

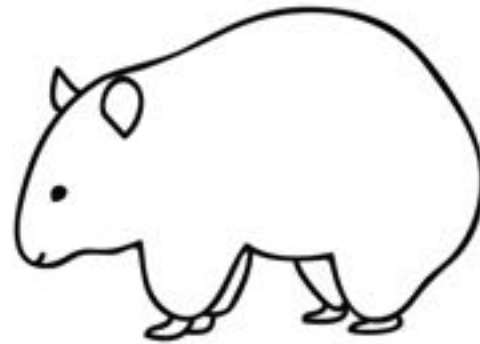


IMPACT AND INSPIRATION WHAT ARE OTHER YOUNG PEOPLE DOING?





ELLIOT CONNOR



STORY SENSE





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NO HEAD
IN SAND
ALLOWED

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6 YEARS OF VULKANDANCE
FRONTAL TREATS (SERRITO)
(ALSO POSTAL)
233 OF HONOLULU
GARDEN CO

odora
CHSHAIN
INK.
LEAF
MARC
ALEXAN
SOMM
RETRO
& MA

YRBY
DATE BY 22



BAIT

*Intrepid
Landcare*



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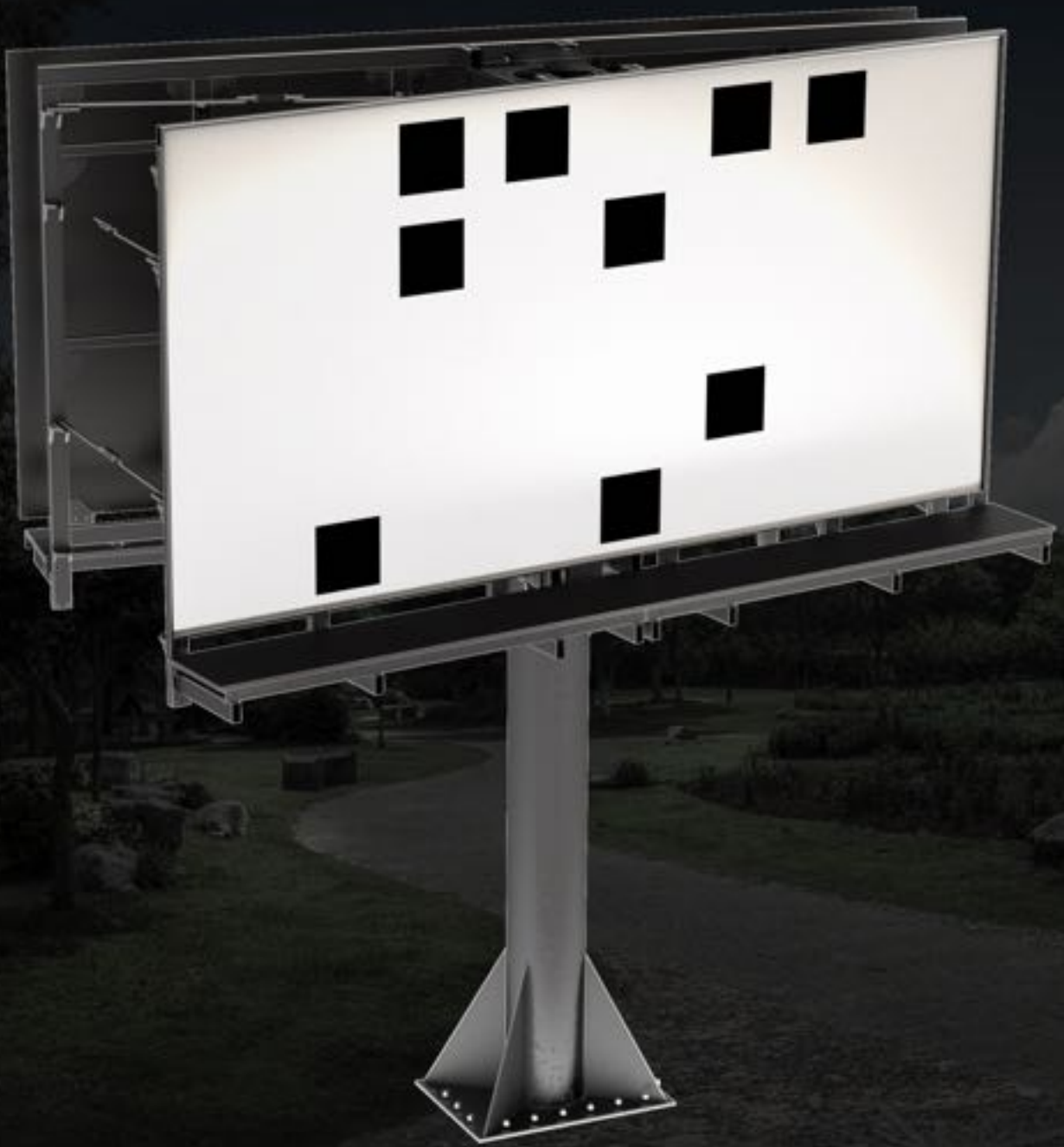
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@humannaturecast



@humannaturecast



@nature_podcast

“We’re all animals...”



N Human Nature

with
Elliot Connor

**THAT'S
NOT
CANON**
PRODUCTIONS

The scene is set. Absolutely nothing is out of order. Then a normal person with a normal



