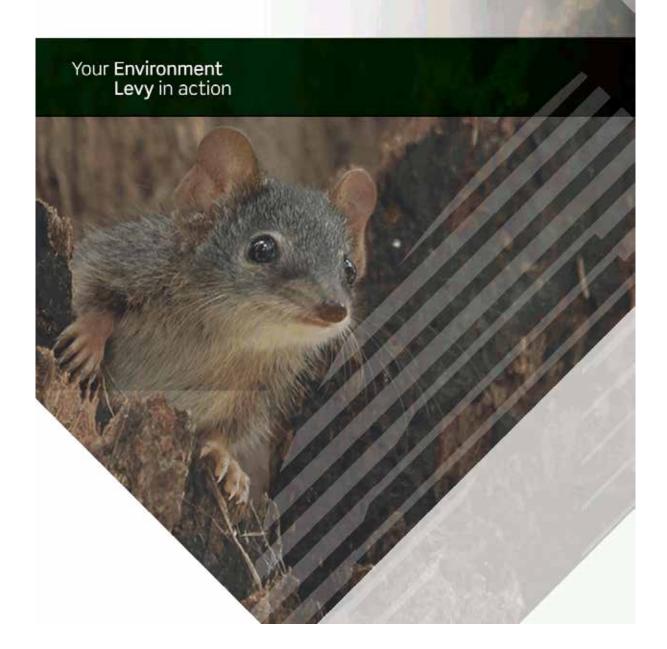


## Environment Levy Annual Report 2016-2017



#### Acknowledgment of Country

Sunshine Coast Regional Council acknowledges the traditional Country of the Kabi Kabi Peoples and the Jinibara Peoples of the coastal plains and hinterlands of the Sunshine Coast and recognise that these have always been places of cultural, spiritual, social and economic significance. We wish to pay respect to their Elders – past, present and emerging – and acknowledge the important role Aboriginal and Torres Strait Islander people continue to play within the Sunshine Coast community.

#### C Sunshine Coast Regional Council 2009-current.

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#### Acknowledgements

Council wishes to thank all contributors and stakeholders involved in the development of this document.

#### Disclaimer.

Information contained in this document is based on available information at the time of writing. All figures and diagrams are indicative only and should be referred to as such. While the Sunshine Coast Regional Council has exercised reasonable care in preparing this document it does not warrant or represent that it is accurate or complete. Council or its officers accept no responsibility for any loss occasioned to any person acting or refraining from acting in reliance upon any material contained in this document.

Front cover Image C Claxton Yellow-footed Antechinus (Antechinus Navipes)



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## Your Environment Levy in action for 2016-2017

We live in an outstanding part of the world. The Sunshine Coast's beautiful natural environment is valued by not only the people who live here, but also by the people who visit the region.

Sunshine Coast Council's Environment Levy provides funding to deliver a range of environmental projects and initiatives which would not otherwise be possible.

Funded by all ratepayers, this Levy assists to maintain and enhance our region's natural assets and our liveability and environmental credentials.

It contributes to our vision to be Australia's most sustainable region - healthy, smart, creative.

This year alone the Environment Levy has:

- purchased \$3.7 million of additional environmentally significant land. These four new land acquisitions added another 75 hectares to Council's conservation estate,
- invested \$1.2 million in delivering on-ground catchment and coastal rehabilitation projects,

- funded more than \$320,000 into research, planning and monitoring to support koala conservation and understanding the health of our waterways,
- invested just over \$1.4 million to engage and support the community to achieve significant conservation outcomes, through the Land for Wildlife Program, including Voluntary Conservation Agreements and Environment Levy Partnerships and Grants.

We are very proud of the Environment Levy's achievements this year and would like to thank each rate payer who contributes to this important Levy and the many volunteers who play an important role in caring for our natural assets.

Cr Mark Jamieson Mavor Cr Jenny McKay Environment Portfolio



## Environment Levy 2016-2017 Program snapshot

#### Buying, protecting and enhancing environmentally significant land

The environmentally significant land acquired assists to protect habitat for native plants. and animals, build landscape connections improving habitat functionality and consolidate environment reserves delivering management efficiencies

#### Delivering on-ground environmental projects

The large scale rehabilitation projects assist with maintaining, enhancing and reconnecting our natural environment through rehabilitation of coastal dunes. removing weeds in road reserves, and restoring waterway vegetation across our major catchments.

our '5ha

naging the invironment Levy onservation esta

## \$300K

Rehabilitation roject

45,000 plants 2km riparian

habitat being rehabilitated

## \$770K

\$652K Weed management pandanus monitoring

\$120K Buddina:

12,000 native plants

Annual Report 2016-2017

**Sunshine Coast Regional Council** 

### Building our knowledge

The Environment Levy invests in projects which are continually improving our knowledge of the Sunshine Coast's natural environment.

