



Integrated, Innovative Natural Resource Management

~ Integrated Representation ~

Friends of Edwards Point
Bellarine Landcare Group
Friends of Buckley Park
Swan Bay Environment Association
Friends of Begola Wetlands
Ocean Grove Coastcare Group
Friends of Point Richards
Greening Australia
Conservation Volunteers Australia
Point Lonsdale Coastcare Group
Friends of Beacon Point
Clifton Springs Curlewis Coastcare
Group
Barwon Estuary Project

Friends of the Bellarine Rail Trail
City of Greater Geelong
Borough of Queenscliffe
Coastcare Victoria - DELWP
Parks Victoria
Corangamite CMA
Barwon Coast COM
Bellarine Bayside COM
Friends of the Ocean Grove Nature
Reserve
Drysdale Clifton Springs Community
Association
Geelong Sustainability Group
Geelong Field Naturalists Club



Breaking This Down

- 25 Network Member Groups
- and Organisations
- 2 Foreshore COM
- 2 Local Municipalities
- 3 Non Government Organisations
- 3 State Dept / Agencies
- 15 Community Groups inc, Friends of, Environment, Coastcare, Landcare, Other
- 3 New Community Groups Forming i.e Clifton Springs Curlewis Coastcare Group
- This equates to approximate 2000 + total members. Very important for advocacy, project development, etc



Lets Break This Down - Further

- The Integrated model has stood the test of time, 22 years in 2019.
- 4 FTE and 5 staff. The majority of the Program is funded through SLA'S, FFS, Grants are minor now

Examples

- BCN – has 30 projects across all areas of NRM
- This equates to approx. 25 fund sources
- The majority is made up of partnerships. Backdate approx. 10 years and we had 2 funded projects from Federal and State Gov.
- Project examples and partners include; Geelong Cemeteries Trust, Gardens For Wildlife, Summer By The Sea, City of Greater Geelong and Borough of Queenscliffe Strategic Partnerships, Victrack, Port Phillip Ferries and Officeworks Geelong
- BCN model for projects has diversified over time

Governance, Advice and Support

- Having partners such as Government and Non-government provides officer advice & support
- This includes HR and Finance Sub-Committee. Allows for independent advice, exposure to other business models and representation on these Committee's
- This provides support for staff as well as the Executive





Bellarine Catchment Network Action Plan

- I. Protect and enhance Ramsar wetlands and connecting wetlands
- II. Promote and apply Ramsar values and guidelines
- III. Protect, enhance and link remnant vegetation
- IV. Protect indigenous fauna and enhance existing habitats
- V. Facilitate community awareness and participation
- VI. Advocate for adaptive management to climate change
- VII. Rehabilitate and protect watercourses and improve water quality (in-stream & stormwater)
- VIII. Increase the adoption of sustainable agricultural and land management practices
- IX. Promote pest plant and pest animal control
- X. Be an active, engaged and well-supported network





Friends Of Point Richards

PORTARLINGTON

Drysdale Clifton Springs Community Association

Clifton Springs Curlewis Coastcare

Friends of Beacon Point

GEELONG

Geelong Field Naturalists Club

Geelong Sustainability Group

Friends of Bellarine Rail Trail

DRYSDALE

Friends Of Edwards Point

Bellarine Landcare Group

Bellarine Sec College and Bellarine
LC Nursery

Friends of Bellarine Rail Trail

LEOPOLD

LAKE
CONNEWWAREE

Swan Bay

OCEAN GROVE

QUEENSCLIFF

FO Ocean Grove Nature Reserve

Barwon Estuary Project

Ocean Grove Coastcare, Friends of Begola Wetlands

Friends of Bonnyvale Wetlands,

Swan Bay Environment Association

Queenscliff Community Indigenous Nursery

Point Lonsdale Coastcare

FO Buckley Park

LONG

Friends of Bellarine
Rail Trail

Bellarine Landcare
Group

Swan Bay

QUEENSCLIFF

Swan Bay
Environment Assoc





Fennell Infestation along BRT



Post weed control and revegetation





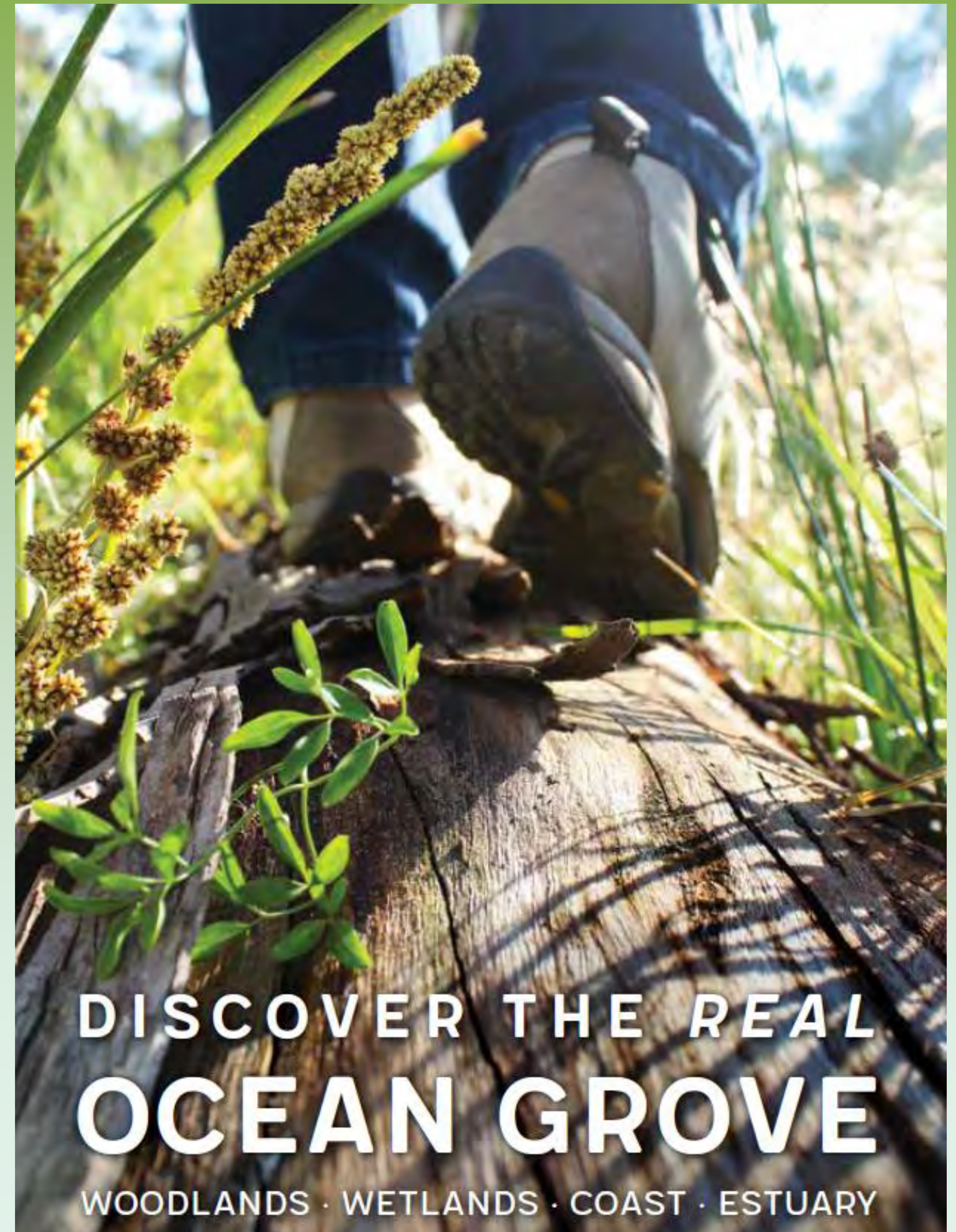
Dog Beach Queenscliffe Pre – Erosion control and restoration works 2007



Post– Erosion control and restoration works 2018



Community Resources, Initiatives and Support





NANKEEN KESTREL

A slender falcon that hovers above ground, then dives down to catch prey, with its sharp talons.