1 cent Challenge



Shutter Speed

Aperture

ISO







SPENCER HITCHEN





Photo by
Bob Walpole

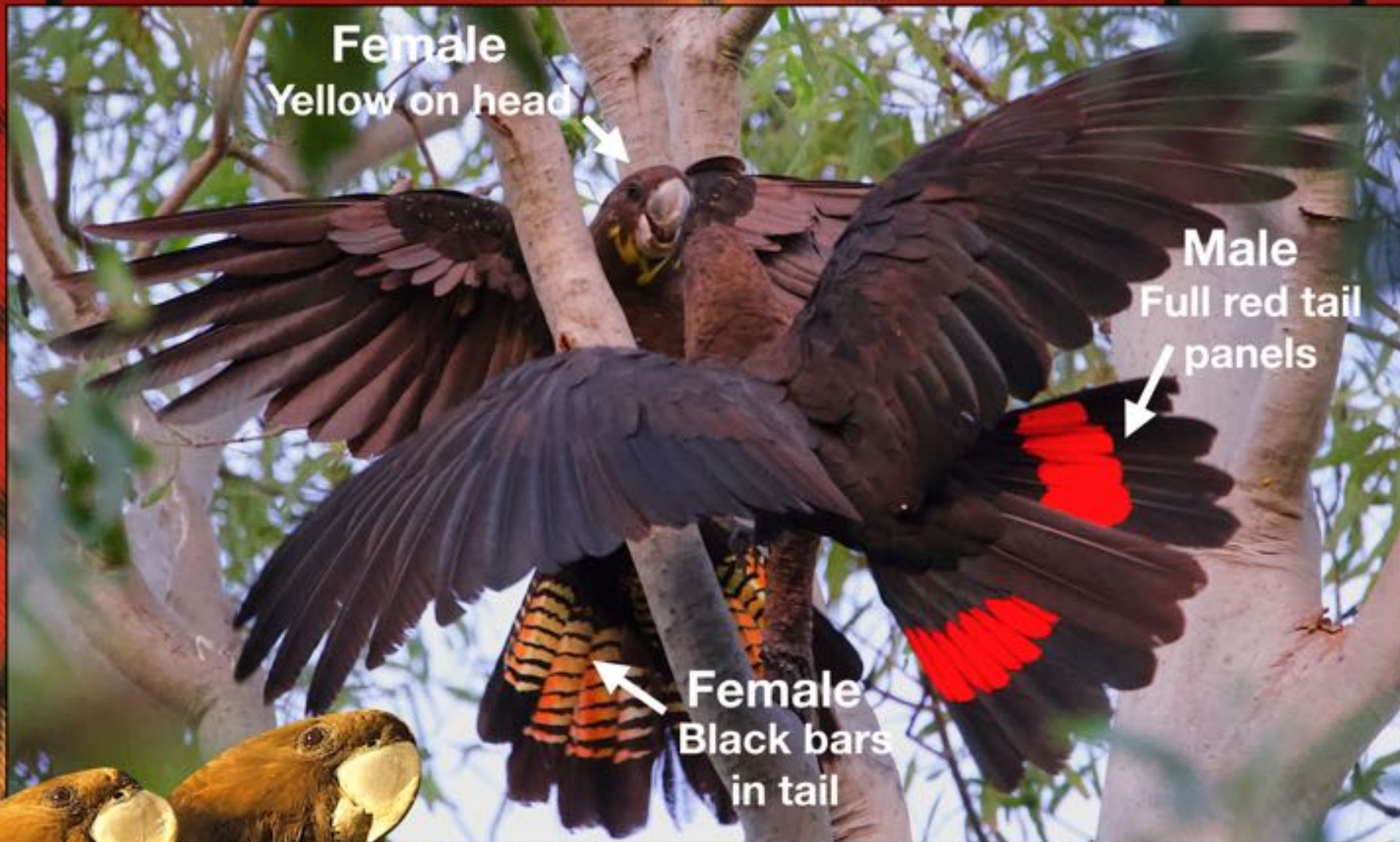
Save Sunrise Glossies with Spencer Hitchen



- I've always loved the environment. I started by observing the beautiful things around me.
- I used to pick up things that interest me like leaves, sticks and feathers.
- I learnt about birds and from there I wanted to know what they were eating & what they needed to survive.
- So I learnt about botany and the relationships between animals, plants and insects.
- Before I had my camera when I would get home I would draw what I saw so I wouldn't forget it.
- I would take photographs on my Mummy and Daddy's phones and then try to identify it at home.
- If I couldn't identify it I would take it to my friends at my local environment groups and they would tell me & teach me about what I had seen.
- I now use my photography to teach people about the environment so they will love it like I do & protect it.



- The first time I ever saw the glossies was when I was about two years old.
- Glossy Bob Carey & Isobel Pert along with my other bird observer friends have been observing & protecting the glossies for 25+ years.
- Bob taught me all about the Glossies and took me to see them drink at their watering hole. I have been going there for 4 years now.
- I learnt how to photograph them & identify the females with Tim. I know all my local Glossies.
- I was Observing the Glossies feeding in a favoured feed tree with Glossy Bob one day when he told me the Glossies Forest was to be destroyed. I knew I would have to do something to save the Glossies home.
- This is the photograph that I took that day of the tea for two birds, Fledge's parents.



Female
Yellow on head

Male
Full red tail
panels

Female
Black bars
in tail

These are the Vulnerable to EXTINCTION
(EPBC Act) Fussy Glossy Black-Cockatoos



Then the seeds that haven't been eaten, blow in the wind & new trees grow



Male spawn blows in the wind to fertilise female flowers



Male spawn fertilises female flowers



Female flowers produce fruit



Then the left over cones (orts) fall to the ground



Then the Glossy Black-Cockatoos eat the seed from the fruit



Then the fruit ripens

The Life Cycle of the Black She-Oak



Wallum Woodland - Regional Ecosystem: 12.2.9



Dry Heath - Regional Ecosystem: 12.2.13



Wet Heath - Regional Ecosystem: 12.2.12



Melaleuca Woodland - Regional Ecosystem: 12.2.7



Sedgeland - Regional Ecosystem: 12.2.15

All of the Wallum ecosystem's are threatened. All of the things that are threatening these ecosystem's are caused by humans, so we have the responsibility to act to save these amazing biodiverse areas before it is too late.





Photo by Bob Walpole



Three of the many threatened species in the wallum



- What I have found through my journey
- One of the many things I have found through my journey to save sunrise glossies that all of our plants and animals are threatened with extinction due to our weak environment laws.
 - I have been trying to strengthen these laws along with many other people.
 - I have been writing letters to the government and my local council.
 - Just recently I got people to write letters to Minister Plibersek to get her to list the Glossies Federally under the EPBC Act.
 - A few weeks ago we found out that they had been listed.
 - Never give up. Little things make a big difference. If all of us stand up to protect the environment then we can save the planet 🌍

I have to stand up or I believe there will be nothing left for future generations.