This includes planning, monitoring and research projects which are used to adapt and improve management approaches where required.

#### Engaging and supporting the Sunshine Coast community

Funding provided to not-for-profit community groups and supporting the Sunshine Coast community is important to maintain and enhance our region's environment.

Partnering and supporting the community assists council to achieve larger conservation outcomes which would not otherwise be possible.



Coast Council Environment Levy Annual Report 2016-2017

\$547K Environment Levy Partnerships

22 not-for-profit community group partners

## \$307K

74 Voluntary Conservation Agreement Partners protecting 1,153 hectares of habitat for flora and fauna

#### \$82K Land for Wildlife incentives

LAND FOR WILDLIFE

> 27,650 native plants on 135 LW

27 and holders

herbicides training and equipment 942 Registered Land for Wildlife members

339 working towards full registration

Managing 8,291 hectares of retained habital and restoring a further 795 hectares \$17K 7 Environment Levy Grants

Total project value \$16,375



# Buying, protecting and enhancing environmentally significant land

### Establishing our reserves

monthly bush regeneration completed on 11Environment

Levy reserves currently being established

#### \$358K establishing our new reserves

705 hectares

#### 1000 trees planted at Kirbys Road Environmental Reserve as part of a new offset planting site for flying fox habitat

The environmentally significant land acquired assists to protect habitat for native plants and animals, build landscape connections improving habitat functionality and consolidate environment reserves delivering management efficiencies.

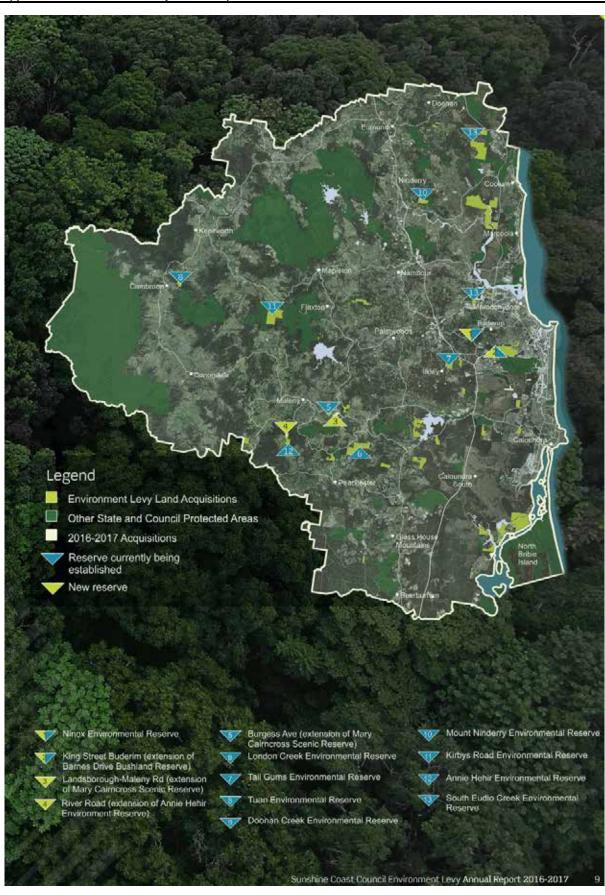
Environment Levy Land Acquisitions are guided by the Sunshine Coast Biodiversity Strategy 2010-2020 which aims to:

- protect and enhance our natural environment
- · expand on Council's conservation reserve network
- preserve native plants and animals

mage Powerful OwT/Ninox Strenua)

protect and enhance wildlife corridors.

In 2016-2017 Council spent \$3.7M on the land acquisition program and acquired four new reserves totalling 75 ha



## New Acquisitions in 2016 - 2017

#### Ninox Environment Reserve, Buderim

#### 27.5 hectares, \$1.225M Purchased October 2016

Mooloolah River Catchment

#### This property:

- expands the Buderim forest network to include some of the largest grey gum (Eucalyptus propingua) and pink bloodwood (Corymbia intermedia) trees on the Sunshine Coast
- provides habitat to rare and threatened plant and animal species, like the powerful owl (Ninox strenua).



#### Landsborough-Maleny Road, Maleny

26.8 hectares, \$1.225M Purchased April 2017

#### Mary River Catchment

#### This property:

- assists to protect and expand the existing habitat of the Mary Cairncross Scenic Reserve, including subtropical rainforest
- protects a number of habitat trees and patches of remnant vegetation and through future rehabilitation and offsetting activities can provide greater landscape connectivity.