Introduction

This environmental booklet is a result of increased awareness, understanding and appreciation of the flora, fauna, natural and cultural heritage values of the Clifton Springs area.

In 2011 a project was started to address woody and invasive weed species in the Dell. This led to a heightened awareness of the indigenous flora values in this area. Plant species that are localized to this area and are not seen in other parts of the Bellarine were identified and an agreement was set out to protect and enhance these values.

Drysdale Clifton Springs Community Association and Bellarine Catchment Network led the project.

Community education and involvement, weed control, revegetation activities and ultimately a greater appreciation of the area, are features of the project. It is hoped that this booklet continues the love for this area and inspires new initiatives and groups forming, to help protect and enhance the Dell, Clifton Springs and Beacon Point areas.

New Species identified

BURRUNAN DOLPHIN

Only recently classified as a new dolphin species, the Burrunan dolphin, *Tursiops australis* (Charlton-Robb et al. 2011), resembles bottlenose dolphins, but also show numerous distinct differences; approximately 2.5 m in length with distinct tri-coloured pattern, from dark grey (brush-stroke pattern) on the upper side of the body, a paler grey midline and cream underside. The Burrunan has broad tail flukes, a prominent rounded head and a short stubby rostrum (nose).

Dr Kate Charlton-Robb, Founding Director and Principal Researcher with the Australian Marine Mammal Conservation Foundation (AMMCF), applied to have the Burrunan dolphin formally recognised as 'threatened' under the Victoria's Flora and Fauna Guarantee Act (1988), this was successfully approved in June 2013 With an effective population size of less than 100 (Charlton-Robb et al. 2015), Port Phillip and Corio Bay is an important region for these amazing dolphins.



COASTAL PLANTS OF THE BELLARINE PENINSULA

Bellarine Catchment Network



INLAND PLANTS OF THE BELLARINE PENINSULA

Bellarine Catchment Network



Indigenous Wildlife of the Bellarine Peninsula





GARDENS — FOR — WILDLIFE

OCEAN GROVE

Gardens for Wildlife encourages residents to plant indigenous species in part of their garden to provide suitable habitat for local wildlife.

Register now to receive a free, one-hour garden assessment to advise on plants and features that will attract wildlife to your garden.

We will be holding assessments in your area on

To register for a free assessment go to:
environmentbellarine.eventbrite.com

For further information contact us on:
email: lachlan.bcn@environmentbellarine.org.au or call Lachlan on **0422 031 883**



Ocean Grove & Point Lonsdale Surf Life Saving Club – Nippers Program





Summer By the Sea Program

Report and Results Compiled March 2015 Compiled by BCN – Matt Crawley



Funded and Supported By

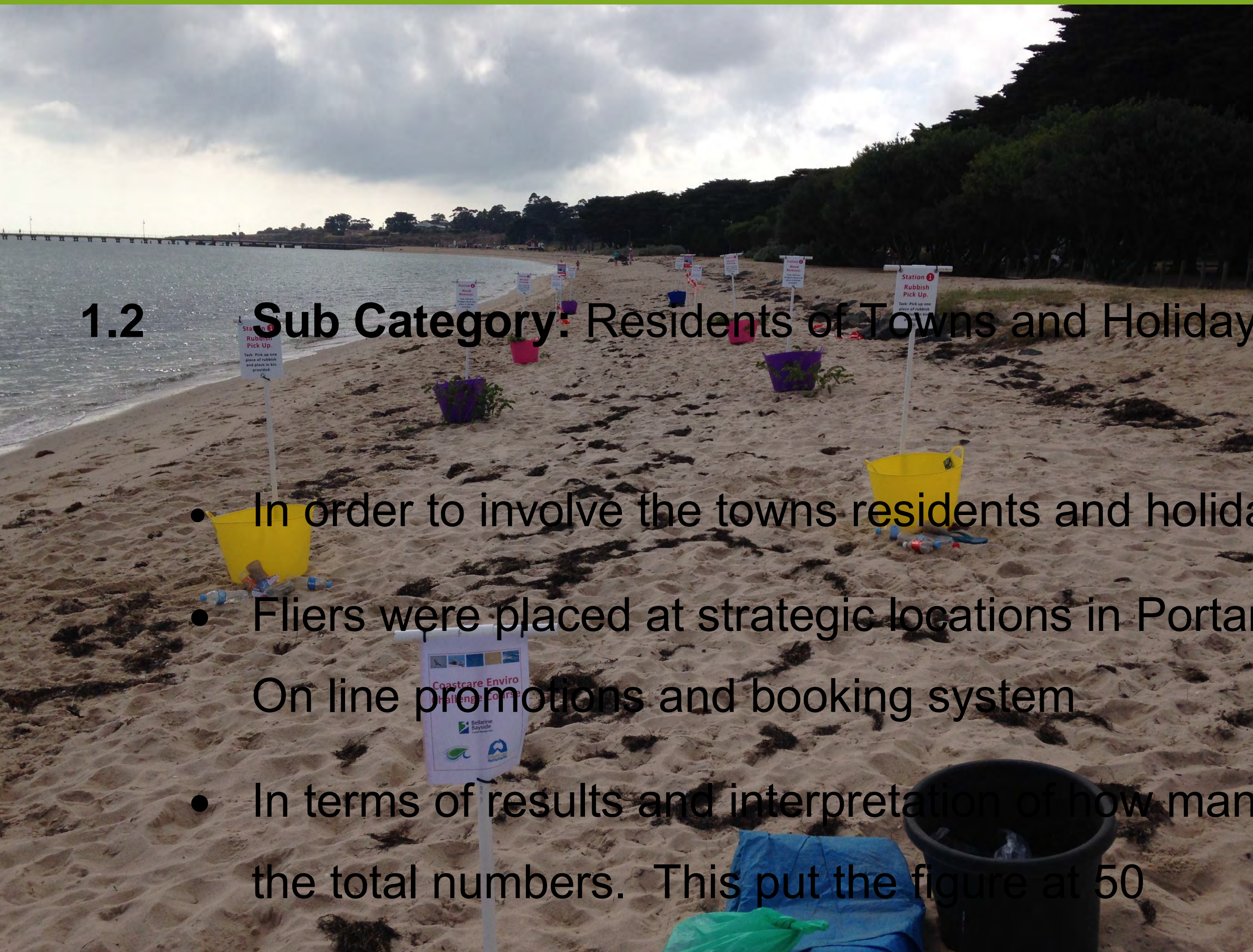


- Total caravan park and camper involvement is estimated at 80 children and adults.

