543	>43	543	663	545	>43	343	545	543	343	543	>45	543	663	>43	543	345	543	243	345	545	545	1 24
	7100	10	10	10		10	10	10	10	10	10	10	10	10	10	10	20	10	10	10	10	20	10	10	10	10	80	10	10	10	-
Tram Revenue	\$400	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	8
Merchandising	\$169	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	1
School Excursions	\$264 \$834	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	2
otal Revenues let Value		62	63	63 -480	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63 -480	63	63	63	63	63	63	63	63	63	6
see value	(\$9,497)	-3309	-480	-480	-480	-480	-450	-480	-480	-480	-450	-600	-450	-480	-480	-450	-450	-480	-480	-480	-680	-600	-480	-480	-480	-480	-450	-480	-480	-480	-4
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iet Present Value	(\$9,497)																														
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Capital Costs																															
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$77	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage the med	\$106	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$466	466	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$15	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous																															
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	\$1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$372	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tota/ Costs	\$3,120	3028.4	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs																															
Labour	\$5,709	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430
Utilities	\$106	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$664	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Maintenance	\$398	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Total Operating Costs	\$7,210	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
TOTAL COSTS	\$10,330	3571.4	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543
Revenues	1																														
Tram Revenue	\$384	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Merchandising	\$154	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
School Excursions	\$240	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
fotal Revenues	\$778	58	58	58	58	58	58	58	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
Vet Value	(\$9,552)	-3513	-485	-485	-485	-485	-485	-485	-454	-484	-454	-604	-454	-484	-484	-454	-454	-454	-484	-484	-484	-604	-454	-454	-484	-484	-454	-454	-484	-484	-454
Net Present Value	(\$9,552)																														
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Discount Rate	7%				1					1	1																				

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em	\$,000	Yr1	Y/2	Yr3	Ye4	Yr5	7/6	Ye7	Yiß	Y/9	Y/10	Ye11	Yr12	Y/13	Yr14	Yr15	Yr16	Yr17	Yr18	Yr19	Yr20	Yr21	Y/22	Yr23	¥/24	Yr25	Yr26	¥r27	Y/28	¥r29	Ye3
apital Costs					-			-			-				-										-						-
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$53	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	6
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Stations - Heritage themed	\$106	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Depot	\$466	466	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Overhaul for buildings	\$11	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Miscellaneous	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	\$1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$372	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
otal Costs	\$3,092	3028.4	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
perating Costs																															
Labour	\$4,459	430	430	430	430	430	430	430	430	430	430	430	430	450	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	434
Utilities	\$83	8	8	8	8	\$	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$259	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$518	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Maintenance	\$311	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	X
otal Operating Costs	\$5,631	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	54.
OTAL COSTS	\$8,723	3571.4	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543
levenues																															
Tram Revenue	\$299	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	23
Merchandising	\$120	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	1.
School Excursions	\$187	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	11
otal Revenues	\$607	58	58	58	58	58	58	58	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	51
let Value	(\$8,116)	-3533	-485	-485	-485	-485	-485	-485	-484	-484	-484	-604	-484	-484	-484	-484	-454	-484	-484	-484	-484	-604	-484	-484	-484	-484	-454	-484	-484	-484	-4
iet Present Value	(\$8,116)																														
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pital Costs																															
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$43	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$106	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$466	466	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$9	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$115	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Miscellaneous	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Rail Accreditation Application Fee	\$1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$372	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
otal Costs	\$3,079	3028.4	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
perating Costs																															-
Labour	\$3,879	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	43
Utilities	\$72	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$226	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	2
Promotions	\$451	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Maintenance	5271	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	32
tal Operating Costs	\$4,899	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	54
DTAL COSTS	\$7,978	3571.4	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	54
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Tram Revenue	\$260	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	2
Merchandising	\$105	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
School Excursions	\$163	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	1
tal Revenues	\$528	58	58	58	58	58	58	58	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	5
rt Value	(\$7,450)	-3523	-485	-485	-485	-485	-485	-485	-484	-484	-484	-604	-484	-484	-484	-484	-484	-484	-484	-484	-484	-604	-484	-484	-484	-484	-454	-484	-484	-484	4
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et Present Value	(\$7,450)			<u> </u>	-	<u> </u>	<u> </u>	<u> </u>		<u> </u>		_	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>	<u> </u>	<u> </u>	-		-	-	<u> </u>	<u> </u>	-		<u> </u>	<u> </u>	+
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Sunshine Coast Regional Council

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apital Costs				<u> </u>	<u> </u>			<u> </u>		<u> </u>	<u> </u>	-	<u> </u>	<u> </u>	<u> </u>					-	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	-			<u> </u>	┝
Property acquisition	\$682	682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$822	822.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$84	0	0	0	0	0	0	0	0	0	0	110	0	0	0	0	0	0	0	0	0	110	0	0	0	0	0	0	0	0	0
Track	\$248	247.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	5117	116.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Depot	\$513	513	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$17	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	
Civil Works - Mill Lane	\$127	126.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route signage	\$11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flashing light warning lights	\$33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$88	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$170	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$57	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$54	53.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	\$1	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$409	409	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
otal Costs	\$3,432	3331.2	0	0	0	0	0	0	0	0	0	132	0	0	0	0	0	0	0	0	0	132	0	0	0	0	0	0	0	0	0
Operating Costs																															
Labour	\$6,280	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	473	47
Utilities	\$117	8.8	8.8	\$.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.1
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$365	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27
Promotions	\$730	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
Maintenance	\$438	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
otal Operating Costs	\$7,931	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597
OTAL COSTS	\$11,363	3928.5	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	729.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	729.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597.3	597
levenues																															
Tram Revenue	\$349	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	27	2
Merchandising	\$140	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	1
School Excursions	\$218	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	1
otal Revenues	\$707	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	54	54	54	54	54	54	54	54	54	54	5
let Value	(\$10,656)	-3876	-544	-544	-544	-544	-544	-544	-544	-544	-544	-676	-544	-544	-544	-544	-544	-544	-544	-544	-544	-676	-544	-544	-544	-544	-544	-544	-544	-544	-5
iet Present Value	(\$10,656)																														
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31 JANUARY 2019

Sunshine Coast Regional Council

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apital Costs	6430	630		-			-		-		-	-				-		-							-					-	6
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Heritage Tram	\$748	747.68	0	0			0	0	0		0	0	0					0				0	0	0		0	0	0	0	0	
Overhauls for Trams	\$77	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	-
Track	\$225 \$106	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0		0	0	-
Stations - Heritage themed	\$106 \$466	466.25	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Depot	\$15		-	0	0	- °	- č	- ÷	0	0	0	0		0	0	0	-		0	0			0	0			0		0	0	0
Overhaul for buildings Civil Works - Mill Lane	\$15	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	-
Civil Works - Mill Lane Miscellaneous	5115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
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Route signage	\$10	30	0	0	0	0	0	-			0	0	-		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Flashing light warning lights Traffi Signals activation	\$30	30	0	0	ŏ	ŏ	ŏ	0	0	0	ŏ	- č	6	0	0	0	ŏ	0	0	0	0	0	0	ŏ	0	8	0	0	0	- č	1
Traffi Signals activation	\$80	154.84	0	0	0	0	0	- °	0	0	0	0	-	0	0	0	0	- °	0	0	0	0	0	0	0	0	0	0	0	- °	+ *
Project management/supervision	5155	51.613	0	- °	0	ő	- č	<del>ا د</del>	0	0	0	0	<del>ا د</del>	- ö	0	0	8	- ×	0	0	0	0	0	ő	0	6	0	0	ő	<del>ا د</del>	+ *
Safety Accreditation	549	49	0	- č	0	ŏ	Ť	٠.	ő	- č	1 ő	l õ	<del>ا</del> ت	- č	ő	0	ŏ	ŏ	ŏ	ő	0	ő	0	ŏ	ŏ	- č	0	0	ŏ	٠,	<del>ا</del> ۃ
Rail Accreditation Application Fee	51	1	0	- č	1 o	ŏ	ŏ	<del>ا</del> ق	ő	1 ő	1 ŏ	- č	<del>ا د</del>	- č	ŏ	0	ŏ	ŏ	ŏ	ŏ	0	0	ő	ŏ	ŏ	- č	ő	0	ŏ	- č	<del>ا</del> ۃ
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otal Costs	\$3,120	3028.4	0	ő	1 o	ő	ő	1 o	0	ő	- o	120	1 o	- o	ő	0	0	ő	0	0	0	120	ő	ő	ő	0	0	0	ő	- o	- ŏ
perating Costs	33,220	3020.4	-	<u> </u>	۰,	۰,	<u> </u>	<u>۴</u>	- °	- <sup>v</sup>	<u> </u>	110	<u> </u>	- v	- v	<u> </u>	- U	۴.	- U	- V	-	140	- v	-	- <sup>v</sup>	<u> </u>	- v	<u> </u>	- V	<u>۴</u>	<del>ب</del>
Labour	\$5,709	430	430	450	430	430	430	430	430	430	430	430	430	450	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	43
Utilities	\$106	8	8	8	8	*,0	8	8	8	8	8	8	8	8	*/~	8,50	4,00		8,00	4,00	8	8	8	8	*.~	8	8	8	8	8	8
Rail Accreditaion	50	0	0	0	0	°	0	- °	0	0	0	°	- °	0	ô	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ő	8
Security	5332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	2
Promotions	5552	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Maintenance	\$398	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	1 2
otal Operating Costs	\$7.210	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	- 54
OTAL COSTS	\$10,330	3571.4	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	- 54
evenues	200,000	2012.4		~	~	~	~		~	~	~			~	~	~	~	~	~	~	~	005	~	~	~	~	~	~	~	~	- "
Tram Revenue	\$349	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	27	23
Merchandising	\$140	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10	10	10	11	11	11	10	11	11	11	11	11	1
School Excursions	5218	10	16	16	16	16	16	16	16	16	16	16	16	16	16	16	11	16	17	17	17	17	17	17	17	17	17	17	17	17	+
otal Revenues	\$707	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	54	54	54	54	54	54	54	54	54	54	1
iet Value	(\$9,623)	-3518	-490	-490	-490	-490	-490	-490	-490	-490	-490	-610	-490	-490	-490	-490	-490	-490	-490	-490	-489	-609	-489	-489	-489	-489	-459	-489	-489	-489	-4
	(00,043)	-5010	-+90		-490	-490	-490			-490		-010				-490				90							-+09				
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apital Costs				<u> </u>		<u> </u>		<u> </u>	<u> </u>								-								<u> </u>	<u> </u>					
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$77	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$106	105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Depot	\$466	466.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$15	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	-
Civil Works - Mill Lane	\$115 50	115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Miscellaneous	\$0 \$10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Route signage		10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	154.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52		0	0	0	0			0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0			0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	51	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$372	372	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
otal Costs	\$3,120	3028.4	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs	1																														<u> </u>
Labour	\$5,709	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	430	43
Utilities	\$106 \$0	8	8	8	8	*	8	8	8	8		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion		0			0				0	0	0				0	0	0	25	0	0				0				0	0	0	25
Security	5332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25			25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$664 \$398	50	50	50	50	50	50	50	50 30	50 30	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50 30	50 30	50	
Maintenance	57,210	30 543	30 543	30 543	30 543	30 543	30 543	50	50	543	30 543	30 543	30	30 543	30	30	30 543	50	543	30 543	34										
otal Operating Costs OTAL COSTS	57,210	3571.4	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543		543	543	543	543	543	543	543	543	54
International Costs	510,550	35/1.4	545	>43	>43	>43	545	545	>43	>43	543	065	545	>43	343	343	545	343	543	>45	243	663	343	545	343	543	243	343	345	545	1 24
Tram Revenue	5422				1 13		13		13					13	13				13	13			15	13							<u> </u>
	5422	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	3
Merchandising School Excursions	5189	13				13	13				13	13	13								13				13	13		13		13	1
	5254	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	2
otal Revenues		64	64	64	64	64	64	64	64	64	64	64	64	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	6
let Value	(\$9,475)	-3507	-479	-479	-479	-479	-479	-479	-479	-479	-479	-599	-479	-478	-478	-478	-478	-478	-478	-478	-478	-598	-478	-478	-478	-478	-478	-478	-478	-478	-4
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	Value		14.0			1 24	1 24	1 1 2			1 1 10								1 10 10	14.00					1 10 10 4			× 3.5	14.30	10.000	1
em apital Costs	\$,000	Yr1	Yr2	Yr3	Yr4	7/5	116	117	Y/S	7/9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	Yr16	Yr17	Yr18	Yr19	¥r20	Yr21	Yr22	Yr23	Yr24	1/25	Yr26	¥r27	Yr28	Yr29	Yr
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Property acquisition	\$620 \$748	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram		748	0	0	0	0	0	0	0	0	•	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$77	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	549	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$314	314	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$15	0	ô	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$86	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous						<u> </u>	<u> </u>				<u> </u>																				_
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	\$1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$488	488	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
otal Costs	\$2,998	2906	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs																															
Labour	\$863	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Utilities	\$106	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditation	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Maintenance	\$319	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
otal Operating Costs	\$1,952	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	14
OTAL COSTS	\$4,950	3053	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	14
levenues																															
Tram Revenue	\$364	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	2
Merchandising	\$154	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	1
School Excursions	\$240	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	13
otal Revenues	\$758	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	58	58	58	58	5
iet Value	(\$4,192)	-2996	-90	-90	-90	-90	-90	-90	-90	-90	-90	-210	-90	-90	-90	-90	-90	-90	-90	-90	-90	-210	-90	-90	-90	-90	-89	-89	-59	-59	4
let Present Value	(\$4,192)				-	-	<u> </u>				<u> </u>																				-
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tem	5.000	Y/1	Yr2	Yr3	Yr4	Y/5	Y/6	¥r7	Y/S	Y/9	¥r10	Yr11	Yr12	7/13	Yr14	Y/15	Yr16	Yr17	Yr18	Y/19	¥/20	¥/21	Yr22	Yr23	¥/24	¥r25	Yr26	¥/27	Yr28	Y/29	Yr30
Capital Costs	4,000																														
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	748	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$53	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$314	314	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$11	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$86	86	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	52	Ô	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	51	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$488	488	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Costs	\$2,970	2906	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs	\$674																														
Labour	583	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Utilities Rail Accreditaion	\$83 \$0	8	8	8	8	8	8	8	8	8	8	8	8	8	0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Security	\$259	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$259	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Maintenance	5249	25	25	25	2.5	20	25	25	25	20	23	20	25	25	20	2.5	25	20	25	25	25	25	20	25	25	25	25	20	20	25	25
Total Operating Costs	\$1,524	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	247	147	147	147	147	147	147
TOTAL COSTS	54,495	3053	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147
Revenues	,-					-4/				247		207			-47	- 47		-47	-47	-47								-4/	-4/		
Tram Revenue	\$284	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28
Merchandising	\$120	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
School Excursions	\$187	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Iotal Revenues	\$591	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	58	58	58	58	58
Net Value	(\$3,903)	-2996	-90	-90	-90	-90	-90	-90	-90	-90	-90	-210	-90	-90	-90	-90	-90	-90	-90	-90	-90	-210	-90	-90	-90	-90	-89	-89	-59	-89	-89
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Net Present Value	(\$3.903)	1		<u> </u>	-	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>		<u> </u>	<u> </u>			-	<u> </u>	-	<u> </u>	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>	<u> </u>	<u> </u>				
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Discount Rate	10%			<u> </u>	-	<u> </u>	<u> </u>	-	<u> </u>		<u> </u>		<u> </u>	<u> </u>			-	<u> </u>	-	-	<u> </u>	<u> </u>	<u> </u>	-	<u> </u>	<u> </u>	<u> </u>				
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	Present																													<u> </u>	
	Value	I															000														
item	5.000	¥/1	Y/2	Yr3	Ye4	Yr5	7/6	1/27	Y/S	Y/9	¥r10	Ye11	Y/12	Y/13	Yr14	Y/15	Yr16	Y/17	Y/18	Yr19	Yr20	Yr21	Y/22	Y/23	¥/24	Yr25	Yr26	Yr27	Y/28	¥/29	Yr30
Capital Costs																									-						
Property acquisition	\$620	620	0	0	0	0	0	<u>ہ</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	748	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$43	0	0	0	0	0	0	0	0	0	0	100	6	0	0	0	0	6	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage thermed	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$314	314	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$9	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$86	85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	\$1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$488	488	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Costs	\$2,957	2906	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs																															
Labour	\$586	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Utilities	\$72	8	8	8	8	8	8	8	8	\$	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	5226	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$226	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Maintenance	5217	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
Total Operating Costs TOTAL COSTS	\$1,326 \$4,284	147 3053	147 147	147	147	147	147	147	147	147	147	147 267	147	147	147	147	147	147	147	147	147	147 267	147	147	147	147	147	147 147	147	147 147	147 147
Revenues	34,284	3053	147	147	14/	247	14/	14/	14/	147	147	267	14/	14/	147	147	147	14/	14/	14/	147	267	147	147	14/	147	14/	147		14/	147
Revenues Tram Revenue	5247	27	27		33	27	27	27	27	33		27	27	27	27	27	27	27				20	28	28	10		54	3.0	3.0		5.6
Tram Revenue Merchandising	\$105			27	27	12		27	12	27	27		27	12	12	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28
School Excursions	\$105	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Total Revenues	5105	10	30	10	57	10	57	57	57	10	57	57	57	10	10	10	57	57	10	10	10	57	57	10	57	57	58	58	58	58	58
Net Value	(\$3,769)	-2996	-90	-90	-90	-90	-90	-90	-90	-90	-90	-210	-90	-90	-90	-90	-90	-90	-90	-90	-90	-210	-90	-90	-90	-90	-89	-59	-89	-89	-89
net rome	(00,709)	-2790	-,70		90	- 30				- 90	- 90	-210			- 30	- 90	- 90		90			-210	- 90			-90	-39		-39		-39
Net Present Value	(\$3,769)	<u> </u>	-	<u> </u>		<u> </u>	-	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>		
Ipp]	(\$3,789) NA	-		-		-	-		-	-			-	-	-	-		-	-	-	-	-	-		-	-			-		-
Discount Rate	12%	<u> </u>	-	<u> </u>		<u> </u>	-	<u> </u>	<u> </u>	-		<u> </u>	<u> </u>		-	<u> </u>				-		<u> </u>	<u> </u>				<u> </u>		-		-
LISCOURS Made	105							1			1									1				1	1		1			4	

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Sunshine Coast Regional Council

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Sunshine Coast Regional Council

					amway I																										
Change ranbu									%, reveni																						
ranuu	1 Y																														
insitivity Testing: Increase costs 10%, i	evenue decr	ease 10%																													
	Present										-																				
	Value															\$1	000														
em	\$,000	W1	Y/2	YE3	Ye4	Yr5	Yr6	Ye7	Yes	Y/9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	Yr16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Y/23	¥r24	Yr25	Yr26	¥r27	Y/28	¥r29	Ye3
apital Costs																															
Property acquisition	\$682	682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$822	822.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$84	0	0	0	0	0	0	0	0	0	0	110	0	0	0	0	0	0	0	0	0	110	0	0	0	0	0	0	0	0	0
Track	\$248	247.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$54	53.636	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$346	346	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$17	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$95	94.875	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route signage	\$11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flashing light warning lights	\$33	33	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$88	88	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$170	170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$57	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$54	53.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	\$1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$536	536	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
otal Costs	\$3,298	3196.8	0	0	0	0	0	0	0	0	0	132	0	0	0	0	0	0	0	0	0	132	0	0	0	0	0	0	0	0	0
Operating Costs																															
Labour	\$949	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
Utilities	\$117	8.8	8.8	\$.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$365	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.
Promotions	\$365	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.
Maintenance	\$351	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.4	26.
otal Operating Costs	\$2,147	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161
OTAL COSTS	\$5,445	3358.5	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	293.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	293.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161
evenues																															L
Tram Revenue	\$331	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Merchandising	\$140	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	1
School Excursions	\$218	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	1
otal Revenues	\$689	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	5
let Value	(\$4,756)	-3307	-110	-110	-110	-110	-110	-110	-110	-110	-110	-242	-110	-110	-110	-110	-110	-110	-110	-110	-110	-242	-110	-109	-109	-109	-109	-109	-109	-109	-10
iet Present Value	(\$4,756)																														
R	NA																														
iscount Rate	7%																														-

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		Nambo Financi									Molunt																				
Second Second																															
Change ranbu	irv																														
		Oct-14								_													_								
ensitivity Testing: O Increase costs, rev	enue decreas	e 10%		L	-	<u> </u>	<u> </u>	<u> </u>	L	<u> </u>	<u> </u>			<u> </u>											<u> </u>	L					_
	Present																														
	Value																000														
en	\$,000	¥/1	Y/2	YE3	Yr4	Yr5	7/6	Yir7	Yis	Yr9	Yr10	Ye11	Yr12	Yr13	Yr14	Yr15	Yr16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Y/23	¥r24	Yr25	Yr26	¥r27	Y/28	Yr29	Ye.
apital Costs																															
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$77	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$49	48.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Depot	\$314	314.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Overhaul for buildings	\$15	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	-
Civil Works - Mill Lane	\$86	86.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Miscellaneous	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	154.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	51.613	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	51	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$488	487.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
otal Costs	\$2,998	2905.2	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs																															<u> </u>
Labour	\$863	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Utilities	\$106	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	2
Promotions	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	2
Maintenance	\$319	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
otal Operating Costs	\$1,952	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	14
OTAL COSTS	\$4,950	3053.2	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	14
evenues																															-
Tram Revenue	\$331	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	2
Merchandising	\$140	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	1
School Excursions	\$218	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	1
otal Revenues	\$689	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	5
let Value	(\$4,261)	-3002	-95	-95	-95	-95	-95	-95	-95	-95	-95	-215	-95	-95	-95	-95	-95	-95	-95	-95	-95	-215	-95	-95	-95	-95	-95	-95	-95	-95	-5
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iet Present Value	(\$4,261)																														
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iscount Rate	7%				1	1		1																							1

Sunshine Coast Regional Council

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ensitivity Testing: O Increase costs, rev	enue increasi	10%		<u> </u>		<u> </u>		-		<u> </u>				<u> </u>	<u> </u>								<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>	-	
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em.	5.000	N.4	×-3	1 10.8	N.4	1 ×4	1 ×4	- w-2	1.10		Yr10	V-84	N-13		N.4.4			N.63	L × 40	V-80	U.54	N-54	1 2.33	1 2.38	Y/24	¥/25	Y/26	¥/27	Yr28	Y/29	7/3
apital Costs	2,000	Yr1	Yr2	Yr3	Yr4	7/5	Yr6	¥r7	YrB	Yr9	1710	Yr11	Yr12	W13	Yr14	Yr15	¥r16	Yr17	Yr18	Yr19	¥r20	Yr21	Yr22	Yr23	1724	1/45	1720	1127	1128	1129	1/2
Property acquisition	\$620	620	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0
Property acquisition Heritage Tram	\$748	747.68					0	0							0	0	0		0	-			0	0	0						
Overhauls for Trams	\$77	0	0	0	0	0	1 0	0	0	0	0	0	0	0	0	l ő	1 5	0	0	0	0	0	- č	- <u></u>	0	0	0	0	0	0	0
Overhauls for Trams	\$225	225	0	- °	0	0	0	0	0	0	8	100	0	0	0	- č	8	0	0	0	- °	100	0	0	0	0	°	0	0	0	0
Stations - Heritage themed	549	48.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	549	48.76	0	- °	- °	0	1 0	- °	- °	0	0	0	0	0	0	0	- °	0	0	0	- °	0	0	0	0	0	- °	0	0	0	
Overhaul for buildines	515	014.50	0	- č		8	1 0	- ŭ	- č	- č	1 0	20	-	0	0	0	1 .	- °	0	0	- ŭ	20	0		0	- č	- <u> </u>	0	0	- ŭ	0
Civil Works - Mil Lane	\$86	86.25	ő	- č	+ č	1 ŏ	1 ő	1 ŏ	٠.	ŏ	۲ŏ	20	٠.	ŏ	ŏ	0	- ŭ	- č	ŏ	0	۰,		- č	۲ŏ.	ŏ	ŏ	٠,	- ŭ	1 ő	ŏ	- ŏ
Miscellaneous	50	0	0	0		0	0	0	0	0	0	0			0	0	0		0	0		0	0	- ŭ	0	0	0	0	0	0	0
	\$10	10	0	- č	- <u> </u>	0	6	- ŭ	٠.	- ŏ	1 ŏ	1 o	0	0	ŏ	0	- č	0	ŏ	ŏ	0	٠,	0	1 ŏ	0	ŏ	- č	0	- č	ŏ	- ŏ
Route signage	\$30	30	0	0		0	0	0	- Ŭ	0	0	0		- ŭ	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	
Flashing light warning lights	\$30			ŏ		0	0		ŏ	8	0	0	ŏ	ŏ	0	ő	6	ŏ	0	ŏ	0	- °	0	- ŭ						0	0
Traffi Signals activation	\$80	\$0 154.84	0		0		0	0				0	0	0	0		8	0	0	0		÷	0	0	0	0	0	0	0	0	
Design Project management/supervision	552	51.613	0	0	- ×	0	1 0	0	0	0	0	1 8	0	0	0	l ő	<u>،</u>	0	0	0	0	- č	0	- °	0	0	0	0	0	0	0
Project management/supervision Safety Accreditation	549	49	0	0	- °	0	0	0	0	0	0	0	0	0	0	0	- °	0	0	0	÷	0	0	0	°	0	- °	0	0	0	0
Rail Accreditation Application Fee																			0						0						
Kail Accreditation Application Fee Contingency	51 5488	487.7	0	0	0	0	0	°	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
lotal Costs	52,998	2906.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Derating Costs	32,990	2900.2	v	<u> </u>					0			120		0		0		0		0	0	120		- v	v	v	0			0	0
Labour	\$863	65	65	65	65		65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65			65	65	65	65	65	65
Utilities	\$106	8	8	8		65 8	8	8	8	8	8	8	8		60	8	8		8	8	8	8	02	65	65 8	8	8	8	8	8	8
Rail Accreditaion	\$106	0	8 0	0	8	0	0	0	0	0	0	0	0	8	0	8	0	8	8	0	0	0	0	0	0	0	0	0	0	0	
Rail Accreditaion Security	50	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Maintenance	5319	25	25	25	2.5	20	25	25	25	20	24	20	25	25	20	25	25	20	25	25	25	25	20	25	25	25	25	20	25	25	23
Maintenance otal Operating Costs	\$1,952	24	24	24	147	24	24	24	24	24	147	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
otal Operating Casts OTAL COSTS	54,952	3053.2	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	14
evenues	24,930	3055.2	147	24/	14/	14/	14/	14/	247	147	14/	20/	24/	14/	147	14/	14/	14/	14/	247	14/	207	14/	14/	14/	14/	14/	14/	14/	14/	14/
Tram Revenue	\$400	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Merchandising	\$169	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
School Excursions	5169	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
otal Revenues	5256	62	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	20
iet Value	(\$4,116)	-2991	-84	-84	-84	-84	-84	-84	-84	-84	-84	-204	-84	-84	-84	-84	-84	-84	-84	-84	-84	-204	-84	-84	-84	-84	-84	-84	-84	-84	-84
ier volve	(29,119)	-2591	-94	-04	-01	-84	-04	-04	-04	-54	-64	-204	-54	-54	-94	-84	-04	-54	-34	-84	-64	-204	-54	-34	-54	-04	-01	-51	-34	-84	-04
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let Present Value	(\$4,115)				-		-	-	-		-		-						-					-							-
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Sunshine Coast Regional Council