#### King Street, Buderim 4.8 hectares, \$500K Purchased December 2016 Mooloolah River Catchment

This property:

- assists to consolidate the Barnes Drive Bushland Reserve
- protects priority rainforest vegetation (hoop pine vine forest)
- contains the vulnerable plant species 'toothed kamala' (Mallotus megadontus).



River Road, Peachester 16 hectares, \$700K Purchased June 2017 Stanley River Catchment

#### This property:

- expands the Annie Hehir Environmental Reserve to 61 hectares
- assists to protect the Stanley River habitat which supports endangered and significant species, including the glant barred frog (*Mixophyes iterates*), and the cascade tree frog (*Litoria pearsoniana*).

#### ORDINARY MEETING AGENDA Item 8.1.2 Environment Levy Annual Report 2016-2017 Appendix A Environment Levy Annual Report 2016-2017

# \$1.2M

total on-ground environmental projects

### Delivering on-ground environmental projects

The large scale rehabilitation projects assist with maintaining, enhancing and reconnecting our natural environment through rehabilitation of coastal dunes, removing weeds in road reserves, and restoring waterway vegetation across our major catchments.

#### Mary River Rehabilitation Project

45,000 plants

\$300K spent this financial year

- 2 km riparian habitat being rehabilitated
- helping the endangered Mary River turtle (Elusor macrurus), the vulnerable Australian lung fish (Neoceratodus forsten) and the endangered Mary River cod (Maccullochella mariensis)
- Complements the Mary River Threatened Species Community Recovery Plan

#### Pumicestone Passage Rehabilitation Project

Commenced 2013 4 year project – 4th year \$450K total funding available

6 km riparian habitat rehabilitated

6,500 trees planted and established

#### Maroochy River Rehabilitation project

Commenced 2015 4 year project – 2nd year

Commenced 2014 4 year project – 3rd year

#### \$40K

spent this year maintaining 11,000 trees planted



## Delivering on-ground environmental projects

#### In total \$770K was invested to protect and enhance our coastal foreshores.

12,000 native plants established within foreshore areas.

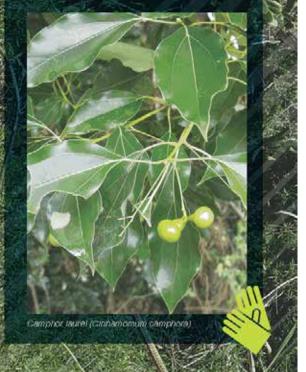
120 hectares targeted for weed control, including rocky headland areas, which requires specialist bushland regenerators undertaking rope access weed control works.

37 km of monitoring pandanus trees across the dunal system for the invasive jamella insect which causes dieback.

The coastal focussed projects improve resilience of native vegetation through weed management and revegetation in dunal reserves and aims to deliver on ground ecological restoration works across the region's dunal and rocky headland systems extending from Golden Beach to Stumers Creek. Woody weed and road reserve rehabilitation project

\$31K removing woody weeds in road reserves adjoining environmentally significant areas

Species removed included pine trees, camphor laurels and African tulip trees.



## Pest Management Projects

Coastal Fox Control Program

33 foxes removed from control area with surveys indicating a lower activity index for foxes across this area

30 sites over 14.5km of coastline

DNA monitoring introduced to monitor fox populations

## Feral Animal Control Program

Wild dog monitoring project continues to yield results and allows for data driven decision making

> 270 Indian myna birds removed

Deer monitoring indicates decrease in numbers at deer control sites

Research into home range and habitat use has continued with GPS tracked deer

### Building our knowledge

The Environment Levy invests in projects which are continually improving our knowledge of the Sunshine Coast's natural environment. This includes planning, monitoring and research projects which is used to adapt and improve management approaches where required.

## Fauna Monitoring Project

2016-2017 fauna surveys have added four bat species and two native reptile species not previously recorded in Council's environment reserves.

#### Bats:

- common bentwing (Miniopterus schreibersii)
- Beccarri's free-tailed bat (Mormopterus beccarii)
- Eastern forest bat (Vespadelus pumulus)
- greater broad-nosed bat (Scoteanax rueppellii)

Data collected has indicated that approximately 22 of the total number of bat species in Australia (>90) are found within Council's environment reserves.

Bats are good indicators of forest diversity and habitat complexity.