1.2 Sub Category: Residents of Towns and Holiday Makers:

- In order to involve the towns residents and holiday makers that reside in holiday rentals and towns accommodation a different approach was taken
- Fliers were placed at strategic locations in Portarlinton, Ste Leonards and Indented Head. Added to this promotion through adverts in local papers and the Summer by the Sea On line promotions and booking system
- In terms of results and interpretation of how many people participated in tis category, it is hard to establish. However it is anticipated that the figure was approximately a third of the total numbers. This put the figure at 50
- Total number of participants across all areas total 150.

L to R: Coastcare Environment Challenge Course at Portarlinton, St Leonards Community Engagement, Rockpool Ramble and Beachcomb Indented Head



Bellarine Schools Environment Program



Bellarine Catchment Network ~ Schools Environment Program

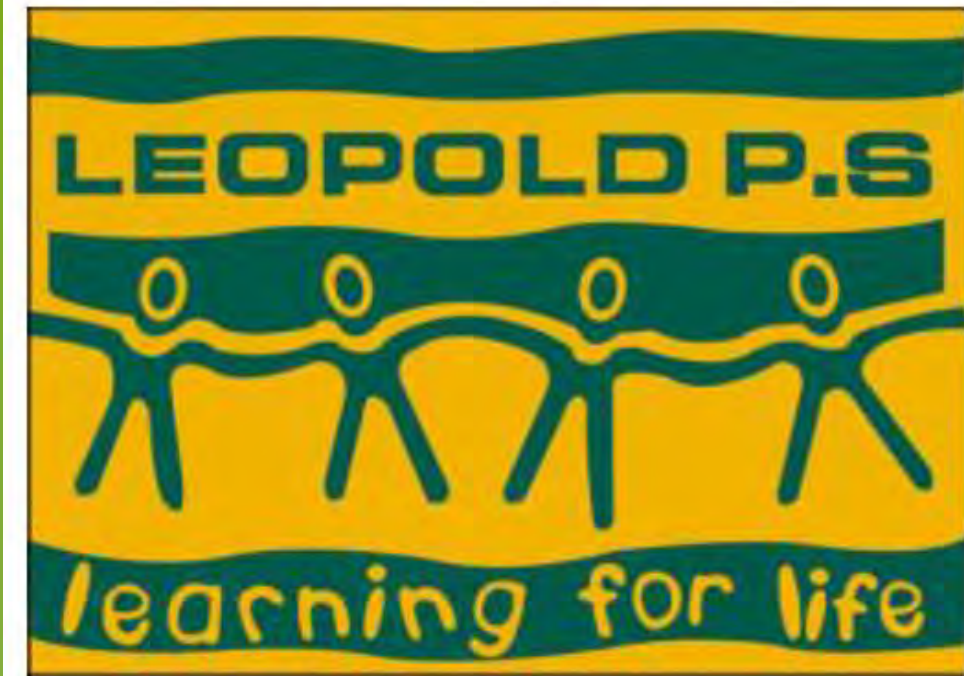


School	Program Est	Project and Site	Project Partners	Annual Student No	Accumulated Student No
Bellarine Secondary College (BSC) Yr 8 Environment Day	2005	BSC Junior Campus – multiple lessons and classes, both on and off campus	Jointly led with BCCOM. Also, BCN, MFDC, CCMA, PV, CoGG, BLG, etc	200	2000
BSC Yr 12 Outdoor Ed	2012	Narrows QC – Woody weed removal, study and research	BCN, BoQ, SBEA	50	200
Clifton Springs PS	2012	The Dell – Environment Day reveg, restoration and enviro education	BCN, CoGG, DCSCA, CCMA,	100	200
Drysdale PS	2012	The Dell – Environment Day reveg, restoration and enviro education	BCN, CoGG, DCSCA, CCMA,	100	200
Star of the Sea PS	2005	Bonnyvale Wetlands – Wetlands Environment day, revegetation, WaterWatch, e	BCN, CCMA, CoGG,	50	500
St Aloysius PS	2015	Swan Bay Caring for Swan Bay Environment Day	BCN, BoQ, CCMA, PV, SBEA	100	200
St Ignatius Secondary College	2015	The Basin Drysdale	BCN, CoGG, BLG	30	60
Ocean Grove PS	2009	Ocean Grove Coastcare Day – Ocean Grove Foreshore, Challenge Course, Fauna Talk, Leaf Hopper Release	BCN, OGCC, BCCOM	90	540
Point Lonsdale PS	2014	Point Lonsdale Foreshore Caring for the Bay Day, Coastcare Challenge Course, Revegetation, Connies Cards	BCN, BoQ, PLCCG	400 in 2015 90 annually	490
Queenscliffe PS	2010	Bellarine Rail Trail Revegetation Fellows Rd	BCN, SBEA, BoQ	10 students annually	50
Christian College Geelong	2012	Narrows QC – Woody weed removal, study and research	BCN, BoQ, SBEA	150 in 2015 50 annually	300
St Leonards PS	2005	Leaf Hooper Growing and Release New Program with BBCOM Foreshore Coastcare Day	BCN, BBCOM, PV, FOEP		200
Portarlington PS	2016	New Program with BBCOM Foreshore Coastcare Day	BCN, BBCOM, FOPR	80	
Brighton Grammar	2012	Narrows QC – Woody weed removal, study and research	BCN, BoQ, SBEA	50	200
Gordon Tafe	2009	Queenscliffe Moonah Woodland Restoration and revegetation	BCN, BoQ, SBEA	30	180
Deakin University – Coastal Management Degree Course	2008	Catchment and Coastal Tour	BCN	60	420
St Olaf University America	2008	Catchment and Coastal Tour	BCN, MFDC	50	250
Total				1,140	5,990





Leopold Primary School



Bellarine Rail Trail Environment Day



The Leopold Primary School Bellarine Rail Trail Enviro day was held on the 13th September 2018. Sunny Spring conditions greeted the 90 Grade 3 students for their activities. The Friends of the Bellarine Rail Trail welcomed the students to the site they prepared and explained their role on the Trail.



Staff from Bellarine Catchment Network and Bellarine Landcare conducted activities including revegetation, litter games, flora and fauna walks.



Left to Right: Students Eliza Morrissy & Jazmine Hickey Showcase their Wattle Bracelets, Felicity conducts Flora Walk

Groups and Organisations	Activities	Figures
<ul style="list-style-type: none">- Bellarine Catchment Network- Friends of Bellarine Rail Trail- City of Greater Geelong- Bellarine Landcare Group- Leopold Primary School	<ul style="list-style-type: none">• Revegetation• Weed Control• Flora and fauna walk, talk and interactions• Litter and Fishing Games	<ul style="list-style-type: none">• 90 Students• 4 Teachers• 2 support staff• 2 BCN Staff, 1 BLG staff, 1 FOBRT volunteer• 2 Parents• 300 plants revegetated• 5 Activities conducted



BIODIVERSITY IN YOUR BACKYARD 2018

VIP INVITATION

art and the environment

You are invited to share an evening of art and creativity as we celebrate local artists and their connections to the Bellarine's natural environment. Featuring a diversity of art disciplines, the evening will showcase each artist's creations while they share stories of the artistic journey behind their works.