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	Present				-						· · · ·		-	· · · · ·													-				-
	Value															\$3	000														
iem .	\$,000	Yr1	Yr2	Yr3	Ye4	Yr5	Yr6	Yir7	Yr8	Y/9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	Yr16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	¥r27	Yr28	Yr29	Yr3
apital Costs																															
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$77	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$49	48.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Depot	\$314	314	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$15	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	Ô	0	0
Civil Works - Mill Lane	\$86	86.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous																															
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	52	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	\$1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$488	458	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
otal Costs	\$2,998	2905.2	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs																															
Labour	\$863	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Utilities	\$106	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Maintenance	\$319	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	2.4	24	24	24
otal Operating Costs	\$1,952	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	14
OTAL COSTS	\$4,950	3053.2	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	14
evenues																															
Tram Revenue	\$384	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	2
Merchandising	\$154	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	1
School Excursions	\$2.40	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	1
otal Revenues	\$778	58	58	58	58	58	58	58	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	5
let Value	(\$4,172)	-2995	-89	-59	-59	-59	-89	-89	-55	-55	-55	-208	-85	-55	-55	-58	-55	-85	-55	-55	-58	-208	-55	-55	-85	-58	-58	-55	-55	-55	-5
let Present Value	(\$4,172)				<u> </u>	<u> </u>				<u> </u>	-																				-
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iscount Rate	7%						-	-						-					-	-				-			-		-		-

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	Present Value																000														
	\$.000	7/1	Y/2	Yr3	1.4	¥/5	7/6	Yr7	Y/8	Y/9	¥r10	Y:11	Y/12	¥/13	7/14	3/	Vr16	Yr17	¥/18	Yr19	Y+20	Y/21	Y/22	7/23	¥/24	Yr25	Yr26	¥r27	¥/28	¥/29	Ye30
apital Costs	3,000	172	112	1/3	Ye4	1/2	110	117	1/10	1/9	1120	7/11	1/12	1/13	1/14	1123	1/10	1/1/	1/18	1/19	1120	1121	1722	1723	1724	1125	1720	1147	1728	1129	1125
Property acquisition	5620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	
Property acquisition Heritage Tram	\$748	747.68	0	0	0	0	0	- Ŭ	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- 0
Overhauls for Trams	553	0		0	0	ŏ	ŏ	0		0	- v			6	0	0	0	ŏ	0	0	0		ŏ	ŏ	- °	6		0			
Overhauls for Trams	5225	225	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	- °	0	0	0	100	- °	0	0	0	0	0	0	0	0
Stations - Heritage themed	549	48.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	°	0	0	0	0	°	0	0	0	0	0	0	0	- 0
Depot	549	48.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	- °	0	0	0	0	- č	- °	0	0	0	0	0	0	- 0
Overhaul for buildings	511	0	0	0	0	- °	0	0	0	0	0	20	0	0	0	0		- ŭ	0	0	0	20	- č	- °	0	-	0	0	0	0	- 0
Civil Works - Mill Lane	586	86.25	0	0	1 ő	ŏ	ŏ	0	ŏ	0	1 ŏ	0	0	- č	0	ŏ	ŏ	ŏ	ŏ	0	0	20	٠.	- v	- č	1 ő	ŏ	ŏ	ŏ	0	<del>ا</del> ۃ
Miscellaneous	50	0.25	0	- č	1 č	- č	ŏ	0	ő	ŏ	- č	ŏ		- č		ŏ	ŏ	ŏ	ŏ	ő	ŏ	ŏ	- č	- i	- č	- č	ŏ	ŏ	ő	0	6
Route siznaze	510	10	0	ŏ	ŏ	ő	0	ő	ő	ő	ŏ	0	0	- č	ŏ	0	0	0	ő	ő	0	0	- č	ő	ő	- i	ŏ	0	ő	ő	t ő
Flashing light warning lights	\$30	30	0	- č	ŏ	ŏ	0	0	0	0	ŏ	0	0	- ŭ	0	0	0	0	ŏ	0	0	0	ŏ	0	0	-	ő	0	ő	0	
Traffi Signals activation	\$80	80	0	ŏ	ŏ	ŏ	ŏ	0	ő	0	ŏ	ő	0	ő	ŏ	ő	ő	ő	ő	ő	0	0	ŏ	ő	ő	ŏ	ő	0	ŏ	ő	1 8
Design	\$155	155	0	ŏ	ŏ	ŏ	ŏ	ő	ő	0	ŏ	0	-	ő	ŏ	ő	-	ő	ő	0	0	0	ŏ	- o	- ů	0	0	0	ů ř	ő	- ŏ
Project management/supervision	\$52	52	0	- č	0	ŏ	ŏ	ŏ	ő	0	ŏ	ő	ŏ	ő	ŏ	0	ő	ŏ	ŏ	ŏ	0	0	ŏ	ŏ	ŏ	1 ő	0	0	ŏ	ŏ	6
Safety Accreditation	549	49	0	ŏ	1 0	ŏ	ŏ	ő	ő	0	ŏ	ő	ŏ	ŏ	ŏ	0	ŏ	ŏ	ŏ	ő	0	0	ŏ	ŏ	ŏ	1 ő	ő	0	ŏ	ő	- ŏ
Rail Accreditation Application Fee	51	1	0	1 ŏ	ő	ŏ	ő	ő	ő	ő	ŏ	0	ŏ	ő	ŏ	ő	ő	ő	ő	ő	0	0	ŏ	ŏ	ő	- č	ő	0	ő	ő	ŏ
Contingency	5488	455	0	-	- ō	1 0	0	0	0	0	1 0	0	-	0	0	0	0	-	0	0	0	0	10	÷	1 0	10	0	0	- Č	0	-
otal Costs	\$2,970	2906.2	0	- o	ő	o o	0	0	0	0	0	120	0	0	ő	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	ŏ
Operating Costs	54,070		-	<u> </u>	<u> </u>	۰.	<u> </u>	<u> </u>	-		<u> </u>		<u> </u>	<u> </u>	- ·	<u> </u>	<u> </u>	<u> </u>	- °	· ·		110	<u> </u>	- <sup>-</sup>	<u> </u>	<u> </u>				· ·	<u> </u>
Labour	\$674	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Utilities	\$83	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	50	0	0	ŏ	0	0	0	0	0	0	0	0	0	0	ő	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$259	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$259	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Maintenance	\$249	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
otal Operating Costs	\$1.524	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147
OTAL COSTS	\$4,495	3053.2	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147
levenues	14-10				-																										
Tram Revenue	5299	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	28
Merchandising	\$120	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
School Excursions	\$187	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
otal Revenues	\$607	58	58	58	58	58	58	58	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
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Sunshine Coast Regional Council

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31 JANUARY 2019

Sunshine Coast Regional Council

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ensitivity Testing: Increase costs 10%,	evenue decr	nase 10%	_	· · · ·																		_				_					
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apital Costs					-						-				-																-
Property acquisition	\$682	682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$822	822.45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$84	0	0	0	0	0	0	0	0	0	0	110	0	0	0	0	0	0	0	0	0	110	0	0	0	0	0	0	0	0	0
Track	\$248	247.5	0	10	ō	- o	0	0	6	0	0	0	0	0	0	0	0	- č	0	0	0	0	1 õ	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$54	53.636	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$346	346	0	10	÷ -	0	0	0	1 č	0	0	0	0	0	0	0	0	10	0	0	0	0	- ÷	0	0	0	0	ō	0	0	0
Overhaul for buildings	\$17	0	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$95	94.875	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o i	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0
Route siznaze	\$11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flashing light warning lights	\$33	33	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$88	88	0	1 ő	ŏ	ŏ	ő	0	1 ő	ŏ	ŏ	0	0	1 0	ő	0	0	1 õ	ő	ő	ő	0	0	ő	ő	ő	0	ő	ŏ	ő	0
Design	\$170	170	0	6	0	0	ō	0	6	0	0	0	-	0	0	0	0	-	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$57	57	0	1 ő	ő	ŏ	ő	ŏ	1 ő	ő	ŏ	ŏ	ő	ő	ő	ő	- i	1 ő	ŏ	ő	ő	0	ŏ	ő	ő	ő	0	ő	ŏ	0	0
Safety Accreditation	554	53.9	0	٠.	ő	ŏ	Ť	- ŭ	٠.	ŏ	ŏ	- č	ŏ	ő	ŏ	ő	ő	1 č	Ť	ŏ	ŏ	0	ŏ	ŏ	ő	ő	0	ŏ	ŏ	0	0
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otal Costs	\$3,298	3196.8	0	1 o	0	ő	0	0	1 o	ő	0	132	0	0	ő	0	0	0	0	ő	o o	132	0	0	0	0	0	ő	0	0	0
Iverating Costs	33,290	3190.0	-	<u> </u>	۴°	۰,	<u> </u>	<u>۴</u>	<u> </u>	۴, etc.	<u> </u>		<u> </u>	- v	- v	- <sup>v</sup>	<u> </u>	<u> </u>	- v	- <sup>v</sup>	-	1.54	<u> </u>	- U	<u> </u>	<u> </u>	- v	<u> </u>	- <sup>v</sup>		-
Labour	\$949	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
Utilities	\$117	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	88	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
Rail Accreditaion	\$0	0.0	0	0	0	0	0.0	0	0	0	0	0	0	0	0	0	0	0.0	0	0	0	0	0	0.0	0	0.0	0	0	0.0	0.0	0
Security	5365	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
Promotions	\$365	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5	27.5
Maintenance	2300	27.5	27.5	27.5	27.5	26.4	27.5	27.5	27.5	26.4	27.5	26.4	27.5	27.5	27.5	26.4	26.4	27.5	26.4	27.5	27.5	27.5	26.4	27.5	26.4	27.5	27.5	27.5	27.5	27.5	26.
Maintenance Intel Operating Costs	52.147	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	26.4	20.4	20.4	20.4	20.4	26.4	20.4	20.4	20.4	20.4	25.4	26.4	20.4	25.4	20.
otar Operating Casts DTAL COSTS	\$5,445	3358.5	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	293.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	293.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161.7	161
DIAL COSIS	30,645	5558.5	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	293.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	243.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	161
	7340			-				-							-				-	- 14			-	14		-	~				
Tram Revenue	\$349	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	27	27
Merchandising	\$140	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
School Excursions	\$218	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	1)
otal Revenues	\$707	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	54	54	54	54	54	54	54	54	54	54	54
iet Value	(\$4,738)	-3306	-109	-109	-109	-109	-109	-109	-109	-208	-108	-240	-108	-108	-108	-108	-108	-108	-108	-108	-108	-240	-108	-108	-108	-108	-108	-108	-108	-108	-10
et Present Value	(\$4,738)																														
R	NA																														
iscount Rate	7%																														

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Change																															
Cononge ranbo	ry .																														
ensitivity Testing: Olincrease costs, rev	enue decreas	e 10%			· · ·																						_				
				-	-	<u> </u>	-	<u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>		<u> </u>		<u> </u>												
	Present	<u> </u>		-	-		-														·						-				_
	Value															5.1	000														
en .	\$,000	Y/1	Y/2	Yr3	Ye4	Yr5	Yr6	Ye7	Y/8	Y/9	Yr10	Ye11	Yr12	Yr13	Yr14	Yr15	Yr16	Yr17	Y/18	Yr19	Yr20	Yr21	Yr22	Yr23	¥/24	Yr25	Yr26	¥r27	Y/28	Y/29	Yr3
apital Costs								<u> </u>	<u> </u>																				<u> </u>		
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$77	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$49	48.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$314	314.38	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhaul for buildings	\$15	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$86	86.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Design	\$155	154.84	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Project management/supervision	\$52	51.613	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Safety Accreditation	\$49	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rail Accreditation Application Fee	51	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$488	487.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
otal Costs	\$2,998	2905.2	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
perating Costs																															
Labour	\$863	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Utilities	\$106	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	\$0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Security	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Maintenance Intel Operating Costs	\$319 \$1.952	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
otal Operating Costs OTAL COSTS	51,952	3053.2	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	14
DIAL COSIS	24,950	3035.2	14/	147	147	147	14/	14/	14/	14/	147	267	14/	14/	147	147	147	14/	14/	14/	147	267	14/	14/	14/	147	14/	147	14/	14/	14
Tram Revenue	\$349	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	27	2
Tram Revenue Merchandising	5349	20	20	25	26	20	20	20	25	26	20	20	20	25	20	20	20	20	20	26	20	20	20	20	26	25	20	20	20	27	1
School Excursions	5218					11 16	11									11 16	11		11 17	11 17	11 17	11	11	11	11	11	11 17	11 17			1
stel Revenues	5218	16	16	16	16	10	53	16	16	16	16	16	16	16	16	10	53	16	53	53	54	54	54	54	54	54	54	54	17	17	5
stal Revenues Int Value	(\$4,243)	-3000	-14	-94	-94	-94	-94	-94	-94	-94	-94	-214	-94	-94	-94	-94	-94	-94	-94	-94	-93	-213	-93	-93	-93	-93	-93	-93	-93	-93	-9
et same	(24,243)	-3600	-94	-94	-94	-94	-94	-94	-94	-94	-94	-214	- 14	-94	-94	-94	-94	-94	-94	-94	-90	-20	-90	-90	-90	-90	-90	-30	-90	-90	-9
	100.000	-		-	-	<u> </u>	-		-	-	-	-	<u> </u>	-	-	<u> </u>	-	<u> </u>	-	-	<u> </u>			<u> </u>	-	-	-	<u> </u>	-		_
iet Present Value	(\$4,243) NA			-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	<u> </u>	-	-	-
94		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-
iscount Rate	7%	1			1			1	1							1	1	1	1		1									1	1

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	Present			-	-			-												· · · ·	·		·			-			· · · ·		·
	Value															5.0	000														
tem	\$,000	Yr1	Yr2	Yr3	Ye4	Yr5	Yr6	Y#7	YH8	Y/9	Yr10	Ye11	Yr12	Yr13	Yr14	Yr15	Yr16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Y/23	¥/24	Yr25	Yr26	Yr27	Y/28	¥r29	Yr30
																				_											
Property acquisition	\$620	620	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Heritage Tram	\$748	747.68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Overhauls for Trams	\$77	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0
Track	\$225	225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Stations - Heritage themed	\$49	48.76	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depot	\$314	314.38	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	- i	0	0	0	0	- i	0	0	0	0	0	0	0	6
Overhaul for buildings	\$15	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0	0
Civil Works - Mill Lane	\$86	86.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	t ö
Miscellaneous	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Route signage	\$10	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Flashing light warning lights	\$30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Traffi Signals activation	\$80	80	0	- o	0	0	ō	0	0	0	0	0	0	0	0	0	0	ō	0	i õ	0	0	0	0	ō	i i	0	0	0	t õ	6
Design	\$155	154.84	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
Project management/supervision	\$52	51.613	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6	0	0	0	0	ō	0	0	0	0	6	0
Safety Accreditation	\$49	49	0	1 ö	ō	ő	- č	0	0	ō	ő	0	0	0	ō	ō	0	- č	0	t õ	- o	0	ō	ō	1 0	- ō	0	0	ō	6	6
Rail Accreditation Application Fee	51	1	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	6	0	0	0	0	0	0	0	0	0	0	0
Contingency	\$488	487.7	0	1.0	- ō	- č	0	0	0	1 0	1 0	0	0	0	- T	- v	0	-	÷	0	Ť	0	10	0	1 ô	10	0	0	0	1 ö	6
Total Costs	52,998	2905.2	0	1 o	ő	0	0	0	0	ő	0	120	0	0	ő	0	0	1 o	0	0	0	120	0	0	0	0	0	0	0	ő	0
	54,050	2744.2	-	<u> </u>	<u> </u>	۰.	<u> </u>	<u> </u>		<u> </u>	<u> </u>	-	<u> </u>	-	- ·	- ·		<u> </u>	<u> </u>	+ °	<u> </u>		<u> </u>	- °	<u> </u>	<u> </u>			<u> </u>	<u> </u>	<u> </u>
Labour	\$863	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
Utilities	\$106	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Rail Accreditaion	50	0	0	1 ŏ	0	0	0	0	0	ő	0	0	0	0	ő	ő	0	0	0	ő	0	0	0	0	ő	0	0	0	0	ő	0
Security	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Promotions	\$332	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Maintenance	\$319	24	24	24	2.5	2.5	24	24	24	2.5	2.5	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
otal Operating Costs	\$1,952	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147
ota operating cost	54,852	-47	147	147	- 47	*47	247	147	.4/	**/	**/	24/	14/	.47	*4/	-4/	*47	- 47	- 47		-4/	14/	- 47	**/	- 47	- 47	-4/	.47			- 44/
		-		<u> </u>		<u> </u>	<u> </u>	-			<u> </u>		<u> </u>			-		<u> </u>	-	<u> </u>	<u> </u>	-		<u> </u>	<u> </u>	<u> </u>					
Tram Revenue	\$422	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Merchandising	5422	13	13	13	13	13	13	13	13	13	13	13	13	13	13	32	13	13	13	13	32	13	13	13	13	13	32	13	13	13	13
School Excursions	5264	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
pendoi biconions	24.04	40	49	20	20	20	20	- 40	40	- 20	20	#U	40	40	- 20	40	20	- 20	20	- 20	20	- 40	- 20	40	- 20	20	- 20	20	20	20	- 20
iet Value	(54.094)	-2989	-83	-83	-83	-83	-83	-83	-83	-53	-33	-203	-83	-82	-82	-82	-82	-82	-82	-52	-82	-202	-82	-82	-82	-82	-82	-82	-82	-82	-82
et some	(34,094)	-2309	-60	-30	-00	-00	-83	-00	-30	-30	-33	-203	-00	-62	-92	-92	-82	-92	-82	-34	-52	-202	-62	-44	-32	-82	-64	-94	-92	-82	-04
				<u> </u>	-	<u> </u>					<u> </u>							<u> </u>	<u> </u>		<u> </u>				<u> </u>	<u> </u>				<u> </u>	<u> </u>
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iscount Rate	75																														

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Feasibility Assessment of Nambour Heritage Tramway



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Appendix 7: Cost Benefit Analysis



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						ay Feas		Assess	ment																						
1. A 1. A 1.		Cost B					01																								
Change	ranbury																														
Genunge	Cariboury																														
	<u> </u>		_				_							<u> </u>						<u> </u>									<u> </u>		_
	Present Value	-														\$.0	00														_
Item	\$.000	Wr1	Yr2	Yr3	¥74	Yr5	Yn6	117	Yr8	YPP	¥710	Yr11	Yr12	Yr13	Yr14	Yr15	W16	Yr17	Yr18	¥719	Yr20	Yr21	¥r22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	Yr30
Capital Costs	0,000																														
Capital Costs	3120	3028	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs	7210	543	543	543	543	543	543	543	543	543		543	543	543		543	543	543	543		543	543	543		543	543		543	543		543
fotal Costs	10330	3571	543	543	543	543	543	543	543	543	543	663	543	543		543	543	543	543		543	663	543		543	543	543	543	543		543
Benefits					1.1																					1.12					
Tram Revenue	364	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28
Merchandising	154	12	12	12			12	12	12	12		12	12	12		12	12		12		12	12	12		12	12		12	12		12
School Excursions	240	18	18	15		18	18	18	15	18		18	18	18		18	18		18		15	18	18		18			18	18		15
Induced Spending from V	1704	128	128	128	128	128	128	128	128	128	128	128	128	129	129	129	129	129	129		129	129	129	129	129	129	129	129	129		130
Increased tourism & visit	624	47	47	47		47	47	47	47	47		47	47	47	47	47	47		47		47	47	47		47	47	47	47	47		47
Increased tourism to Sun	375	2.8	28	28	28	28	28	28	28	28		28	28	28	28	28	28		28		28	28	28		28	28	28	28	28		28
Expenditure from new ev	3202	240	240	240	240	240	241	241	241	241	241	241	241	241	242	242	242	242	242	242	242	242	243	243	243	243	243	243	243	243	244
Total Revenues	6663	499	500	500		500	501	501	501	501	502	502	502	502	503	503	503	503	504	504	504	504	505	505	505	505	506	506	506		507
Net Present Value	-3667			-	-												-			-									-		_
Benefit Cost Ratio	0.65		_											<u> </u>						<u> </u>									<u> </u>		_
1			-								<u> </u>			<u> </u>						<u> </u>			<u> </u>			-		-	-		_
Discount Rate	7%		_								-	$\vdash$		<u> </u>	+			$\vdash$		<u> </u>			-					-	-		_
Discount Rate	7%					ay Feas Scenari		Assess	ment																						
Change	ranbury	Namb						Assess	ment																						
Change	ranbury	Namb Cost B Discoun Sunshin						Assess	ment																						
Change	ranbury	Namb Cost B Discoun Sunshin						Assess	ment																						
Change	ranbury Present Value	Namb Cost B Discoun Sunshin Oct-14	enefit / t Rate: le Coast	Assess	ment: 10% al Counc	Scenari	01									\$,0															
Change	ranbury	Namb Cost B Discoun Sunshin						Assess	ment	Yr9	¥r10	¥11	¥r12	¥13	Yr14	\$,0 ¥r15	00 \Y16	¥r17	¥r18	¥r19	¥r20	Y721	¥r22	Yr23	Yr24	¥r25	Yr26	¥r27	Yr28	Yr29	Yr30
Change tem capital Costs	Present Value \$,000	Namb Cost B Discoun Sunshir Oct-14	enefit / t Rate: e Coast	Assess Regiona Yr3	ment: 10% al Count 174	Scenari Sil	о 1 <sup>Угб</sup>	Yr7	YrS							¥r15	¥r16														Yr30
Change tem capital Costs (Capital Costs	ranbury Present Value \$,000	Namb Cost B Discoun Sunshin Oct-14 W1 3028	enefit / t Rate: le Coast Yr2 0	Assess Regiona Yr3 0	ment: 10% al Count Yr4	Scenari II Yr5	0 1 Υτδ 0	¥r7 0	YYS	0	0	120	0	0	0	¥r15 0	¥716 0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
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Change Construction of the second sec	Present Value 5,000 3092 3691 4873 284 120 1877 284 224 2449 2222 2499 2269	Namb Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 27 22 18 128 128 47 28 249	enefit / t Rate: e Coast vr2 0 543 543 543 227 12 12 128 128 47 228 240	Assess Regiona Yr3 0 543 543 27 12 18 128 437 27 28 240	ment: 10% al Couns 10% 10% 10% 10% 10% 10% 10% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12	Vrr5 0 543 543 543 543 543 122 12 12 12 12 12 12 12 12 12 12 27 12 27 28 240	о 1 Угб 0 543 543 27 12 128 128 128 128 128 241	977 0 543 543 27 12 18 128 47 28 47 28 241	VY8 0 543 543 27 12 18 128 47 28 241	0 543 543 27 12 18 128 47 28 241	0 543 543 27 12 128 128 128 47 28 241	120 543 663 27 12 18 128 128 47 28 241	0 543 543 27 12 18 128 47 28 241	0 543 543 27 12 18 129 47 28 241	0 543 543 27 12 18 129 47 28 242	Yr15 0 543 543 543 122 12 12 12 129 47 28 242	ΥΥ16     Ο     Ο     543     543     543     27     12     18     129     47     28     242	0 543 543 27 12 18 129 47 28 242	0 543 543 27 12 18 129 47 28 242	0 543 543 27 12 18 129 47 28 242	0 543 543 28 12 18 129 47 28 242	120 543 663 12 18 129 47 28 242	0 543 543 28 12 18 129 47 28 243	0 543 543 28 12 18 129 47 28 243	0 543 543 12 12 12 129 47 28 243	0 543 543 12 18 129 47 28 243	0 543 543 28 12 18 129 47 28 243	0 543 543 28 12 18 129 47 28 243	0 543 543 28 12 18 129 47 28 243	0 543 543 28 12 18 130 47 28 243	0 543 543 28 12 18 130 47 28 244
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Sunshine Coast Regional Council

