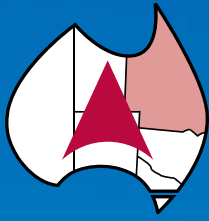
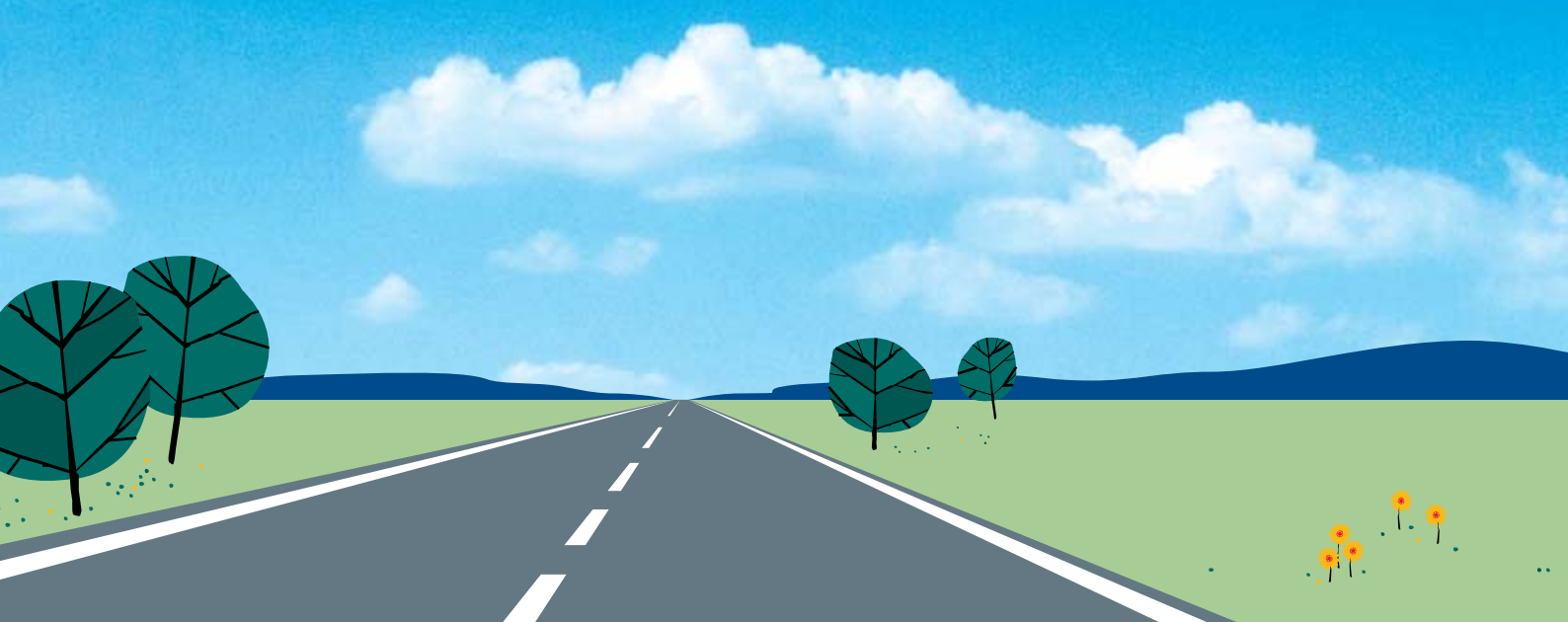




IPWEAQ



# PATHWAYS to SUCCESS



## 2005/06 QUEENSLAND public works engineering EXCELLENCE AWARDS

nominations and results

The IPWEAQ Excellence Awards were introduced to give recognition to engineers and other practitioners working in the local government and public works industries and their Councils and organisations for outstanding achievements.

This booklet provides an historical record of the nominations and winners from the 2005 and 2006 events. The showcasing of all nominations and the presentation to winners was made during the IPWEAQ State Conferences, held in Gladstone and Marcoola. A special plaque is awarded to the council/organisation that nominates for the award, with the nominee being presented with a certificate. Winning project entries may be considered for nomination in the IPWEA National Awards, with the winning "people" award being considered for nomination in the IPWEA National Emerging Leaders Award.

There are many benefits to submitting an entry for the IPWEAQ Excellence Awards, and we recommend all councils consider nominating their people and/or projects. Many of the projects undertaken during the year are examples of industry best practice and may, therefore, assist a fellow practitioner in undertaking projects that may otherwise not happen. While we are keen to showcase the projects we recognise that people are our most valuable asset, and the attributes of staff can also be recognised for their excellence by nomination in that category.

**Presentations are made in the following categories, with all projects showing how they have addressed environmental issues:**

- Projects over \$1 Million
- Projects \$100,000 to \$1 million
- Projects under \$100,000
- Innovation and/or New or Improved Techniques
- Water Projects

**People Category:**

- IPWEAQ Engineer of the Year
- IPWEAQ Young Engineer of the Year
- IPWEAQ Works Supervisor of the Year

Each of these categories was selected to represent the diverse nature of the work of local government and public works practitioners, and the range of nominations received clearly show this diversity. The Judges of the Excellence Awards nominations believe the calibre of the projects submitted in each year have been outstanding, and 2005/06 were no exception.

IPWEAQ acknowledges its grateful thanks to the Queensland Foundation for Public Works Engineering and the Queensland Water Directorate for their sponsorships, and to the Judges for the time they spend and expertise they bring on assessing the nominations. In 2005 and 2006 the Judges were Peter Way (Chair) and Gil Holmes (Trustee), Queensland Foundation for Public Works Engineering.

We trust that you find the book interesting and informative and we welcome any feedback.

**Suzanna Barnes-Gillard**  
Chief Executive Officer

# 2005

**overall grand winner**

One Mile Bridge Project  
**IPSWICH CITY COUNCIL**

4

**winner: projects over \$1M**

Wastewater Reuse Scheme  
**STANTHORPE SHIRE COUNCIL**

5

**winner: projects \$100,000 to \$1M**

Jimbour Amphitheatre Project  
**WAMBO SHIRE COUNCIL**

5

**commendation: innovation award**

VIP Safety  
**TOWNSVILLE CITY COUNCIL**

6

**commendation: innovation award**

Saving Water The Smart Way  
**GOLD COAST WATER & WIDE BAY WATER**

6

**winner: water project**

Trevean Gardens, Highfields  
**CROWS NEST SHIRE COUNCIL**

7

**winner: water project**

Use of Risk Analysis to Target High Risk,  
 High Consequence Degraded Sewers  
**FITZROY RIVER WATER**

8

**engineer of the year**

Stephen Hegedus  
**DALBY TOWN COUNCIL**

9

**young engineer of the year**

Adam Sadler  
**CITIWORKS TOWNSVILLE**

10

**works supervisor of the year**

Brian Weeks  
**WARWICK SHIRE COUNCIL**

11

**nominees**

First Certified Environmental Management  
 System for Citiworks Townsville  
**TOWNSVILLE CITY COUNCIL – CITIWORKS** 12