#### Reptiles:

- Scute-snouted calyptotis (Calyptotis scutirostrum)
- robust rainbow-skink (Carlia schmeltzii) (full page image)

otis (Calyptotis southostrum)

## Flying Fox Management Project

Outcomes from the Sunshine Coast Regional Flying Fox Management Plan 2016-2017:

- regular monitoring has continued at 5 urban flying fox roosts across the Sunshine Coast (this helps to guide future management)
- flying fox exclusion buffers have been created and/or expanded and maintained at 3 urban flying fox roosts via a range of techniques, including: vegetation removal, installation of canopy mounted sprinklers, community planting days (planting non-attractant flying fox plants) and by clearing understory weed vegetation.



# Knowledge guiding catchment management

#### The Environment Levy funded \$120K towards the Healthy Land and Water partnership

Through this partnership, a comprehensive and widelyrecognised waterways monitoring and reporting program, along with communication, education and motivation programs to deliver healthy waterways, is coordinated across the Sunshine Coast.

Each year, monitoring results are reported through a promotional 'Report Card'. It features:

- an ecological health grade for each catchment (measuring plant and animal growth, diversity of fish and water bugs, streamside vegetation and water quality); and
- a one-to-five star rating for social and economic benefits obtained from waterways. Results from 2016 showed that our local catchments were in good condition and were highly valued and used (see table)

Council and partners use the report card monitoring program to guide our catchment management efforts.

Catchmont	Ecological Health			Benefits rating - 2016	
	2015 Grade	2016 Grade	Description	Star Rating	Description
Marcoony River:		8		*****	Very Filgh
Mootoolain River	C+i	B	Good	****	Very High
Pumicastona Pessage	B+ (	8+		*****	: Very High
Stanley River	B	8	Cood	the designation	High

## Exciting find!

Coolum Community Native Nursery have discovered Wurmbea biglandulosa in the Environment Levy purchased, Doonan Creek Environmental Reserve. This species has not been recorded in South East Queensland since 1912. Closest known areas where this species is found is Stanthorpe and Northern New South Wales.



Image of Wurmbea biglandulosa courtesy of Fuschia Gollard

Below are some of our loved native animals that have been caught on cameras placed in and nearby our Environment Levy reserves. One image captured the long-nosed potoroo (*Potorous tridactylus tridactylus*). This small marsupial is listed as vulnerable in Queensland and is rarely seen in the wild.



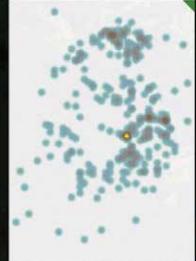
all possum (The

## Koala Conservation and Management Project

This project contributes to the conservation and management of Sunshine Coast koala populations. Key aims have been to deliver on actions from the Koala Conservation Plan, invest into koala research to inform management, and deliver onground action as a result of research findings.

## **Tracking Lizzie**

One koala, fondly named Lizzie (full page image) has been collared as part of the research into koala movement through the Maroochy Bushland Botanic Gardens and adjoining Environment Levy reserve network. The heat map below shows Lizzie's movement through the gardens.



Lizzie's locations: High occurance N Low occurance 87 Metres

## Snap shot of achievements:

## \$87k invested

16 koalas collared to date in the Witta/ Reesville and Tanawha areas. Findings show a healthy koala population in the Witta/Reesville area

#### Koala fodder plantation established at

**Pinelands Park** in Beerwah in partnership with Glass House Mountains Advancement Network group

119 council and private properties surveyed by the koala scat detection dogs through our partnership with the University of the Sunshine Coast

## Lizzie's stats

Total distance covered Feb - July 2017

Average distance per day

invitient Levy Annual Report 2016-2012

Shortest distance covered in a day

Longest distance per day

363m

13.4km

88m per day 11m

February to July 2017, Maroochy Botanic Gardens



# Engaging and supporting our community

Funding provided to not-for-profit community groups and supporting the Sunshine Coast community is important to maintain and enhance our region's environment. Partnering and supporting the community assists council to achieve larger conservation outcomes which would not otherwise be possible.

### Doonan planting day

Assisting to create food forests for our wildlife with 1200 endangered lowland rainforest trees planted by the community, including specific fruiting rainforest trees that are needed to support migratory birds such as the channel billed cuckoo.