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Item	\$,000	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	Yrs	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	W16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	Yr30
Capital Costs																															
Capital Costs	3079	3028	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs	4899	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543
Total Costs	7978	3571	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543
Benefits																															
Tram Revenue	247	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28
Merchandising	105	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
School Excursions	163	18	18	18	18	18	18	18	15	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
Induced Spending from V	1157	128	128	128	128	128	128	128	128	128	128	128	128	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129		130	130
Increased tourism & visit	424	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47		47	47
Increased tourism to Sun	254	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Expenditure from new ev	2173	240	240	240	240	240	241	241	241	241	241	241	241	241	242	242	242	242	242	242	242	242	243	243	243	243	243	243	243	243	244
Total Revenues	4522	499	500	500	500	500	501	501	501	501	502	502	502	502	503	503	503	503	504	504	504	504	505	505	505	505	506	506	506	506	507
Net Present Value	-3456																														
	0.57																														
Benefit Cost Ratio	0.57																														
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Benefit Cost Ratio		Nambo Cost B						Assess	ment																						
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Benefit Cost Ratio	12%									Increas	e costs b	γ 10%, di	ecrease	benefits :	10%																
Benefit Cost Ratio	ranbury									Increas	e costs b	γ 10%, di	ecrease	benefits i	10%																
Benefit Cost Ratio	12%	Cost Be Discount Sunshin Oct-14	enefit / : Rate: e Coast	Assess	ment: 5 7% al Counc	Scenar 31	io 1 Sensitiv	ity Testin	3							\$,0															
Benefit Cost Ratio	ranbury									Increas	e costs b	y 10%, de	ecrease   Yr12	benefits :	10% Yr14	\$,0 ¥715	00 \\\16	¥r17	Yr18	Yr19	¥r20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Y129	Yr30
Benefit Cost Ratio	12%	Cost Be Discount Sunshin Oct-14	enefit . : Rate: e Coast Yr2	Assess Regiona	ment: S 7% al Counc Yr4	Scenar si Yr5	io 1 Sensitiv	ity Testin	YrS	Yr9	YY10	W11	Yr12	¥713	Yr14	¥r15	¥r16														Yr30
Benefit Cost Ratio	12% ranbury Present Value \$,000 3432	Cost Be Discount Sunshin Oct-14 W1 W1 3331	enefit . : Rate: e Coast Yr2 0	Assess Regiona Yr3 0	7%           31 Counc           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%	Scenar	io 1 Sensitiv	W7	Yr8	Y79 0	YY10	۲۲11 132	Yr12	¥713	Yr14 0	¥r15 0	₩16 0	0	0	0	0	132	0	0	0	0	0	0	0	0	0
Benefit Cost Ratio	Present Value 5,000	Cost Be Discount Sunshin Oct-14 W1 W1 3331 597	enefit . : Rate: e Coast Yr2 0 597	Assess Regiona Yr3 0 597	ment: 1           7%           al Counc           1	Scenar    	io 1 Sensitiv Yr6 0 597	11y Testin 11y 11y 11y 11y 11y 11y 11y 11y 11y 11	Yr8 0 597	Yr9 0 597	۲۲10 0 597	Yr11 132 597	Yr12 0 597	۲۲13 0 597	Yr14 0 597	Yr15 0 597	9716 0 597	0	0	0	0	132 597	0	0	0	0	0	0	0	0	0
Benefit Cost Batto Discount Rate	12% ranbury Present Value \$,000 3432	Cost Be Discount Sunshin Oct-14 W1 W1 3331	enefit . : Rate: e Coast Yr2 0	Assess Regiona Yr3 0	7%           31 Counc           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%           9%	Scenar	io 1 Sensitiv	W7	Yr8	Y79 0	YY10	۲۲11 132	Yr12	¥713	Yr14 0	¥r15 0	₩16 0	0	0	0	0	132	0	0	0	0	0	0	0	0	0
Benefit COSI Batio Piscourit Rate Change Item Tem Capital Costs Capital Costs Coversing Costs Total Costs Benefits	12%	Cost Be Discount Sunshin Oct-14 Wr1 33331 597 3929	enefit . : Rate: e Coast Yr2 0 597 597	Assess Regiona Yr3 0 597 597	ment: 5 7% al Counc ¥r4 0 597 597	Scenar al Yr5 0 597 597	10 1 Sensitiv Yr6 0 597 597	YY7 0 597 597	Yr8 0 597 597	۲۲۶ 0 597 597	۲۲10 0 597 597	۲۲11 132 597 729	Vr12 0 597 597	۲۲13 0 597 597	۲۲14 0 597 597	Vr15 0 597 597	9716 0 597 597	0 597 597	0 597 597	0 597 597	0 597 597	132 597 729	0 597 597	0 597 597	0 597 597	0 597 597	0 597 597	0 597 597	0 597 597	0 597 597	0 597 597
Benefit Cost Batio Discount Rate	12%	Cost B Discount Sunshin Oct-14 W1 3331 597 3929 25	enefit . : Rate: e Coast Yr2 0 597 597 597	Assess Regiona Yr3 0 597 597 25	YP4           0           597           597           25	Scenar al Yr5 0 597 597 25	10 1 Sensitiv Yr6 0 597 597 25	YY7 0 597 597 25	Yr8 0 597 597 25	Yr9 0 597 597 25	۲۲10 0 597 597 25	۲۲11 132 597 729 25	۲۲12 0 597 597 25	γr13 0 597 597 25	۲۲14 0 597 597 25	Vr15 0 597 597 25	۲۲16 0 597 597 25	0 597 597 25	0 597 597 25	0 597 597 25	0 597 597 25	132 597 729 25	0 597 597 25	0 597 597 25	0 597 597 25	0 597 597 25	0 597 597 25	0 597 597 25	0 597 597 25	0 597 597 25	0 597 597 25
Benefit Cost Batio	12% ranbury Present Value 5,000 3432 7931 11363 331 1340	Cost Be Discount Sunshin Oct-14 W1 3331 597 3929 25 25	enefit . : Rate: e Coast Yr2 0 597 597 597 25 11	Assess Regiona Yr3 0 597 597 25 11	YP4           0           597           25           11	Vr5 0 597 25 11	0 597 597 25 11	Yr7 0 597 25 11	Yr8 0 597 597 25 11	979 0 597 597 25 11	γr10 0 597 597 25 11	۲۲11 132 597 729 25 11	Vr12 0 597 597 25 11	9713 0 597 597 25 11	۲۲14 0 597 597 25 11	9715 0 597 597 25 11	۲۲16 0 597 597 25 11	0 597 597 25 11	0 597 597 25 11	0 597 597 25 11	0 597 597 25 11	132 597 729 25 11	0 597 597 25 11	0 597 597 25 11	0 597 597 25 11	0 597 597 25 11	0 597 597 25 11	0 597 597 25 11	0 597 597 25 11	0 597 597 25 11	0 597 597 25 11
Benefit COST Batto Discount Rate Discount Rate Cchange Item Item Item Capital Costs Capital Costs Capital Costs Dereving Costs Dereving Merchandsing School Excursions	12% ranbury Fresent Value 5,000 3432 7931 11363 331 140 218	Cost Be Discount Sunshin Oct-14 Wr1 3331 597 3929 255 25 10 16	enefit . : Rate: e Coast Yr2 0 597 597 25 11 16	Assess Regiona Yr3 0 597 597 255 11 16	Yr4           0           597           255           11           16	Scenar 11 Yr5 0 597 597 255 11 16	10 1 Sensitiv Yr6 0 597 597 255 11	W7 0 597 597 25 11 16	Yr8 0 597 25 11 16	Yr9 0 597 597 25 11	9710 0 597 25 11 16	۲۲11 132 597 729 25 11 16	Vr12 0 597 597 25 11 16	Vr13 0 597 597 25 11 16	۲۲14 0 597 597 25 11 16	9715 0 597 597 25 11 16	Υ16 0 597 597 25 25 11 16	0 597 597 25 11 16	0 597 597 25 11 17	0 597 597 25 11 17	0 597 597 25 11 17	132 597 729 25 11 17	0 597 597 25 11 17	0 597 597 25 11 17	0 597 597 25 11 17	0 597 597 25 11 17	0 597 597 25 11 17	0 597 597 25 11 17	0 597 597 25 11 17	0 597 597 25 11 17	0 597 597 25 11 17
Benefit COSI Batio Discount Rate	12% ranbury Present Value 5,000 1452 1365 351 1402 218 1540	Cost Be Discount Sunshin Oct-14 771 3331 597 3929 25 10 16 116	enefit / Rate: e Coast Yr2 0 597 597 597 225 111 16 116	Assess Region Yr3 0 597 597 25 11 16 116	Yr4           0           597           597           597           11           16	Yr5 0 597 597 597 25 11 16 116	10 1 Sensitiv 7/76 0 597 597 255 111 16 116	Yr7 0 597 597 25 11 16 116	Yr8 0 597 597 25 11 16 117	Yr9 0 597 25 11 16 117	0 597 25 11 16 117	۲۲11 132 597 729 25 11 16 117	۲۲12 0 597 25 11 16 117	Vr13 0 597 597 25 11 16 16 117	Yr14 0 597 597 25 11 16 117	Yr15 0 597 597 25 11 16 117	¥16 0 597 597 25 11 16 117	0 597 597 25 11 16 117	0 597 597 25 11 17 117	0 597 597 25 11 17 117	0 597 597 25 11 17 117	132 597 729 25 11 17 117	0 597 597 25 11 17 117	0 597 597 25 11 17 117	0 597 597 25 11 17 117	0 597 597 25 11 17 118	0 597 597 25 11 17 118	0 597 597 25 11 17 118	0 597 597 25 11 17 118	0 597 597 25 11 17 118	0 597 597 25 11 17 118
Benefit COST Batio Discourt Rate Discourt Rate Cchange Item Item Capital Costs Capital Costs Capital Costs Capital Costs Derenting C	12% ranbury Present Value 5,000 3432 7931 1363 331 3432 7931 1400 218 3540 5560	Cost Be Discount Sunshin Oct-14 'W1 33311 597 3929 25 20 10 16 116 43	enefit . : Rate: e Coast Wr2 0 597 597 597 255 11 16 116 116	Assess Region: 973 0 597 597 25 25 11 16 6 116 43	97% 1 Counce 1	Yr5 0 597 597 597 25 25 11 16 116 43	о 1 Sensitiv Улб О 597 597 255 111 16 116 43	W7 0 597 597 255 111 116 43	Vr8 0 597 597 25 11 16 117 43	Yr9 0 597 25 111 16 117 43	Ут10 0 597 597 25 11 1 16 117 43	۲۲11 132 597 729 25 11 16 117 43	۲۲12 0 597 25 111 16 117 43	113 0 597 597 255 11 16 117 43	Yr14 0 597 597 255 111 16 117 43	Yr15 0 597 597 25 25 11 16 117 43	۲۲16 0 597 597 255 11 16 117 43	0 597 597 25 11 16 117 43	0 597 597 25 11 17 117 43	0 597 597 25 11 17 117 43	0 597 597 25 11 17 117 43	132 597 729 25 11 17 117 43	0 597 597 25 11 17 117 43	0 597 597 25 11 17 117 43	0 597 597 25 11 17 117 43	0 597 597 25 11 17 118 43	0 597 597 25 11 17 118 43	0 597 597 25 11 17 118 43	0 597 597 25 11 17 118 43	0 597 597 25 11 17 118 43	0 597 597 25 11 17 118 43
Benefit Cost Batio Discourt Rate Discourt Rate Cochongo Discourt Rate Cochongo Discourt Rate Cochongo Discourt Rate Discourt Rate D	12% ranbury Present Value 5,000 3432 79913 1400 2458 1569 568 3414	Cost Be Discount Sunshin Oct-14 W1 33331 597 3929 25 25 10 16 116 433 26	enefit / Rate: e Coast Yr2 0 597 597 255 111 16 116 116 43 26	Assess Regiona 773 0 0 597 597 255 111 16 116 116 433 26	Whent:         3           7%         3           6         0           597         597           25         111           16         116           116         26	Vr5 0 597 597 25 111 16 116 116 43 26	io 1 Sensitiv Угб 0 597 597 255 111 16 116 116 43 26	W7 0 597 597 25 111 16 116 116 43 26	Yr8 0 597 597 25 111 16 117 117 43 26	Yr9 0 597 597 25 11 16 117 43 26	Ут10 0 597 597 25 11 16 117 43 26	۲۲11 132 597 729 25 11 16 117 43 26	۲۲12 0 597 597 25 11 16 117 43 26	۲۲13 0 597 597 25 111 15 117 43 25	۲۲14 0 597 597 25 11 16 117 43 26	Yr15 0 597 597 25 11 16 117 43 26	¥16 0 597 597 255 111 16 117 43 26	0 597 597 25 11 16 117 43 26	0 597 597 25 11 17 117 43 26	0 597 597 25 11 17 117 43 26	0 597 597 25 11 17 117 43 26	132 597 729 25 11 17 117 43 26	0 597 597 25 11 17 117 43 26	0 597 597 25 11 17 117 43 26	0 597 597 25 11 17 117 43 26	0 597 597 25 11 17 118 43 26	0 597 597 25 11 17 118 43 26	0 597 597 25 11 17 118 43 26	0 597 597 25 11 17 118 43 26	0 597 597 25 11 17 118 43 26	0 597 597 25 11 17 118 43 26
Benefit COST Batio Discount Rate Discount Rate Cchange Item Item Capital Costs Capital Costs Capital Costs Capital Costs Derenting C	12% Freshoury Present Value 5,000 11365 3432 218 1409 218 1569 341 218 341 341 341 341 341 341 341 341 341 341	Cost Be Discount Sunshin Oct-14 Yr1 33331 597 3929 25 500 16 116 43 28 26 218	enefit / Rate: e Coast Yr2 0 597 597 255 111 16 116 116 433 26 218	Assess Region: 773 0 597 255 111 166 116 116 116 215 215	With the second secon	Vr5 0 597 597 597 25 111 16 116 116 43 26 219	V76 V76 0 597 597 255 111 166 116 433 266 219	YY7 0 597 597 225 111 16 116 43 226 219	Vr8 0 597 597 255 111 16 117 43 266 219	Yr9 0 597 597 25 11 16 117 43 26 219	γγ10 0 597 25 11 16 116 117 43 26 219	Vr11 132 597 729 25 11 16 117 147 26 219	۲۲12 0 597 597 25 11 16 117 43 26 219	9713 0 597 597 25 11 16 115 117 143 26 219	۲۲14 0 597 597 25 111 16 117 43 26 220	Yr15 0 597 597 25 11 16 117 43 26 220		0 597 597 25 11 16 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	132 597 729 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 221	0 597 597 25 11 17 117 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 25 11 17 118 43 26 221
Benefit Cost Batio Discount Rate	12% Present Value Present Value Fresent Value 5,000 3432 7951 140 351 140 568 341 2911	Cost Be Discount Sunshin Oct-14 W1 33331 597 3929 25 25 10 16 116 433 26	enefit / Rate: e Coast Yr2 0 597 597 255 111 16 116 116 43 26	Assess Regiona 773 0 0 597 597 255 111 16 116 116 433 26	Whent:         3           7%         3           6         0           597         597           25         111           16         116           116         26	Vr5 0 597 597 25 111 16 116 116 43 26	io 1 Sensitiv Угб 0 597 597 255 111 16 116 116 43 26	W7 0 597 597 25 111 16 116 116 43 26	Yr8 0 597 597 25 111 16 117 117 43 26	Yr9 0 597 597 25 11 16 117 43 26	Ут10 0 597 597 25 11 16 117 43 26	۲۲11 132 597 729 25 11 16 117 43 26	۲۲12 0 597 597 25 11 16 117 43 26	۲۲13 0 597 597 25 111 15 117 43 25	۲۲14 0 597 597 25 11 16 117 43 26	Yr15 0 597 597 25 11 16 117 43 26	¥16 0 597 597 255 111 16 117 43 26	0 597 597 25 11 16 117 43 26	0 597 597 25 11 17 117 43 26	0 597 597 25 11 17 117 43 26	0 597 597 25 11 17 117 43 26	132 597 729 25 11 17 117 43 26	0 597 597 25 11 17 117 43 26	0 597 597 25 11 17 117 43 26	0 597 597 25 11 17 117 43 26	0 597 597 25 11 17 118 43 26	0 597 597 25 11 17 118 43 26	0 597 597 25 11 17 118 43 26	0 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26	0 597 597 25 11 17 118 43 26
Benefit Cost Batio Discount Rate Discount Rate Control Costs Capital Cos	12% ronbury Present Value 5,000 1452 7991 1156 311 140 245 341 2911 156 341 2911 6058 341 2911	Cost Be Discount Sunshin Oct-14 Yr1 33331 597 3929 25 500 16 116 43 28 26 218	enefit / Rate: e Coast Yr2 0 597 597 255 111 16 116 116 433 26 218	Assess Region: 773 0 597 255 111 166 116 116 116 215 215	With the second secon	Vr5 0 597 597 597 255 111 166 116 433 266 219	V76 V76 0 597 597 255 111 166 116 433 266 219	YY7 0 597 597 225 111 16 116 43 226 219	Vr8 0 597 597 255 111 16 117 43 266 219	Yr9 0 597 597 25 11 16 117 43 26 219	γγ10 0 597 25 11 16 116 117 43 26 219	Vr11 132 597 729 25 11 16 117 147 26 219	۲۲12 0 597 597 25 11 16 117 43 26 219	9713 0 597 597 25 11 16 115 117 143 26 219	۲۲14 0 597 597 25 111 16 117 43 26 220	Yr15 0 597 597 25 11 16 117 43 26 220		0 597 597 25 11 16 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	132 597 729 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 221	0 597 597 25 11 17 117 43 26 221	0 597 597 255 111 177 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 25 11 17 118 43 26 221
Benefit Cost Batio Discount Rate Discount Rate Cchange Lange Capital Costs Capital Costs Capital Costs Capital Costs Operating Costs Train Revinue Merchandising School Excursion S Induced Spending Tom Increased Tourism & Sistin Increased Tourism & Suits Increased Tourism & Suits	12% Present Value Present Value Fresent Value 5,000 3432 7951 140 351 140 568 341 2911	Cost Be Discount Sunshin Oct-14 Yr1 33331 597 3929 25 500 16 116 43 28 26 218	enefit / Rate: e Coast Yr2 0 597 597 255 111 16 116 116 433 26 218	Assess Region: 773 0 597 255 111 166 116 116 116 215 215	With the second secon	Vr5 0 597 597 597 255 111 166 116 433 266 219	V76 V76 0 597 597 255 111 166 116 433 266 219	YY7 0 597 597 225 111 16 116 43 226 219	Vr8 0 597 597 255 111 16 117 43 266 219	Yr9 0 597 597 25 11 16 117 43 26 219	γγ10 0 597 25 11 16 116 117 43 26 219	Vr11 132 597 729 25 11 16 117 147 26 219	۲۲12 0 597 597 25 11 16 117 43 26 219	9713 0 597 597 25 11 16 115 117 143 26 219	۲۲14 0 597 597 25 111 16 117 43 26 220	Yr15 0 597 597 25 11 16 117 43 26 220		0 597 597 25 11 16 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	132 597 729 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 221	0 597 597 25 11 17 117 43 26 221	0 597 597 255 111 177 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 25 11 17 118 43 26 221
Benefit COST Batio Discount Rate Discount Rate Changes Capital Costs Capital Costs Capital Costs Capital Costs Capital Costs Capital Costs Capital Costs Deventing School Excursions Induced Spending Tom Increased tourism & statis Increased tourism & statis	12% ronbury Present Value 5,000 1452 7991 1156 311 140 245 341 2911 156 341 2911 6058 341 2911	Cost Be Discount Sunshin Oct-14 Yr1 33331 597 3929 25 500 16 116 43 28 26 218	enefit / Rate: e Coast Yr2 0 597 597 255 111 16 116 116 433 26 218	Assess Region: 773 0 597 255 111 166 116 116 116 215 215	With the second secon	Vr5 0 597 597 597 255 111 166 116 433 266 219	V76 V76 0 597 597 255 111 166 116 433 266 219	YY7 0 597 597 225 111 16 116 43 226 219	Vr8 0 597 597 255 111 16 117 43 266 219	Yr9 0 597 597 25 11 16 117 43 26 219	γγ10 0 597 25 11 16 116 117 43 26 219	Vr11 132 597 729 25 11 16 117 147 26 219	۲۲12 0 597 597 25 11 16 117 43 26 219	9713 0 597 597 25 11 16 115 117 143 26 219	۲۲14 0 597 597 25 111 16 117 43 26 220	Yr15 0 597 597 25 11 16 117 43 26 220		0 597 597 25 11 16 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	132 597 729 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 220	0 597 597 25 11 17 117 43 26 221	0 597 597 25 11 17 117 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 25 11 17 118 43 26 221	0 597 597 25 11 17 118 43 26 221	0 597 25 11 17 118 43 26 221

Sunshine Coast Regional Council

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Contraction of the local division of the loc			our He Ienefit				sibility io 1	Assess	ment																						
And a second																															
Change	ranbury																														
		Oct-14	_	_	_		_			_	_			_			_	_					_			_	_	_			
	<u> </u>			<u> </u>		<u> </u>			<u> </u>																			<u> </u>	-		
	Present Value															\$,0	00														
m	\$,000	¥71	Yr2	Yr3	Yr4	Yr5	Yr6	¥Y7	YrS	YY9	¥710	Yr11	Yr12	Yr13	Yr14	Yr15	¥r16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	Yr30
pital Costs																															
Capital Costs	3120	3028	0	0	0	0	0	0	0	0	0	120	0			0	0	0	0	0	0	120	0	0			0			0	0
Operating Costs	7210	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543		543	543		543	543
tal Costs	10330	3571	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543
nefits																															
Tram Revenue	331	25		25	25	25	25	25		25	25	25	25	25	25	25	25	25	25	25	25	25		25	25		25	25		25	25
Merchandising	140	10		11	11	11							11			11	11	11	11	11		11		11			11			11	11
School Excursions	218	16		16	16	16				16	16	16	16	15		16	16	16	17	17	17	17		17	17		17	17		17	17
Induced Spending from V	1549	116		116	116	116	116	116			117	117	117	117	117	117	117	117	117	117	117	117		117	117		118	118		118	118
Increased tourism & visit	568	43		43	43	43		43		43	43		43		43	43	43	43	43	43	43	43		43	43		43			43	43
Increased tourism to Sun	341	26		26	26	26	26	26		26	26	26	26	26	26	26	26	26	26	26	26	26		26	26		26	26		26	26
Expenditure from new ev	2911	218		218	219	219	219	219		219	219	219	219	219	220	220	220	220	220	220	220	220		221	221		221	221		221	221
tal Revenues	6058	454	454	454	455	455	455	455	456	456	456	456	457	457	457	457	457	458	458	458	458	459	459	459	459	459	460	460	460	460	461
rt Present Value	-4272																														
nefit Cost Ratio	0.59																														
scount Rate	7%	Namb Cost B																													
Change	ranbury	Namb Cost B Discourt								Increase	e costs b	y 0%, inc	rease be	mefits 10	7%																
Change	ranbury	Namb Cost B Discoun Sunshir								Increase	e costs b	y 0%, inc	rease be	mefits 10	2%																
Change	ranbury	Namb Cost B Discoun Sunshir								Increase	e costs b	y 0%, inc	rease be	enefits 10		\$,0	00														
Change	ranbury	Namb Cost B Discoun Sunshir								Increase	e costs b	y 0%, inc	rease be Yr12	mefits 10	0% Yr14	\$,0 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	00 Yr16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	¥r30
Change Imm pital costs	Present Value 5,000	Namb Cost B Discoun Sunshir Oct-14	lenefit at Rate: ne Coast	Assess Region	ment: 7% al Count	Scenar	io 1 Sensitiv	ity Testir	ne			¥711						Yr17	W18	¥719	Yr20		Yr22	¥r23	¥r24	Yr25	Yr26	Yr27	Yr28	Yr29	¥730
Change	ranbury tetesteetee	Namb Cost B Discoun Sunshir Oct-14	lenefit at Rate: ne Coast	Assess Region	ment: 7% al Count	Scenar	io 1 Sensitiv	ity Testir	ne	Yr9								Yr17 0	Yr18 0	Yr19 0	Yr20	Yr21 120	0	¥r23 0	Yr24 0		Yr26	Yr27 0		Yr29 0	0
Change m pital Costs Capital Costs Operating Costs	Present Value 5,000 3120 7210	Namb Cost B Discoun Sunshir Oct-14 W1 3028 543	enefit at Rate: ne Coast	Assess Region	ment: 7% al Count 7% 1 7% 4 0 543	Cli Vr5 0 543	io 1 Sensitiv Упб 0 543	W7 0 543	те Утв 0 543	9779 0 543	۲۲10 0 543	۲/11 120 543	Yr12 0 543	۲۲13 0 543	Yr14 0 543	۲r15 0 543	ΥΥ16 0 543	0	0 543	0	0 543	120 543	0 543	0 543	0 543	0 543	0	0 543	0	0 543	0 543
Change priat costs Capital costs Operating costs At Costs	Present Value \$,000	Namb Cost B Discoun Sunshir Oct-14 W1 3028	ienefit . It Rate: ne Coast W2 0 543	Assess Region	ment: 7% al Count Yr4	Scenar cil Yr5	io 1 Sensitiv	ity Testir	те Утв 0 543	Yr9	۲۲10 0	Vr11 120	Yr12 0	¥13	Yr14 0	¥r15 0	¥716 0	0	0	0	0	120	0 543	0	0	0 543	0	0	0	0	0
Change m pptal costs Capital costs Operating costs tal Costs refits	Present Value \$,000 3120 7210 10330	Namb Cost B Discoun Sunshir Oct-14 W1 3028 543 3571	it Rate: he Coast Yr2 0 543 543	Assess Region W3 0 543 543	ment: 7% al Count 174 0 543 543	Scenar cil Yr5 0 543 543	io 1 Sensitiv Yr6 0 543 543	111 Testin 117 0 543 543	Vr8 0 543 543	Yr9 0 543 543	۲۲10 0 543 543	۲۲11 120 543 663	Vr12 0 543 543	۲۱3 0 543 543	۲/14 0 543 543	۳15 0 543 543	۲۲16 0 543 543	0 543 543	0 543 543	0 543 543	0 543 543	120 543 663	0 543 543	0 543 543	0 543 543	0 543 543	0 543 543	0 543 543	0 543 543	0 543 543	0 543 543
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Sunshine Coast Regional Council