The Caves Trunk Water Pipeline  
 Asset Condition Assessment and Valuation  
**LIVINGSTONE SHIRE COUNCIL** 12

Stanthorpe Wastewater Reuse Scheme  
**STANTHORPE SHIRE COUNCIL AND SINCLAIR  
 KNIGHT MERZ** 13

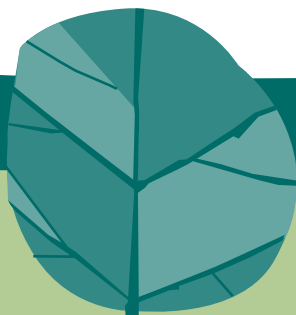
Calliope Roads Alliance  
**CALLIOPE SHIRE COUNCIL** 13

Cairns Integrated Public Transport Plan  
**CAIRNS CITY COUNCIL** 13

Assessment of Pedestrian Crossing Facilities  
**CALOUNDRA CITY COUNCIL** 14

Streetscaping Project, Ramsay  
 Street Greenmount  
**CAMBOOYA SHIRE COUNCIL** 14

Gregory Street Redevelopment  
**TOWNSVILLE CITY COUNCIL – CITIWORKS** 14



# 2006

## overall grand winner • projects over \$5M

Burgowan Water Treatment Plant  
WIDE BAY WATER CORPORATION 15

## commendation: grand overall

project • projects over \$1M  
Walter Hay Drive South  
NOOSA COUNCIL 16

## winner: projects over \$1M

Winton Memorial Pool  
WINTON SHIRE COUNCIL 17

## winner: projects under \$1M

Water Demand Management Project  
FITZROY SHIRE COUNCIL &  
WIDE BAY WATER CORPORATION 17

## winner: projects \$100,000 to \$1M

The Adungadoo Pathway  
ROMA TOWN COUNCIL 18

## winner: asset management

Whole of Council Asset Management  
ROCKHAMPTON CITY COUNCIL 19

## commendation: asset management

Total Asset Management Plans  
CALOUNDRA CITY COUNCIL 19

## winner: innovation award

Supervisor Strategic Skills Development  
and Training Program  
CITIWORKS TOWNSVILLE 20

## commendation: innovation award

Pioneer Park – All Abilities Playground  
CALOUNDRA CITY COUNCIL 20

## winner: water innovation award

Bore Pumping Test Water Recovery System  
TOOWOOMBA CITY COUNCIL 21

## engineer of the year

Patrick Murphy  
BOONAH SHIRE COUNCIL 22

## young engineer of the year

Justin Fischer  
LAIDLEY SHIRE COUNCIL 22

## works supervisor of the year

Graham Sale  
CITIWORKS TOWNSVILLE 23

## commendation: people awards

Noosa Council Works Operations Team  
NOOSA COUNCIL 23

## nominees

Mackay Water Recycling Project  
MACKAY CITY COUNCIL 24

Lake Kawana Community Centre  
CALOUNDRA CITY COUNCIL 24

Vantassel Street Waste Facility Upgrade  
CITIWORKS TOWNSVILLE 25

CBD South Flood Mitigation Plan  
CAIRNS CITY COUNCIL 25

Asset Management Development Program  
CAIRNS CITY COUNCIL 26

The 'Asset Hierarchy' Asset  
Management Approach  
MAROOCHY SHIRE COUNCIL 26

awards night 27

## overall grand winner

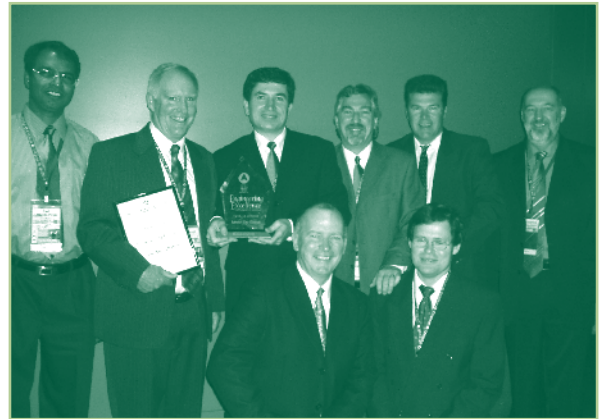


### One Mile Bridge Project IPSWICH CITY COUNCIL

The One Mile Bridge Project undertaken by Ipswich City Council, at an estimated cost of \$10.9 million, involved construction of a four-lane concrete bridge across the Bremer River, refurbishment of the original bridge and construction of approaches to both bridges.

#### JUDGES COMMENTS

*The Judges were impressed by the size and scale of this project and significant works portion of the approach roadworks being handled in house, both for design and construction. The Project also was innovative in the use of a Marketing Strategy to drive the community consultation process. The end product is an aesthetically pleasing and functional solution providing major community benefits through improved traffic flow and greater flood immunity.*



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**Project Engineer:** John Tannock  
**Current Contact:** John Tannock  
**Ph:** 07 3810 6666  
**Email:** council@gil.com.au

winner: projects over \$1M



**Wastewater Reuse Scheme**  
**STANTHORPE SHIRE COUNCIL**

The project involved the planning, design and construction of a wastewater recycling scheme for Stanthorpe Shire Council. The scheme provides a sustainable reuse alternative, and avoided the expense of upgrading the existing sewage treatment plant to a standard permitting discharge to the stream system.

**JUDGES COMMENTS**

*This project was a clever alternative to avoid a costly infrastructure upgrade. Market demand was tested for viability; the cost-effective project shared costs between stakeholders; extensive local consultation was carried out; the project is environmentally sustainable.*

**Project Engineer:** Sinclair Knight Merz  
**Current Contact:** Chris Loveday  
**Ph:** 07 4681 5544  
**Email:** mail@stanthorpe.qld.gov.au

winner: projects \$100,000 to \$1M



**Jimbour Amphitheatre Project**  
**WAMBO SHIRE COUNCIL**

The Amphitheatre was established to provide social and economic benefits to the communities of Wambo Shire and Dalby Town, whilst establishing Jimbour Station as a premier events location in the region.

It has already proven to be a great success with the staging of "Opera at Jimbour" on 23rd July, 2005 attracting around 7000 visitors to a world class cultural event.

**JUDGES COMMENTS**

*This relatively simple but unique project impresses in many ways. The result has already benefitted the town and shire with the attraction of increased regional tourism. Joint funding assisted the undertaking which will help strengthen the local economy. Local environmental issues were successfully addressed in relation to the small wetland, and the amphitheatre blends in well with the contours outside the winery. Very imaginative.*

**Project Participants:**

Wambo Shire Council, Russell Pastoral Company, Dalby Town Council

**Project Engineer:** Kim Clayton  
**Current Contact:** Kim Clayton  
**Ph:** 07 4669 9000  
**Email:** info@wambo.qld.gov.au

**commendation: innovation award**



**VIP Safety  
TOWNSVILLE CITY COUNCIL**

This policy and the associated ViP Safety Management Plan define the strategies for Council to manage motor vehicle safety. Council will ensure that adequate resources are made available for the implementation and ongoing management of these strategies.