Date: Thursday 19th April 2018
Time: 7.00pm
Venue: Potato Shed, 41 Peninsula Drive, Drysdale
R.S.V.P: Matt Crawley 0417 231 853
or matt.bcn@environmentbellarine.org.au
Please reply before 5th April 2018

Browser address bar: <https://www.youtube.com/watch?v=aIW8zfjAXd0>

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YouTube AU

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BIODIVERSITY IN YOUR BACKYARD

FLORA

Landcare Bellarine

Bellarine Catchment Network

Biodiversity in your Backyard - Flora 2013

BellarineCatchmentNetwork BellarineLandcare

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Published on Jan 23, 2014

Up next

Autoplay ☒

Native Nurseries on the Bellarine Peninsula
BellarineCatchmentNetwork BellarineLandcare
528 views
6:10

Land Restoration and Landscape Change in Swan Bay Catchment.
BellarineCatchmentNetwork BellarineLandcare
713 views
7:08

Motorcycle Fail Win Compilation - Funny Videos
MOTO TIME
Recommended for you
11:09

Bats on the Victorian Bellarine Peninsula
BellarineCatchmentNetwork BellarineLandcare
610 views
4:19

One on One with Jos Thone - World Champion Pigeon Racer.
Streamline Media
Recommended for you
1:13:49

Our 3DOG camping OffRoader setup
Wim de Roos
Recommended for you
14:15

Taskbar: Windows, Chrome, File Explorer, Outlook, Edge, Word, PowerPoint, OneDrive, Teams, Settings, Network, Volume, 11:46 AM 27-Apr-16

- <https://www.youtube.com/watch?v=aIW8zfjAXd0>

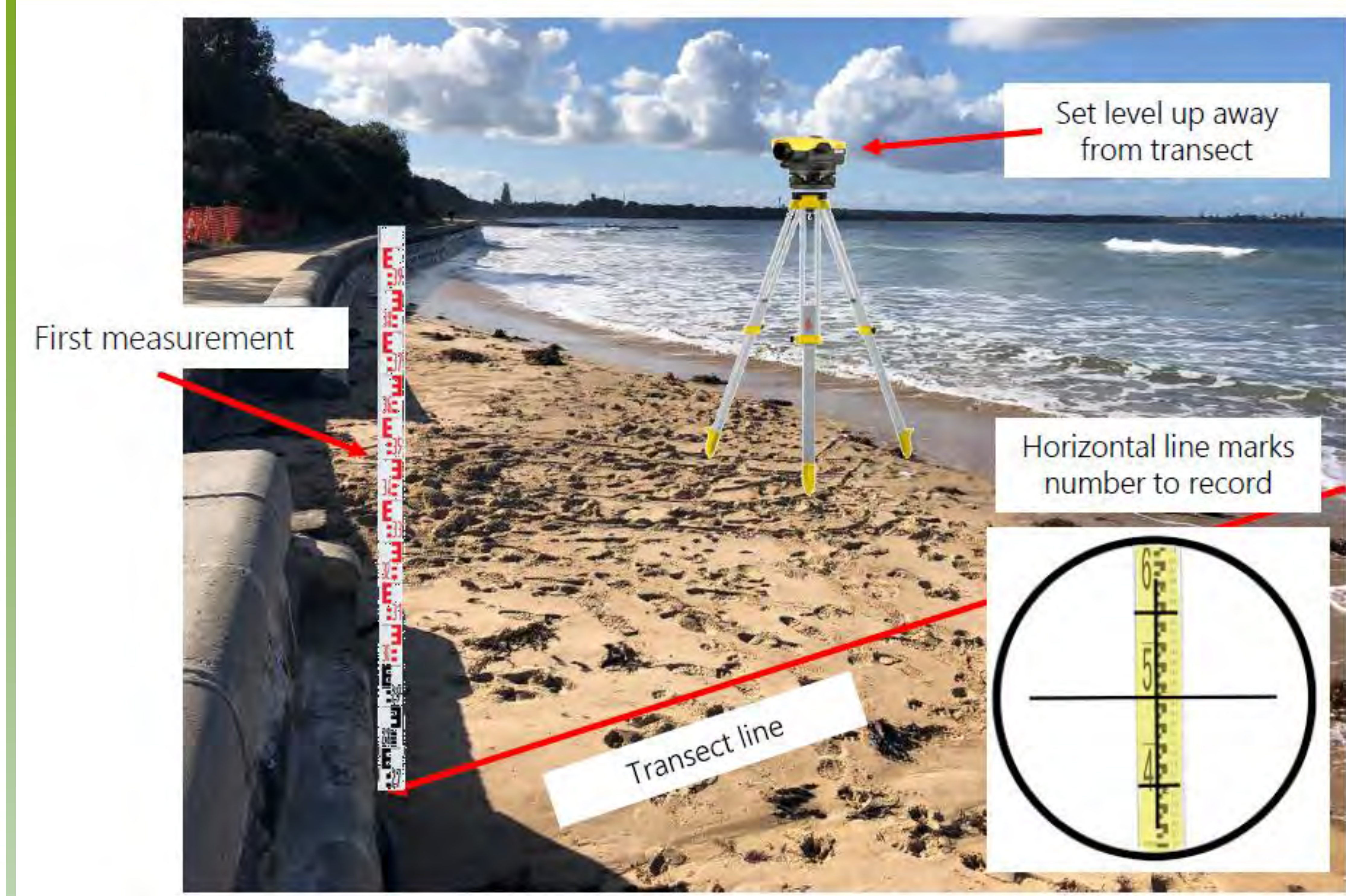




Bellarine Community Environmental Works Trailer

POINT LONSDALE

SAND MONITORING MANUAL





CARING FOR OUR BAYS



LEAVE NOTHING BUT FOOTPRINTS

1. Support the implementation of best practice litter prevention projects
2. Develop and support partnerships to increase the capacity of organisations to implement litter prevention programs
3. Improve personal responsibility for litter disposal and prevention.
4. Improve the amenity of public spaces that impact upon the water quality of Corio and Western Port Phillip Bays.

Caring For Our Bays

Litter Hotspots



Site Locations 2018/19

1	Hovells Creek
2	Cuthbertsons Creek
3	Cowies Creek Seagull Paddock
4	St Helens Pier
5	Cunningham Pier
6	Limebureners Boat Ramp
7	Clifton Springs Boat Ramp
8	Point Richards
9	Portarlington Pier
10	St Leonards Pier
11	Burnt Point
12	Queenscliff Ferry Terminal
13	Officeworks Geelong
14	Indented Head Wrathall Reserve
15	Cowies Creek Peacock Avenue

Be a local hero

Put your rubbish in a bin

Helpful Frogs

Frogs are an indicator species that help to show when pollutants threaten a local ecosystem.

Food Chain Plastic

Plastics are not biodegradable. They break down into smaller pieces that can be consumed by fish, which are eaten by humans.

Most rubbish reaches seas via waterways and

80%
originates from
urban sources.