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Capital Costs	3120	3028	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs	7210	543	543	543	543		543	543	543	543	543		543			543	543		543	543	543	543	543		543	543		543	543	543	543
otal Costs	10330	3571	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543		543	543	543	543	543	543	543
enefits					141								5.45	1.15					5.45	145						1.15				1.1	
Tram Revenue	384	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Merchandising	154	12		12	12		12	12	12	12	12		12			12	12		12	12	12	12	12		12	12		12	12		12
School Excursions	240	18		15	18		18	18	18	18	18		18			18	18		15		15	18	18		18	15		18	18	18	15
Induced Spending from V	1704	128	128	128	128	128	128	128	128	128	128		128	129	129	129	129	129	129	129	129	129	129		129	129	129	129	129	130	130
Increased tourism & visit	624	47	47	47	47		47	47	47	47	47		47	47	47	47	47		47	47	47	47	47		47	47	47	47	47	47	47
Increased tourism to Sun	375	28	28	28	28		28	28	28	28	28		28	28		28	28		28	28	28	28	28		28	28		28	28	28	28
Expenditure from new ev	3202	240	240	240	240	240	241	241	241	241	241	241	241	241	242	242	242	242	242	242	242	242	243	243	243	243	243	243	243	243	244
otal Revenues	6683	501	501	501	502		502	502	503	503	503		504	504		504	505		505	505	506	506	506	506	507	507	507	507	508	508	508
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enefit Cost Ratio	0.65										-			<u> </u>			<u> </u>											-		$\vdash$	_
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apital Costs Capital Costs Operating Costs otal Costs Tram Revenue Merchandising School Excursions Induced Spending from V Increased tourism & visit Increased tourism to Sun	Present Value 5,000 3092 5631 8733 299 120 1877 1330 487 239 2487 239 2487 2487 2487 2487 2487 2487 2487 2487	Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 29 122 18 128 47 7 28	VY2 VY2 VY2 VY2 0 543 543 29 12 18 128 47 28	Assess Region 973 0 543 543 29 12 128 128 477 28	ment: 10% al Count 774 0 0 543 543 543 29 122 128 128 47 28	Cil Yr5 0 543 543 29 122 18 128 477 28	о 2 Утб 0 543 543 29 12 128 128 128 128 128 128 128	977 0 543 543 29 12 128 128 128 477 28	Vr8 0 543 543 543 29 122 18 128 128 47 28	0 543 543 29 12 18 128 47 28	0 543 543 29 12 18 128 47 28	120 543 663 29 12 10 128 47 28	0 543 543 29 12 18 128 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	Yr15 0 543 543 29 12 18 129 47 28	ΥΥ16 0 543 543 29 12 29 12 12 12 12 12 12 12 28 29 29 29 29 29 29 29 29 29 29 29 29 29	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	120 543 663 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 130 47 28	0 543 543 29 12 18 130 47 28
apital Costs Capital Costs Operating Costs otal Costs Tram Revenue Microhandising School Excursions Induced Spending from 1v Increased tourism & visio Increased tourism to Sun Expenditure from new ex	Present Value 5,000 3092 3891 187 187 187 187 187 299 120 2499 2499 2499 2499 2499	Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 	VY2 VY2 VY2 VY2 0 543 543 29 12 12 12 12 12 12 12 29 229 229 229	Assess Region 973 0 543 543 543 29 12 18 128 47 28 240	ment: 10% al Couns 10% 10% 10% 10% 10% 10% 10% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12	Cli Vr5 0 543 543 249 122 18 128 47 28 240	о 2 Упб 543 543 29 122 128 128 128 128 128 241	977 0 543 543 29 12 18 128 47 28 47 28 241	Yr8 0 543 543 29 12 12 128 128 47 28 241	0 543 543 29 12 18 128 47 28 241	0 543 543 29 12 128 128 128 47 28 241	120 543 663 29 12 18 128 128 47 28 241	0 543 543 29 12 18 128 47 28 241	0 543 543 29 12 18 129 47 28 241	0 543 543 29 12 18 129 47 28 242	Yr15 0 543 543 29 12 12 12 12 129 47 28 242	ΥΥ16 0 543 543 299 12 129 129 129 129 129 129 247 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	120 543 663 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 12 129 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 12 12 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 130 47 28 243	0 543 543 29 12 18 130 47 28 244
apital Costs Capital Costs Operating Costs operating Costs tal Costs tal Costs Tram Revenue Information School Excursions School Excursions School Excursions Induced Spending from N Increased Tourism & visit Increased tourism & visit Expenditure from new ev tal Revenues	Present value 5,000 3092 59511 120 127 1330 4477 2292 2499 5264 5216	Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 29 122 18 128 47 7 28	VY2 VY2 VY2 VY2 0 543 543 29 12 12 12 12 12 12 12 29 229 229 229	Assess Region 973 0 543 543 29 12 128 128 477 28	ment: 10% al Count 774 0 0 543 543 543 29 122 128 128 47 28	Cil Yr5 0 543 543 29 122 18 128 477 28	о 2 Утб 0 543 543 29 12 128 128 128 128 128 128 128	977 0 543 543 29 12 128 128 128 477 28	Vr8 0 543 543 543 29 122 18 128 128 47 28	0 543 543 29 12 18 128 47 28	0 543 543 29 12 18 128 47 28	120 543 663 29 12 18 128 128 47 28 241	0 543 543 29 12 18 128 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28 242	Yr15 0 543 543 29 12 18 129 47 28	ΥΥ16 0 543 543 29 12 29 12 12 12 12 12 12 12 28 29 29 29 29 29 29 29 29 29 29 29 29 29	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	120 543 663 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 12 18 129 47 28	0 543 543 29 12 18 129 47 28	0 543 543 29 12 18 130 47 28	0 543 543 29 12 18 130 47 28
aptial costs Capital Costs Operating Costs Operating Costs otal Costs eneffs Tram Revenue Merchandising School Excursions Indrued Spending from in Increased tourism & Svis Increased tourism to Sun Expenditure from new ev catal Revenues at Present Value	Present Value 5,000 1002 1873 209 120 1370 1477 13300 4477 2322 2499 2499 2499 2499 2499 2499 2499	Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 	VY2 VY2 VY2 VY2 0 543 543 29 12 12 12 12 12 12 12 29 229 229 229	Assess Region Yr3 0 543 543 543 29 12 18 128 47 28 240	ment: 10% al Couns 10% 10% 10% 10% 10% 10% 10% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12	Cli Vr5 0 543 543 249 122 18 128 47 28 240	о 2 Упб 543 543 29 122 128 128 128 128 128 241	977 0 543 543 29 12 18 128 47 28 47 28 241	Yr8 0 543 543 29 12 12 128 128 47 28 241	0 543 543 29 12 18 128 47 28 241	0 543 543 29 12 128 128 128 47 28 241	120 543 663 29 12 18 128 128 47 28 241	0 543 543 29 12 18 128 47 28 241	0 543 543 29 12 18 129 47 28 241	0 543 543 29 12 18 129 47 28 242	Yr15 0 543 543 29 12 12 12 12 129 47 28 242	ΥΥ16 0 543 543 299 12 129 129 129 129 129 129 247 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	120 543 663 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 12 129 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 12 12 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 130 47 28 243	0 543 543 29 12 18 130 47 28 244
apital Costs Capital Costs Operating Costs Operating Costs otal Costs enefits Tram Revenue Merchandising School Excursions School Excursions Induced Spending from N Increased tourism & visit Increased tourism & visit Expenditure from new evo tal Revenues	Present value 5,000 3092 59511 120 127 1330 4477 2292 2499 5264 5216	Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 	VY2 VY2 VY2 VY2 0 543 543 29 12 12 12 12 12 12 12 29 229 229 229	Assess Region Yr3 0 543 543 543 29 12 18 128 47 28 240	ment: 10% al Couns 10% 10% 10% 10% 10% 10% 10% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12	Cli Vr5 0 543 543 249 122 18 128 47 28 240	о 2 Упб 543 543 29 122 128 128 128 128 128 241	977 0 543 543 29 12 18 128 47 28 47 28 241	Yr8 0 543 543 29 12 12 128 128 47 28 241	0 543 543 29 12 18 128 47 28 241	0 543 543 29 12 128 128 128 47 28 241	120 543 663 29 12 18 128 128 47 28 241	0 543 543 29 12 18 128 47 28 241	0 543 543 29 12 18 129 47 28 241	0 543 543 29 12 18 129 47 28 242	Yr15 0 543 543 29 12 12 12 12 129 47 28 242	ΥΥ16 0 543 543 299 12 129 129 129 129 129 129 129 247 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	120 543 663 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 12 129 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 12 12 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 130 47 28 243	0 543 543 29 12 18 130 47 28 244
apital Costs Capital Costs Operating Costs Operating Costs and Costs enertise Tram Revenue Merchandling School Excursions Increased tourism & Visis Increased tourism to Sun Expenditure from new ev tal Revenues at Present Value	Present Value 5,000 1002 1873 209 120 1370 1477 13300 4477 2322 2499 2499 2499 2499 2499 2499 2499	Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 	VY2 VY2 VY2 VY2 0 543 543 29 12 12 12 12 12 12 12 29 229 229 229	Assess Region Yr3 0 543 543 543 29 12 18 128 47 28 240	ment: 10% al Couns 10% 10% 10% 10% 10% 10% 10% 12% 12% 12% 12% 12% 12% 12% 12% 12% 12	Cli Vr5 0 543 543 249 122 18 128 47 28 240	о 2 Упб 543 543 29 122 128 128 128 128 128 241	977 0 543 543 29 12 18 128 47 28 47 28 241	Yr8 0 543 543 29 12 12 128 128 47 28 241	0 543 543 29 12 18 128 47 28 241	0 543 543 29 12 128 128 128 47 28 241	120 543 663 29 12 18 128 128 47 28 241	0 543 543 29 12 18 128 47 28 241	0 543 543 29 12 18 129 47 28 241	0 543 543 29 12 18 129 47 28 242	Yr15 0 543 543 29 12 12 12 12 129 47 28 242	ΥΥ16 0 543 543 299 12 129 129 129 129 129 129 129 247 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 242	120 543 663 29 12 18 129 47 28 242	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 12 129 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 12 12 129 47 28 243	0 543 543 29 12 18 129 47 28 243	0 543 543 29 12 18 130 47 28 243	0 543 543 29 12 18 130 47 28 244

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Sunshine Coast Regional Council

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ORDINARY MI	EETING
Item 8.4.1	Nambour Heritage Tramway Project Update
Attachment 4	Nambour Tramway 2015 Feasibility Analysis

		Namb	our H <u>e</u>	ritage '	Tramw	ay Feas	ibility	Assess	ment					_	_		_	_		_	_		_				_		_		
And a second second																															
Change	ranbury																														
and the second second																															
	Present Value															\$,0	000														
Item	\$,000	¥r1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	YrS	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	¥r16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	Yr30
Capital Costs																															
Capital Costs	3079	3028	0	0	0	0	0	0	0	0			0		0	0	0	0	0		0	120	0	0	0	0	0	0	0	0	0
Operating Costs	4899	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543		543	543	543	543	543	543	543	543	543	543	543
Total Costs	7978	3571	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543	663	543	543	543	543	543	543	543	543	543
Benefits																															
Tram Revenue	260	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29		29	29		29	29	29	29	29		29	29
Merchandising	105	12	12	12		12	12	12	12	12	12		12		12	12			12		12	12		12	12	12	12	12		12	12
School Excursions	163	18	18	18		18	18	18	18	18	18	18	18	16	18	18	18	18	18		18	18	18	18	18	15	18	18		18	15
Induced Spending from V	1157	128	128	128	128	128	128			128	128	128	128	129	129	129	129	129	129		129	129		129	129	129	129	129		130	130
Increased tourism & visit	424	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47		47	47	47	47	47	47	47	47	47	47	47
Increased tourism to Sun	254	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28		28	28	28	28	28	28	28	28	28	28	28
Expenditure from new ev	2173	240	240	240	240	240	241	241	241	241	241	241	241	241	242	242	242	242	242		242	242		243	243	243	243	243		243	244
fotal Revenues	4536	501	501	501	502	502	502	502	503	503	503	503	504	504	504	504	505	505	505	505	506	506	506	506	507	507	507	507	508	508	508
Net Present Value	-3443																														
Benefit Cost Ratio	0.57																														
Discount Rate	12%					ay Feas Scenari		Assess	ment																						
Change	ranbury									Increase	costs b	y 10%, de	crease	benefits	10%																
Change	ranbury									Increase	costs b	y 10%, de	crease	benefits	10%																
Change	ranbury									Increase	costs b	y 10%, de	crease	benefits	10%																
Change	ranbury resent Value	Cost B Discoun Sunshin Oct-14	enefit / t Rate: te Coast	Assess	ment: 7% al Couni	Scenari	io 2 Sensitivi	ity Testir	ч <b>с</b>							\$,0															
Change	ranbury									Increase	e costs b W10	y 10%, de	Yr12	benefits W13	10% Yr14	\$,0 ¥r15	000 19716	Yr17	Yr18	¥r19	¥r20	Y721	¥r22	Yr23	Yr24	¥r25	Yr26	¥r27	Yr28	Yr29	¥730
Change tem capital costs	Present Value 5,000	Cost B Discoun Sunshin Oct-14	enefit / t Rate: te Coast	Assess Regiona Yr3	ment: 7% al Count	Scenari 51 Yr5	io 2 Sensitivi Yrő	ity Testir	YrS	Yr9	١٢10	¥r11	Yr12	¥13	Yr14	Yr15	¥r16														¥130
Change Isem Capital Costs Capital Costs	Present Value 5,000 3432	Cost B Discoun Sunshin Oct-14 Wr1 3331	enefit / t Rate: te Coast Yr2	Assess Regiona Yr3 0	ment: 7% al Count Yr4	Scenari II Yr5	io 2 Sensitivi Yr6	ity Testir	Yr8	Yr9 O	Yr10 0	۲۲11 132	Yr12 0	¥13	Yr14 0	¥r15 0	¥716 0	0	0	0	0	132	0	0	0	0	0	0	0	0	0
Cohange Item Capital Costs Capital Costs Coperating Costs	Present Value 5,000 3432 7931	Cost B Discoun Sunshin Oct-14 W1 3331 597	enefit / t Rate: ne Coast Yr2 0 597	Assess Regiona Yr3 0 597	ment: 7% al Coune 7% 7% 4 0 597	Scenari :il 	0 2 Sensitivi <u>Yr6</u> 0 597	11y Testin 1177 0 597	Yr8 0 597	Yr9 0 597	۲۲10 0 597	Yr11 132 597	Yr12 0 597	۲۲13 0 597	Yr14 0 597	Vr15 0 597	9716 0 597	0	0	0	0	132 597	0	0	0	0	0	0	0	0	0
Change tem Capital Costs Capital Costs Capital Costs Capital Costs	Present Value 5,000 3432	Cost B Discoun Sunshin Oct-14 W1 3331 597	enefit / t Rate: te Coast Yr2	Assess Regiona Yr3 0	ment: 7% al Count Yr4	Scenari II Yr5	io 2 Sensitivi Yr6	ity Testir	Yr8	Yr9 O	Yr10 0	۲۲11 132	Yr12 0	¥13	Yr14 0	¥r15 0	¥716 0	0	0	0	0	132	0	0	0	0	0	0	0	0	0
Cchange Item Capital costs Capital costs Coperating Costs Total Costs Benefits	Present Value 5,000 3432 7931 11363	Cost B Discoun Sunshin Oct-14 Wr1 3331 597 3929	enefit / t Rate: le Coast Yr2 0 597 597	Assess Regiona Yr3 0 597 597	ment: 7% al Count 17% 17% 17% 17% 17% 17% 17% 17% 17% 17%	Scenari II Yr5 0 597 597	0 2 Sensitivi Yr6 0 597 597	11y Testin 11y 11y 11y 11y 11y 11y 11y 11y 11y 11	Yr8 0 597 597	Yr9 0 597 597	۲۲10 0 597 597	۲۲11 132 597 729	۲۲12 0 597 597	9713 0 597 597	۲۲14 0 597 597	¥r15 0 597 597	₩16 0 597 597	0 597 597	0 597 597	0 597 597	0 597 597	132 597 729	0 597 597	0 597 597	0 597 597	0 597 597	0 597 597	0 597 597	0 597 597	0 597 597	0 597 597
Cchange Item Capital Costs Coperating Costs Coperating Costs Berefits Tran Revenue	Present Value 5,000 3432 7931 11363 349	Cost B Discoun Sunshin Oct-14 W1 33311 597 3929 26	enefit / t Rate: le Coast Yr2 0 597 597 26	Assess Regiona Yr3 0 597 597 26	ment: 7% al Count 7% 100 100 100 100 100 100 100 100 100 10	Vr5 0 597 26	0 2 Sensitivi Yr6 0 597 597 26	11y Testin 11y 11y 11y 11y 11y 11y 11y 11y 11y 11	Yr8 0 597 597 26	۲۲9 0 597 597 26	۲۲10 0 597 597 26	۲۲11 132 597 729 26	Vr12 0 597 597 26	9713 0 597 597 26	۲۲14 0 597 597 26	Yr15 0 597 597 26	9716 0 597 597 26	0 597 597 26	0 597 597 26	0 597 597 26	0 597 597 26	132 597 729 26	0 597 597 26	0 597 597 26	0 597 597 26	0 597 597 26	0 597 597 26	0 597 597 26	0 597 597 26	0 597 597 27	0 597 597 27
Change tem Capital Costs Capital Costs Coperating Costs Operating Costs Steal Costs Benefits Train Revenue Marchandising	Present Value 5,000 3452 7951 11363 349 140	Cost B Discoun Sunshin Oct-14 W1 33311 597 3929 26 26	enefit / t Rate: ne Coast Yr2 0 597 597 597 26 11	Assess Regiona Yr3 0 597 597 26 11	ment: 7% al Coune 174 0 597 597 26 11	Yr5 0 597 26 11	0 2 Sensitivi Υ٣6 0 597 597 26 11	Yr7 0 597 26 11	Yr8 0 597 597 26 11	Vr9 0 597 597 26 11	νr10 0 597 597 26 11	Vr11 132 597 729 26 11	Vr12 0 597 597 26 11	9713 0 597 597 26 11	۲۲14 0 597 597 26 11	¥r15 0 597 597 26 11	9716 0 597 597 26 11	0 597 597 26 11	0 597 597 26 11	0 597 597 26 11	0 597 597 26 11	132 597 729 26 11	0 597 597 26 11	0 597 597 26 11	0 597 597 26 11	0 597 597 26 11	0 597 597 26 11	0 597 597 26 11	0 597 597 26 11	0 597 597 27 11	0 597 597 27 11
Cochange Item Capital costs Capital costs Capital costs Depending costs Tram Revenue Merchandising School Recursions	Present Value 5,000 3432 7931 11363 349 1400 216	Cost B Discoun Sunshir Oct-14 W1 33331 597 3929 266 206 100	enefit / t Rate: se Coast Yr2 0 597 597 597 226 111	Assess Regiona Yr3 0 597 597 26 11	ment: 7% al Count 17/4 0 597 597 26 11	Scenari 	0 2 Sensitivi γr6 0 597 597 26 11	Yr7 0 597 26 11	Yr8 0 597 597 225 111 16	Vr9 0 597 597 26 11 16	νr10 0 597 597 26 11	Vr11 132 597 729 26 11 16	Vr12 0 597 597 26 11	۲۲13 0 597 26 11 16	Yr14 0 597 597 26 111	¥r15 0 597 597 26 11 16	W16 0 597 597 26 11 16	0 597 597 26 11 16	0 597 597 26 11 17	0 597 597 26 11 17	0 597 597 26 11 17	132 597 729 26 11 17	0 597 597 26 11 17	0 597 597 26 11 17	0 597 597 26 11 17	0 597 597 26 11 17	0 597 597 26 11 17	0 597 597 26 11 17	0 597 597 26 11 17	0 597 597 27 11 17	0 597 597 27 11 17
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Team Capital Costs Capital Costs Capital Costs Capital Costs Costal Costs School Ecourison Induced Spending Trom View Increased Tourism & Visiti Increased Tourism & Visiti Increased Tourism & Visiti Increased Tourism & Visiti Increased Tourism & Visiti	Present Value 5,000 3432 7931 11363 349 1400 218 1549 566 566 566 566 566 566 566 566 566 56	Cost B Discoun Sunshin Oct-14 W1 3331 597 3929 26 10 16 116 43 26 215	enefit / t Rate: te Coast vr2 vr2 0 597 597 226 111 16 116 43 226 218	Assess Regiona Yr3 0 597 597 26 11 16 116 116 116 116 116 215	ment: 7% al Count 7% 0 597 597 597 266 111 166 116 116 433 266 219	Vrr5 0 597 597 226 111 16 116 43 226 219	о 2 Sensitivi Упб 0 597 597 226 111 166 116 43 226 219	117 Testi 117 0 597 597 26 111 16 116 116 43 26 219	Yr8 0 597 597 28 11 16 117 43 28 219	۲۲9 0 597 597 266 111 117 117 43 26 219	۲۲10 0 597 597 266 111 167 116 117 43 266 219	۲۲11 132 597 729 26 111 16 117 143 28 28 219	۲۲12 0 597 597 266 111 16 117 43 26 219		۲۲14 0 597 26 11 16 117 43 26 220	Yr15 0 597 597 26 11 16 117 43 26 220		0 597 597 26 11 16 117 43 26 220	0 597 597 266 111 177 117 43 26 220	0 597 597 26 11 17 117 43 26 220	0 597 597 26 11 17 117 43 26 220	132 597 729 26 11 17 117 43 26 220	0 597 597 266 111 177 117 43 26 220	0 597 597 26 11 17 117 43 26 221	0 597 597 26 11 17 117 43 26 221	0 597 597 26 111 17 118 43 26 221	0 597 597 26 11 17 118 43 26 221	0 597 597 26 111 17 118 43 26 221	0 597 597 266 111 177 118 43 26 221	0 597 597 27 11 17 118 43 26 221	0 597 597 27 11 17 118 43 26 221
Change Constant Const	Present Value 5,000 3432 7931 1393 3492 140 1549 5494 549	Cost B Discoun Sunshin Oct-14 W1 3331 597 3929 26 10 16 116 43 26 215	enefit / t Rate: te Coast vr2 vr2 0 597 597 226 111 16 116 43 226 218	Assess Regiona Yr3 0 597 597 26 11 16 116 116 116 116 116 215	ment: 7% al Count 7% 0 597 597 597 266 111 166 116 116 433 266 219	Vrr5 0 597 597 226 111 16 116 43 226 219	о 2 Sensitivi Упб 0 597 597 226 111 166 116 43 226 219	117 Testi 117 0 597 597 26 111 16 116 116 43 26 219	Yr8 0 597 597 28 11 16 117 43 28 219	۲۲9 0 597 597 266 111 117 117 43 26 219	۲۲10 0 597 597 266 111 167 116 117 43 266 219	۲۲11 132 597 729 26 111 16 117 143 28 28 219	۲۲12 0 597 597 266 111 16 117 43 26 219		۲۲14 0 597 26 11 16 117 43 26 220	Yr15 0 597 597 26 11 16 117 43 26 220		0 597 597 26 11 16 117 43 26 220	0 597 597 266 111 177 117 43 26 220	0 597 597 26 11 17 117 43 26 220	0 597 597 26 11 17 117 43 26 220	132 597 729 26 11 17 117 43 26 220	0 597 597 266 111 177 117 43 26 220	0 597 597 26 11 17 117 43 26 221	0 597 597 26 11 17 117 43 26 221	0 597 597 26 111 17 118 43 26 221	0 597 597 26 11 17 118 43 26 221	0 597 597 26 111 17 118 43 26 221	0 597 597 266 111 177 118 43 26 221	0 597 597 27 11 17 118 43 26 221	0 597 597 27 11 17 118 43 26 221
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Sunshine Coast Regional Council