The objectives of this policy are to set out guidelines addressing five key areas. These are driver and management responsibilities, Workplace Health and Safety requirements, safer drivers, vehicle management practices and monitoring of performance. This policy also references the ViP Safety Management Plan which sets out the application of safe practices and control procedures.

The ViP Safety Management Plan will set out procedures to achieve:

- Minimal accident rates
- Minimal traffic infringements
- Competency of the driver matched to the task being performed
- A high level of vehicle care

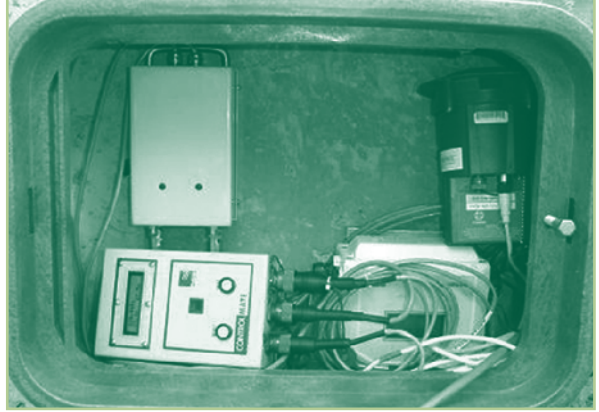
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**Project Engineer:** Fred Sloots  
**Current Contact:** Fred Sloots  
**Ph:** 07 4727 8500  
**Email:** enquiries@townsville.qld.gov.au

**JUDGES COMMENTS**

*The project demonstrates an innovative way of reducing fleet operating costs, generates cost savings, and trains staff in better and safer vehicle operation, by employing risk minimisation techniques. The in-house development is also highly commendable.*

**commendation: innovation award**



**Saving Water The Smart Way  
GOLD COAST WATER & WIDE BAY WATER**

Gold Coast's Pressure and Leakage Management project is designed to reduce water pressure within the water supply distribution system. Water pressure is controlled by the installation of a modulating Pressure Reducing Valve (PRV). Use of the equate pressure during peak periods of customer demand and reduced pressure during off-peak periods (especially at night). This reduction in water pressure minimizes the amount of water lost due to leakages from pipe joints and fittings. It also reduces the amount of water consumed. The results of this project showed a reduction in water main and water service breaks of over 70% and a reduction in water use by more than 20%.





## winner: water project



### Trevean Gardens, Highfields CROWS NEST SHIRE COUNCIL

Trevean Gardens is a 124 Lot planned residential community at Highfields in the Crow's Nest Shire employing water sensitive urban design principles. A joint initiative of Crows Nest Shire Council and developer Trevand Pty Ltd has relied on an integrated consultant team approach to achieve a regional best practice model for residential stormwater design principles.

#### JUDGES COMMENTS

*There a currently few topics of more importance to Queensland and Australia than better water management.*

*This innovative project has shown remarkable savings in the test area, both in usage and cost, and has already been endorsed at the highest level. It may well prove a model for many other authorities to emulate.*

#### Project Participants:

Gold Coast Water and Wide Bay Water Corporation

Current Contact: P Williams

Ph: 07 5582 8714

Email: pwilliams@goldcoastwater.com.au

The project site comprises over 18 hectares in total including half a hectare of drainage reserve and an additional parkland contribution of over one hectare. Employing water sensitive urban design principles has been the driving design objective for the layout and design of the project.

Crows Nest Shire Council are coordinating a joint initiative with developer Trevand Pty Ltd to create a regional best practice model for residential stormwater management design and construction.

Crows Nest Shire Council's Technical Services Department is heading up the consultant team and will eventually implement the works on site as head contractor. Council is fostering an integrated approach by the consultant team to achieve design solutions that move across traditional fields of expertise. Council's Technical Services team are working closely with Landscape Architects jwConcepts to ensure that stormwater management initiatives are fully realized through the design process and on the ground.

The site is characterized by rolling grassed slopes that drain predominantly to a central drainage line. Existing vegetation is mainly located along the drainage line with the majority of the site having been cleared for grazing purposes in the past. The proposed residential lots and road network have been arranged to retain and enhance the visual amenity and recreational potential of this area and incorporate its environmental qualities with open spaces areas.

**Project Engineer:** Gerard Brennan

**Current Contact:** Jack Pijpers &

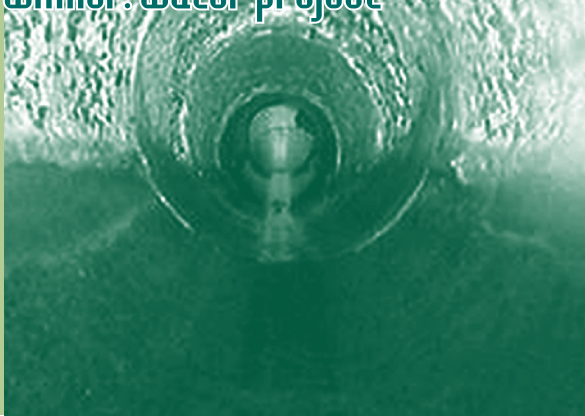
Gerard Brennan

**Ph:** 07 4698 1155

**Email:** administrator@crowsnestshire.qld.gov.au



## winner: water project



### Use of Risk Analysis to Target High Risk, High Consequence Degraded Sewers

#### FITZROY RIVER WATER

Fitzroy River Water has developed and utilized risk analysis methodology to assist in the identification of the City's sewerage infrastructure, which if it failed, would impose a significant financial and or legal burden on Fitzroy River Water and its business.

Each sewer was scored individually according to the diameter (capacity) and depth to provide risk factors of likelihood. Each asset was then given a priority rating according to the foregoing together with its location (i.e., whether it was located in an area of low accessibility; e.g. low lying, swampy ground, or under a major road, the main northern railway line or significant buildings. The identified high-risk assets are then scrutinized using Closed Circuit Television (CCTV) to determine those in need of urgent rehabilitation.

The initial risk analysis took approximately two months, but the project is ongoing. All of the highest risk assets were examined, assessed and ranked by the end of 2004/5 and FRW is now working through the balance of the list in order of priority.

The risk analysis was done in accordance with the Australian Standard AS/NZS 4360. FRW had to first

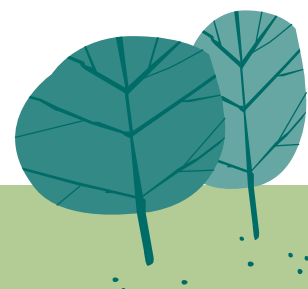
determine the parameters of Failure, Likelihood and Consequence for its sewer segments, and then apply a priority rating according to its location.

FRW has an extensive GISWEB database of its sewer assets and the skills to interrogate this database. It also has extensive knowledge of the soil-types, topographic locations, and the resources to facilitate the project.

Once a prioritized list had been drawn up, targeted CCTV could then assess the actual condition of the sewer and decision made on whether or not it needed rehabilitation.