Observe



Learn



Photo by Paul Hilton

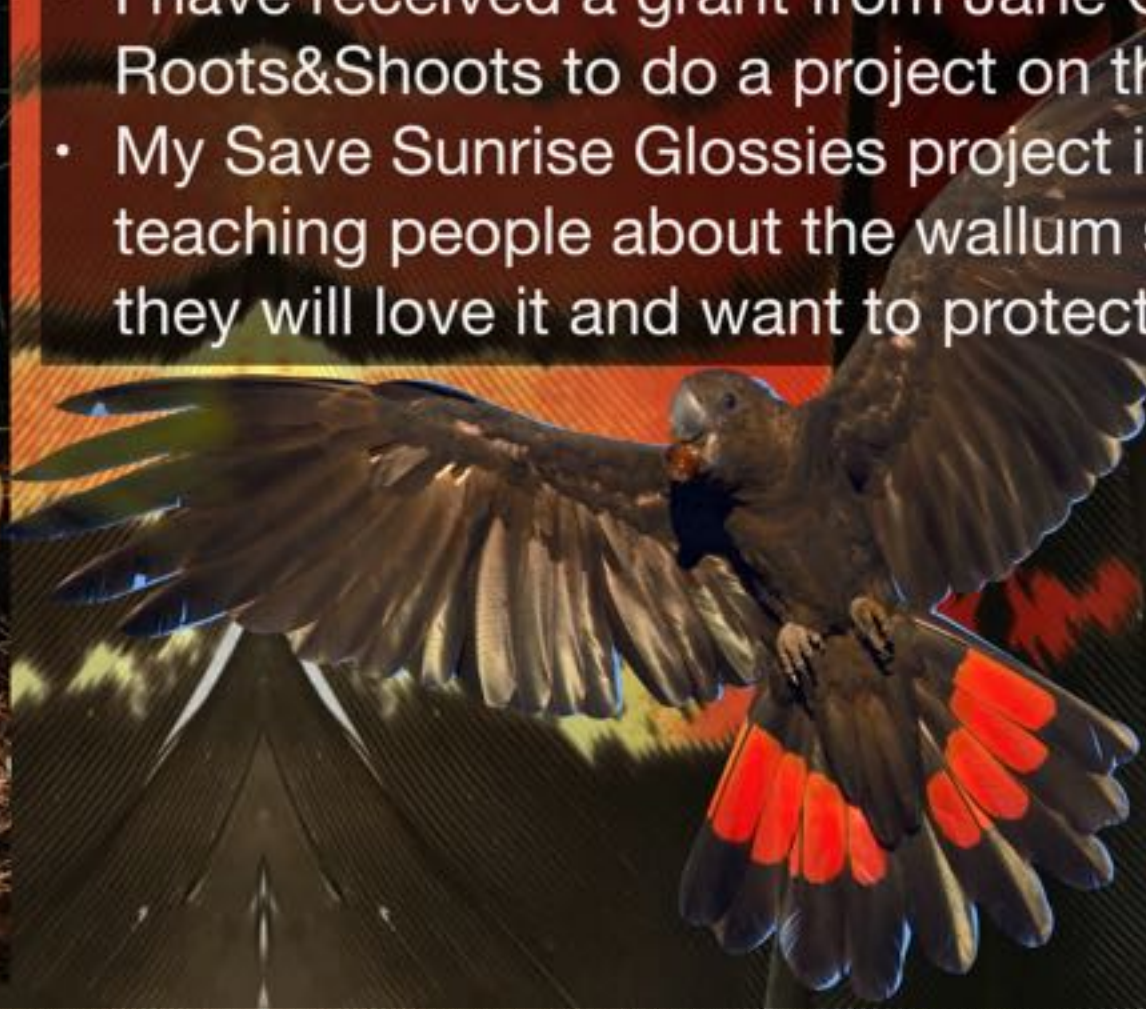
Protect

- Pick an area and observe what lives there & what plants are there.
- Then learn about how they survive, what relationships they have with one another and get to really know the area.
- Log your data about your area onto eBird iNaturalist or Birddata. Take photos or draw or write about what you observe.
- Teach people about your environment and how amazing and important it is. Keep spreading the word
- If you understand the environment you live in you will understand what needs to be protected.
- I believe birds are the easiest thing for everyone to observe. They are my favourite thing to observe & photograph as well.
- They are also an indicator species. They are very susceptible to changes in the environment.
- People love birds and want to protect them.



What I am doing to Save Sunrise Glossies?

- I set up a petition on change.org 1 year ago and I now have over 65,000+ signatures.
- I have glossy kids strikes at Grasstree Court.
- I have received a grant from Jane Goodall's Roots&Shoots to do a project on the Wallum.
- My Save Sunrise Glossies project is all about teaching people about the wallum so that they will love it and want to protect it like me.





Sign my Petition at change.org/saveourglossies follow Instagram and Facebook @savesunriseglossies contact me at savesunriseglossies@gmail.com
I am here to help
The more people who are trying to save the planet the better





BREAK

5 MIN





PATRICK TWIGG



PATRICK TWIGG ~ MY PROJECTS

There are three major projects that I have initiated at home and a fourth one that has just been started.

1. An Australian native paddock
2. A composting system
3. The recent addition of worm farms
4. My very own vegie patch



AUSTRALIAN NATIVE GARDEN ~

THE BEGINNING

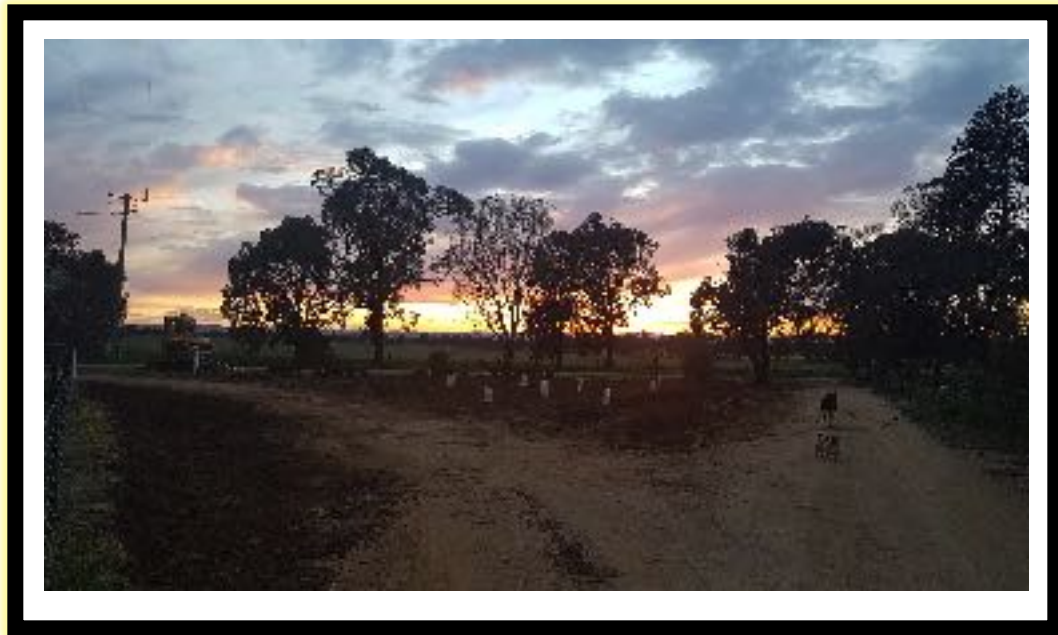
- I have always had an interest in plants. In 2021 when our Year 5 class went to Bellevue Hill Reserve in Cowra to participate in National Tree planting day.
- We got to pick a plant to take home with us and I picked a white callistemon.
- Here it is 1 year since planted.



AUSTRALIAN NATIVE GARDEN ~

THE BEGINNING

- The paddock is an area that my parents have delegated to me.
- I am responsible for the maintenance on this area.



AUSTRALIAN NATIVE GARDEN ~

THE BEGINNING



Once I had cleared the area and started planting.

AUSTRALIAN NATIVE GARDEN ~

THE BEGINNING



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AUSTRALIAN NATIVE GARDEN ~

WHAT IT LOOKS LIKE NOW



I currently have at least 9 different species of natives in my native garden.