Growling Grass Frog

Litoria raniformis

Growling Grass Frogs live amongst reeds, sedges and rushes growing beside slow flowing freshwater sources such as swamps and wetlands. Their distinctive call of several short grunts followed by a long deep 'growl' can be heard during the warmer months. They feed mainly on ground dwelling insects, but are also known to eat lizards, snakes and other frogs.

Small Starts

Like all frogs, they start life as tadpoles. Growling Grass Frog tadpoles can grow to 10cm in length before turning into frogs.

Tadpoles play an important part in the food chain for many species including fish.

Stealth Hunters

They are not active hunters, instead they sit and wait for their prey to come to them.

Did you know?

The Growling Grass Frog is a threatened species under the Victorian Flora and Fauna Guarantee Act 1988

Help us to protect our unique local species, keep Geelong and the Bellarine clean.

www.environmentbellarine.org.au



Australian Fur Seal

Arctocephalus pusillus

Australian fur seals are acrobats of the ocean, but they also need land to rest on. A very social animal often seen playing with each other.

Inquisitive by nature, rubbish is seen as a toy often leading to life threatening injuries through entanglement or ingestion. They feed on a variety of fish, squid and octopus. Seals are a top order predator of Port Phillip and Corio bay.



Deep Divers

The Australian Fur seal can dive to depths of 200m to catch fish and squid.



Not a true seal

Fur seals are different from true seals (such as Elephant Seals) because they have external ears and can use all four limbs to move across land.

Be a local hero

Put your rubbish in a bin

Wire worry

Discarded fishing line is one of the biggest threats to seals. They become entangled and die.



Litter Magnets

Litter attracts more litter. When an area looks dirty and uncared for, people tend to litter more. In contrast, people are more reluctant to litter clean areas.

Did you know?

95% of the litter on beaches comes from suburban streets through the stormwater system.

Help us to protect our unique local species, keep Geelong and the Bellarine clean.

www.environmentbellarine.org.au





Burruran Dolphin
Thursipia australis

Burruran Dolphin, a species of Bottlenose dolphin, was classified as a new species in 2011. With an estimated population of 100 individuals in Victoria, around 100 of these live in Port Phillip and Corio Bay.

Native Name
Burruran is an Aboriginal name meaning "large sea fish" or "the porpoise fish".

Species affected
There are 94 species of dolphin found in the world. They are all affected by litter.

Be a local hero
Put your rubbish in a bin

GEELONG Sustainability Victoria Coastcare

Help us to protect our unique local species.

Fishing Waste
Cigarette butts and fishing waste such as bait bags and fishing line represent a significant threat to the marine life in Port Phillip Bay. There are some of the most commonly found litter items in Port Phillip Bay. Cigarette butts are not biodegradable and cause significant harm to our marine life. Please bin your butt.

Litter Magnets
Litter attracts more litter. When an area looks dirty and cluttered, people tend to litter more. To prevent people from littering in these clean areas, we need to keep them clean.

Did you know?
80% of the litter on beaches comes from authorities, mostly through the wastewater system.

Help us to protect our unique local species, keep Geelong and the Bellarine clean.
www.environmentbellarine.org.au

GEELONG Sustainability Victoria DGE

GENTS

GEELONG
FAULTS
5272 5272
QUOTE NUMBER
161

Burrunan Dolphin

Tursiops australis

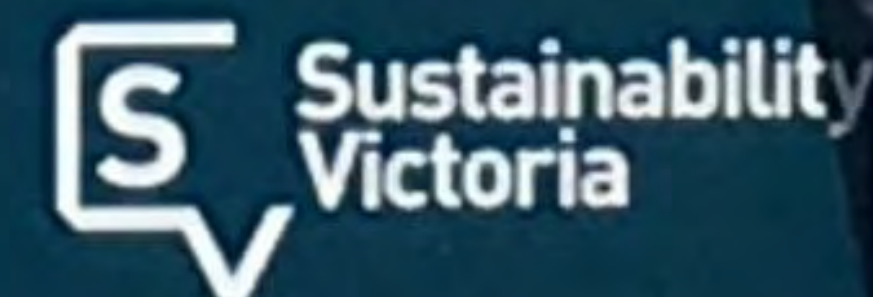
Burrunan dolphin, a species of Bottlenose dolphin, was classified as a new species in 2011. With an estimated population of 150 individuals in Victoria, around 100 of these live in Port Phillip and Corio Bay.



Native Name

Burrunan is an Aboriginal word meaning "large sea fish".

Be a local hero
Put your rubbish in a



Testing the Info – Informs Management Actions



Clean ups and Litter Counts

- St Leonard's Underwater.
- Over 80kg of litter was removed including 400m of fishing line.
- Fifteen participants turned up middle of winter.
- 11 degree water.
- 100's AA batteries were commonly found.



Be a local hero...