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**Project Engineer:** Neil Hanschen  
**Current Contact:** Neil Hanschen  
**Ph:** 07 4936 8777  
**Email:** enquiries@frw.com.au



engineer of the year



**Stephen Hegedus**  
DALBY TOWN COUNCIL

With 15 years experience in Local Government as a qualified engineer, Dalby Town Council's Director of Engineering Services Mr Stephen Hegedus has built a reputation for delivering excellence in the field of public works.

From the complexity of employing reverse osmosis technology to secure a reliable town water supply, to the emotive issue of revitalising the heart of Dalby's CBD, the projects Stephen has lead are proven industry benchmarks.

With a passion to see Dalby emerge as a leading regional centre, Stephen seeks innovative solutions to create superior services and amenities. Current projects include a \$3M multi-purpose covered arena and a \$4.5M aquatic centre.

Stephen Hegedus is highly regarded by his peers, colleagues and community for his professionalism, engineering expertise and collaborative approach.

Equally dedicated to his family as to his career, Stephen applies a refreshingly balanced approach to the projects and people he leads.

**Ph:** 07 4660 6100  
**Email:** info@dalby.qld.gov.au

**JUDGES COMMENTS**

*Stephen's commitment to and enjoyment of local government engineering made him an obvious choice for the Judges in selecting the Awardee for IPWEAQ Engineer for 2005. Stephen has demonstrated strong involvement in the development of his local community at Dalby Town Council over some 15 years in a wide variety of public works activities. He has displayed vision and willingness to embrace new technology as well as developing business opportunities for Council. A strong customer service focus and environment protection ethos were also noted by the Judges. In addition, Stephen has taken on additional studies with Post Graduate Qualifications in Municipal Engineering and Local Government Management.*



young engineer of the year



JUDGES COMMENTS

*Adam's achievements impressed the Judging Panel given he has achieved much already in his career since graduation. He has played a lead role in award winning projects with Townsville Citiworks and displays a strong commitment to raising environmental awareness throughout the organisation in his role as Environmental Engineer. He also displays a strong community involvement ethos and undertakes a mentoring role with new graduates within Citiworks.*

*The Judges noted that Adam is continuing his personal and professional development through the undertaking of an MBA via correspondence at La Trobe University.*

Adam Sadler

CITIWORKS TOWNSVILLE

Citiworks Townsville's Environmental Engineer, Adam Sadler, is highly motivated and dedicated toward achieving organizational goals.

For a 29 year old, Adam has achieved many successes for the public works industry which include:

- Project management of award winning projects
- Achieving international standards for environmental management system
- Paradigm shifting organizational environmental culture
- Programs for graduate and student development

Adam's dedication has raised the profile of sustainability in engineering and the importance of public works on community and local environments, his community focus has involved the organization with events including national tree planting day.

His attitudes toward the business and staff make the work place a positive and productive environment.

Adam is a young, enthusiastic, highly motivated and devoted Environmental Engineer currently studying a MBA.

His dedication has raised the profile of sustainability in engineering and the importance of public works on community and local environments.

Ph: 07 4727 9000

Email: [enquiries@townsville.qld.gov.au](mailto:enquiries@townsville.qld.gov.au)

## works supervisor of the year



### Brian Weeks WARWICK SHIRE COUNCIL

Brian Weeks coordinates and manages all Shire road maintenance for Warwick Shire. He administers, inspects, and programs all maintenance works over a 2,000km network of which 1,400km is gravel or dirt. Brian developed and operates his own Excel spreadsheet system. Brian also acts as Assistant Overseer and carries out competency certificate testing for plant for four (4) Shires. Brian is also a qualified Safety Officer and is Chairman of the Shire's Workplace Health and Safety Committee. Brian is also President of the Shire Social Club.

Brian has a high level of professionalism and is highly dedicated to his position and to the Shire.

**Ph:** 07 4661 0330

**Email:** [mail@warwick.qld.gov.au](mailto:mail@warwick.qld.gov.au)

#### JUDGES COMMENTS

*The Judges felt that Brian exemplifies the hallmarks of a good Works Supervisor with his personal development of skills and professionalism to foster quality and efficiency from Council staff. His development of spreadsheet tools to assist in management of the maintenance functions across the Shire road network is commendable especially since he is largely self taught in computer software use.*

*Brian also recognises the importance of the social aspects of the work environment and is President of the Shire Social Club. Another recognition noted by the Judges was his involvement with TAFE Toowoomba for training of Works Staff.*



**The Caves Trunk Water Pipeline  
Asset Condition Assessment  
and Valuation**  
**LIVINGSTONE SHIRE COUNCIL**

A combination of visual assessment, non-destructive testing and maintenance history analysis was used to determine the remaining useful life and current value of an 80-year old, above-ground, mild steel water pipeline.

**Current Contact:** *Phil McKone*  
**Email:** [p.mckone@livingstone.qld.gov.au](mailto:p.mckone@livingstone.qld.gov.au)



**First Certified Environmental  
Management System for  
Citiworks Townsville**

**TOWNSVILLE CITY COUNCIL – CITIWORKS**

The Townsville City Council's major business unit and service provider Citiworks has designed an Environmental Management System to involve all levels of the Citiworks workforce and all contractors and subcontractors undertaking any services or work, which has led to significant improvements in the sustainability of Citiworks' operations.

Citiworks, the Council's road and drainage business unit developed and implemented a comprehensive environmental management

system (EMS) which was third party certified and is now being delivered in all its day to day activities. All staff have been involved in the development and implementation of the EMS policy and program, which extends to all contractors, sub contractors and their teams. Every Citiworks project in Townsville is now administered by the EMS protocols. Its key assessment tool, the targometer is a feature in all offices and meeting facilities at Citiworks and provides a daily reminder to all members of the team, of the commitment to environmental management and its assessment for every project undertaken.

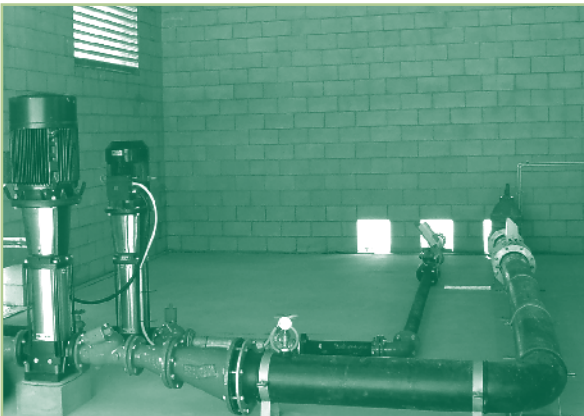
**Current Contact:** *Russell Plant*  
**Email:** [citiworks@townsville.qld.gov.au](mailto:citiworks@townsville.qld.gov.au)



## Calliope Roads Alliance CALLIOPE SHIRE COUNCIL

Calliope Shire and Road Tek demonstrate that Federal, State and Local Governments can work together by combining to form the Calliope Roads Alliance and deliver approximately 16 kilometres of road infrastructure upgrades to service heavy industry in the Calliope region.