### Australasian Bat Night

3rd Australasian Bat Night 130 community members

Presentations, activities and wildlife demonstrations

## Conservation Field Day 2016

105 volunteers 13 workshops Assisting to protect, enhance and improve our region's sustainability

105 volunteers from council's Community Nature Conservation Program, Centres for Conservation Learning and Partnerships, and Land for Wildlife landholders came together to learn new tactios to protect, enhance and improve our region's sustainability at the Conservation Field Day event

## Flying Fox Education Snap shots

Council presented at the National Flying Fox Forum on our Flying Fox Management Program Research partnership with the University of Melbourne into effective flying fox management 13 workshop presenters on the day provided a variety of topics and information enabling attendees to take away and apply to their own property or in council's reserves

 The event was held at the Environment Levy purchased London Creek Environment Reserve

Flyout event held at Emerald Woods with Nambour Pathfinders

## Investing in the community

The Environment Levy Partnerships Program supports the ongoing operation of community based environmental organisations. These groups deliver numerous projects and services including rehabilitation of degraded areas, monitoring of various animal species and waterways, removing weeds, litter collection, education and caring for our native wildlife.

### The Environment Levy supports:

## 942 Registered land for Wildlife members and

97 landholders \$304K of Landholder Environment Grants Total projects value

## \$964,094

\$547K Environment Levy Partnerships

22 not-for-profit community group partners

\$307K 74 Voluntary Conservation Agreement Partners protecting 1,153 hectares of habitat for flora and fauna 339 working towards full registration managing 8,291 hectares of related habitat

and restoring a further 795 hectares habitat for flora and fauna

\$82K Land for Wildlife incentives

27,650 native plants on 135 LEW

225 nest boxes on 48

27 landholders received herbicides training and equipment

## Engaging future generations

# 2 sites with 245 kids participating from 24 schools in 8 activities

The Environment Levy supported Sunshine Coast Kids in Action Environmental Projects Day engages kids in on-ground education and restoration work.

This program encourages kids to see themselves as informed confident and capable citizens, able to take up the challenges of actively participating in environmental protection and preservation. The day also introduced students to a range of community environmental heroes and mentors, who can assist schools on their learning journey.

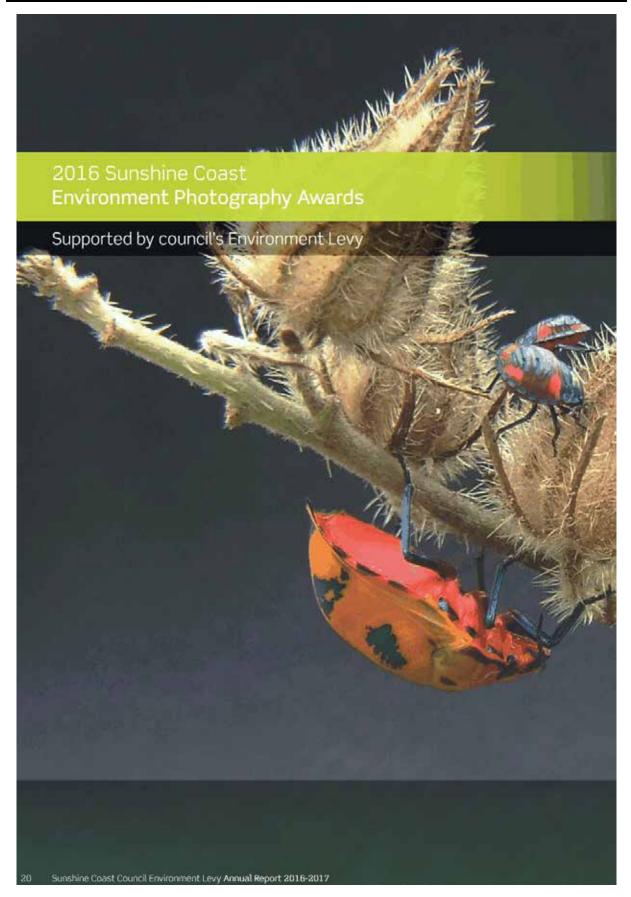
## Pest Action and Engagement Program

22 new rural landholders joined the weed control hire equipment program to control invasive pest plants.

8 public education displays held at Agricultural shows and other rural events.

# Weed control videos

developed to assist landholders with key land management issues.



From an impressive number of entries, 26 finalists were selected for the 2016 Sunshine Coast Environment Photography Awards. Winners were announced in September at the Maroochy Bushland Botanic Gardens.

Congratulations to the winners:

Nature Based Category Helen Debnam, Bugs every which way - Pelican Waters

Human Interaction with the Environment Category Nathan McNeil, the Big Whipper - Glasshouse Mountains

Junior Category Jack Ford, Mangrove forest - Maroochydore

People's Choice Award Nature Based Category: Shanna Bignell, Hidden jewel - Parklands Nambour Some of the other finalist images feature throughout this report.