AUSTRALIAN NATIVE GARDEN ~

WHAT IT LOOKS LIKE NOW



MY PLANTS ~ EUPHORBIA



Rudolph



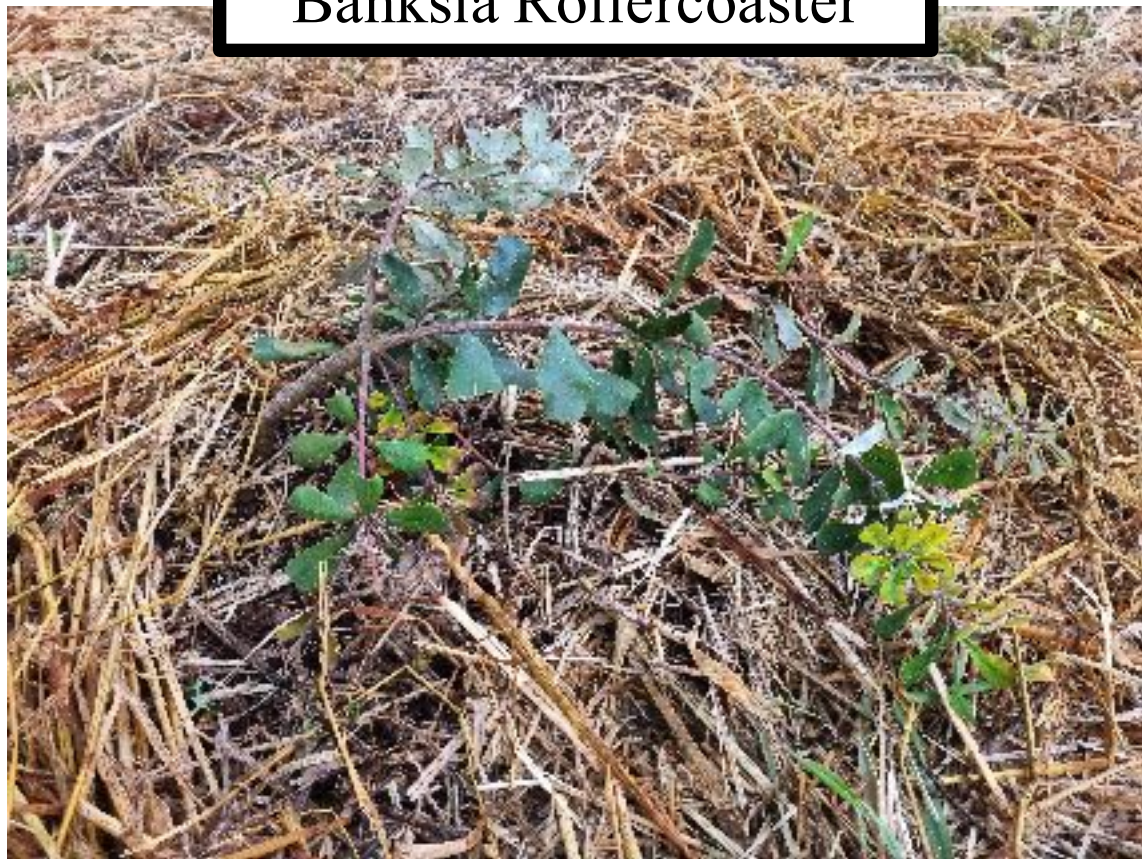
Ascot Rainbow

MY PLANTS ~

BANKSIA ROLLERCOASTER ~

BANKSIA INTEGRIFOLIA

Banksia Rollercoaster



In flower

MY PLANTS ~

HAIRY WATTLE ~ ACACIA VESTITA

My Plant



What it will become



MY PLANTS —

QUEENSLAND BOTTLE TREE ~

BRACHYCHITON RUPESTRIS



My Plant



What it will become

MY PLANTS ~

MOONLIGHT GREVILLEA

My Plant



What it will become

MY PLANTS ~ HARDENBERGIA



Planted
February 2022

August 2022

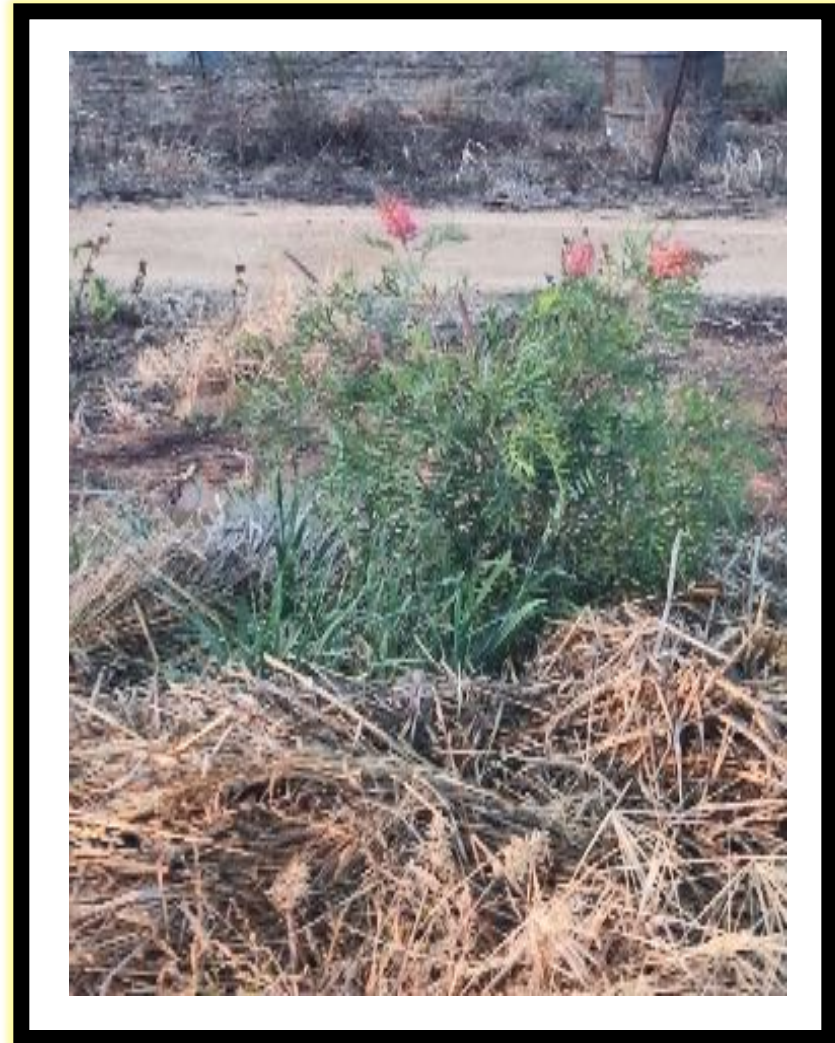


MY PLANTS ~

GREVILLEA SUPPERB



A cutting from my
Grevillea



AUSTRALIAN NATIVE GARDEN

‘It’s a lot of work and I try to do everything organic as possible and that includes weeding!!’



I mostly use my dutch hoe and stirrup hoe.

MY COMPOST SYSTEM

- I started with a small compost system on the ground
- Then purchased a barrel system.
- With the help of my Grandpa, I have now built a 4-bay compost system. Each bay is 110cm by 120cm by 70cm.



BUILDING MY COMPOST

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BUILDING MY COMPOST



Built February this year and ready to go

COMPOST BAYS

- I collect vegie scraps from home, fruit and vegie shops and friends.
- I look around for dry matter to get the right mix.
- Aim: I want to have a continually flow of compost so that I can make my own 'No Dig' garden by building the garden heaps up with fresh compost. Less food waste for landfill.



COMPOST BAY ~ BAY ONE



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COMPOST BAY – BAY TWO



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COMPOST BAY ~ BAY THREE



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WORM FARM

- I am breeding the worms to put in my compost bays.
- The worm juice will be used to feed my vegie patch and native plants.