Australasian Gannet

Growling Grass Frog

Australian Fur Seal

Banjo Ray

Weedy Seadragon

Eleven-armed Seastar

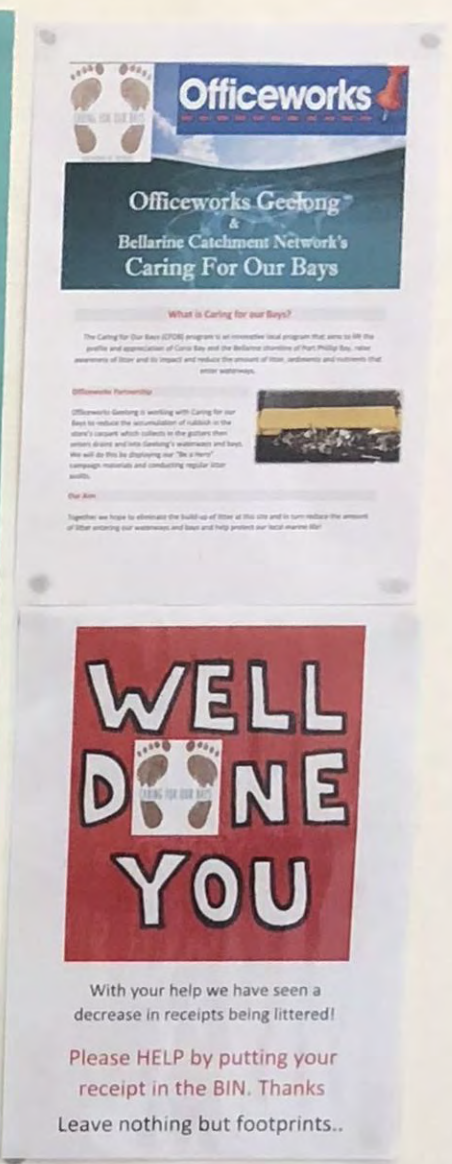
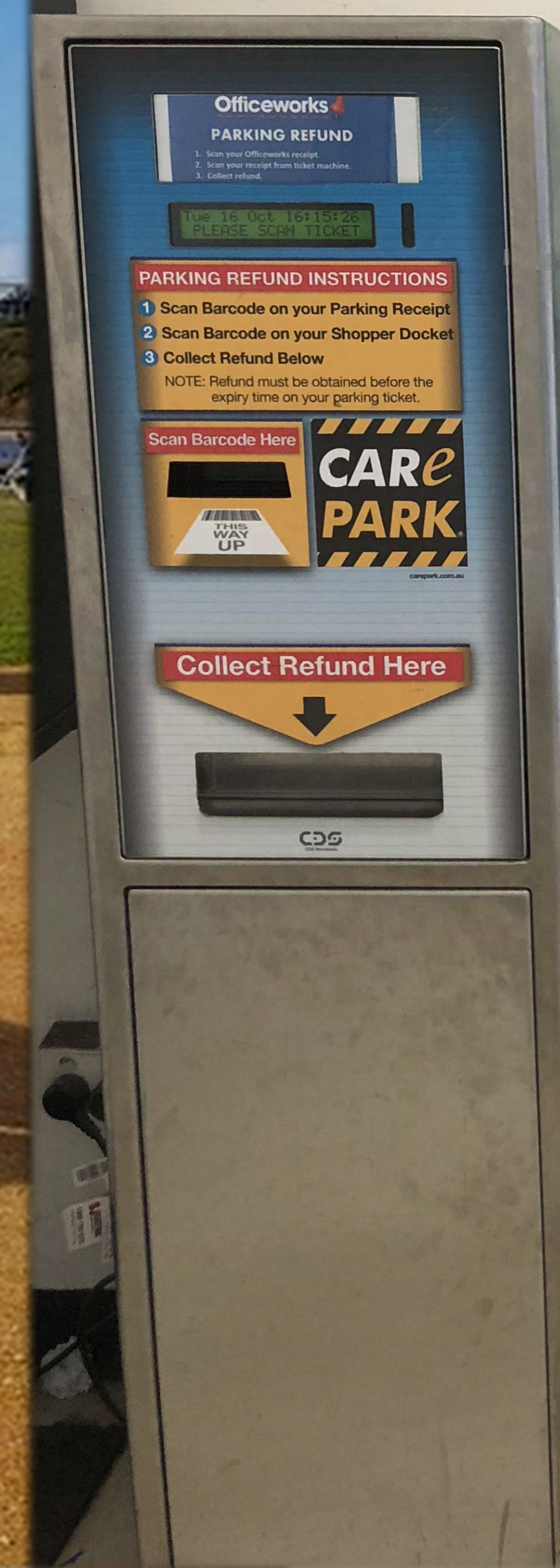
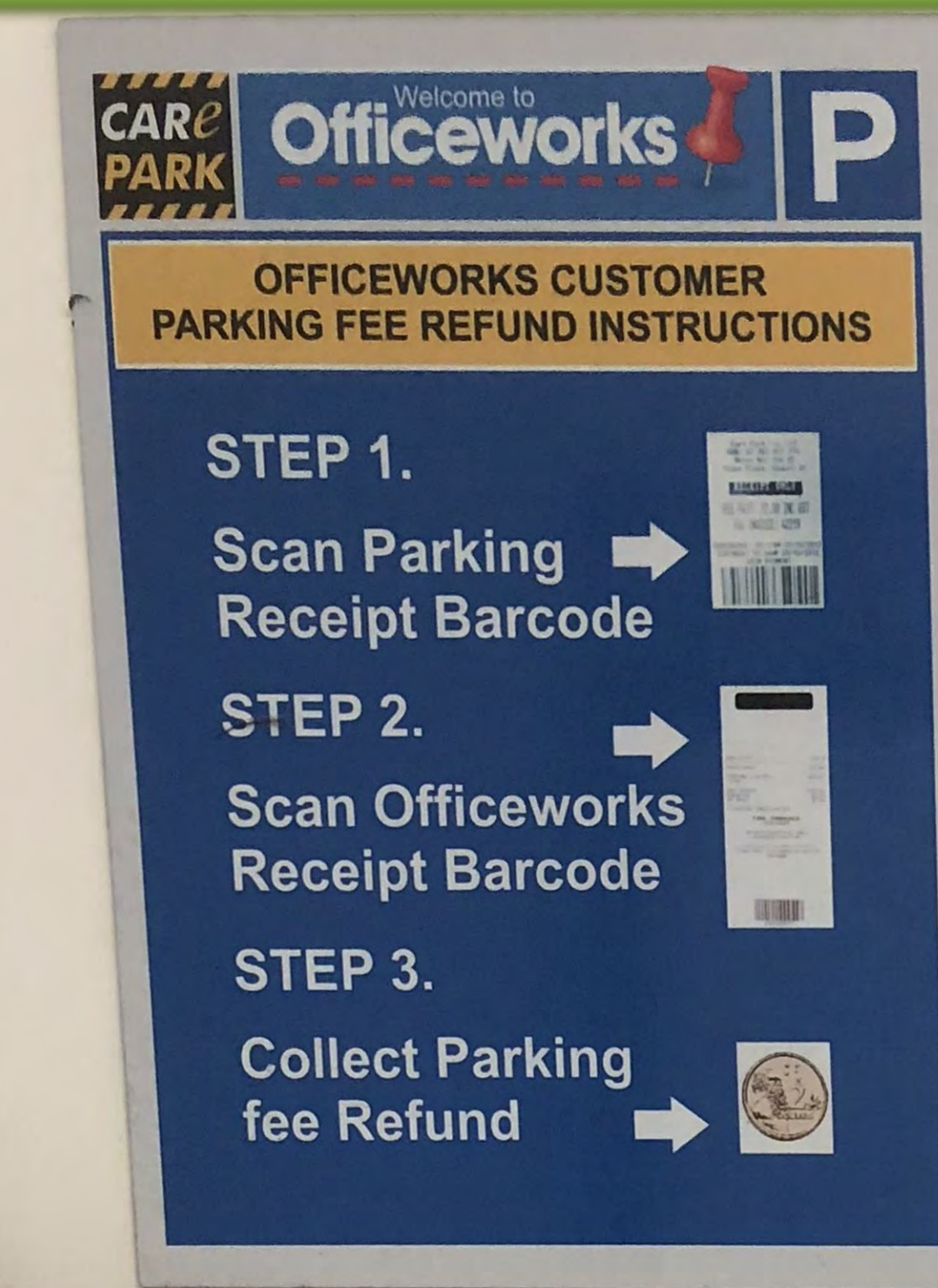
Angasi Oyster

Burranun Dolphin



Business Partnerships





Festivals and Events

Including the following:

- Queenscliff Music Festival
- Portarlington Mussel Festival
- National Celtic Festival
- Pakofest
- Festival of the Sails Geelong
- Geelong Ironman Festival
- Wreck to Reef Swim
- Rip View Swim
- Moorpanyul 1000 Swim
- Geelong Ironman
- Portarlington Gatorade Triathlon
- North Geelong SKART Festival (Art and Skating)
- Festival of the Sea