Email: [csc@calliope.qld.gov.au](mailto:csc@calliope.qld.gov.au)



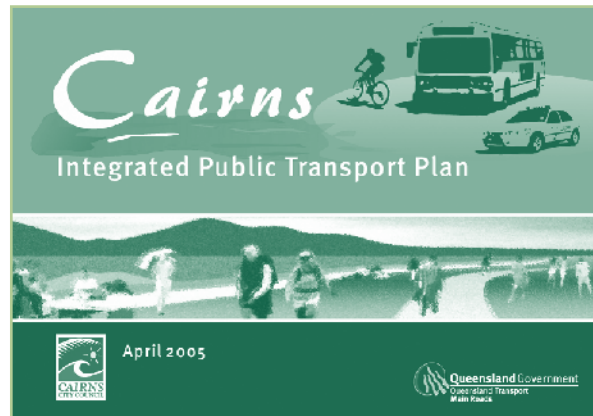
## Stanthorpe Wastewater Reuse Scheme

**STANTHORPE SHIRE COUNCIL AND  
SINCLAIR KNIGHT MERZ**

The project involved the planning, design and construction of a wastewater recycling scheme for Stanthorpe Shire Council.

The scheme provides a sustainable reuse alternative, and avoided the expense of upgrading the existing sewage treatment plant to a standard permitting discharge to the stream system.

**Current Contact:** *Chris Loveday*  
Email: [mail@stanthorpe.qld.gov.au](mailto:mail@stanthorpe.qld.gov.au)



## Cairns Integrated Public Transport Plan

**CAIRNS CITY COUNCIL**

The Cairns Integrated Public Transport Plan identifies strategies, actions and short, medium and long term network plans to create a public transport system for Cairns that is equitable, accessible and a viable alternative to the private car.

**Current Contact:** *Helius Visser*  
Email: [council@cairns.qld.gov.au](mailto:council@cairns.qld.gov.au)

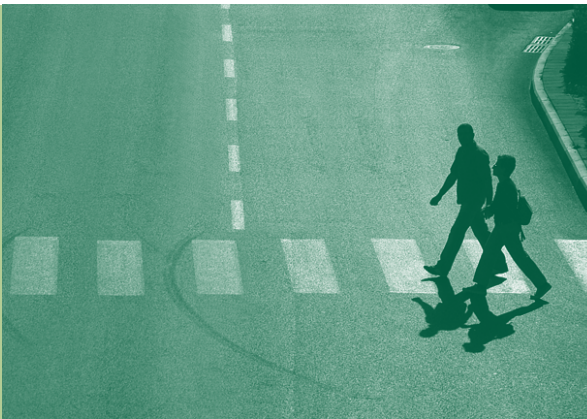


**Streetscaping Project, Ramsay Street Greenmount**

**CAMBOOYA SHIRE COUNCIL**

Council implemented a community proposal to provide improved pedestrian linkages, beautifying Ramsay Street through landscaping, tree planting, removing overhead power lines, installation of heritage lighting, footpaths, roadworks and painting of the Memorial Hall.

**Current Contact:** *Tony McDonald*  
**Email:** [info@cambooya.qld.gov.au](mailto:info@cambooya.qld.gov.au)



**Assessment of Pedestrian Crossing Facilities**

**CALOUNDRRA CITY COUNCIL**

The revision of this technique was prompted by requests from the community for pedestrian crossings that could not be supported by the warrants in the Manual of Uniform Traffic Control devices. Crossing guidelines from across Australia were investigated as well as the draft guidelines prepared by the DMR. It now recognises traffic volume versus pedestrian volumes and takes into account other social factors – difficulty in crossing the road, children, elderly, disabilities, community expectation, pedestrian mobility patterns, impact on adjoining properties and infrastructure, crash history, visibility, proximity to alternative crossings.

**Current Contact:** *Anthony Takken*  
**Email:** [a.takken@caloundra.qld.gov.au](mailto:a.takken@caloundra.qld.gov.au)



**Gregory Street Redevelopment**

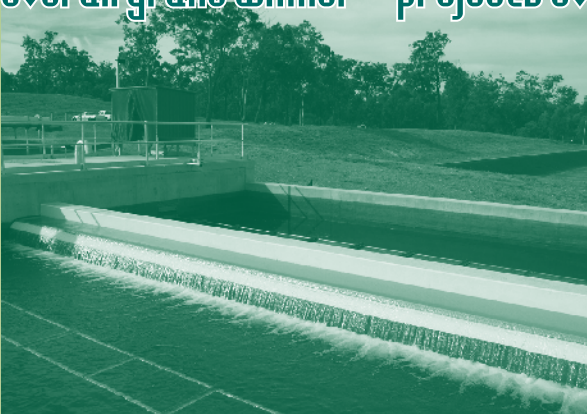
**TOWNSVILLE CITY COUNCIL – CITIWORKS**

Historic Townsville is a major gateway to the Great Barrier Reef. The Gregory Street precinct streetscape redevelopment adds to the revitalization program of the historic areas of Townsville to create a new vibrant precinct in a suburb whose main industry; the 120 year old hospital has been relocated to Douglas near James Cook University. The precinct upgrade has provided a catalyst for new development based on accommodation and tourist services and has also resulted in sense of place, purpose and social connection in a location connecting to the celebrated The Strand.

**Current Contact:** *Russell Plant*  
**Email:** [citiworks@townsville.qld.gov.au](mailto:citiworks@townsville.qld.gov.au)



overall grand winner • projects over \$5M



## Burgowan Water Treatment Plant WIDE BAY WATER CORPORATION

Burgowan Water Treatment Plant is a state-of-the-art facility that uses a unique configuration of standard treatment processes, which enable the plant to treat water from a range of sources and for any known problem.

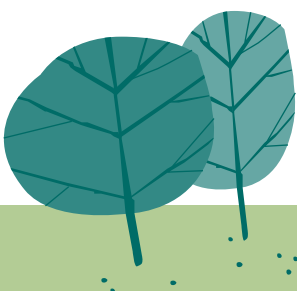
This Project demonstrated good use of an existing plant and site for a major augmentation that still managed to utilize only a small footprint in site coverage. A low energy demand solution was achieved and the judges were particularly impressed with the capability of the plant to produce high quality drinking water from a variety of differing inflow water qualities. The project required significant project management skills with the taking over of a failed construction contract in mid stream. Other hallmarks included minimal use of chemicals in the treatment process, no discharge of waste water into the environmentally sensitive Sandy Straits and the ability for the technology developed in this plant to be transferable to other sites.