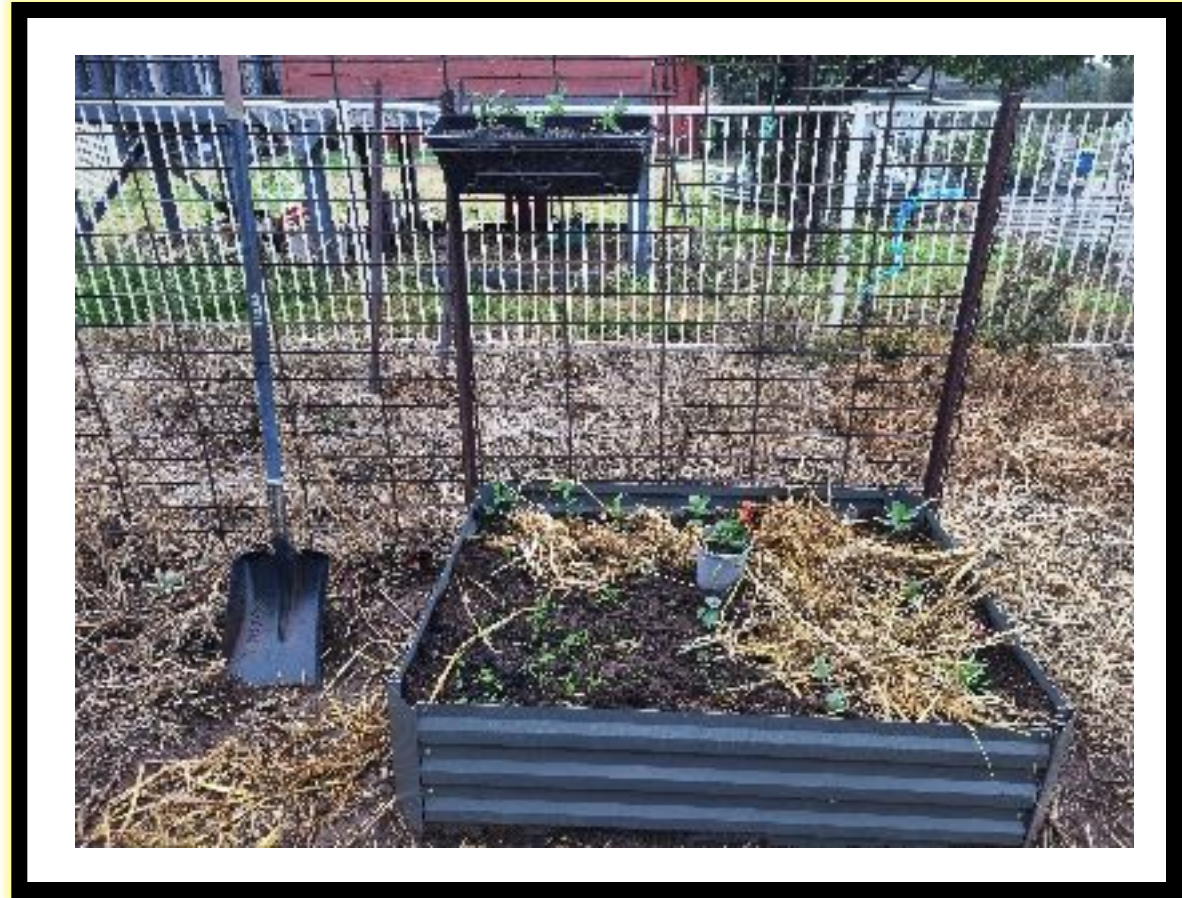
WORM FARM



.... And now I have worm juice

VEGIE GARDEN

- I have just started my very own vegie patch.
- I love watching them grow.
- I enjoy picking the finished product for my family and I to eat. It feels very rewarding.



VEGIE GARDEN



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TIPS & ADVICE

- What we do matters! Even the small things.
- Start small and keep adding to it.
- Plant something you like the look of or like to eat.
- Read/research about it.
- Ask a family member or friend to help. It's much more fun when there is someone else involved.
- THINGS WILL DIE... and that's ok, Try again!





CHRISTMAS ISLAND DISTRICT HIGH SCHOOL



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Christmas Island beaches



Marine debris washes up...



**This year has been the
worst**



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Leading marine debris audits



Our supporters!



Australian
BORDER FORCE



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Australian
Parks



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**We weight
the marine
debris.**



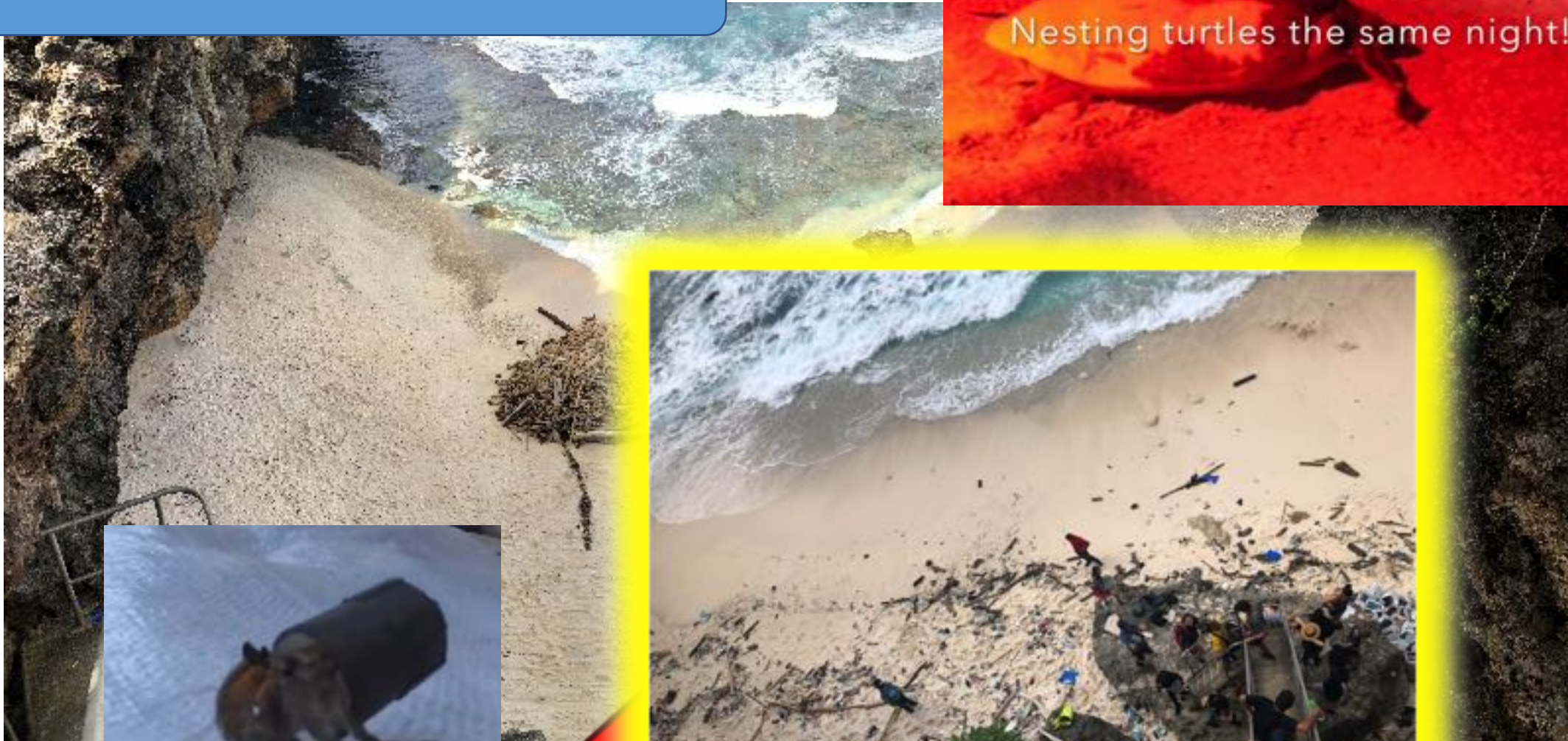
**We count
the
marine
debris.**



**We remove
the marine
debris.**



Greta Beach cleared!



After clean-up at Greta Beach:

Nesting turtles the same night!