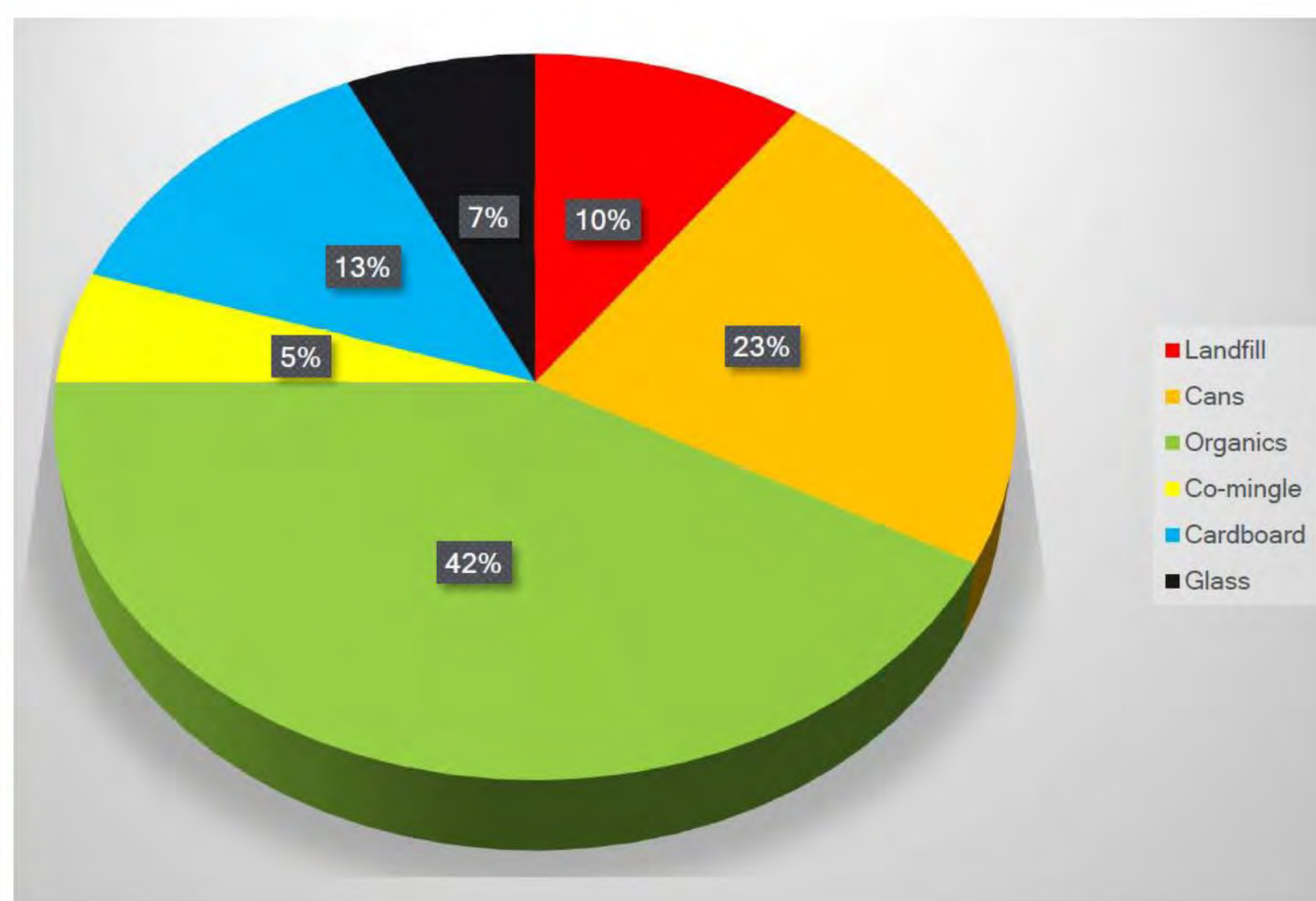
Queenscliff Music Festival

CFOB Hero Bin Hubs and BCN Stand



The Queenscliff Music Festival was held over three days from the 23rd-25th November. The festival was a sold out event with 16000 people attending. Bin hubs were in place which featured the CFOB Hero species and Green Team monitors from QMF, supplemented by volunteers from BCN and Geelong Sustainability were positioned to ensure rubbish was placed in the correct waste stream. 90% of waste was diverted from landfill due to the QMF model and use of compostable crockery, cutlery and cups at all vendors and no single use plastic items were available at the festival. In addition, BCN had a stand in the family area of the festival where many great environmental conversations and discoveries were made by the children and their parents. Bellarine Catchment Network conducted activities including a beachcomb table, colour-in a Hero

poster, plant propagation, litter and fishing games. Our keep cups were again available for loan to reduce waste.



Left to Right: Hero species bin hubs and volunteer bin fairy monitors. 90% of waste diverted from landfill.

Groups and Organisations	Activities	Figures
<ul style="list-style-type: none">Bellarine Catchment NetworkQueenscliff Music FestivalB-AlternateGeelong SustainabilityDiversitatBorough of QueenscliffeSwan Bay Environment Association	<ul style="list-style-type: none">Hero bin hubsHero postersBeachcombCoastcarePropagationLitter gamesFishing games	<ul style="list-style-type: none">16000 Attendees200+ engagements with families60 bin volunteers7 BCN Staff8 B-Alternative Staff5 Diversitat waste crew



Table 1. Weight (kg) of resources/waste sent to their specific handling streams, post Queenscliff Music Festival.

Resource/Waste Stream	Kg
Organics	1890
General	1000
Glass	800
Cardboard	745
Cans	300
Co-mingled	260



Clockwise: Beachcomb & interpretation, BCN staff at bin hubs, CFOB staff with keep cups and poster pin ups, Waste diverted from landfill to other use streams.



GEELONG
SUSTAINABILITY



Swan Bay
Environment Association Inc.



Sporting Events and Reducing Waste

Rip View Swim Point Lonsdale



Wreck to Reef Swim Indented Head



20,000+ items

Audits conducted by the Caring For Our Bays partners and volunteers during 2018 collected over 20K items of litter from the Geelong/Bellarine region.

4 years

The Caring for Our Bays project has been running for 4 years and is making a difference to our local environment.

80% Reduction

Our audited sites have seen a reduction of the amount of litter found at these sites.