### JUDGES COMMENTS

*The Judges felt this project a worthy recipient as the Overall Winner in the Excellence Awards as it demonstrated many of the criteria on which winning selections are made. It is innovative in the design solution employed, the technology developed is able to be utilized in many other applications, it employs best practice sustainable energy systems, reduction in the amount of chemicals required was achieved and an environmentally sensitive solution was promoted with full recycling on-site of all waste water.*

**Current Contact:** David Wiskar  
**Ph:** 07 4197 4197  
**Email:** davidw@widebaywater.qld.gov.au

water, waste water, sewerage and drought management



commendation: grand overall project • projects over \$1M



### Walter Hay Drive South NOOSA COUNCIL

Through environmentally-driven, best practice planning, design and construction solutions, Noosa Council, Leighton Contractors and GHD delivered the \$24.5 million Walter Hay Drive project on Queensland's Sunshine Coast with minimal environmental impact and maximum long-term environmental and social benefits.

#### JUDGES COMMENTS

*The planning and construction of this arterial-standard entrance road to Noosa has been outstanding.*

*An interesting matrix system assessed the various route options and their respective impacts on ecosystems and fauna habitats, not to mention the engineering challenges. Protection of Eenie Creek has been a major priority and sensitive construction methods assisted with this aspect.*

*Significant consultation with a large number of organisations, authorities and environmental groups was part of the knowledge-gaining process, to deliver a "best-practice" project.*

*The nomination was impressively and professionally presented.*

*Congratulations to all involved, particularly Noosa Council, Leighton Contractors and GHD.*

#### Project Participants:

*Noosa Council, Leighton Contractors & GHD*

**Current Contact:** Alan Sheridan

**Ph:** 07 5449 5222

**Email:** [dw@noosa.qld.gov.au](mailto:dw@noosa.qld.gov.au)

winner: projects over \$1M



**Winton Memorial Pool**  
**WINTON SHIRE COUNCIL**

A 49 year old pool in poor shape and founded on expansive clay soils was successfully replaced with three separate pools. The project encountered many hurdles including extremes of temperature, plagues of vermin and the up-skilling of local suppliers working in a remote environment.

**JUDGES COMMENTS**

*The project management and innovations employed were impressive. The new pools offer first class sporting and recreational facilities for the Town and Shire, in line with the goals of Council's Corporate Plan.*

*The suspension of the pool structure on so many bored piers to overcome problems from the expansive clay movement is unique to our knowledge.*

*From a coastal-dweller's point of view, one has to marvel at the problems overcome and engineering solutions employed in the construction, having in mind the remoteness challenge.*

*The storage of backwash water for other Council use helps preserve this essential and scarce commodity.*

**Current Contact:** David Timms  
**Ph:** 07 4657 1188  
**Email:** engineer@winton.qld.gov.au

winner: projects under \$1M



**Water Demand Management Project**  
**FITZROY SHIRE COUNCIL & WIDE BAY WATER CORPORATION**

Water Demand Management Project aims to reduce water losses within the Gracemere Water Reticulation System, attributable to excessive water pressure and leakages. In late 2005 Fitzroy Shire Council engaged Wide Bay Water Corporation to assist in developing a strategy to achieve this.

This project introduces leakage control, district metering and pressure management into the water supply system to improve its performance, provide economic and environmental benefits through reduced usage and reducing the need for expensive system upgrades.

**JUDGES COMMENTS**

*This Project demonstrates a low cost solution in reducing water losses by water pressure and leakage reduction. This approach is of increasing importance as a drought response and the return on investment was seen as being a significant benefit to the community with payback on the costs outlaid achieved within just 2 years.*

**Project Engineer:** Murray Donald  
**Current Contact:** Murray Donald  
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**Email:** water@fitzroyshire.qld.gov.au

winner: projects \$100,000 to \$1M



### The Adungadoo Pathway ROMA TOWN COUNCIL

Roma Town Council Adungadoo Pathway Project provides the missing link for the community of Roma.

The pathway is approximately 1.2km long linking all the vital landmarks ranging from the Sporting Fields, CBD to the Community Centres and Tourist Attractions.

Adungadoo was developed with extensive community consultation, including the traditional owners – The Mandandanji People.

Roma Council is a small budget Council with big ideas and a community that wants to grow. This project provides functional design whilst addressing a drainage eyesore issue in the town. This was achieved by sensitive environmental management and landscaping to make it a place of beauty and access for everyone.

The project was completed using a mix of contract and council workforce. This provided an opportunity for skill development and cross training of Council staff and provided demonstration of Councils work performance improvement management.

*“Adungadoo Pathway” – Helping Build And Link A Better Regional Community.*

#### JUDGES COMMENTS

*Either directly or indirectly, this project benefits a major cross-section of Roma’s residents and has achieved overwhelming local support, following a process of extensive community consultation and involvement, including with traditional owners.*

*For this small Council, SW Qld’s Tidy Town for 2006, the significance of the project’s success is evident. As an environmentally sensitive, but practical, cross-town link, the pathway serves a vital need for residents and local businesses, and is an added attraction for visitors.*

**Project Engineer:** David Pemberton  
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winner: asset management



Whole of Council Asset Management  
ROCKHAMPTON CITY COUNCIL

Whole of Council Asset Management – *build a solid foundation by starting with the end in mind.*

The Whole of Council Asset Management process has kept the end in mind while addressing core asset management requirements. The result being a solid foundation that enables further sustainable developments in long-term strategies for asset related service delivery.

JUDGES COMMENTS

*The Judges were impressed by the strong “Whole of Council” approach utilizing an in-house multi-disciplinary team with strong commitment from the Council and CEO. Keeping the end outcome in mind in setting strategies was important. The Judges were also impressed by the culture change to drive commitment from all levels of the organization and the recognition of the need to undertake succession planning to safeguard against loss of critical qualified and skilled staff.*

**Project Engineer:** Andrew Llewellyn  
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commendation: asset management



Total Asset Management Plans  
CALOUNDRA CITY COUNCIL

*“Nobody knows our business better than we do”,* was the sentiment behind Caloundra City’s decision to prepare eight asset management plans in-house for Council’s civil infrastructure including: Roads and road infrastructure; Stormwater drainage; Buildings and facilities; Park and recreational infrastructure; Fleet; Cleansing infrastructure; Land; and An overarching Corporate Plan.

Using the International Infrastructure Management Manual framework and strong coordination of a multidisciplinary team, key staff developed the tools and skills to prepare an organisationally recognized assessment of the long term needs of Councils civil infrastructure.

JUDGES COMMENTS

*It was felt this submission deserved commendation for what Caloundra Council staff achieved on a minimal budget, again utilizing in house expertise on a short time frame. Good use was made of available tools such as the IIMM framework with a multi-disciplinary team approach resulting in strong organizational ownership of the plans that were developed.*

**Project Engineer:** Andrew Ryan  
**Current Contact:** Andrew Ryan  
**Ph:** 07 5420 8762  
**Email:** a.ryan@caloundra.qld.gov.au

winner: innovation award



**Supervisor Strategic Skills Development and Training Program**  
CITIWORKS TOWNSVILLE

Townsville City Council's Roads and Drainage Business Unit, Citiworks has developed an integrated Strategic Skills Development and Training Program which has started to show benefits in unskilled versatility and knowledge of staff as well as providing a means to help address the current skills shortage and challenges. The Strategic Skills Development and Training package focuses the up-skilling of employees to assist in the continual improvement of service to the Townsville community.