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Indonesia's ocean current



AUSTRALIAN
MARINE DEBRIS INITIATIVE



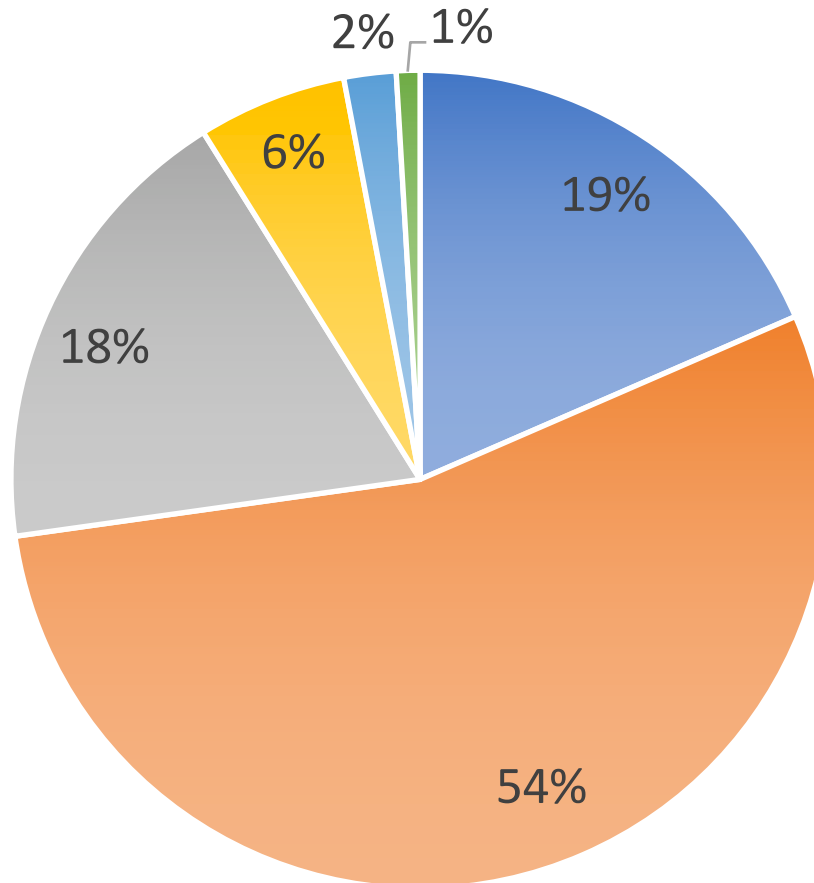
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(Search on
Youtube "Greta
Beach Cleanup
August 2020" to
find out more!)

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Marine debris audit data collected



- Thongs
- Plastic lids
- Straws
- Plastic bottles
- Tooth brushes
- Cigarette lighters



It takes courage to make a difference...

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JAYDEN GUNN



A Landcare Pathway

I utilised a Landcare pathway in a non-traditional way to foster my passion, develop my knowledge and achieve my dreams, the best part is you can too!



A wealth of opportunities and critical experience!

- Lots of opportunities to try exciting new activities!
- Endless expansion of knowledge!
- You can use the skills and experience you develop to find work in the conservation and land management industry later in life, or just around the corner!



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ARE

Connect with like-minded people and
establish networks





Foster your passion and feed your curiosity

Your passion will set out a path before you and your curiosity will lead you down it. It is a dark and uncertain road to follow one's passion but knowledge provides clarity in the dark, it is a light that shines brighter with each lesson learnt.

- Take advantage of the age of information!
- If you are passionate about something then chase that passion to the ends of the earth!
- The environment is an endless road of knowledge, we definitely know a lot about nature but in the sheer scope of all there is to learn, we know very little, so dive in!
- Landcare is a great place to foster your passion, feed your curiosity and develop your knowledge!



Build on your capacity to contribute in a more meaningful way



Have heaps
of fun!

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Plant trees of which
whose shade you do not
expect to sit!



GABRIELLE STACEY



Cultivating Action: Engaging with Conservation



Presented by Gabrielle Stacey
on Gadigal Country

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About Me

- **Project Officer** for Hunter Region Landcare Network
- **Coordinator** of Fern Creek Landcare
- **Coordinating Member** of Hunter Intrepid Landcare



My Journey Into Landcare



2014:

- travelling
- teaching English in Vietnam



2016:

- return to Australia

2018:

- horticulture
- Intrepid Landcare Leadership Retreat

2019:

- joined Fern Creek Landcare



Now

- conservationist
 - volunteer coordinator
 - botanist
 - horticulturist
 - nursery hand
 - ecology assistant
-
- youth engagement in Landcare
 - connecting experts with volunteers
 - intergenerational partnerships

“volunteers should leave feeling appreciated, fulfilled and ‘richer’ than when they arrived”





CONSERVATION, COMMUNITY & CONNECTION

FERN CREEK LANDCARE



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Engage with Existing Organisations