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Item	\$,000	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	Yr7	YrS	Yr9	Yr10	¥r11	Yr12	W13	Yr14	Yr15	W16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	Yr30
Capital Costs		1010	0	0	0	0	0		0	0	-	170	0		0	0	0	0	0	-	0	120	-	-	0		0		0	0	-
Capital Costs	3120	3028 543	543	543	543	543	543	0 543		543	0 543	120	543	0 543	543	543	543	543	543	0 543	543	120	0	0 543	543				543	543	0
Operating Costs Total Costs	10330	3571	543	543	543	543	543	543		543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543	543			543	543	543 543
Benefits	10550	35/1	345	242	242	345	545	343	242	545	343	003	545	545	545	545	545	243	545	243	242	003	545	243	545	243	545	545	242	343	242
				24	24			24		24			2.4	24	24	24	24	24	24	24		24			24		24		24		22
Tram Revenue Merchandising	349	26	26	26	26	26	26	26		26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26		26	26	27	27
School Excursions	218	10		11	11		11	11		11			11	11	11	11	11		11	17	11	11	11	11	11				11		11
Induced Spending from V	218	10		16	10	10	10	10		10	10	10	10	15	10	10	10	10	117	117	17	17	117	1/	1/	1/			1/	1/	17
Increased tourism & visiti	568	43	43	43	43	43	43	43		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43		43	43	43	43
Increased tourism & visit	341	43	43	43	43	43	43	43		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43				43	43	43
Expenditure from new ev	2911	218	218	218	219	219	219	219		219	219	219	219	219	220	220	220	220	220	220	220	220	220	221	221	221	221	221	221	221	221
Total Revenues	6076	455		456	456	456	457	457		457	457	458	458	458	458	459	459	459	459	459	460	460	460	460	461	461		461	462	462	462
Net Present Value	-4254	433	430	430	430	430	437	437	437	437	437	438	438	438	436	439	439	439	439	439	400	400	400	400	401	401	401	401	402	402	402
Benefit Cost Ratio	-4254				-				-								<u> </u>						<u> </u>			<u> </u>	-	<u> </u>			
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Change	ranbury	Namb Cost B Discoun						Assess		Increase	r costs b	y 0%, inc	rease be	nefits 10	296																
Change	ranbury	Namb Cost B Discoun Sunshin								Increase	e costs b	y 0%, inc	rease be	nefits 10	95																
Change	ranbury	Namb Cost B Discoun Sunshin								Increase	e costs b	y 0%, inc	rease be	nefits 10	<del>75</del>																
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Change Rem Capital Costs	Present Value \$,000	Namb Cost B Discoun Sunshin Oct-14	enefit . nt Rate: ne Coast	Assess Regiona	ment: 7% al Count	Scenari di Yr5	io 2 Sensitiv Yrő	ity Testir	Yrs	Yr9	١٢١٥	Yr11	Yr12	¥r13	Yr14	¥r15	¥r16														¥r30
Change Item Capital Costs Capital Costs	Present Value 5,000 3120	Namb Cost B Discoun Sunshin Oct-14 W1 3028	VY2	Assess Regiona Yr3 0	ment: 7% al Count 17%4	Scenari II Yr5	io 2 Sensitiv Yr6	ity Testir	YYS 0	Yr9	¥Y10	۲/11 120	Yr12 0	¥13	Yr14 0	¥r15 0	¥716	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Cchange Item Capital Costs Capital Costs Operating Costs	Present Value 5,000 3120 7210	Namb Cost B Discoun Sunshin Oct-14 W1 3028 543	enefit . at Rate: ne Coast	Assess Regiona Yr3 0 543	ment: 7% al Count 7% 1 7% 4 0 543	Scenari :II 	0 2 Sensitiv Yr6 0 543	W7 0 543	YY8 0 543	Yr9 0 543	۲۳10 0 543	۲/11 120 543	Yr12 0 543	۲۲13 0 543	Yr14 0 543	¥r15 0 543	9716 0 543	0	0 543	0 543	0 543	120 543	0 543	0 543	0	0 543	0	0 543	0	0 543	0 543
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Change Item Capital Costs Capital Costs Operating Costs Total Costs Benefits	Present Value \$,000 3120 7210 10330	Namb Cost B Discoun Sunshir Oct-14 W1 3028 543 3571	enefit . It Rate: he Coast Yr2 0 543 543	Assess Regiona Yr3 0 543 543	ment: 7% al Count 174 0 543 543	Scenari (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0 2 Sensitiv Yr6 0 543 543	11y Testin 11y 11y 11y 11y 11y 11y 11y 11y 11y 11	Yr8 0 543 543	Yr9 0 543 543	γr10 0 543 543	۲۲11 120 543 663	۲۲12 0 543 543	۲13 0 543 543	۲۲14 0 543 543	۲۲15 0 543 543	W16 0 543 543	0 543 543	0 543 543	0 543 543	0 543 543	120 543 663	0 543 543	0 543 543	0 543 543	0 543 543	0 543 543	0 543 543	0 543 543	0 543 543	0 543 543
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Cchange Capital Costs Capital Costs Coerating Costs Total Costs Benefits Tran Revenue Merchandsing School Excursions Induced Spending from V	Present Value 5,000 3120 72210 10330 422 109 264 422 1875	Namb Cost B Discoun Sunshin Oct-14 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	Vr2 Vr2 Vr2 0 543 543 32 32 32 13 20 141	Assess Region: 973 0 543 543 543 32 32 32 20 141	ment: 7% al Count al Count 7% 0 543 543 543 543 543 543 543 543 543 543	Scenari 	0 2 Sensitiv Yr6 0 543 543 543 32 32 32 20 141	W7 0 543 543 32 32 13 20 141	Yr8 0 543 543 32 13 20 141	VY79 0 543 543 32 13 20 141	W10 0 543 543 32 13 20 141	V/11 120 543 663 32 13 20 141	۲۲12 0 543 543 32 13 20 141	۲۲13 0 543 543 32 13 20 141	9714 0 543 543 32 13 20 141	Yr15 0 543 543 32 13 20 141	W16 0 543 543 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 142	120 543 663 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 142	0 543 543 32 13 20 143
Tem Capital Costs Capital Costs Capital Costs Operating Costs Train Revenue Merchandsing School Eccurison Induced Spending Trom V Increased Durison & Visio	Present Value 5,000 3120 20330 422 169 264 264 265 667 5	Namb Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 322 133 20 141 51	VY2 0 543 543 32 13 20 141 52	Assess Region: 973 0 543 543 32 32 32 32 20 141 52	ment: 7% al Count 974 0 543 543 32 13 20 141 52	Vr5 0 543 543 32 13 20 144 52	0 2 Sensitiv Yr6 0 543 543 32 32 32 20 141 52	W7 0 543 543 32 32 13 20 141 52	YY8 0 543 32 13 20 141 141 52	Vr9 0 543 543 32 13 20 141 52	w10 0 543 543 32 13 20 141 52	۲۲11 120 543 663 32 13 20 141 52	۲۲12 0 543 543 32 13 20 141 52	¥13 0 543 543 32 13 20 141 52	۲۲14 0 543 543 32 32 13 20 141 52	9715 0 543 543 32 13 20 141 52	W16 0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	120 543 663 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 142 52	0 543 543 32 13 20 143 52
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Cchange Capital Costs Capital Costs Capital Costs Cost and Costs Total Costs Benefits Train Rivenue Merchandsing School Excursion Increased tourism & Suns Increased tourism & Suns Increased tourism & Suns Increased tourism & Suns Increased tourism & Suns Expenditure from neve to Total Revenues	Present Value \$,000 3120 3120 3030 422 169 244 1875 427 427 3522 73522 73522	Namb Cost B Discoun Sunshir Oct-14 3028 543 3571 32 32 20 141 51 31	VY2 VY2 VY2 0 543 543 543 543 20 141 522 31 224	Assess Region: 773 0 543 543 32 13 20 141 52 31	ment: 7% al Count 7% 1 0 0 543 543 543 543 20 141 1 52 31	Vrr5 0 543 543 543 32 32 13 200 141 141 201 141	о 2 Sensitiv Угб 0 543 543 32 13 20 141 52 31	W7 0 543 543 32 13 20 141 52 31	VY8 0 543 543 32 13 200 141 522 31 265	979 0 543 543 32 13 200 141 52 31	¥10 0 543 543 32 13 20 141 52 31	۲۲11 120 543 663 32 13 20 141 52 31	۲۲12 0 543 543 32 13 200 141 52 31	¥13 0 543 543 32 32 20 141 52 31	Υr14 0 543 543 32 32 20 141 52 31	9715 0 543 543 32 13 20 141 52 31	ΥΥ16 0 543 543 322 13 20 142 52 31	0 543 543 32 13 20 142 52 31	0 543 543 32 13 20 142 52 31	0 543 543 32 13 20 142 52 31	0 543 543 32 13 20 142 52 31	120 543 663 32 13 20 142 52 31	0 543 543 32 13 20 142 52 31	0 543 543 32 13 20 142 52 31	0 543 543 32 13 20 142 52 31	0 543 543 32 13 20 142 52 52 31	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31	0 543 543 32 13 20 142 52 31	0 543 543 32 13 20 142 52 31	0 543 543 32 13 20 143 52 31
Tem Capital Costs Capital Costs Capital Costs Capital Costs Capital Costs Tran Revenue Merchandsing School Eccurison Induced Spending from V Increased Tourison & Visio Increased Tourison & Visio	Present Value 5,000 3120 7210 264 1873 6677 4122 3522 7352 7352 7352	Namb Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 322 13 20 141 51 31 21 31 20	VY2 VY2 VY2 0 543 543 543 543 20 141 522 31 224	Assess Regiona 9773 0 543 543 32 13 20 141 522 31 264	ment: 7% al Count 7% 0 543 543 543 543 52 13 20 141 52 31 254	Vrr5 0 543 543 543 543 543 543 543 543 543 543	0 2 Sensitiv 7/76 0 543 543 543 543 543 20 144 1 52 31 1 265	117 Testi 117 Testi 117 0 117 0 117 0 117 1 117 1 1	VY8 0 543 543 32 13 200 141 522 31 265	Yr9 0 543 32 13 20 141 52 51 265	γ 10 0 543 32 13 20 141 152 31 265	۲۲11 120 543 663 32 13 20 141 52 52 31 265	۲۲12 0 543 543 32 13 20 141 52 31 265	۲۲13 0 543 32 33 20 141 52 31 266	۲۲14 0 543 32 13 20 141 543 20 141 266	9715 0 543 543 32 13 20 141 52 31 266	ΥΥ16 0 543 543 322 13 20 142 52 52 31 266	0 543 543 32 13 20 142 52 52 31 266	0 543 543 32 13 20 142 52 31 266	0 543 543 32 13 20 142 52 52 31 266	0 543 543 32 13 20 142 52 52 31 267	120 543 663 32 13 20 142 52 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 52 31 267	0 543 543 32 13 20 142 52 52 31 268	0 543 543 32 13 20 142 52 52 31 268	0 543 543 32 13 20 143 52 31 268
Item Capital Costs Capital Costs Capital Costs Capital Costs Operating Costs Train Revenue Merchandising School Eccursion Indread Spending Trom Vision Increased Tourism & Sush Increased Tourism & Sush Increased Tourism & Sush	Present Value \$,000 3120 31	Namb Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 322 13 20 141 51 31 21 31 20	VY2 VY2 VY2 0 543 543 543 543 20 141 522 31 226	Assess Regiona 9773 0 543 543 32 13 20 141 522 31 264	ment: 7% al Count 7% 0 543 543 543 543 52 13 20 141 52 31 254	Vrr5 0 543 543 543 543 543 543 543 543 543 543	0 2 Sensitiv 7/76 0 543 543 543 543 543 543 543 543 543 543	117 Testi 117 Testi 117 0 117 0 117 0 117 1 117 1 1	VY8 0 543 543 32 13 200 141 522 31 265	Yr9 0 543 32 13 20 141 52 51 31 265	γ 10 0 543 32 13 20 141 152 31 265	۲۲11 120 543 663 32 13 20 141 52 52 31 265	۲۲12 0 543 543 32 13 20 141 52 31 265	۲۲13 0 543 32 33 20 141 52 31 266	۲۲14 0 543 32 13 20 141 543 20 141 266	9715 0 543 543 32 13 20 141 52 31 266	ΥΥ16 0 543 543 322 13 20 142 52 52 31 266	0 543 543 32 13 20 142 52 52 31 266	0 543 543 32 13 20 142 52 31 266	0 543 543 32 13 20 142 52 52 31 266	0 543 543 32 13 20 142 52 52 31 267	120 543 663 32 13 20 142 52 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 52 31 267	0 543 543 32 13 20 142 52 52 31 268	0 543 543 32 13 20 142 52 52 31 268	0 543 543 32 13 20 143 52 31 268
Tem Capital Costs Capital Costs Capital Costs Capital Costs Capital Costs Tran Revenue Merchandsing School Eccurison Induced Spending from V Increased Tourison & Visio Increased Tourison & Visio	Present Value 5,000 3120 7210 264 1873 6677 4122 3522 7352 7352 7352	Namb Cost B Discoun Sunshir Oct-14 W1 3028 543 3571 322 13 20 141 51 31 21 31 20	VY2 VY2 VY2 0 543 543 543 543 20 141 522 31 226	Assess Regiona 9773 0 543 543 32 13 20 141 522 31 264	ment: 7% al Count 7% 0 543 543 543 543 52 13 20 141 52 31 254	Vrr5 0 543 543 543 543 543 543 543 543 543 543	0 2 Sensitiv 7/76 0 543 543 543 543 543 543 543 543 543 543	117 Testi 117 Testi 117 0 117 0 117 0 117 1 117 1 1	VY8 0 543 543 32 13 200 141 522 31 265	Yr9 0 543 32 13 20 141 52 51 265	γ 10 0 543 32 13 20 141 152 31 265	۲۲11 120 543 663 32 13 20 141 52 52 31 265	۲۲12 0 543 543 32 13 20 141 52 31 265	۲۲13 0 543 32 33 20 141 52 31 266	۲۲14 0 543 32 13 20 141 543 20 141 266	9715 0 543 543 32 13 20 141 52 31 266	ΥΥ16 0 543 543 322 13 20 142 52 52 31 266	0 543 543 32 13 20 142 52 52 31 266	0 543 543 32 13 20 142 52 31 266	0 543 543 32 13 20 142 52 52 31 266	0 543 543 32 13 20 142 52 52 31 267	120 543 663 32 13 20 142 52 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 31 267	0 543 543 32 13 20 142 52 52 31 267	0 543 543 32 13 20 142 52 52 31 268	0 543 543 32 13 20 142 52 52 31 268	0 543 543 32 13 20 143 52 31 268

Sunshine Coast Regional Council

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item	\$,000	Yr1	Yr2	Yr3	Yr4	Yr5	Yr6	¥77	Yr8	Yr9	¥r10	Yr11	¥r12	Yr13	Yr14	¥*15	Yr16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	Yr30
Capital Costs	2,000										11.80				1124		1120	1127		1125	1120			112.5	112.4		1120		1120		
Capital Costs	2998	2906	0	0	0	0	0	0	0	0	0	120	0	0	0	0		0	0	0	0	120	0	0	0	0	0	0		0	0
Operating Costs	1952	147	147	147	147	147	147	147	147			147	147	147	147	147	147	147	147	147	147	147	147		147	147		147	147	147	147
Total Costs	4950	3053	147	147	147	147	147	147	147			267	147	147	147	147	147	147	147	147	147	267	147	147	147	147		147	147	147	147
Benefits	4770		147	1.47	247	147	247	247	147	147	147	207	147	147	147	147	147	247	147	147		207	247	147	R47			147	147		
Tram Revenue	364	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28
Merchandising	154	12	12	12		12	12	12	12				12	12	12	12			12	12	12	12	12	12	12	12		12	12	12	12
School Excursions	240	12	12	12		12	12	12	12		12	12	12	12	12	12	12	12	12	12	18	12	12	12	12	12	12	12	12	18	18
Induced Spending from V	1704	10	128	128	10	10	10	10	128		10	10	10	10	10	129	10	10	129	129	129	129	10	129	129	129		10	129	130	130
Increased tourism & visite	624	47	47	47	47	47	47	47	47		47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
Increased tourism to Sun	375	28	28	28	28	28	28	28	28		28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Expenditure from new ev	3202	240	240	240	240	240	241	241	241		241	241	241	241	242	242	242	242	242	2.42	242	242	243	243	243	243	243	243	243	243	244
Total Revenues	6663	499	500	500	500	500	501		501		502	502	502	502	503	503	503	503	504	504	504	504	505	505	505	505		506	506	506	507
Net Present Value	1713			,												505					,									500	
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Change	7%	Cost Be Discount Sunshin Oct-14	enefit / : Rate: e Coast	Assess	ment: S 10% al Counc	Scenari il	io 3 (In	kind ar	nd Vol							5,0															
Benefit cost Ratio	7%									unteer	service \\\\\	55) Yr11	¥r12	¥13	Yr14	5,0 W15	000 \\\16	¥r17	Yr18	¥719	¥720	9721	¥r22	Yr23	¥724	Yr25	Yr26	Yr27	Yr28	Y/29	Yr30
ternefit cost Ratio	7% ranbury Present Value 5,000	Cost Be Discount Sunshin Oct-14	enefit a : Rate: e Coast Yr2	Assess Region	ment: S 10% al Counc	Scenari II Yr5	io 3 (In Yr6	wr7	Yr8	Yr9	Yr10	Yr11				¥r15	Yr16														¥730
temetic cost Ratio	7% ranbury Present Value \$,000 2970	Cost Be Discount Sunshin Oct-14	enefit / : Rate: e Coast Yr2 0	Assess Region Yr3 0	Ment: S 10% al Counc VY4	Scenari il Yr5 0	io 3 (In Yr6 0	W7	Yr8	YT9 0	¥r10	Yr11 120	0	0	0	W15 0	Yr16 0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
temetic cost Ratio	756 Present Value \$,000 2970 1524	Cost Be Discount Sunshin Oct-14 W1 W1 2905 147	enefit / t Rate: e Coast Yr2 0 147	Assess Region Yr3 0 147	Yr4           0           147	Scenari il <u>Yr5</u> 0 147	Vr6 0 147	<u>۲۲7</u> 0 147	Yr8 0 147	Yr9 0 147	۲۲10 0 147	Yr11 120 147	0	0	0	9715 0 147	¥r16 0 147	0	0	0	0	120	0	0	0	0	0	0	0	0	0
terrefit Cost Ratio	7% ranbury Present Value \$,000 2970	Cost Be Discount Sunshin Oct-14	enefit / : Rate: e Coast Yr2 0	Assess Regioni Yr3 0	Ment: S 10% al Counc Vr4	Scenari il Yr5 0	io 3 (In Yr6 0	W7	Yr8	YT9 0	¥r10	Yr11 120	0	0	0	W15 0	Yr16 0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
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Sunshine Coast Regional Council

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ORDINARY MI	EETING
Item 8.4.1	Nambour Heritage Tramway Project Update
Attachment 4	Nambour Tramway 2015 Feasibility Analysis

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Capital Costs	2,000														1124				1120		1120			112.5	1124	112.5	1120	1127	1120		11.30
Capital Costs	2957	2906	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs	1326	147	147	147	147	147	147	147		147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147		147	147	147	147
fotal Costs	4284	3053	147	147	147	147	147	147		147	147		147	147	147	147	147	147	147	147	147	267			147	147	147	147	147	147	147
senefits																2.07						207					-				
Tram Revenue	247	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	28	28	28	28	28	28	28	28	28	28	28
Merchandising	105	12	12	12	12		12	12		12	12		12			12	12	12	12		12	12		12	12	12		12	12	12	12
School Excursions	163	18	18	18	18		18	18		18	18		18			18	18	18	18	18	18	18		18	18	15		18	18	18	18
Induced Spending from V	1157	128	128	128	128	128	128	128		128	128	128	128	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	130	130
Increased tourism & visit	424	47	47	47	47	47	47	47		47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
Increased tourism to Sun	254	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Expenditure from new ev	2173	240	240	240	240	240	241	241	241	241	241	241	241	241	242	242	242	242	242	242	242	242	243	243	243	243	243	243	243	243	244
fotal Revenues	4522	499	500	500	500	500	501	501	501	501	502	502	502	502	503	503	503	503	504	504	504	504	505	505	505	505	506	506	506	506	507
Net Present Value	239								-					-									-			-					_
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Change tem	ranbury Present Value	Cost B Discount Sunshin Oct-14	enefit / t Rate: te Coast	Assessi	ment: 1 7% al Counc	Scenari cil Yr5	o 3 (In Sensitivi	kind a ity Testi	nd Volu ns	Increase	r costs b	y 10%, di		¥13	Yr14			Yr17 0	Yr18 0	Yr19 0	Yr20 0	۲۲21 132	Yr22 0		¥r24			Yr27 0	Yr28 0	Y129 0	¥730
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Discourt Rate	Present Value \$,000 3298 2147 5485 331 140 21549 5485 341 1549 5485 341 1549 5485 341 1549 5485 341 1549 1	Cost B Discoun Sunshin Oct-14 'Y'1 3197 162 3359 	enefit J t Rate: te Coast vr2 0 162 162 25 111 16 116 43 26 218	Vr3 0 162 25 11 16 116 116 116 116 116 116 125 25 215	ment: : 7% al Counce 162 162 162 111 166 116 43 266 219	Vrr5 0 162 162 162 255 111 166 116 43 226 219	о 3 (In Sensitivi Утб 0 162 152 25 111 166 1116 43 225 219	kind a ity Testii W7 0 162 25 11 16 116 116 116 26 219	Nd Volu ************************************	Yr9 0 162 25 11 16 117 43 26 219	9 costs b 9 100 162 25 11 16 117 43 26 219	Yr11 Yr11 132 162 294 25 111 166 117 43 266 219	۲۲12 0 162 162 25 111 16 117 43 26 219		۲۲14 0 162 25 11 16 16 117 43 26 220	Yr15 0 162 25 11 16 117 43 26 220	۲۲16 0 162 25 111 16 117 43 26 220	0 162 25 11 16 117 43 26 220	0 162 25 11 17 117 43 26 220	0 162 25 11 17 117 43 26 220	0 162 25 11 17 117 43 26 220	132 162 294 25 11 17 117 43 26 220	0 162 25 111 17 117 43 26 220	0 162 25 11 17 117 43 26 221	0 162 25 11 17 117 43 26 221	0 162 25 111 17 118 43 26 221	0 162 25 11 17 118 43 26 221	0 162 25 111 17 118 43 26 221	0 162 25 11 17 118 43 26 221	0 162 162 25 11 17 118 43 26 221	0 162 25 11 17 118 43 26 221
Incount Rate  Control of the second s	Present Value 5,000 3248 2147 3445 3445 3546 3546 3546 3546 3546 3546	Cost B Discoun Sunshin Oct-14 'Y'1 3197 162 3359 	enefit J t Rate: te Coast vr2 0 162 162 25 111 16 116 43 26 218	Vr3 0 162 25 11 16 116 116 116 116 116 116 125 25 215	ment: : 7% al Counce 162 162 162 111 166 116 43 266 219	Vrr5 0 162 162 162 255 111 166 116 43 226 219	о 3 (In Sensitivi Утб 0 162 152 25 111 166 1116 43 225 219	kind a ity Testii W7 0 162 25 11 16 116 116 116 26 219	Nd Volu ************************************	Yr9 0 162 25 11 16 117 43 26 219	9 costs b 9 100 162 25 11 16 117 43 26 219	Yr11 Yr11 132 162 294 25 111 166 117 43 266 219	۲۲12 0 162 162 25 111 16 117 43 26 219		۲۲14 0 162 25 11 16 16 117 43 26 220	Yr15 0 162 25 11 16 117 43 26 220	۲۲16 0 162 25 111 16 117 43 26 220	0 162 25 11 16 117 43 26 220	0 162 25 11 17 117 43 26 220	0 162 25 11 17 117 43 26 220	0 162 25 11 17 117 43 26 220	132 162 294 25 11 17 117 43 26 220	0 162 25 111 17 117 43 26 220	0 162 25 11 17 117 43 26 221	0 162 25 11 17 117 43 26 221	0 162 25 111 17 118 43 26 221	0 162 25 11 17 118 43 26 221	0 162 25 111 17 118 43 26 221	0 162 25 11 17 118 43 26 221	0 162 162 25 11 17 118 43 26 221	0 162 25 11 17 118 43 26 221

Sunshine Coast Regional Council

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		Namb	our He	ritage '	Tramw	av Fea	sibility	Assess	ment																						
and the owner water water water		Cost B																													
Sector Sector																															
Change	ranbury																														
Containgo	THE THREE PLANE																														
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	Present Value															\$.0	000					_						_	_		_
Item	\$,000	¥71	Yr2	Yr3	Yr4	Yr5	Yr6	117	YrS	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	W16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	Yr30
Capital Costs																					_										
Capital Costs	2998	2906	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs	1952	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147
Total Costs	4950	3053	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147
Benefits																															
Tram Revenue	331	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Merchandising	140	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
School Excursions	218	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17
Induced Spending from V	1549	116	116	116	116	116	116	116	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	118	118	118	118	118	118
Increased tourism & visit	568	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
Increased tourism to Sur	341	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Expenditure from new ev	2911	218	218	218	219	219	219	219	219	219	219	219	219	219	220	220	220	220	220	220	220	220	220	221	221	221	221	221	221	221	221
Total Revenues	6058	454	454	454	455	455	455	455	456	456	456	456	457	457	457	457	457	458	458	458	458	459	459	459	459	459	460	460	460	460	461
Net Present Value	1108																														
Benefit Cost Ratio	1.22																														
																															_
Discount Rate	7%																														_
		Namb	our He	ritage '	Tramw	av Fea	sihility	Assoss	ment													_						_	_		
Charles	ranbury																														
Genange	The Control Agent																														
												_										_									
		-						-				-		-					-		-	-		-	-	-	-	_	-		_
	Present Value	-														51	000														_
Item	\$.000	¥71	Yr2	Yr3	¥14	Yr5	Yr6	Yr7	Yr8	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	¥r16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	Yr30
Capital Costs																															
Capital Costs	2998	2906	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs	1952	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147
Total Costs	4950	3053	147			147		147	147	147	147	267	147	147	147	147	147	147			147	267	147	147	147	147	147	147	147	147	147
Benefits																															_
Tram Revenue	400	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Merchandising	169	13		13			13		13	13	13	13	13	13	13	13		13	13		13	13	13	13	13	13	13	13	13	13	13
School Excursions	264	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
Induced Spending from V	1875	141	141	141			141	141	141	141	141	141	141	141	141	141	142	142	142	142	142	142	142	142	142	142	142	142	142	142	143
Increased tourism & visit	687	51	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52
Increased tourism to Sun	412		31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
	3522	264	264	264	264	265	265	265	265	265	265	265	265	266	266	265	266	266	266	266	267	267	267	267	267	267	267	267	268	268	268
Expenditure from new ev										_							553	554	554	554	555										
Expenditure from new ev Total Revenues	7330	549	550	550	550	550	551	551	551	552	552	552	552	553	553	553	553				2221	555	555	555	556	556	556	557	557	557	557
		549	550	550	550	550	551	551	551	552	552	552	552	553	553	553	553	334			333	555	333	555	556	556	556	557	557	557	557
Total Revenues	7330	549	550	550	550	550	551	551	551	552	552	552	552	553	553	553	553	334			335	333	335	555	556	556	556	557	557	557	557
Total Revenues Net Present Value	7330 2380	549	550	550	550	550	551	551	551	552	552	552	552	553	553	553	553	334			333			555	556	556	356	557	557	557	557
Total Revenues Net Present Value	7330 2380	549	550	550	550	550	551	551	551	552	552	552	552	553	553	553		334			333			555	556	556	356	557	557	557	557

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ORDINARY MI	EETING
Item 8.4.1	Nambour Heritage Tramway Project Update
Attachment 4	Nambour Tramway 2015 Feasibility Analysis