**JUDGES COMMENTS**

*This Program was seen as an excellent response to the growing problem of skilled staff shortages in local government. A strong in-house focus on potential staff with leadership and supervisory attributes through talent identification processes was developed. The involvement of TAFE in developing a customized and tailored training package ensures it is pertinent to the individual organizations needs. On the job training is provided and the Program is transferable to other Councils or regions.*

**Project Engineers:** Russell Plant,  
Mark Ryan & Graham Sale

**Ph:** 07 4727 8951

**Email:** citiworks@townsville.qld.gov.au

commendation, innovation award



**Pioneer Park – All Abilities Playground**  
CALOUNDRA CITY COUNCIL

The Pioneer Park All Abilities Playground is a recreational environment that is not only accessible, challenging and fun, but caters for a diverse range of needs and abilities with innovative and purpose designed equipment in a safe environment for families.

**JUDGES COMMENTS**

*This innovative purpose built playground to cater for children of all ages and at all levels of ability in terms of access, is a first for the Sunshine Coast. The design moves away from tradition to a more interactive environment that ensures all elements of play are possible for children of all abilities. Sufficient challenge and interest is maintained to make the play experience fun and exciting for the children.*

*This project was seen as a good example of various disciplines working together in a highly consultative environment with the local community to build an exceptional playground facility.*

**Project Engineer:** Abby Stevens

**Current Contact:** Abby Stevens

**Ph:** 07 5420 8798

**Email:** abby.stevens@caloundra.qld.gov.au

## winner: water innovation award



### Bore Pumping Test Water Recovery System TOOWOOMBA CITY COUNCIL

Council staff have developed an innovative and unique mobile system to recover bore pumping test water, chlorinate the recovered water and inject it into the City's water supply system in accordance with strict HACCP systems. The system conserves water.

#### JUDGES COMMENTS

*This low cost mobile treatment system was developed in the interests of saving and utilizing every possible drop of water during the severe drought conditions being experienced in cities like Toowoomba and many others in the South East. The project enables water generated from the testing of possible bore sites to be treated and put directly into the water reticulation system. Whilst simple it is sophisticated enough to handle variable flow rates and quality from the test bores and produce appropriate quality drinking water for direct injection into the water grid. The Plant is transportable and can be hired out to other Councils or water authorities.*

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**Project Engineer:** Greg Dinsey  
**Current Contact:** Greg Dinsey  
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**Email:** g.dinsey@toowoomba.qld.gov.au

engineer of the year



**Patrick Murphy**  
BOONAH SHIRE COUNCIL

Patrick Murphy is Director of Engineering at Boonah Shire Council. He is the Vice President and Treasurer of IPWEAQ.

Patrick has qualification in Engineering (B.E, Hons) and Management (MBA), a graduate of Australian Institute of Company Directors and has over 25 years experience in Local Government in Queensland.

Despite his busy position at Boonah, Patrick is committed to the Institute, not only in his current role but in his involvement on LGAQ and other Committees.

His career has been focused on developing infrastructure services for smaller communities where limited funds and resources require innovation and a cross section of experience. Patrick enjoys the challenge to provide high quality community services under these circumstances.

Patrick is always willing to undertake other activities and representation.

**Ph:** 07 5463 3000  
**Email:** mail@boonah.qld.gov.au

young engineer of the year



**Justin Fischer**  
LAIDLEY SHIRE COUNCIL

Justin Fischer has been employed by Laidley Shire Council's Engineer (Works and Assets) since 2004. Justin is enthusiastic and totally committed to his job. In this period of skills shortages, Justin has had to be involved in a wide range of tasks in order to fill the gaps which have occurred in the organisation due to officers leaving with their positions being unable to be filled. He has enthusiastically embraced these challenges.

Justin manages two cadet engineers and one technical trainee in the Engineering section of Council. He is a role model and mentor for them. Along with Council's Works Overseer, Justin is responsible for the programming of the works undertaken by Council's roadworks, drainage, and building and maintenance gangs. He is also involved in the setting of priorities for the workforce. Justin is a vital part of the Council's engineering team committed to achieving results on time and within budget limits.

**Ph:** 07 5466 8888  
**Email:** info@laidley.qld.gov.au

## works supervisor of the year



### Graham Sale CITIWORKS TOWNSVILLE

Graham Sale is a dedicated works supervisor and has passion and energy for his work that cannot be beaten. He is the "can do" man and is continually raising the benchmark of work standards.

Graham's enthusiasm has contributed significantly to improving assets and infrastructure in the local community.

#### JUDGES COMMENTS

*It is a pleasure to announce this award to a person who leads by example, has a passion for his work, provides motivation and encouragement to staff and yet still balances this serious side with a "cheeky sense of humour".*

*As well as supervising major construction projects, Graham has developed training courses and seeks continually to raise work standards.*

*His extra-curricular activities and team-building exploits showcase his well-balanced character. By assisting the Council to "make it happen", Graham shows he is well-deserving of this Excellence Award.*

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**Ph:** 07 4727 8951  
**Email:** citiworks@townsville.qld.gov.au

## commendation: people awards



### Noosa Council Works Operations Team NOOSA COUNCIL

Noosa Works Operations team displayed a "can do" attitude and excellent teamwork to have a road slip in Noosa Drive, Noosa Heads repaired within 8 days. Their efforts enhanced Council's reputation as being responsive to community needs.

#### JUDGES COMMENTS

*Whilst this project does not fit one of the individual people categories, this nomination deserves commendation for the "can-do under impossible timetable" category.*

*Congratulations to Doug Reynolds, Fred Spinks, and the Council Team members for working "round the clock" to allow Santa to re-open the road in time for the Christmas influx of visitors.*

*The team effort extended to Consultants, Contractors and suppliers and has been publicly applauded by the Mayor, by local business leaders writing in the press and by residents generally.*

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**Current Contact:** Alan Sheridan  
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**nominee: water project**



**Mackay Water Recycling Project**  
**MACKAY CITY COUNCIL**

The Mackay Water Recycling Project is the largest regional reuse scheme of its type in Queensland and one of the largest in Australia, that will recycle up to 90% of Mackay's wastewater to better protect the Great Barrier Reef, protect and rehabilitate overcommitted ground water resources and achieve a more productive sugar cane industry.

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**Project Engineer:** *Jason Devitt*  
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**nominee: projects over \$1M**



**Lake Kawana Community Centre**  
**CALOUNDRA CITY COUNCIL**

The Lake Kawana Community Centre (LKCC) was designed as a contemporary, flexible and innovative community place which provides for the needs of a wide community.

The Centre provides for the following key elements:

Community hall/function centre  
 meeting rooms/resource centre, living room and community café.

Community Support Services (including referral access and information for health and human services).

Outdoor/indoor Amphitheatre, Cultural Centre (including performing arts for training and development and an auditorium – play house and community theatre).