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Local Land
Services

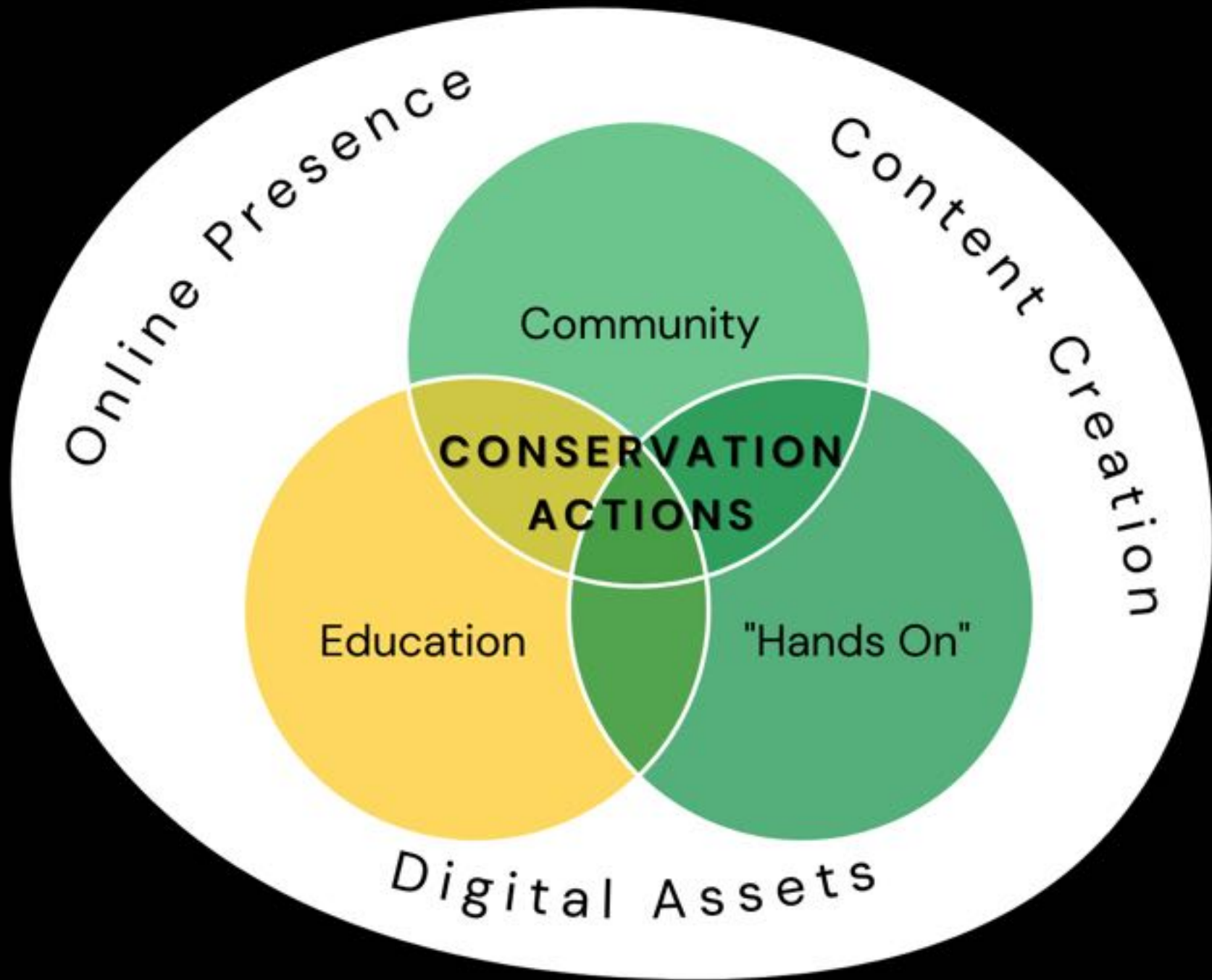


Landcare
Australia

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thank you so much



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Hunter Region
Landcare
Network

CONSERVATION, COMMUNITY & CONNECTION

FERN CREEK LANDCARE



@growingwithgab

@ferncreek.landcare



facebook.com/FernCreekLandcareDudley



ferncreeklandcare@gmail.com

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BRENTWOOD SECONDARY COLLEGE GREEN TEAM



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Towards Zer0 Bremissions



Presented by:

Brentwood Green Team

Brentwood Secondary College

65-71 Watsons Road

Glen Waverley 3150

Ph: 03 8545 0300

www.brentwoodgreenteam.com.au

Years ago, we asked ourselves...

Where should we start?



Brentwood Secondary College

- Established in 1969, located in Glen Waverley
- 1650 student enrolments, 160 staff
- Active Green Team
- 5-star RSS, recipient of PSA 2022, RSS awards 2022



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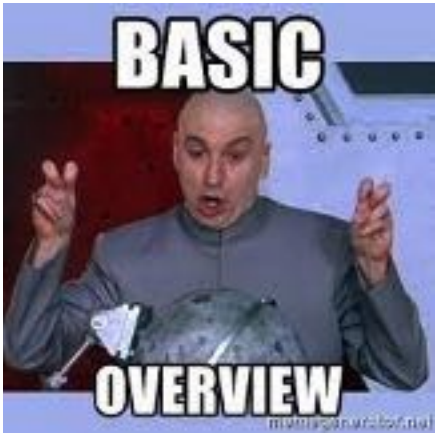


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Bremissions and offsets

Our actions in the key modules:



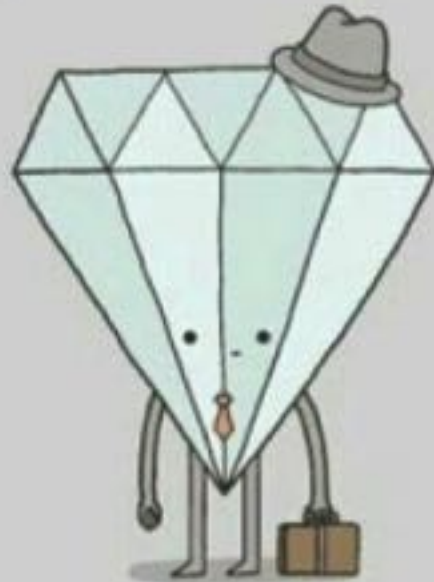
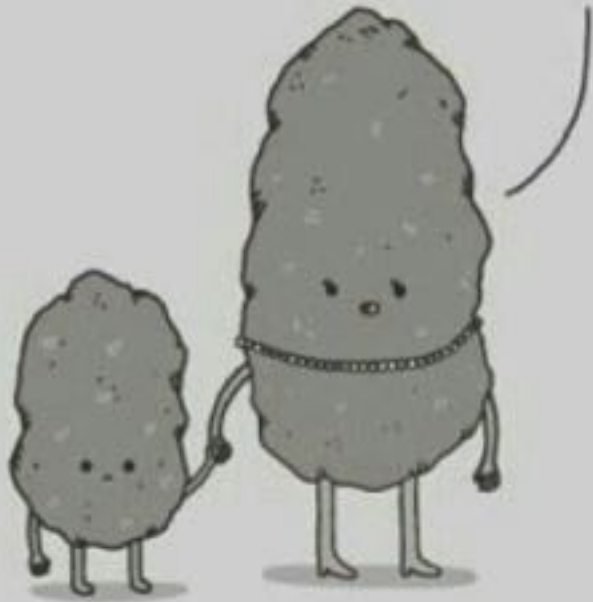
Waste

Water

Energy

Biodiversity

YOUR DAD'S BEEN
UNDER A LOT OF
PRESSURE LATELY.



Bremissions

aka Brentwood's Greenhouse gas
emissions

Calculating Bremissions

Resource	Emission factor used in Victoria
Emission Sources	
Electricity	1.17 kg per kWh
Gas	0.05153 kg per MJ
Paper	2.5 kg per ream
General Waste	1.5 kg per kg
Offsets	
Solar Generated	1.17 kg per kWh
Tree Planting	4 trees can offset 1 ton of emissions [?]
Cardboard Recycling	2.9 kg per kg
Commingled Recycling	1.2 kg per kg

Bremissions Data



Bremissions - Greenhouse Gas Emissions (tons)							
	2015	2016	2017	2018	2019	2020	2021
Student Enrolments	1594	1547	1582	1606	1575	1576	1576
<i>Our emissions:</i>							
Electricity	511	487	407	381	372	245	264
Gas	110	129	108	85	81	65	71
Paper	0	21	27	21	23	11	11
General waste	69	69	59	60	65	51	24
	690	707	602	547	541	371	369
<i>Our emissions offset:</i>							
Solar Generation	0	26	48	46	77	146	146
Tree planting	4	8	13	18	23	24	26
Cardboard Recycling	43	33	32	52	34	20	10
Commingled Recycling	0	0	3	2	4	4	3
Total Emissions offset (tons)	47	67	96	117	138	194	185
Total Emissions (tons) - if we didn't have emissions offset	737	774	698	665	680	565	554

Reducing/Offsetting Bremissions

- Renewable energy – 98 kW Solar PV



Specifications	First Installation	Second Installation	Combined
Capacity	29.9 kW	68 kW	97.9 kW
Installed in	July 2016	September 2019	
Solar Panels	115 JA panels	170 SunPower panels	285 panels
Inverters	1 Fronius Inverter (25 kW)	2 Fronius Inverters (27 kW)	3 inverters
CO2 emissions avoided	25 tons/year	109 tons/year	134 tons/year
Annual electricity yield	39128 kWh	88988 kWh	128116 kWh