		Mambu	our Ho	itago '	Transa	ay Feas	ibility	Accoss	mont																						
						ay reas Scenari																									
And an average of the second																															
Change	randury																														
	Present Value															\$,0	00														
em	\$,000	¥71	Yr2	Yr3	Yr4	Yr5	Yr6	117	Yr8	Yr9	Yr10	Yr11	Yr12	Yr13	Yr14	Yr15	¥r16	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	Yr30
apital Costs																															
Capital Costs	2998	2906	0	0	0		0	0		0		120	0		0	0	0	0	0	0	0	120	0	0	0	0			0	0	0
Operating Costs	1952	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147
otal Costs	4950	3053	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147
enefits																															
Tram Revenue	384	29	29	29	29		29	29		29	29		29	29	29	29	29	29	29	29	29	29	29	29	29	29			29	29	29
Merchandising	154	12	12	12	12		12	12		12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
School Excursions	240	18	18	18	18		18	18		18			18	18	18	18	18	18	18	18	18	18	18	18	18	18			18	18	18
Induced Spending from V	1704	128	128	128	128	128	128	128		128	128	128	128	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	130	130
Increased tourism & visite	624	47	47	47	47	47	47	47		47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
Increased tourism to Sun	375	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28		28	28	28	28
Expenditure from new ev	3202	240	240	240	240	240	241	241	241	241	241	241	241	241	242	242	242	242	242	242	242	242	243	243	243	243	243	243	243	243	244
otal Revenues	6683	501	501	501	502	502	502	502	503	503	503	503	504	504	504	504	505	505	505	505	506	506	506	506	507	507	507	507	508	508	508
et Present Value	1733																														
enefit Cost Ratio	1.35																														
and a state of the																															
liscount Rate						ay Feas Scenari				inteer	service	25)																			
	ranbury									unteer	service	s)																			
	ranbury									inteer	service	5)																			
	ranbury									unteer	service	5)																			
Change	ranbury Present Value	Cost B Discount Sunshin Oct-14	enefit / t Rate: te Coast	Assess	ment: 10% al Coune	Scenari	io 4 (In	kind a	nd Volu							\$,0															
em	ranbury									Inteer	servico	25) γ/11	¥12	¥13	Yr14	\$,0 ¥15	00 W16	Yr17	Yr18	¥719	Yr20	Yr21	¥722	¥723	¥Y24	Yr25	Yr26	Yr27	¥728	Yr29	Yr30
em apital Costs	Present Value 5,000	Cost B Discoun Sunshin Oct-14 W1	enefit / t Rate: te Coast	Assess Regiona Yr3	10% al Count Yr4	Scenari al	io 4 (In Υrő	kind a	nd Volu	Yr9	YY10	¥711				Yr15		¥r17		¥719											¥730
em aptal Costs (2aptal Costs	Present Value 5,000 2970	Cost B Discourt Sunshin Oct-14 W1 2906	enefit / t Rate: te Coast Yr2	Assess Regiona Yr3 0	ment: 10% al Count Yr4	Scenari II Yr5	0 4 (In Υτδ 0	kind a ٣7 ٥	Yr8	Yr9	Yr10 0	Yr11 120	0	0	0	¥r15 0	¥r16 0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
em aptal Costs Coperating Costs	Present Value 5,000	Cost B Discoun Sunshin Oct-14 W1 2906 147	enefit / t Rate: te Coast Yr2 0 147	Assess Regiona Yr3 0 147	ment: 10% al Count 1774 0 147	Scenari :il 	vr6 0 147	kind a ٣7 0 147	nd Volu ۲۳8 0 147	Yr9 0 147	۲۲10 0 147	¥r11 120 147	0	0	0	Vr15 0 147	9716 0 147	0	0	0	0	120	0	0	0	0	0	0	0	0	0
em em em em capital Costs Capital Capital Costs Capital Costs Capital Capital Costs Capital Capital Costs Capital Capital Costs Capital Capital C	Present Value 5,000 2970	Cost B Discourt Sunshin Oct-14 W1 2906	enefit / t Rate: te Coast Yr2	Assess Regiona Yr3 0	ment: 10% al Count Yr4	Scenari II Yr5	0 4 (In Υτδ 0	kind a ٣7 ٥	nd Volu ۲۳8 0 147	Yr9	Yr10 0	Yr11 120	0	0	0	¥r15 0	¥r16 0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
em apital Costs Capital Costs Capital Costs Capital Costs Co	Present Value 5,000 2970 1524 4495	Cost B Discoun Sunshin Oct-14 Yr1 2906 147 3053	enefit / t Rate: le Coast Yr2 0 147 147	Vr3 0 147	10% al Count 974 0 147 147	Scenari (  Yr5 0 147 147	о 4 (In Уrб 0 147 147	kind a ٣7 0 147 147	Nd Volu Yr8 0 147 147	Yr9 0 147 147	۲۲10 0 147 147	۲۲11 120 147 267	0 147 147	0 147 147	0 147 147	۲۲15 0 147 147	9716 0 147 147	0 147 147	0 147 147	0 147 147	0 147 147	120 147 267	0 147 147								
em em em em capital Costs Capital Capital Costs Capital Costs Capital Capital Costs Capital Capital Costs Capital Capital Costs Capital Capital C	Present Value 5,000 1524 4495 299	Cost B Discoun Sunshin Oct-14 W1 2906 147	enefit / t Rate: te Coast Yr2 0 147	Assess Regiona Yr3 0 147	Ment: 10% al Count 7/74 0 147 147 29	Scenari :ii 	Vr6 0 147 147 29	W7 0 147 29	Nd Volu Yr8 0 147 29	979 0 147 147 29	۲۲10 0 147 147 29	۲۲11 120 147 267 29	0 147 147 29	0 147 147 29	0 147 147 29	Yr15 0 147 147 29	۲۲16 0 147 147 29	0 147 147 29	0 147 147 29	0 147 147 29	0 147 147 29	120 147 267 29	0 147 147 29	0	0 147 147 29	0	0 147 147 29	0 147 147 29	0	0 147 147 29	0
Change Scourt Rate	Present Value 5,000 2970 1524 4495 2999 120	Cost B Discoun Sunshin Oct-14 Yr1 2906 147 3053	enefit / t Rate: we Coast Yr2 0 147 147 29 12	Vr3 0 147	ment:         10%           10%         al Council           11         ment:           11         ment:           11         ment:           11         ment:           11         ment:           11         ment:           29         ment:	Scenari 	νη6 γη6 0 147 147 29 12	W7 0 147 29 12	Nd Volu Yr8 0 147 147 29 12	Yr9 0 147 147	۲۲10 0 147 147 29 12	۲۲11 120 147 267 29 12	0 147 147	0 147 147 29 12	0 147 147 29 12	¥r15 0 147 147	9716 0 147 147	0 147 147	0 147 147 29 12	0 147 147 29 12	0 147 147 29 12	120 147 267 29 12	0 147 147 29 12	0 147 147	0 147 147 29 12	0 147 147	0 147 147 29	0 147 147 29 12	0 147 147	0 147 147 29 12	0 147 147 29 12
en contraste contraste en en capatal coss capatal coss costanto coss costanto coss costanto cos costanto costanto cos costanto cost	Present Value 5,000 2970 1524 4495 299 120 187	Cost B Discourt Sunshin Oct-14 ''''''''''''''''''''''''''''''''''''	enefit / t Rate: se Coast Yr2 0 147 147 29 12 18	Vr3 0 147 29 12 16	YP4           0           147           12           18	Scenari 	Vr6 0 4 (In Vr6 0 147 147 29 12 18	W7 0 147 29 12 18	Nd Volu Yr8 0 147 147 29 12 15	Yr9 0 147 147 29 12 18	Yr10 0 147 29 12 18	۲۲11 120 147 29 12 18	0 147 147 29 12 18	0 147 147 29 12 18	0 147 147 29 12 18	¥r15 0 147 147 29 12 18	W16 0 147 147 29 12 18	0 147 147 29 12 18	0 147 147 29 12 18	0 147 147 29 12 18	0 147 147 29 12 18	120 147 267 29 12 18	0 147 147 29 12 18								
Change Scourt Rate	Present Value 5,000 2970 1524 4495 299 120 187 1330	Cost B Discourt Sunshin Oct-14 Yr1 2906 147 3053 299 122 18 128	enefit / t Rate: se Coast Yr2 0 147 147 29 12 18 128	Vr3 0 147 147 29 12 18 128	ment: 10% al Count 20 147 147 29 12 18 128	Scenari 	Vr6 Vr6 0 147 147 29 12 12 18 128	W7 0 147 147 29 12 18 128	Vr8 Vr8 0 147 147 29 12 15 128	Yr9 0 147 147 29 12 18 128	Yr10 0 147 147 29 12 18 128	۲۲11 120 147 267 29 12 18 128	0 147 147 29 12 18 128	0 147 147 29 12 18 129	0 147 147 29 12 18 129	Yr15 0 147 147 29 12 18 129	₩16 0 147 147 29 12 12 18 129	0 147 147 29 12 18 129	0 147 147 29 12 18 129	0 147 147 29 12 18 129	0 147 147 29 12 18 129	120 147 267 29 12 18 129	0 147 147 29 12 18 129	0 147 147 29 12 18 129	0 147 147 29 12 18 129	0 147 147 29 12 18 129	0 147 147 29 12 12 18 129	0 147 147 29 12 12 18 129	0 147 147 29 12 18 129	0 147 147 29 12 18 130	0 147 147 29 12 15 130
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Change Scourt Rate	Present Value 5,000 2970 1524 4495 120 127 1330 4475 1330	Cost B Discoun Sunshin Oct-14 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	enefit / t Rate: he Coast vr2 0 147 147 147 29 12 18 128 47 28	Vr3 Vr3 0 147 147 29 12 16 128 47 28	Yr4           0           147           147           147           147           129           12           18           128           47           28	Vrr5 0 147 147 29 122 185 128 128 128 28	Утб 0 4 (In 776 0 147 147 29 12 128 128 128 477 25	W7 0 147 29 12 128 128 47 28	Vr8 0 147 29 12 128 128 477 28	Уг9 0 147 147 29 12 12 128 128 47 28	ΥΥ10 0 147 147 29 12 18 128 128 47 28	۲۲11 120 147 267 12 12 128 128 128 128 47 25	0 147 147 29 12 18 128 47 28	0 147 147 29 12 18 129 47 28	0 147 147 29 12 18 129 47 28	Yr15 0 147 147 29 12 18 129 47 28	¥716 0 147 147 29 12 18 129 129 47 28	0 147 147 29 12 18 129 47 28	0 147 147 29 12 18 129 47 28	0 147 147 29 12 18 129 47 28	0 147 147 29 12 18 129 47 28	120 147 267 29 12 18 129 47 28	0 147 147 29 12 18 129 47 28	0 147 147 29 12 18 130 47 28	0 147 147 29 12 18 130 47 28						
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Sunshine Coast Regional Council

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ORDINARY MI	EETING
Item 8.4.1	Nambour Heritage Tramway Project Update
Attachment 4	Nambour Tramway 2015 Feasibility Analysis

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Capital Costs							_																								
Capital Costs	2957	2906	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
Operating Costs	1326	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147
lotal Costs	4284	3053	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147
Benefits																															
Tram Revenue	260	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
Merchandising	105	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
School Excursions	163	18	18	18	18	18	18	18	18	18	18		18	18	18	18	18	18	18		18	18	18		18	18	18	18	18	18	18
Induced Spending from V	1157	128	128	128	128	128	128	128	128	128	128	128	128	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	129	130	130
Increased tourism & visit	424	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
Increased tourism to Sun	254	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
Expenditure from new ev	2173	240	240	240	240	240	241	241	241	241	241	241	241	241	242	242	242	242	242	242	242	242	243	243	243	243	243	243	243	243	244
total Revenues	4536	501	501	501	502	502	502	502	503	503	503	503	504	504	504	504	505	505	505	505	506	506	506	506	507	507	507	507	508	508	508
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Benefit Cost Ratio	1.06																														
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	ing canon and												Yr12	venefits : W13	10% Yr14	5,0 ¥r15	00 \\716	¥r17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	¥r25	Yr26	Yr27	Yr28	Yr29	Yr30
apital Costs	Present Value \$,000	Cost B Discoun Sunshin Oct-14	enefit / it Rate: ne Coast	Assess Regiona	ment: : 7% al Counc Yr4	Scenari II Yr5	o 4 (In Sensitivi Yrő	kind a ty Testir Yr7	nd Volu vs	Increase Yr9	YY10	y 10%, de	Yr12	W13	Yr14	Yr15															Y730
Capital Costs	Present Value 5,000 3298	Cost B Discoun Sunshin Oct-14 W1 W1 3197	enefit / It Rate: ne Coast Yr2 0	Assess Regiona Yr3 0	ment: : 7% al Counc Yr4	Scenari II Yrs	o 4 (In Sensitivi Yr6 0	kind a ty Testic Yr7 0	vrs	Yr9 0	YY10	y 10%, de	Yr12 0	W13	Yr14 0	¥r15 0	¥716 0	0	0	0	0	132	0	0	0	0	0	0	0	0	0
Capital Costs Capital Costs Operating Costs	Present Value 5,000 3298 2147	Cost B Discoun Sunshin Oct-14 W1 3197 162	enefit / it Rate: ne Coast Yr2 0 162	Assess Regiona Yr3 0 162	ment:: 7% al Counc ₩4 0 162	Vr5 0 162	o 4 (In Sensitivi Yr6 0 162	kind at ty Testic Yr7 0 162	Nd Volu ≆ ¥r8 0 162	Yrp 0 162	e costs b ۲۳10 0 162	Yr11 132 162	Yr12 0 162	1713 0 162	Yr14 0 162	9715 0 162	9716 0 162	0	0	0	0	132 162	0	0	0	0 162	0	0	0	0	0
Operating Costs Total Costs	Present Value 5,000 3298	Cost B Discoun Sunshin Oct-14 W1 3197 162	enefit / It Rate: ne Coast Yr2 0	Assess Regiona Yr3 0	ment: : 7% al Counc Yr4	Scenari II Yrs	o 4 (In Sensitivi Yr6 0	kind al ty Testic Yr7 0	vrs	Yr9 0	YY10	Yr11 132 162	Yr12 0	W13	Yr14 0	¥r15 0	¥716 0	0	0	0	0	132	0	0	0	0 162	0	0	0	0	0
Capital Costs Capital Costs Operating Costs Intel Cost	Present Value \$,000 3298 2147 5445	Cost B Discoun Sunshin Oct-14 Wr1 3197 162 3359	enefit / t Rate: ne Coast Yr2 0 162 162	Assess Regiona Yr3 0 162 162	9% 31 Counc 97% 31 Counc 97% 97% 97% 97% 97% 97% 97% 97% 97% 97%	Yr5 0 162 162	0 4 (In Sensitivi Υr6 0 162 162	W7 0 162	NG Volu NG YI'S 0 162 162	Yr9 0 162 162	ΥΥ10 0 162	Yr11 Yr11 132 162 294	۲۲12 0 162 162	9713 0 162 162	Yr14 0 162 162	162 162	W16 0 162 162	0 162 162	0 162 162	0 162 162	0 162 162	132 162 294	0 162 162	0 162 162	0 162 162						
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apital Costs Capital Costs Operating Costs otal Costs Tram Revenue Merchandising School Excursions Induced Spending from 1 Increased tourism & visit	Present Value 5,000 3298 2147 5445 140 140 218 1549 568	Cost B Discoun Sunshin Oct-14 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	enefit / t Rate: te Coast Yr2 0 162 162 26 116 116 43	Assess Regiona 973 0 162 162 26 211 16 116 43	116 116 116 116	Vr5 0 162 162 26 116 116 43	0 4 (In Sensitivi ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) ) )	kind a ty Testic W7 0 162 162 26 11 16 116 43	۲۲8 ۲۲8 0 162 162 116 117 43	Yr9 0 162 162 26 11 16 117 43	9 costs b 9 m10 0 162 162 266 111 166 117 43	Yr11 Yr11 132 162 294 266 111 166 117 43	Yr12 0 162 162 26 111 16 117 43	۲۲13 0 162 162 26 111 16 117 43	۲۲14 0 162 162 26 111 16 117 43	Yr15 0 162 162 26 111 16 117 43	W16 0 162 162 26 11 16 117 43	0 162 162 26 11 16 117 43	0 162 26 11 17 117 43	0 162 26 11 17 117 43	0 162 162 26 11 17 117 43	132 162 294 26 11 17 117 43	0 162 26 11 17 117 43	0 162 162 26 11 17 117 43	0 162 162 26 11 17 117 43	0 162 162 26 11 17 17 118 43	0 162 162 26 11 17 118 43	0 162 162 26 11 17 118 43	0 162 162 26 11 17 118 43	0 162 162 27 11 17 118 43	0 162 162 27 11 17 118 43
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Lapital Costs Capital Costs Operating Costs Operating Costs Otal Costs Benefits Tram Revenue Merchandising School Excursions School Excursions School Excursions Induced Spending from \u03e4 Increased tourism & Visit Increased tourism & Visit Expenditure from new ev Otal Revenues	Present Value 5,000 3298 2147 5445 140 218 140 218 1549 548 3441 258	Cost B Discoun Sunshin Oct-14 W1 3197 162 3359 26 10 16 116 43 26 215	enefit / t Rate: te Coast Yr2 0 162 162 266 111 166 43 266 218	Assess Region 973 0 162 162 162 162 111 16 116 116 26 215	ment: : 7% al Counc 7% 0 162 162 162 26 111 16 116 116 116 26 219	Vr5 0 162 162 266 111 166 116 43 266 219	0 4 (In Sensitivi Υr6 0 182 162 26 111 166 116 43 265 219	kind ar ty Testion W7 0 162 26 111 16 116 116 116 116 116 116 1	VYR8 VYR8 0 162 266 111 162 117 43 266 219	Yr9 0 162 26 11 16 11 16 117 43 26 219	9 costs b 9 100 162 26 111 16 117 43 26 219	۲۲۱۱ ۲۲۱۱ ۲۲۱۱ ۲۲۱۱ ۲۲۲ ۲۲۱۱ ۲۲۲ ۲۲۲ ۲۲	۲۲12 0 162 162 26 111 162 117 43 26 219	W13 0 162 26 111 16 117 43 26 219	۲۲14 0 162 26 111 16 117 43 26 220	9715 0 162 162 266 111 166 117 43 266 220		0 162 26 111 16 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	132 162 294 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 221	0 162 26 11 17 117 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 11 17 118 43 26 221	0 162 27 11 17 118 43 26 221	0 162 162 27 11 17 118 43 26 221
Capital Costs Capital Costs Operating Costs Total Costs Benefits Tram Revenue Tram Revenue Metchandising School Excursions Induced Spending from V Increased tourism 5 wish Increased tourism 6 visit	Present Value \$,000 3298 2147 349 140 218 1549 1548 341 6076	Cost B Discoun Sunshin Oct-14 W1 3197 162 3359 26 10 16 116 43 26 215	enefit / t Rate: te Coast Yr2 0 162 162 266 111 166 43 266 218	Assess Region 9773 0 162 162 162 162 111 166 116 116 266 215	ment: : 7% al Counc 7% 0 162 162 162 26 111 16 116 116 116 26 219	Vr5 0 162 162 266 111 166 116 43 266 219	0 4 (In Sensitivi Υr6 0 182 162 26 111 166 116 43 265 219	kind ar ty Testion W7 0 162 26 111 16 116 116 116 116 116 116 1	VYR8 VYR8 0 162 266 111 162 117 43 266 219	Yr9 0 162 26 11 16 11 16 117 43 26 219	9 costs b 9 100 162 26 111 16 117 43 26 219	۲۲۱۱ ۲۲۱۱ ۲۲۱۱ ۲۲۱۱ ۲۲۲ ۲۲۱۱ ۲۲۲ ۲۲۲ ۲۲	۲۲12 0 162 162 26 111 162 117 43 26 219	W13 0 162 26 111 16 117 43 26 219	۲۲14 0 162 26 111 16 117 43 26 220	9715 0 162 162 266 111 166 117 43 266 220		0 162 26 111 16 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	132 162 294 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 221	0 162 26 11 17 117 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 11 17 118 43 26 221	0 162 27 11 17 118 43 26 221	0 162 162 27 11 17 118 43 26 221
Lapital Costs Coperating Costs Operating Costs Operating Costs Determined Costs Benefits Tram Revenue Merchandlsing School Excursions Indread Specifiq Trom in Increased tourism & Suin Expenditure from new ev Cetal Revenues Be Present Value	Present Value 5,000 3298 349 140 2187 568 341 2591 1549 6076 6076	Cost B Discoun Sunshin Oct-14 W1 3197 162 3359 26 10 16 116 43 26 215	enefit / t Rate: te Coast Yr2 0 162 162 266 111 166 43 266 218	Assess Region 9773 0 162 162 162 162 111 166 116 116 266 215	ment: : 7% al Counc 7% 0 162 162 162 26 111 16 116 116 116 26 219	Vr5 0 162 162 266 111 166 116 43 266 219	0 4 (In Sensitivi Υr6 0 182 162 26 111 166 116 43 265 219	kind ar ty Testion W7 0 162 26 111 16 116 116 116 116 116 116 1	VYR8 VYR8 0 162 266 111 162 117 43 266 219	Yr9 0 162 26 11 16 11 16 117 43 26 219	9 costs b 9 100 162 26 111 16 117 43 26 219	۲۲۱۱ ۲۲۱۱ ۲۲۱۱ ۲۲۱۱ ۲۲۲ ۲۲۱۱ ۲۲۲ ۲۲۲ ۲۲	۲۲12 0 162 162 26 111 162 117 43 26 219	W13 0 162 26 111 16 117 43 26 219	۲۲14 0 162 26 111 16 117 43 26 220	9715 0 162 162 266 111 166 117 43 266 220		0 162 26 111 16 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	132 162 294 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 221	0 162 26 11 17 117 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 11 17 118 43 26 221	0 162 27 11 17 118 43 26 221	0 162 162 27 11 17 118 43 26 221
Lapital Costs Coperating Costs Operating Costs Operating Costs Determined Costs Benefits Tram Revenue Merchandlsing School Excursions Indread Specifiq Trom in Increased tourism & Suin Expenditure from new ev Cetal Revenues Be Present Value	Present Value 5,000 3298 349 140 2187 568 341 2591 1549 6076 6076	Cost B Discoun Sunshin Oct-14 W1 3197 162 3359 26 10 16 116 43 26 215	enefit / t Rate: te Coast Yr2 0 162 162 266 111 166 43 266 218	Assess Region 9773 0 162 162 162 162 111 166 116 116 266 215	ment: : 7% al Counc 7% 0 162 162 162 26 111 16 116 116 116 26 219	Vr5 0 162 162 266 111 166 116 43 266 219	0 4 (In Sensitivi Υr6 0 182 162 26 111 166 116 43 265 219	kind ar ty Testion W7 0 162 26 111 16 116 116 116 116 116 116 1	VYR8 VYR8 0 162 266 111 162 117 43 266 219	Yr9 0 162 26 11 16 11 16 117 43 26 219	9 costs b 9 100 162 26 111 16 117 43 26 219	۲۲۱۱ ۲۲۱۱ ۲۲۱۱ ۲۲۱۱ ۲۲۲ ۲۲۱۱ ۲۲۲ ۲۲۲ ۲۲	۲۲12 0 162 162 26 111 162 117 43 26 219	W13 0 162 26 111 16 117 43 26 219	۲۲14 0 162 26 111 16 117 43 26 220	9715 0 162 162 266 111 166 117 43 266 220		0 162 26 111 16 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	132 162 294 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 220	0 162 26 11 17 117 43 26 221	0 162 26 11 17 117 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 17 118 43 26 221	0 162 26 11 11 17 118 43 26 221	0 162 27 11 17 118 43 26 221	0 162 162 27 11 17 118 43 26 221