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**Current Contact:** *Andrew Ryan*  
**Ph:** 07 5420 8762  
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**Email:** [a.ryan@caloundra.qld.gov.au](mailto:a.ryan@caloundra.qld.gov.au)

nominee: projects under \$1M



Vantassel Street Waste Facility Upgrade  
CITIWORKS TOWNSVILLE

The Vantassel Street Waste Facility Upgrade has already begun to show considerable improvements to the environmental controls, values and standards that existed at Council's major landfill site.

The project has many facets and involved the expansion of the landfill area, improvements to drainage systems, leachate collection systems, sedimentation ponds, access roads and relining of landfill area. The facility has supplied to community with better waste facilities; provided better recycling systems for metals, green waste, paper and plastics; as well as complying with the Environmental Protection Licensing Requirements for the preservation of the environment.

The project was developed as a partnership undertaking between Townsville City Council's Roads and Drainage Business Unit Citiworks, and Solid Waste Business Unit Citiwaste and was underpinned a contract, plus the clear articulation of the various risk profiles attached to the site and the works.

**Project Engineers:** *Russell Plant & Mark Ryan*  
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nominee: innovation



CBD South Flood Mitigation Plan  
CAIRNS CITY COUNCIL

Cairns City Council investigated the design of a drainage system to reduce the impact of flooding within the southern area of the Cairns CBD. This process involved "state of the art" numerical modeling capabilities and is the first of its kind to be undertaken in Australia.

**Project Engineer:** *Helius Visser*  
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nominee: asset management



**Asset Management  
Development Program  
CAIRNS CITY COUNCIL**

Cairns City Council is implementing a comprehensive Asset Management Development Program across all areas of its organization. The program includes three streams of Staff Development, Systems Development and Business Development all working together towards advanced Asset Management.

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**Project Engineer:** *John Hawkes*  
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nominee: asset management



**The 'Asset Hierarchy' Asset  
Management Approach  
MAROOCHY SHIRE COUNCIL**

Over time, Maroochy has been successful in developing Asset Management, utilizing an Asset Hierarchy that accurately reflects not only the way in which we manage our assets, but is now focused on the service that the assets are providing to the community.

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**Project Engineers:** *Adrian Duff*  
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# 2006 EXCELLENCE AWARDS

Excellence Awards dinner proudly sponsored by  
**TYCO Water**

awards night



**WIDE BAY WATER CORPORATION**  
*Winner: Grand Overall Project + Projects Over \$5M*



**NOOSA COUNCIL**  
*Commendation: Grand Overall Project*



**CALOUNDRA CITY COUNCIL**  
*Commendation: Innovation*



**TOWNSVILLE CITIWORKS**  
*Winner: Innovation*



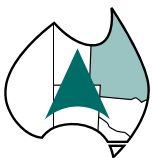
**TOOWOOMBA CITY COUNCIL**  
*Winner: Water Innovation*



**FITZROY CITY COUNCIL & WBWC**  
*Winner: Projects under \$1M*

2005/06 QUEENSLAND  
public works engineering  
EXCELLENCE AWARDS

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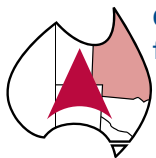
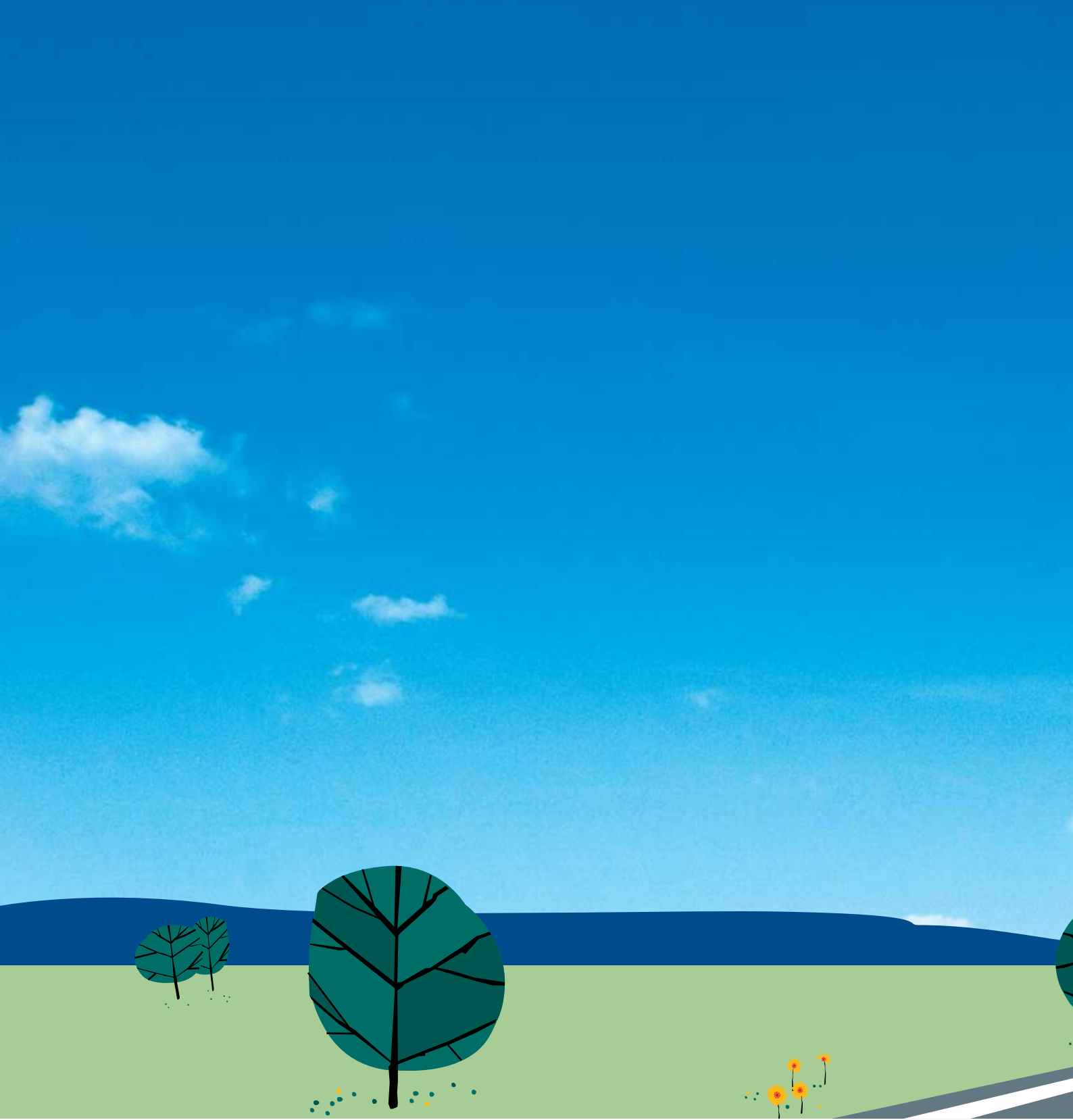
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**PATHWAYS to SUCCESS**