Reducing/Offsetting Bremissions

- Tree planting
- Recycling
- Composting



Target 2030: Towards Zero Emissions



Switch completely to renewable energy by 2025



Annual tree planting at the college and in our community



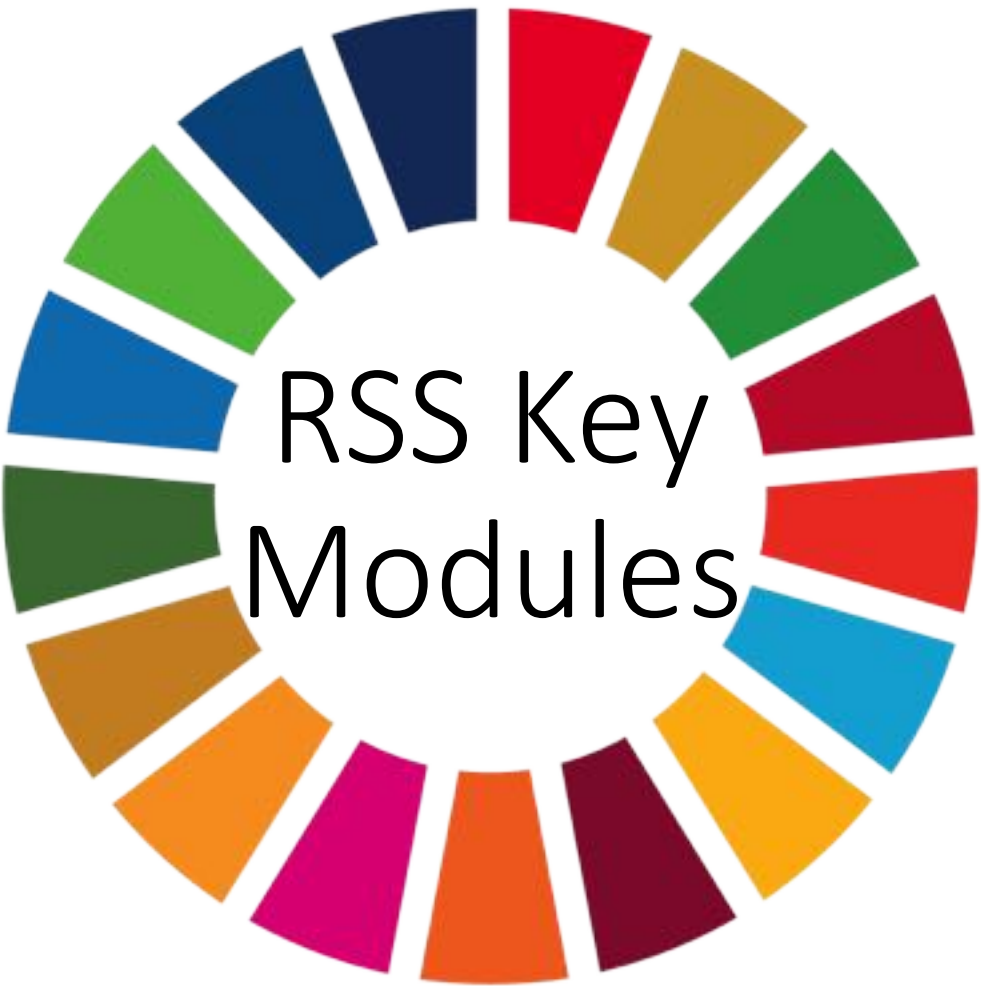
Reduce landfill waste, improve recycling – container deposit scheme, purple bins



Strengthen community awareness



Promote meat-free alternatives



Waste

- Recycling at events such as athletics
- Annual Clean-Up Brentwood Day
- Commingled recycling bins in every classroom and staff room



Waste (cont.)



- Alternative waste streams:
 - Coffee cup recycling through 7-Eleven
 - Mobile phone recycling through Zoos Victoria
 - Pens/whiteboard markers/texta recycling
 - Soft plastics collection
 - Textbooks recycling
 - Used batteries recycling
 - Bottle caps recycling
 - Compost bin in Green Space
 - SCR charity bins (old textiles and electricals)

Biodiversity



- Scotchmans Creek Tree Planting - 2000 native plants planted along the creek
- Project Brentwoods- 600 trees planted in Mornington Peninsula
- Annual Brentwood Tree Days – around 60 plants around the school ground
- Biodiversity Audits – identifying native plants, animal habitat quality, linkages of vegetation to local habitats
- The Green Space



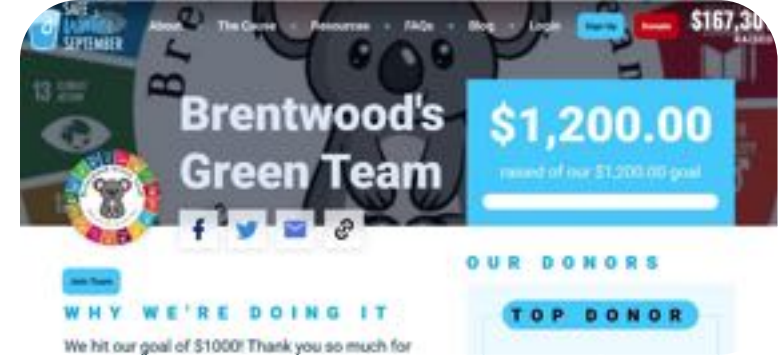
Energy

- Solar PV system
- Energy efficient lights
- Efficient heating/cooling
- Staff student education (e.g., not wasting energy by excessive heating/cooling)



Water

- Safe Water September – helped 48 people gain access to safe water
- World Ocean's Day-held daily quizzes
- National Water Week-walk for water, "Healthy Rivers-Healthy Bays" workshop, water night
- Installed water aerators onto taps to reduce water flow/consumption
- Water tank on new SLC building and in the Green Space



Every young person is a piece of the jigsaw puzzle of change, of improved communities, of better societies and of a sustainable and dynamic world.

- Youth Opportunities



Where are *you* going to start?





Brentwood Green Team

Please visit

www.brentwoodgreenteam.com.au

Please email your feedback / suggestions to:

[greenteam@ms.brentwood.vic.edu.au](mailto:green team@ms.brentwood.vic.edu.au)

ACTIVITY

What sort of future do you want to create?

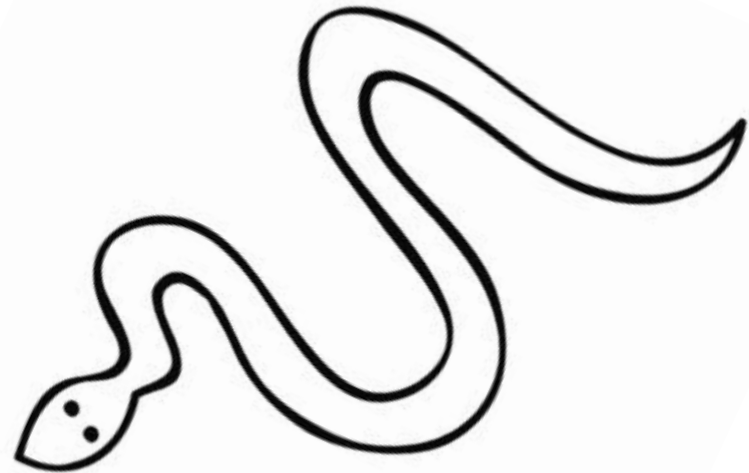
Share in pairs - 3 min each

Individuals can fill out your journal
Getting Started - page 8



ACTIVITY

Share in the chat!





LUNCH BREAK

15 MIN