Sunshine Coast Regional Council

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tem	5.000	¥r1	Yr2	Y73	¥74	Yr5	Yn5	¥r7	Yrs	Yr9	Yr10	Yr11	¥712	Yr13	Yr14	Yr15	W16	Yr17	Yr18	¥719	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	¥728	Yr29	Yr30
apital Costs	3,000		114	11.3	114	113	no	117	110	119	1140	11.8.8	1744	11.8.9	7124	1145	1120	1147	1120	1129	1120	112.4	1166	1123	1124	1123	1120	1147	1120	1129	11.30
Capital Costs	2998	2906	0	0	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	120	0	0	0		0	0	0	0	
Operating Costs	1952	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147
otal Costs	4950	3053	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147	267	147	147	147	147	147	147	147	147	147
enefits														211								207				-	-				
Tram Revenue	349	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	27	27
Merchandising	140	10	11	11	11	11	11	11	11	11	11			11	11	11	11	11	11		11	11	11	11	11			11	11	11	11
School Excursions	218	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	17	17	17	17	17	17	17	17	17	17	17	17	17
Induced Spending from V	1549	116	116	116	116	116	116	116	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	118	118	118	118	118	118
Increased tourism & visit	568	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
Increased tourism to Sun	341	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Expenditure from new ev	2911	218	218	218	219	219	219	219	219	219	219	219	219	219	220	220	220	220	220	220	220	220	220	221	221	221	221	221	221	221	221
otal Revenues	6076	455	456	456	456	456	457	457	457	457	457	458	458	458	458	459	459	459	459	459	460	460	460	460	461	461	461	461	462	462	462
et Present Value	1126																														
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	randury												rease be	nefits 10	)% 																
	Present Value	Sunshin Oct-14	t Rate: ne Coast	Regiona	7% Il Counc	51	Sensitivi	ty Testin	16	Increase	e costs b	y 0%, inc				\$,0															
lem	randury												Yr12	nefits 10 W13	ж Уг14	\$,0 \\15	00 1916	Yr17	Yr18	Yr19	Yr20	Yr21	Yr22	Yr23	Yr24	Yr25	Yr26	Yr27	Yr28	Yr29	Yr30
apital Costs	Present Value 5,000	Sunshin Oct-14 W1	t Rate: te Coast	Regiona Yr3	7% al Counc ¥r4	il Yr5	Sensitivi Yrō	ty Testin Yr7	Yrs	Increase Yr9	YY10	y 0%, inc	Vr12	¥13	Yr14	¥r15	¥r16														¥730
apital Costs Capital Costs	Present Value 5,000	Sunshin Oct-14 W1 2906	t Rate: te Coast	Regiona Yr3 0	7% al Counc Yr4	Yr5	Sensitivi Yr6	Yr7 0	Yr8	Yr9 O	Yr10	Y 0%, inc	Yr12 0	¥13	Yr14 0	¥r15 0	₩16 0	0	0	0	0	120	0	0	0	0	0	0	0	0	0
apital Costs Capital Costs Operating Costs	Present Value 5,000 2998 1952	Sunshin Oct-14 W1 2906 147	t Rate: e Coast Yr2 0 147	Regiona Yr3 0 147	7% sl Counc 974 0 147	Yr5 0 147	<u>۲۳6</u> 0 147	Yr7 0 147	¥r8 0 147	Yr9 0 147	e costs b ۳۲۱۵ 0 147	9 0%, inc 9711 120 147	Yr12 0 147	۲۲13 0 147	Yr14 0 147	9715 0 147	9716 0 147	0	0	0	0	120 147	0	0 147	0	0 147	0	0	0	0	0
apital Costs Capital Costs Operating Costs otal Costs	Present Value 5,000	Sunshin Oct-14 W1 2906	t Rate: te Coast	Regiona Yr3 0	7% al Counc Yr4	Yr5	Sensitivi Yr6	Yr7 0	Yr8	Yr9 O	Yr10	Y 0%, inc	Yr12 0	¥13	Yr14 0	¥r15 0	₩16 0	0	0	0	0	120	0	0	0	0 147	0	0	0	0	0
apital Costs Capital Costs Operating Costs otal Costs enefits	Present Value \$,000 2998 1952 4950	Sunshin Oct-14 Yr1 2906 147 3053	Vr2 0 147	Nr3 0 147 147	7% al Counc Yr4 0 147 147	Yr5 0 147 147	<u>۲۳۶</u> ۲۳۶ ۱47 ۱47	ty Testin ۲۲7 0 147 147	Yr8 0 147 147	Vr9 0 147 147	۲۲۱۵ ۲۲۱۵ 0 147	۷ 0%, inc ۲۲11 120 147 267	Vr12 0 147 147	W13 0 147 147	۲۲۱4 0 147 147	0 147 147	9716 0 147 147	0 147 147	0 147 147	0 147 147	0 147 147	120 147 267	0 147 147	0 147 147	0 147 147	0 147 147	0 147 147	0 147 147	0 147 147	0 147 147	0 147 147
apital Costs Capital Costs Operating Costs otal Costs enefits Tram Revenue	Present Value \$,000 2998 1952 4950 4222	Sunshin Oct-14 Yr1 2906 147 3053 32	t Rate: ee Coast Yr2 0 147 147 32	Nr3 0 147 147 32	7% al Counc Yr4 0 147 147 32	Yr5 0 147 147 32	۲۳۶ 0 147 147 32	ty Testin ۲۲۲7 0 147 147 32	¥78 0 147 147 32	Yr9 0 147 32	9 costs b 9 Yr10 147 147 32	y 0%, inc Yr11 120 147 267 32	۲۲12 0 147 147 32	W13 0 147 147 32	۲۲۱4 0 147 147 32	9715 0 147 147 32	۲۲16 0 147 147 32	0 147 147 32	0 147 147 32	0 147 147 32	0 147 147 32	120 147 267 32	0 147 147 32	0 147 147 32	0 147 147 32	0 147 147 32	0 147 147 32	0 147 147 32	0 147 147 32	0 147 147 32	0 147 147 32
apital Costs Capital Costs Operating Costs otal Costs enefits Tram Revenue Merchandising	Present Value \$,000 2998 1952 4950 422 159	Sunshin Oct-14 Yr1 2906 147 3053 32 32 13	Yr2 9 147 147 32 13	Regiona Υr3 0 147 147 32 13	7% al Counc Yr4 0 147 147 32 13	Yr5 0 147 147 32 13	۲۳۶ ۲۳۶ 0 147 147 32 13	ty Testin ۲۲۲7 0 147 147 32 13	¥78 0 147 147 32 13	Yr9 0 147 147 32 13	9 costs b 9 Yr10 147 147 32 13	у 0%, inc Уr11 120 147 267 32 13	۲۲12 0 147 147 32 13	W13 0 147 147 32 13	۲۲۱4 0 147 147 32 13	9715 0 147 147 32 13	Yr16 0 147 147 32 13	0 147 147 32 13	0 147 147 32 13	0 147 147 32 13	0 147 147 32 13	120 147 267 32 13	0 147 147 32 13	0 147 147 32 13	0 147 147 32 13	0 147 147 32 13	0 147 147 32 13	0 147 147 32 13	0 147 147 32 13	0 147 147 32 13	0 147 147 32 13
apital Costs Capital Costs Operating Costs otal Costs enefits Tram Revenue Merchandising School Excursions	Present Value 5,000 2998 1952 4950 422 199 264	Sunshin Oct-14 W1 2906 147 3053 32 13 20	Yr2 0 147 147 32 13 20	Yr3 0 147 147 32 13 20	7% al Counc % % % % % % % % % % % % % % % % % % %	Yr5 0 147 147 32 13 20	Vn6 0 147 147 32 13 20	YY77 0 1477 1477 322 13 20	Yr8 0 147 147 32 13 20	Yr9 0 147 147 32 13 20	Yr10 0 147 32 13 20	Yr11 Yr11 120 147 267 32 13 20	Vr12 0 147 147 32 13 20	¥r13 0 147 147 32 13 20	۲۲۱4 0 147 147 32 13 20	9715 0 147 147 32 13 20	Yr16 0 147 147 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20	120 147 267 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20	0 147 147 32 13 20
apital Costs Capital Costs Operating Costs stal Costs enefits Tram Revenue Merchandising School Excursions Induced Spending from V	Present Value 5,000 2998 1952 4950 422 169 264 1875	Sunshin Oct-14 W1 2906 147 3053 32 13 20 141	Yr2 0 147 147 32 13 20 141	Regiona Υr3 0 147 147 32 13 20 141	7% al Counc % % 0 147 147 32 13 20 141	Yr5 0 1477 1477 322 133 200 141	Vr6 0 147 147 32 13 20 141	YY77 0 1477 1477 322 133 200 141	Yr8 0 147 147 32 13 20 141	Yr9 0 147 147 32 13 20 141	Yr10 0 147 147 32 13 20 141	γ 0%, inc γr11 120 147 267 32 13 20 141	Vr12 0 147 147 32 13 20 141	W13 0 147 147 32 13 20 141	۲۲۱4 0 147 147 32 13 20 141	W15 0 147 147 32 13 20 141	W16 0 147 147 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 142	120 147 267 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 142	0 147 147 32 13 20 143
apital Costs Capital Costs Operating Costs otal Costs Tram Revenue Merchandising School Excursions Induced Spending from V Increased tourism & visit	Present Value \$,000 2998 1952 4950 422 169 264 (1875 687	Sunshin Oct-14 Yr1 2906 147 3053 32 33 20 141 51	Vr2 Vr2 0 147 147 32 32 20 141 52	Vr3 0 147 147 32 32 33 20 141 52	7% al Counc 147 147 32 32 33 20 141 52	Yr5 0 147 147 32 32 32 20 141 52	Vr6 0 147 147 32 13 20 141 52	۲۲ Testin ۲۲7 0 147 147 32 32 32 32 20 141 52	Yr8 0 147 147 32 13 20 141 52	Yr9 0 147 147 32 13 20 141 52	ΥΥ10 0 147 32 13 20 141 52	у 0%, inc У/11 120 147 267 32 133 20 141 52	Vr12 0 147 147 32 13 20 141 52	W13 0 147 147 32 13 20 141 52	Yr14 0 147 147 32 33 20 141 52	Yr15 0 147 147 32 13 20 141 52	۲۲16 0 147 147 32 32 33 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 142 52	120 147 267 32 13 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 142 52	0 147 147 32 13 20 143 52
apital Costs Capital Costs Operating Costs otal Costs Tram Revenue Merchandising School Excursions Induced Spending from V Increased tourism & visit Increased tourism to Sun	Present Value 5,000 2998 1952 49500 4950 4950 49500 4950 4950 4950 49500 4950	Sunshin Oct-14 'Y'1 2906 147 3053 32 13 20 1441 51 31	Yr2 0 147 147 32 13 20 141 52 31	Pr3 973 0 147 147 32 32 32 32 0 20 141 52 31	7% al Counc 147 147 147 32 13 20 141 52 31	9 9 9 9 147 147 147 147 147 147 147 147	Утб 0 147 147 32 13 20 141 52 31	۲۲ Testin ۲۲7 0 147 147 32 32 32 13 20 20 141 52 31	Yr8 0 147 147 32 13 20 141 52 31	Yr9 0 147 147 32 13 20 141 52 31	ΥΥ10 ΥΥ10 0 147 147 32 13 20 141 52 31	у 0%, inc уу11 120 147 267 32 13 20 141 52 31	۲۲12 0 147 147 32 13 20 141 52 31	۲۲13 0 147 147 32 32 32 32 20 141 52 31	۲۲۱4 0 147 147 32 13 20 141 141 52 31	Yr15 0 147 147 32 13 20 141 52 31	W16 0 147 147 32 13 20 142 52 52 31	0 147 147 32 13 20 142 52 31	0 147 147 32 13 20 142 52 31	0 147 147 32 13 20 142 52 31	0 147 147 32 13 20 142 52 31	120 147 267 32 13 20 142 52 31	0 147 147 32 13 20 142 52 31	0 147 147 32 13 20 142 52 31	0 147 147 32 13 20 142 52 31	0 147 147 32 13 20 142 52 31	0 147 147 32 13 20 142 52 31	0 147 147 32 13 20 142 52 52 31	0 147 147 32 13 20 142 52 31	0 147 147 32 13 20 142 52 31	0 147 147 32 13 20 143 52 31
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## Appendix 8: Risk Assessment

Phase	Risk Driver/Cause	Impact	Treatment Action	Residual Risk Rating
Planning	Project scoping adequacy	Project viability & and community	Comprehensive pre-feasibility phase	Low
, iaining	roject scoping adequacy	support	comprehensive pre-reasionity phase	LOW
	Forecast patronage too high	Project viability	Conservative planning assumptions	Medium
	Adequacy of scoping	Project viability	Effective stakeholder engagement. Lessons learnt from other projects	Medium
	Adequacy of capex estimates	Project viability	Engagement of experienced consultants	Medium
	Planning approvals -land impacts	Cost increases/delays	Establishment of competent, resourced Owner's team	Low
	Design of terminus stations and depot not acceptable to local businesses and neighbours	Possible cost increases and loss of functionality	Effective consultation provess	Low
Procurement	Acqusition of bespoke heritage tram	Level of market interest and pricing competition	Early engagement with likely suppliers prior to project approval	Medium
	Inadequate client management of procurement process	Increased costs/delays	Establishment of competent, resourced Owner's team	Medium
	inadequacy of specification of requirements (quality, reliability,	Inadequate performance, poor publicity, possibly extra costs/delays	Specifying proven products, designs	Low



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Phase	Risk Driver/Cause	Impact	Treatment Action	Residual Risk Rating
	maintainability)			
	Purchase of property for depot and Mill Lane terminus	Delays, potential increased costs	Confirmation on acquisition prior to project approval	Medium
	Damage/loss of tram in transit	Delays, potential increased costs	Appropriate risk allocation, insurance	Medium
Construction	Inadequacy of civil/building contractor performance (management, quality, financial, resource availability, safety )	Increased costs/delays/poor publicity	Rigorous selection process of contractor and team (experience, skills, adequate resourcing)	Medium
	Poor performamce of heritage tram supplier (time, quality)	Increased costs/delays/poor publicity	Rigorous selection process. Contractor performance oversight	Medium
	PUP impacts (planned & unplanned)	Increased costs/delays/poor publicity	Design/construction solutions to ensure fit for purpose, no surprises, effective management of impacts (traffic, property)	Medium
	Excessive wet weather	Increased costs/delays	Contingency provisions (time, cost)	Medium
	Client initiated scope creep	Increased costs/delays	Effective project controls	Medium
	Inadequacy of commissioning activities	Delays and potential increased costs	Early engagement with potential suppliers re specific requirements. Contingency provisions (time, cost)	Low
	Loss of key staff (contractor's and owner's)	Increased costs/delays	Rigorous selection process of contractor and team (experience, skills, adequate resourcing)	Medium



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Phase	Risk Driver/Cause	Impact	Treatment Action	Residual Risk Rating
Operation				
Safety	Collision with road vehicle	Personal injuries/death, damage to tram, impacts on services, poor publicity, impacts on future patronage, increase in insurance costs, loss of accreditation	Adequacy of design/signage, maintenance and public awareness campaigns. Comprehensive staff (driver) training	Medium
	Injury to passenger/staff	Personal injury/death, impacts on services, poor publicity, impacts on future patronage, increase in insurance costs, loss of accreditation	Rigorous selection process for tram operations staff. Robust Safety Management System. Adequate staff training	Medium
	Injury to pedestrian	Personal injury/death, impacts on services, poor publicity, impacts on future patronage, increase in insurance costs	Slow speed operation, staff training, community awareness, signage, warning horns	Medium
Service reliability	Inadequate operating establishment	Impacts on services, poor publicity, impact on future patronage, potential safety risks	Thorough assessment of operational needs and ongoing reviews	Low
	Inadequate staff /volunteer training	Poor skills adversely impacting on safety and reliability	Effective training and management operations staff and (volunteers)	Low
	Sustainability of utilising volunteers	Inability to provide services. Poor safety performance and reliability	Adequate bench strength of volunteeers. Training of volunteers	Medium
	Inadequate maintenance practices	Impacts on services, poor publicity, impact on future patronage, potential safety risks, loss of accreditation	Appropriate vendor selection. Quality control and testing, vendor support, Operating & Mtce Manuals, training of maintainer/s, regular track/equipment inspections in conformane with Safety Management Plan	Low



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Feasibility Assessment of Nambour Heritage Tramway

Phase	Risk Driver/Cause	Impact	Treatment Action	Residual Risk Rating
	Vandalism damage	Cost to repair, Poor publicity, impact on future patronage	Provision of appropriate security at depot	Low
Commercial				
	Patronage less than planned, tram loses its novelty value	Poor publicity, impact on who is taking patronage/farebox risk	Robust business case. Conservative assessment of costs/benefits	High
	Sustainability of operating subsidy	SCRC withdraws its financial support		High



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## Appendix 9: Funding Options

There are several forms of funding mechanisms associated with contributions that can assist in funding infrastructure, services and facilities. In no particular order of priority, contributions for infrastructure (and other services and facilities) can be broadly described in terms of:

- Rates and taxes;
- Other charges and levies;
- Grants;
- User pays;
- Impact mitigation payments;
- Betterment capture;
- Inclusionary provisions;
- Linkage fees and voluntary payment agreements;
- Private contributions.

Each of these systems have different intents and purposes, which are important to understand as the application of the systems can have different implications regarding fairness and equity in different circumstances, as well as cost recovery associated with infrastructure provision. The systems noted above are described briefly below.

Assuming that the Nambour Tramway will bring most benefits for the community of Nambour, the most appropriate funding avenues for the operation would be through other charges and levies, grants or through private contributions and donations. Rates could also potentially be used if Councillors felt there was significant external benefits to residents throughout the Sunshine Coast. As such, these elements are discussed below.

## Rates and Taxes

# Where significant external benefits to a community are present due to the provision of infrastructure or services, rates and taxes are appropriate.

Rates and taxes are levied by government on commercial, industrial and residential properties. They are used to provide essential or desired infrastructure that are considered necessary for the effective functioning of society.

Local governments can impose rates in a general or differential manner across the LGA and/or in a specified area rate. Within land uses, general



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rates are applied uniformly across the Council but differential rates must be levied based upon the characteristics of the land. General rates can be used to fund any infrastructure service or facility. Specified area rates can be imposed upon land within a portion of the City for the purpose of meeting the cost of a specific work, service or facility but there needs to be a clear

to be provided to residents or ratepayers within that area.

It is important to note that while general rates are applied uniformly within land uses, they can differ markedly between land uses.

nexus between the areas subject to the specified area rate, and the benefits

.

## Other Charges (including 'pay as you go' charges)

#### Where there is a clear and transparent strategic rationale for collecting charges and levies from users of infrastructure, then the levying of 'other charges' is applicable.

Other charges such as those collected by the issuing of licenses and permits, plus user charges (pay as you go) applied for parking, airports, community services, libraries, recreation centres, and other community facilities are considered a 'user charge'. However, the collection of most of these is often on the end user on a 'pay as you go' basis, as opposed to the developer in an up-front manner (see user charges in next section). Moreover, the spending of the money raised by these measures is not always on the infrastructure networks from which they were collected. In some jurisdictions, revenue raised from these types of charges has been considerable. For example, in 2010-11, the City of Perth raised over \$56.5m from car parking charges, and the Shire of Roebourne earned \$23m in 2011 from transport charges, predominantly consisting of fees for the use of Karatha Airport, which saw considerable passenger flows of during the year (over 800,000).

Other levies, such as visitor levies can also be charged (described more broadly as taxes). Overseas examples of visitor levies (also known as a 'tourism tax' or 'bed tax' where a tax is collected either as a flat rate or a percentage of the cost of accommodation for every night a visitor stays) have also been used to fund infrastructure. For example, the Upper Engadin Region in Switzerland levies a tourism tax to contribute towards the cost of public transport services. During the winter a tax of 0.25 euros is added to

<sup>7</sup> City of Perth Annual Report, 2010-11. It is noted that the City of Perth is the third largest car park operator in Australia, operating approximately 15,000 bays, and that this is not comparable to Upper Hunter subregion.



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the nightly tariff per person in hotels and 0.16 euros during the summer months and the owners of holiday apartments are charged a flat fee of 55 euros per year as a tourism tax. The revenue generated covers approximately 28% of the cost of public transport services in the region8. These levies have also been used in Australia. For example, the New South Wales government introduced a Sydney Bed Tax of 10% Sydney Central Business District and North Sydney hotels from 1998 to 2000 to assist in funding the Olympics Games.

Pay as you go charges would be necessary on the Nambour Heritage Tramway, and a parking charge could be instigated for strategic projects (a part of which could be directed towards an operation such as a Tramway).

#### Grants

Where an entity meets eligibility criteria, the use of grants is appropriate. If grants are used in items earmarked for cost recovery by other means (e.g. by user charges), the costs apportioned in the other means should be discounted by the grant or subsidy. Often they are provided by State and Federal Government and are for capital elements and/or 'events'. Local Governments also often have grants on offer for bona fide community services and events.

A review of grants currently on offer suggests that there are few that directly 'fit' the Nambour Heritage Tramway. Nonetheless, Heritage Grants are often on offer and the Nambour Tramways Group would be well served to monitor the grants overtime.

In addition to Federal and State Grants, advice from the Sunshine Coast Regional Council has indicated that the Tramways Group could apply for Council's Special Events Grant for assistance with a component of the costs.

## Philanthropic Interests / Crowd funding

Often projects that have such a large level of community support, as the Nambour Heritage Tramway seems to have, can attract substantial funds from philanthropic interests. A recent phenomenom has seen the rise in the practice called crowd funding. Crowdfunding is the practice of funding a project or venture by raising monetary contributions from a large number of people, typically via the Internet, but not necessarily so. There are many

8 MRCagney, unpublished information, 2011 2014\_1090 (012) Final Report (29 oct).docx n 0/

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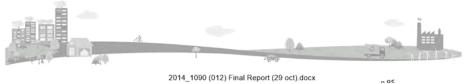
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types of crowd funding. Two general types are reward-based crowd funding and equity-based crowd funding. As suggested by their titles, a rewardbased crowd funding rewards donators in ways that relate to the project they are donating to (in Nambour Tramway's case it could be through 'driving a tram for a day' or 'riding for free 2 times a year'), and equity based crowd funding provides a level of equity in a business. Given that the venture will not be commercially viable, a reward based crowd funding arrangement would be suitable.

## Grants and subsidies

There is a range of Federal and State grants available to assist in developing community projects. A review of the grants and subsidies, however, suggest that the most current grants and subsidies are for specific events. It is often the case that heritage projects can be provided grants where they are serving a wide community benefit and/or are associated with renewal projects.



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## References

Bundaberg Sugar Letter regarding potential costs

Confidential Council correspondence regarding acquisition costs

Correspondence with Alan Keef

Personal communication: Nambour Tramway Group, Nambour Alliance, Divisional Councillor, Community Members (via community survey), Department of Transport, and Main Roads, Sunshine Coast Regional Council (transport officers, social and community devlopment officers, economic development officers)

Severn Lamb Product Information

South East Queensland Regional Plan 2009–2031 (SEQ Regional Plan)

Sunshine Coast Planning Scheme 2014.

Sunshine Coast Regional Council, Council resolution (OM14/1)

Sunshine Coast Regional Council, Nambour Heritage Tram Discussion Papers 1 and 2

Sunshine Coast Regional Council, Nambour Heritage Tram Issues Paper



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The Nambour Heritage Tramway Project: Business Case update (Dec. 2016)

## Overview:

Stage one of the Nambour Heritage Tramway Project, and the primary concern of this Business Case Update, is designed to re-activate the existing heritage listed tram line that was initially established (1897) to transport sugar cane through the centre of Nambour to the Moreton Central Sugar Mill. The Tram will journey from the Western Terminus at 28 Mill St Nambour down Howard Street and return, a round trip distance of approximately 2km. The project is a key component of the Nambour Activation Plan.

Stage Two (at some future date) would see the Tramway extended from Howard St to the Nambour Showgrounds via the Nambour State College Farm.

Stage Three would see the Tramway link with the proposed Nambour-Coolum Trail.

The project scope includes the purchase of a battery powered, solar generated, two foot gauge heritage style tram, along with the provision of depot and terminus facilities at 28 Mill St Nambour, and intersection and signal upgrades as necessary.

At the Ordinary Meeting of Council on 23 April 2015 Council resolved (OM15/52) to support the Nambour Heritage Tramway project via a joint funding and partnership arrangement with the Nambour Heritage Tramway Group (now the Nambour Tramway Company). Council will provide \$1.5 million over three years to progress the project. Council funds were contingent on raising \$600k in funds from the community, local businesses, and other sources of grant funding. TNT Co has met this fundraising requirement, with the assistance of the Nambour Alliance, through the granting of a National Stronger Regions Grant (\$500,000.00) for the building of the Western Terminus and over \$100,000.00 funds raised through various community based efforts (Tramfest, grants & donations).

The Nambour Tramway Company (TNT Co) is to act as Rail Infrastructure Manager and Rail Transport Operator, and are in the process of obtaining appropriate accreditations to satisfy the requirements of relevant Queensland legislation.

The governance and delivery model for the tramway scheme has been formalised in the Heads of Agreement.

The Feasibility Analysis that was presented to Council in April 2015 identified a range of social and economic benefits from the venture, including:

- the potential to assist in strengthening the identity and uniqueness of Nambour, leading to improved community pride, visitation and expenditure in the town.
- connect with and become part of the broader fabric of tourism attractions of the Sunshine Coast hinterland.
- · commuter light rail link between two new supermarket precincts and

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 the potential to connect, in future, to the Nambour State School Agricultural Faculty and Nambour Showgrounds precinct, and to Council's proposed Nambour – Coolum walking trail.

The Nambour Tram project also offers significant strategic value:

- A long term vision beyond current plans.
- Value for the region, as well as to Nambour.
- Attract visitors to Nambour.
- Nambour gets to tell it's story
- Linkages to Nambour's Historical Precinct and the recent past.
- A key element of Nambour Activation Plan.
- Businesses will leverage off a key tourist attraction.
- Presents opportunities to Nambour.

## The Plan

We have borrowed heavily from the Feasibility Analysis of the Nambour Heritage Tramway (R0300001) by C Change: October 2014.

TNT Co have adopted a financial model based on the following:

- One Tram operating on a six day service, 8.00am to 6.00pm with an 'each way trip' interval of 30 minutes with a capacity to carry 28 passengers. Running times, days of operation and the type of service will be refined as the service matures.
- The advice and guidance of other Heritage and Tourist Rail operators has been sought and has been utilised when crafting this plan.

Assumptions are:

- Reduced land acquisition costs through a community lease
- Volunteer labour for ongoing operations and maintenance. Maintenance will
  include building maintenance as well as the Tram maintenance. Both tram &
  building are new and volunteers and working-bees will minimise this expense.
   We planned for an 'all volunteer' labour force for the start of operations. This
  is not unusual in the early days of heritage/tourist railways.
- We expect to have a manager/safety officer paid at 1/2 FTE.
- Gold coin ride (\$2 adults, \$1 school students, children, concession & seniors)
- Assumed 30% utilisation. Other heritage/tourist railways we have contacted have quoted between 65-85% utilisation. They have been operating for some time but their "bums on seats" numbers have remained remarkably steady. We decided on a 'worst case' number so halved their low number.

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- Sale of annual passes, additional merchandise and sponsorship arrangements will add significantly to revenue.
- Other funds will be raised via:
  - Corporate sponsorship:

We have to date received \$28,180 from corporate donation and have strong indications from the business community that they see great benefits in being involved, long term, with the project. There are many opportunities for business to leverage off the presence of the Tram through Nambour and to interlink their particular customer base with its operation. We would expect sponsorship to increase as the project gains more traction and the public can see some on ground progress.

Community Funding:

The current two streams of community funding come from the highly successful Tramfest which has raised, to date – 30/12/2016, \$60,058.12 and community coin donation which has raised \$10,050.10. Considering that the funding effort has only been underway for 12 months we believe it shows a strong level of support and community buy-in.

Grant applications:
 We have secured \$500,000.00 from the National Stronger Regions
 Fund. We have also received \$35,000 from the Gaming Fund for design and engineering work on the Tram.
 Our application for \$300,000.00 from a State Tourism Infrastructure
 Grant has been upgraded and re-submitted. There are a number of additional opportunities for grant funding that have been identified.

Donations:

TNT Co has Deductible Gift Recipient status. We expect this area to be developed substantially.

Crowd Funding:

This trigger will be pulled to coincide with a major 'Tramway' milestone and will source further financial assistance from a national and international community. Crowd funding will be used as a marketing tool as well as a fundraising tool.

 Lottery/Art Union: To be explored.

As is the nature of any Business Plan, a certain amount of flexibility and fluidity has been accommodated and provided for. This Plan is expected to develop and evolve, it is not a rigid structure. Opportunities, differing needs, and the unforeseen, will require a high degree of flexibility in effort, energies and management in response.

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The capacity to implement this plan and to respond and evolve is well within the makeup of TNT Co board which has a mix of professional experience and expertise.



It's been done before (circa 1928), we can do it again!

Capacity to implement: Key personnel and experience

#### **Paul Moriarty**

## Director, Nambour Tramway Company

Paul Moriarty is a recently retired professional consultant. Prior to his retirement he ran a management and marketing consultancy for more than 20 years, assisting clients in the public, private and not-for-profit sectors across Australia and South East Asia.

Paul has extensive experience devising and delivering management strategies, Marketing plans, Quality Assurance programs, and staff recruitment and training programs. Additionally, Paul has delivered dozens of successful media launches and advertising campaigns. He also has significant international business experience, especially in Singapore and Hong Kong.

Paul has also worked with volunteers across various endeavours over the past decade. The most notable of these involved recruiting, training and managing 85 volunteers for a community information centre. Paul has completed training courses in recruiting, managing, training and retaining volunteers through Volunteering Queensland.

Paul holds a Bachelor of Management from Sydney University and in 2001 was awarded a Centenary Medal for his services to international relations.

## Peter Clark

Director, Nambour Tramway Company

Peter Clark is a registered commercial and residential builder with 35 years' experience as a qualified tradesman. Peter is also a business owner, manager and board member.

As a builder, Peter has undertaken dozens of commercial and residential projects throughout the Nambour region, with a particular passion for construction and

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renovation projects that increase the amenity and appeal of Nambour's central business district.

Until recently, Peter and his wife owned a retail business in Nambour's main street, which they established in 1987 and sold in January 2016.

Peter has lived and worked in Nambour for more than 50 years. He is a recognised community leader, having served the Nambour community for decades through the Chamber of Commerce, Scouts, Rotaract, Jaycees, Rotary, Nambour Futures, Nambour Festivals Inc. and Nambour Alliance.

During his time volunteering for Nambour's community organisations, Peter has spearheaded (or been a key contributor) to some significant projects including:

- The redevelopment and ongoing operation of the Rotary Food Stall (at the Sunshine Coast Showgrounds, Nambour;
- The construction of the Centenary of Federation Clock Tower and Fountain in Nambour's main street, for which Peter also donated his labour; and
- In the early 2000s during his time as President of the Nambour Rotary Club, Peter secured land for, and then helped to oversee the construction of, the Hear and Say Centre Sunshine Coast (Nambour). This is now a vital piece of infrastructure for the Sunshine Coast's deaf community.

Peter is a Director of Sundale, a not-for-profit aged care provider headquartered in Nambour that has 12 facilities, 525 staff and an annual turnover of more than \$47 million. Peter was previously a voluntary Board Member of Nambour Alliance from 2008-2016.

Peter is a member of the Australian Institute of Company Directors (AICD).

#### Kristen Beckhaus

Director, Nambour Tramway Company

Kristen Beckhaus is a qualified solicitor and the Director at Beckhaus Legal.

Kristen was admitted to practice law in 2004 and has worked in both the public and private sectors. She commenced her legal career with the Office of the Director of Public Prosecutions in Beenleigh, Queensland as a law clerk and then a prosecutor.

In 2006 Kristen joined H Drakos & Company in Brisbane and had carriage of numerous different matters including civil and commercial litigation, criminal matters and estates.