Litter



48% butts



15% plastics

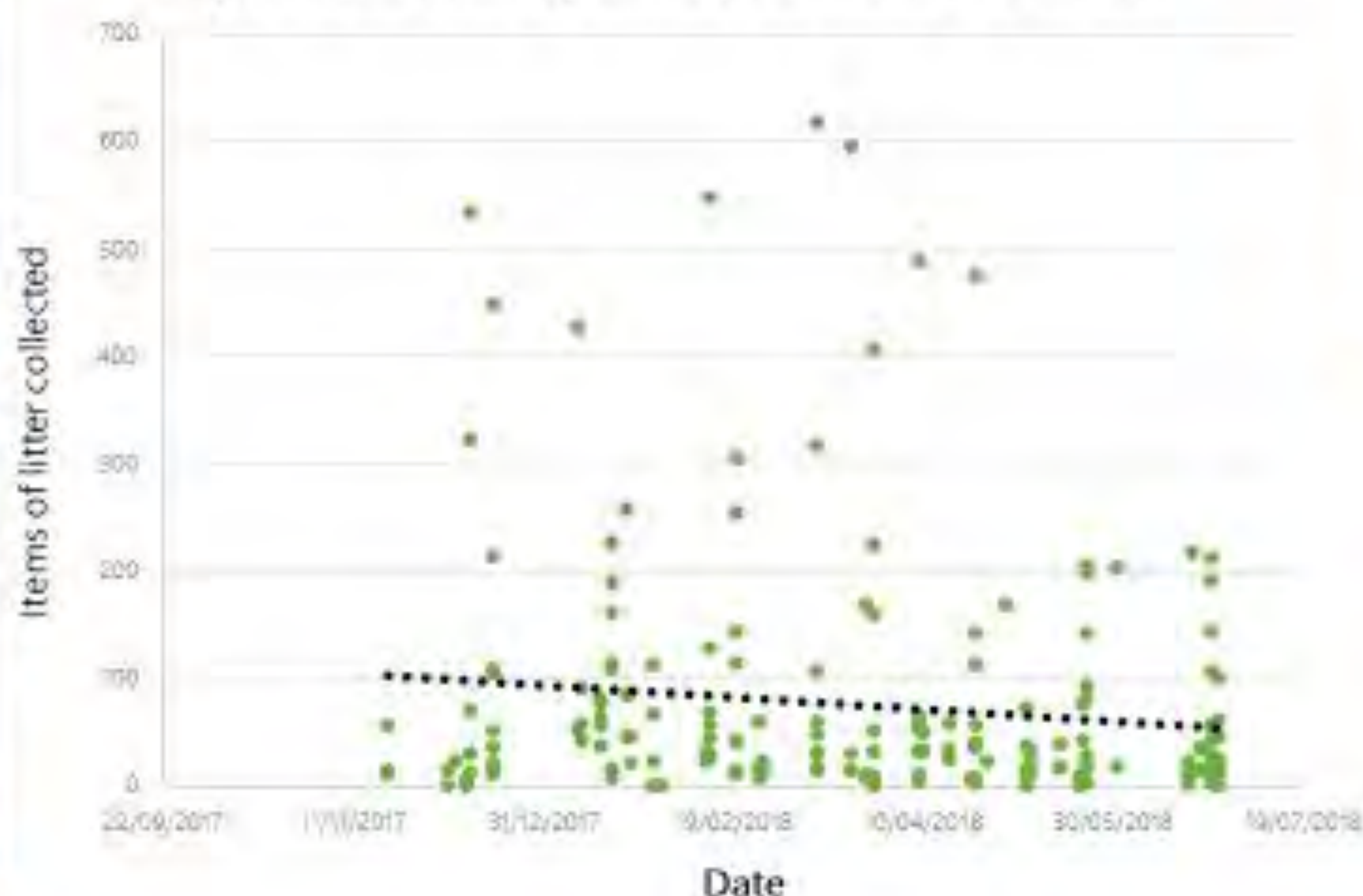


13% fishing



5% glass

Figure: Amount of litter collected at all sites



1 million+ people

An estimated 1 million people have seen our bin stickers, posters, cards or drain stickers. These all remind people of the biodiversity in our bays.

75% Non-Recyclable

More than 21,000 of the items that were found were not recyclable.

Participation

100+ auditors, 20+ land managers and organisations, 20 community groups and 30 school groups. Volunteers undertook 300 litter audits.





Advocacy and And New Challenges



LONG

PORTARLINGTON

DRYSDALE

LEOPOLD

LAKE
CONNEWWAREE

Swan Bay

OCEAN GROVE

QUEENSCLIFF



Friends of Point Richards

PORTARLINGTON

Drysdale Clifton Springs Community Association
Clifton Springs Curlewis Coastcare

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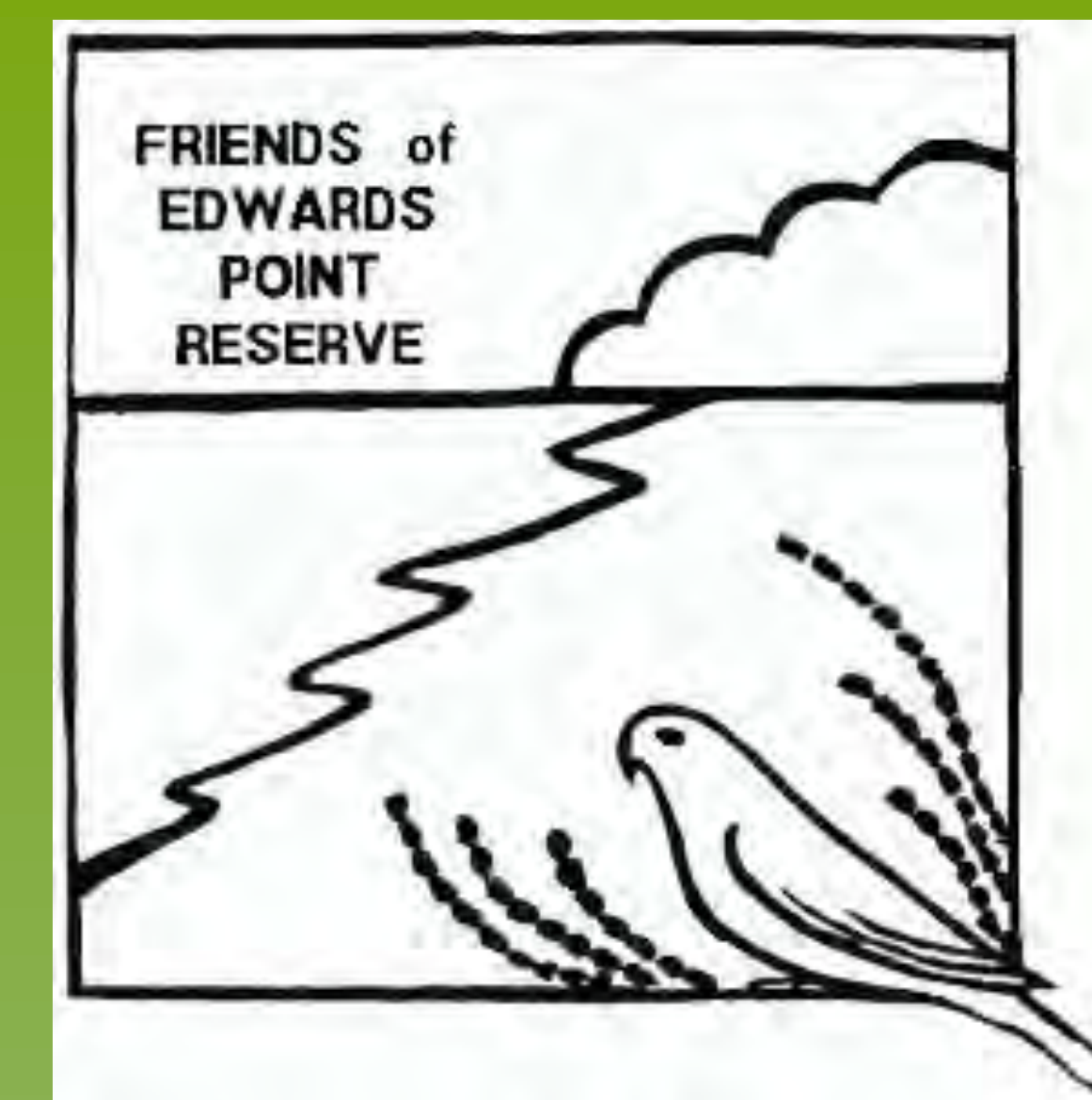
QUEENSCLIFF

FO Ocean Grove Nature Reserve
Ocean Grove Coastcare
Friends of Begola Wetlands

Swan Bay Environment Association
Queenscliff Community Indigenous Nursery
Point Lonsdale Coastcare
FO Buckley Park

Home Sweet Home







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