Before practising law, Kristen worked in marketing roles in the IT sector in Australia and abroad.

Kristen's professional qualifications include:

- Admitted as a Solicitor of the Supreme Court of Queensland
- Admitted as a Solicitor of the Supreme Court of NSW

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- Admitted as a Solicitor in the High Court of Australia
- College of Law Course
- Bachelor of Laws from the University of NSW
- Bachelor of Commerce from the University of NSW.

Outside of the office, Kristen enjoys running, swimming, going to the horse races and spending time with family and friends. She is a member of the Sunshine Coast Law Association, Queensland Gallery of Modern Art, Gympie Turf Club, Lazy Runner Club, Brisbane Royal Show and the Royal Agricultural Society of NSW.

#### Ron King

#### **Director, Nambour Tramway Company**

Ron King is an IT professional and business owner, who has established and run two successful businesses and managed and delivered large projects in Australia and Europe.

Ron is the owner of Wilenco Pty Ltd, a respected equipment supplier and service provider within the digital printing industry in Australia. He founded Wilenco in 1984, in anticipation of the IT developments that were poised to revolutionise the signage and graphics industries worldwide.

In the late 1980s Ron formed an association with several key industry suppliers to develop and promote Sign Shows in Australia. While Ron is no longer involved directly, this has developed and grown to become Visual Impact Sign & Digital Print Exhibitions, hosting several major trade exhibitions annually.

In 2002 Ron was asked by Remark International BV to assess their IT systems. After undertaking a three week assessment at their head office in Amsterdam, The Netherlands, Ron was contracted to complete a €2 million project to develop new software, install new IT hardware and manage their IT requirements globally. The project and ongoing support were managed successfully, with Ron's involvement with Remark continuing until 2009. The software and systems developed are still in use.

Prior to establishing Wilenco, Ron founded Sewplus in 1978, an importing and Distribution Company providing supplies to the craft and home sewing industry in Australia. Sewplus sourced products globally and distributed nationally to retailers, department stores and manufacturers. Ron sold Sewplus in 1995 to concentrate on Wilenco.

Ron relocated from Sydney to the Sunshine Coast in 2001. He has strong local, roots with both family and his business located in the region.

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## Rhonda Billett-Haire Board Member, Nambour Tramway Company

Rhonda Billett-Haire is a Sunshine Coast Business Owner of Uptown Hair Studio and Ocean Nomad Australia. Rhonda has been self-employed for some 20 or more years and prides herself on being an active member of the local Sunshine Coast community. Rhonda is Trade qualified and has expertise in Marketing and Social Media engagement.

Rhonda is a savvy business leader, and has held roles on various boards such as Nambour Alliance, Sunshine Coast Business Awards and Nambour Tram Way. Her business professionalism was acknowledged with her business being inducted into the Sunshine Coast business Awards Hall of Fame after winning 3 awards for her commitment to business profitability and success in the region. Rhonda has also been awarded with the Young Business Leader of the Year Award back in 2005. Rhonda's leadership and ability to train others is evident with her business involved with the Queensland Training Awards, leading the youth into positive employment outcomes.

Rhonda is a very connected professional, always with an open ear in the great community for the prosperity and future of the Sunshine Coast.

#### Key Advisory Personnel

#### Phil Barker

#### Director, Rail Safety Consulting Australia

Phil Barker has worked in the rail industry for over 35 years and has wide-ranging experience in the assessment and implementation of railway operations safety management systems and operating practices. His areas of specialisation include occurrence investigation and Exceeded Limit of Authority (SPAD) management.

Previous roles held include:

- Chief Accident Investigator, Saudi Railways Commission;
- Director, Rail Safety Regulation, Queensland Department of Transport;
- · General Manager Safety Rail, Adani Mining;
- Rail Business Manager and Principal Consultant, Halcrow Ltd;
- Senior Rail Accident Investigator, Australian Transport Safety Bureau,
- Train Crewing Manager, Queensland Rail; and
- Safeworking Superintendent at Queensland Rail, a role which he held for 25 years.

This experience is supported by formal qualifications including a Master's Degree in Rail Operations Management (with Distinction) from Central Queensland University,

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an Advanced Diploma in OH&S Management, a Diploma of Transport Safety Investigation, a Diploma of Government (Investigation), an ATSB Human Factors in Transport Investigations Certificate, and a Certificate IV Total Quality Management. Phillip also holds a current Licence to Perform High Risk Work in Stream Boiler and Reciprocating Steam Engine.

Phillip has published a number of rail operations safety related articles in various industry journals and has received the Queensland Rail CEO's Certificate of Commendation for innovation.

Phil is a Fellow of the Institution of Railway Operators, Fellow of the Chartered Professional Member Safety Institute Australia and a Registered Safety Practitioner, Australia. He is also a Certified Generalist OHS Practitioner, and an Associate Fellow of the Australian Institute of Management (AIM).

Trevor Smith Dip Arch (QUT) PHF Greenway Architects

Rod Wilkins BSc (Hons) Quantity Surveyor/Cost Planner/Estimator/Project Manager

Christine Perren CPA SDE Accountants

Rilla Kerr Administration

#### Friends of the Tram: Volunteer Skills Audit

TNT Co has 23 registered volunteers on its books with specific skills in the areas of:

Architect, Art, Catering, Electronics, Engineering, Graphic Design, Guide, Heritage,

Marketing, Mechanic, Murals, Music, PR, Rail Operations (light), Rail Safety,

Safety (Workplace), Woodwork.

TNT Co also has 40 registered volunteers on its books with "anything we can do to help" skills.

#### In conclusion

This 5 year journey has continued to attract local, national and international interest. It has the unwavering support of a group of volunteers who can see the long-term benefits of this, big picture project for Nambour and the whole region. They carry

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with them the attitude of 'whatever it takes' to see all three stages of the project reach fruition.

Our position remains unchanged from our initial presentation to Council, that -

- The business model we support is based on the predominant use of volunteers for the day to day operation of the Tramway, our Visitor Information Centre and building and vehicle maintenance.
- Donations of material and labour should be a factor in the construction of the Terminus building.
- By allowing those who wish to be part the construction process, we bring the whole community along for the journey and build strong community ownership.
- That the property situated at 28 Mill Street was one that council suggested, and offered us as the best site, we agree.
- The use of 28 Mill Street relieves the need for land acquisitions beside the Mill Cottage on the corner of Mill Street and Mill Lane and the Eastern, Aldi end to house and maintain the vehicle.
- This property has, since the early 70's, been a community use as a day care facility, it was originally built by the community as the first child care facility on the Sunshine Coast.
- We believe a community lease on this land is a fair and reasonable request, given that the substantial financial and physical input by the community will sit on council owned land and remain a council asset.

We ask that your deliberations give the whole project the dignity it deserves, the position it seeks and the best possible long term future.

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	THE NAMBOUR TRAMWAY COMPANY LTD SUMMARY OF SCENARIO								
Scenario relates to the followi	ng:								
Location of Terminus	28 Mill St Nambour								
Built by TNTCo Lease of land from council	Cost \$799,982 Community Rate								

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#### THE NAMBOUR TRAMWAY COMPANY LTD PROJECTED CASHFLOW STATEMENT NAMBOUR HERITAGE TRAMWAY PROJECT

OPERATING FUND												
	NOTE	Yr1 \$	Yr2\$	Yr3 \$	Yr4 \$	Yr5 \$	Yr6 \$	Yr7\$	Yr8 \$	Yr9 \$	Yr10 \$	Yr11 \$
pening Balance of Operating Fund		99,401	122,938	142,498	162,965	185,170	206,841	229,457	253,898	276,855	300,275	326,60
evenues	1 1											
Daily Ticketing	1 1	32,506	32,506	32,506	33,676	33,676	33,676	34,879	34,879	34,879	36,127	36,12
Annual passes	1 1	30,000	30,000	30,000	30,900	30,900	30,900	31,850	31,850	31,850	32,805	32,80
Merchandising/Shopper Dockets	1 1	5,500	8,000	8,500	8,500	8,500	10,000	10,000	10,000	10,000	10,000	10,0
Advertising/Sponsorship	1 1	28,500	28,500	28,500	29,400	29,400	29,400	30,280	30,280	30,280	31,200	31,2
Tramfest	1 1	25,000	25,000	25,000	25,900	25,900	25,900	26,825	26,825	26,825	27,785	27,7
Interest Income	5	2,982	3,688	4,275	4,889	5,555	6,205	6,884	7,617	8,306	9,008	9,7
otal Revenues	10	124,488	127,694	128,781	133,265	133,931	136,081	140,717	141,451	142,139	146,925	147,7
perating Costs												
Labour	1 1	45,000	45,000	45,000	46,350	46,350	46,350	47,740	47,740	47,740	49,175	49,1
Utilities	1 1	4,000	4,000	4,000	4,120	40,000	4,120	4,244	4,244	4,244	4,370	4,3
Rail Accreditation	1 1	4,000	-4,000		-4,120	-				-	-4,570	-4,5
Security	1 1	2,700	2,700	2,700	2,781	2,781	2,781	2,865	2,865	2,865	2,950	2,9
Promotions	1 1	20,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	10,000	10,000	10.0
Maintenance	1 1	4,000	5,000	5,000	6,000	6,000	6,000	8,000	9,000	7,000	7,000	20,0
Insurance	1 1	4,000	4,120	4,235	4,362	4,492	4,627	4,765	4,908	5,055	5,206	5,30
Lease of Terminus Land		250	254	258	261	265	269	273	277	282	286	29
Workcover Insurance	1 1	2,000	2,060	2,122	2,185	2,251	2,319	2,388	2,460	2,534	2,610	2,68
Sundries	1 1	4,000	2,000	2,000	2,000	2,000	3,000	2,000	2,000	2,000	2,010	5,00
otal Operating Costs	<sub>9</sub>	85,950	73,134	73,314	76,060	76,259	77,466	80,275	81,494	81,719	83,596	99,83
		,				, ,,	,	,	,		,	
et Annual Surplus		38,538	54,560	55,466	57,205	57,672	58,615	60,442	59,956	60,420	63,329	47,88
Initial setup costs	1 1	15,000										
Less transfer to Sinking Fund		-	10,000	10,000	10,000	11,000	11,000	11,000	12,000	12,000	12,000	14,00
Less transfer to Future Fund		-	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,00
losing Balance of Operating Fund		122,938	142,498	162,965	185,170	206,841	229,457	253,898	276,855	300,275	326,603	335,41

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SINKING FUND												
	NOTE	Yr1 \$	Yr2 \$	Yr3 \$	Yr4 \$	Yr5 \$	Yr6\$	Yr7 \$	Yr8 \$	Yr9 \$	Yr10 \$	Yr11 \$
Ppening Balance of Sinking Fund				10,000	20,300	30,909	42,836	55,121	67,775	81,808	96,262	111,150
Transfer from Operating Fund Council Funding		- 1,500,000	10,000	10,000	10,000	11,000	11,000	11,000	12,000	12,000	12,000	14,000
Initial Funding	6	601,704	-	-				-				-
Interest Income	5	-	-	300	609	927	1,285	1,654	2,033	2,454	2,888	3,335
Total Inflows		2,101,704	10,000	10,300	10,609	11,927	12,285	12,654	14,033	14,454	14,888	17,335
Capital Costs	8	2,101,704	-	-	-	-		-	-	-	-	-
Tram Overhauls	3	-	-	-	-	-	-	-	-	-	-	98,285
Building Overhauls	3		-	-	-	-		-	-	-	-	33,598
Total Outflows		2,101,704						-				131,883
	1 [											
losing Balance of Sinking Fund	1 1		10,000	20,300	30,909	42,836	55,121	67,775	81,808	96,262	111,150	(3,398

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#### ORDINARY MEETING Item 8.4.1 Nambour Heritage Tramway Project Update Attachment 5 Nambour Tramway 2017 TNTCo Business Case

#### THE NAMBOUR TRAMWAY COMPANY LTD PROJECTED CASHFLOW STATEMENT (SCENARIO 3) NAMBOUR HERITAGE TRAMWAY PROJECT

FUTURE FUND												
	NOTE	Yr1 \$	Yr2 \$	Yr3 \$	Yr4 \$	Yr5 \$	Yr6 \$	Yr7 \$	Yr8 \$	Yr9 \$	Yr10 \$	Yr11 \$
pening Balance of Future Fund				25,000	50,750	77,273	104,591	132,728	161,710	191,562	222,308	253,978
Transfer from Operating Fund		-	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000
Interest Income	5	-	-	750	1,523	2,318	3,138	3,982	4,851	5,747	6,669	7,619
Total Inflows		-	25,000	25,750	26,523	27,318	28,138	28,982	29,851	30,747	31,669	32,619
Total Outflows	4											
losing Balance of Future Fund			25,000	50,750	77,273	104,591	132,728	161,710	191,562	222,308	253,978	286,597

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			OUR TRAMWA			
			NOTE 1 - STRU	CTURE		
	- The Nambour Heritage T - The Company is registere				pany limited by g	uarantee.
		NOTE 2 -	GST AND PAYO	WITHHOLDI	NG	
	- We have assumed for sin	plicity that any	commitments	will be paid m	onthly when incu	urred.
		NOTE 3 -	SINKING FUND	EXPENDITU	RE	
sumptions	Operated by The Namboi Operating hours factoree Two persons operating tr Klosk at Western Termin Low maintenance vehicle Low infrastructure maint Vehicle has an overhaul e Revenue amounts and in	l around a workt am at all times us manned by vo enance (track, b every 10 years in	force of 0.5 FTE olunteers uildings, depot cluding a full re	s) eplacement of		nway Company Ltd
	Item	Unit	Quantity	Rate	Annual Cost	Comment
	Current quote for periodi	c overhauls (inc	luded in capita	costs)		£36,750 (future exch 1.99
	Tram	Overhaul every	10 years		73,133	assumed)
	Buildings - repaint etc.	Every 10 years			25,000	
	Future Cost of Periodic Ov					
	Tram				98,285	
	Buildings - repaint etc.				33,598	
		NOTE 4 -	FUTURE FUND	EXPENDITUR	₹E	
	Future Fund is to be used for the on street beautification of the North American Street Parameters for the North American Street Parameters (Street Parameters) (Stree	ion of Howard Si Iambour Show G		IT EARNINGS		
	Assumed rate of interest of	n investment ea	irnings		3%	
		NO	re 6 - Funding	SOURCES		
	Initial Funding Sources:					
	- Corporate sponsorship - Community funding					
	Grant applications     Council and non-council 4     Philanthropic donations     For the purpose of this cas     not been dissected.     Various funding scenarios     modelling has not been in	hflow statemen have been mode	elled by The Na	mbour Tramv		-
	<ul> <li>Council and non-council e</li> <li>Philanthropic donations</li> <li>For the purpose of this case</li> <li>not been dissected.</li> <li>Various funding scenarios</li> </ul>	hflow statemen have been mode cluded as part of	elled by The Na	mbour Tramv statement.	vay Company Ltd	-
	Council and non-council of Philanthropic donations For the purpose of this cas not been dissected. Various funding scenarios modelling has not been inc	hflow statemen have been mode cluded as part of	elled by The Na f this cashflow :	mbour Tramv statement.	vay Company Ltd	-
	<ul> <li>Council and non-council e</li> <li>Philanthropic donations</li> <li>For the purpose of this case</li> <li>not been dissected.</li> <li>Various funding scenarios</li> </ul>	hflow statemen have been mode cluded as part of	elled by The Na f this cashflow :	mbour Tramv statement.	vay Company Ltd	-

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			NOTE 8 - CAPIT	MWAY COMPA	AS							
				E TRAMWAY P								
Features												
Route length	1 km											
Terminus stations	Single side pla	tform (15 metres	s long), awning	weather cover,	lighting, signage							
					shop, with staff amenities							
intermediate stops Depot	Assume off ro	ed pevement onl	y. Need signage	t and pavement	manungs only							
pepot Track standard	includes work:	shop, office, crew	w emerities		(m)							
Tumouts	Use pw reliend turnouts (20 or 31kg/m reli on new concrete ties) Assume 35 kg/m reli (5 in 7 or 5) and 2nd hand manual operated points are available											
Vehicle	finale vehicle	Mini and a second	Opuble ended	division stations	, bettery powered							
Mex speed	11.405	fare un Pachel		on the state of a	, each y port of a							
	11											
				Base Scheme								
item	Unit	Quantity	Rate	Amount	Comment							
Property acquisition												
28 Mill Street (terminus site) Lease												
costs	item			5,000	Lease costs							
			Sub Totel	\$,000								
Heritage Tram		-										
				455.720	Severn Lamb budget quote full tram £298,000 @ exchance rate 1.64							
Supply	item			455,720								
Installation, Commissioning and Training	item			22,632	Severn Lamb budget quote £13,500 @ exchange re 1.64							
	- HERD			22,032	Severn Lamb budget quote - Herefordshire to Nam							
Trensport	Item			15,500	EStern Lane bouget quote " Herefordshire to Nam £3,500 @ exchange rate 1.64							
Procurement support for tram	118111	-		10,000	Participation of any state state							
equisition	1			20.172								
Contingency on trem ecouisition		-	2%	26,224	Includes scope/price contingency and ERV							
and a second second			Sub Total	\$73,328								
Treck												
New embedded track (in roadway,												
terminus platforms and in depat	1				Assumes 2nd hand rail on concrete slab with bitum							
building)	metres	145	1000	145,000	infit in station areas							
Minor rehab/clean existing	item			5.000								
Demolish existing redundant track &												
reinstate road	item			15,000								
			Sub Total	165,000								
Extre for loco operation												
					Assume 2nd hend turnouts on new timber ties+new							
					quote "\$70k to supply only. Included in cast of we							
Tumouts	No.	5	30000		terminus.							
Extre treck	item	240	500	120,000	Embedded thru station platform areas							
			Sub Total	120,000								
Stations - Heritage themed												
Terminus station - Mill Lane and				715.397	Includes klosk and staff toilet. Constructed with in- labour and materials.							
	item.	1		23,700								
Depot end intermediate stop	ltem			23,700	DDA Compliant stop (to be designed) DDA Compliant stop (to be designed)							
Site services	item	•	-	10,000	Power, water, sewage							
Fending - security (2.1m chain wire)	metres	170	50	8,500	Compaund 70 x 40 m							
Security pystem	item	1/0	~	5.600	Alern and CCTV							
Solar power battery charging	item	1		1.000								
Building fit-out tools, jecks	item	1		10.000								
			Sub Totels	807,897								
Civil Works - Mill Lane												
Service modifications	item	1		5,000								
Drainage modifications	item	1										
Road/kerbing modifications	Item	1		4,000								
Relocation of car parking and one												
laring of Mill Lane beyond round-a-	1											
bout.	item	1		176,500	Based on SCC prelim plans and estimate							
			Sub Totals	185,800								
Miscellaneous												
Route signage	item			10,000								
					Located where tramway crosses one lane of traffic							
Reshing light werning lights	item	-		30,000	Howard St and Mill St							
Traffic Signals activation	item	-	6 10 Holes	\$0,000 120,000	To cover both Currie St and Ann St intersections							
			Sub Totels	120,000								
			SUB-TOTAL	1.977.025								
		-	SUB-TOTAL	1,977,025								
Basian		-	-		instanted in continue on the data to a contration but							
Design		-			Included in costings or Provided on a volunteer be							
Project management/supervision	Item	-		6.000	Included in costings or Provided on a volunteer be							
Sefety Accreditation	-18m			6,000	Safety Management System							
	1			5.000	Revenue to Thill Bail Safaty Ban (area) house and							
tal tomolistics testistics for				5,000	Payable to TMR Rail Safety Regulator   2014 fee \$1							
Rail Accreditation Application Fee												
Rail Accreditation Application Fee		5.75%		111.679	Some contineencies atready included in sostings							
Rail Accreditation Application Fee		5.75%		113,679	Some contingencies already included in costings							

	Pull Cost	**Revised Cost with Volunteer Contributions
Trade	\$	\$
Preiminaries	\$5,000	65.000
Substructure	115.865	110.557
Frame	139,315	177,205
koof	62,521	ind in Frame
External Walls	90,464	incl in Frame
Windows and External Doors	27,665	incl in Frame
internal Walls	13,156	13,156
internal Oppris	4,411	4,411
Well Finishes	20,902	20.901
Floor Finishes	24,511	19,510
Celling Finishes	12,172	12,172
Fixtures and Fittings	14,465	14,465
Painting	15,807	15,307
Hydreulics	74,690	74,690
Electrical and Dry Fire Services	\$4,000	75,000
Mechanical Services	17,485	15,485
External Works	100,843	85,843
Contingency	156,000	96,000
Total Cost excl GST	1,058,742	799,982
Adjusted from 358m2 to 317m2 on a m2 rate for estimating purposes	977,709	718.397

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				AY COMPANY L		
				L EXPENDITURE	-	
		NAMBOU	K HERITAGE IN	AWWAT PROJE	CI .	
ons						
	- Operated by The Namb	our Tramway Co	ompany Ltd			
	- Two persons operating	tram at all time	s			
	- Kiosk at Western Termin	nus manned by	volunteers			
	- Low maintenance vehic	le				
	- Low infrastructure main	tenance (track,	buildings, depo	ts)		
	- Vehicle has an overhaul	every 10 years	including a full	replacement of	the batteries	
	- Revenue amounts and i	ncreases have b	een adopted as	provided by Th	e Nambour Tra	amway Company Ltd
	Item	Unit	Quantity	Rate	Annual Cost	Comment
	Operating		-		l Budget Estimat	
	Labour	-		· · · ·	GugerEstimat	includes on-costs
	Manager	FTE	1	45000	45,000	includes on-costs
	Staff	FTE	0	45000	45,000	All staff volunteers
	Stan	FIE	-	-		All stall volunteers
		+				
						Power, water supply/sewerage
	Utilities	Item			4.000	telecoms
					.,	Nil for revenue <\$250k. \$6.5k
	Rail Accreditation	Item				for revenue>\$250k
						2 nightly drive-by patrols incl
	Security			1	2,700	lock up check \$225.61 p/mth
					2,7 * *	ion up men vien vien primer
						Facebook, twitter (\$25k first
	Promotions			1	10,000	year)
						, ,
				<b>Operating Cost</b>	61,700	
	Maintenance					
						£36,750 (future exch 1.99
	Tram					assumed)
	Depots/Stations					Repairs, graffiti removal
	Infrastructure				1,000	Minor only expected
			Annual Mai	ntenance Costs	4,000	
	Current quete for!!	lis overhaul- //	eluded in early	al costs)		
	Current quote for period	ic overnauis (in	ciuded in capit			626 750 (future eych 1 00
	Tram	Overhaul	ny 10 years		72 1 22	£36,750 (future exch 1.99 assumed)
	Buildings - repaint etc.	Overhaul eve Every 10 year			25,000	assumed)
	Buildings - repaint etc.	Every 10 year	<u> </u>		25,000	
	Future Cost of Periodic C	)vorbauls (indo	vod at 3% CPI			
		vacinaus (inde	at 370 CPI)			
					98 205	
	Tram Buildings - repaint etc.				98,285 33,598	

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31 JANUARY 2019

				IWAY COMPAN				
		NAMBO	OUR HERITAGE	TRAMWAY PR	DJECT			
preadsheet for tram movements, passenge he below chart is designed to stimulate a re				tee with workable figu	res for budgeting and	grant submissions.		
** I see a potential for relieving the traffic	congestion around N	ambour State High	by utilising the tram	and pedestrian links b	etween Howard Stree	and the School.		
*** Other sources of revenue could be mon	thly and yearly ticket	s, as well as off pe	ak tickets. The funds	would be received in a	dvance and refreshed	each month or year	r.	
Day	Station	Arrival	Departure	Full Fare	Concession	Child	TOTAL	
Monday to Friday	28 Mill St		8.10am		5 2			
wonday to maay	Town Cnr	8.15am	8.20am		2	5		
	Aldi	8.25am	8.40am		1 2	2		
	Town Cnr	8.45am	8.50am			-		
	28 Mill St	9.00am	9.30am		3 1	1		
	Town Cnr	9.35am	9.40am		-			
	Aldi	9.45am	10.15am		1 2	2		
	Town Cnr	10.20am	10.25am			-		
	28 Mill St	10.30am	11.00am		5 2	3		
	Town Cnr	11.05am	11.10am		-			
	Aldi	11.15am	11.45am		5 2	3		
	Town Cnr	11.50am	11.55am		-			
	28 Mill St	12 noon	12.30pm		2 1	1		
	Town Cnr	12.35pm	12.40pm		-			
	Aldi	12.45pm	1.45pm		2 1	1		
	Town Cnr	1.50pm	1.55pm		-			
	28 Mill St	2.00pm	2.30pm		1 2	2		
	Town Cnr	2.35pm	2.40pm					
	Aldi	2.45pm	2.50pm		5 2	2		
	Town Cnr	2.55pm	3.00pm					
	28 Mill St	3.05pm	3.10pm		7 4	4		
	Town Cnr	3.15pm	3.20pm					
	Aldi	3.25pm	4.30pm		2 1	1		
	Town Cnr	4.35pm	4.40pm					
	28 Mill St	4.45pm						
Per Day				4	25	26		
Per week				24	5 123	129		
Saturday	28 Mill St		9.00am		1 2	2		
	Town Cnr	9.05am	9.10am					
	Aldi	9.15am	10.00am		1 2	2		
	Town Cnr	10.05am	10.00am					
	28 Mill St	10.05am	11.00am		3 4	4		
	Town Cnr	11.05am	11.10am					
	Aldi	11.15am	11.20am		3 4	4		
	Town Cnr	11.25am	11.30am					
	28 Mill St	11.35am	12.30pm		3 2	2		
	Town Cnr	12.35pm	12.40pm					
	Aldi	12.45pm	2.00pm		2 1	1		
	Town Cnr	2.05pm	2.10pm					
	28 Mill St	2.15pm						
Total over a 6 day period				27		143	554.4	
One-way fare cost				\$ 2.00		-		
Veekly takings based on a one	e-way fare			\$ 548.40	\$ 138.40	\$ 143.80		
			<b> </b>					
otal annual fare income		<u> </u>		\$ 28,516.80	\$ 7,196.80	\$ 7,477.60	\$ 43,191.20	
Discount Applied to Allow for	people using a	nnual passes	+ +				\$ 10,685.50	24.7
							\$ 32,505.70	
Annual Passes - \$150 x 200			+				\$ 30,000.00	
Shopper Docket revenue			++				\$ 5,500.00	
Sponsorship/advertising reven	ue						\$ 28,500.00	
OTAL ANNUAL REVENUE							\$ 96,505.70	

Sunshine Coast Regional Council

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