



**Zero Waste**  
Magnetic Island

# Action Planning Workshop

Let's Talk Rubbish 29 February 2020

SUPPORTED BY



Magnetic Island  
Community Development  
Association



IMAGE: [https://www.tumbleweed.com.au/\\_source/img/landfill.png](https://www.tumbleweed.com.au/_source/img/landfill.png)

# Acknowledgements

Funding for this workshop was provided by a Townsville City Council community grant and delivered through Zero Waste Magnetic Island, a working group of the Magnetic Island Community Development Association. The Zero Waste team would like to acknowledge the strong on-going support we receive from TCC, especially from Alistair Baggott and Adam King. We also particularly thank the teachers and parents of at the Magnetic Island C & K Magnetic Island Early Childhood Centre for their continuing generous support.

Zero Waste Magnetic Island acknowledges the Traditional Owners of Magnetic Island, the Wulgurukaba People and their Elders, past, present and emerging. We strive to work with Magnetic Island's Traditional Owners at every opportunity.

We would also like to sincerely thank all of the residents who participated in the workshop, which is critically important for shaping our future actions.



# Summary

The workshop followed a collective social learning process developed by Val Brown (2008) where people use their different knowledge and experience to work together to solve a problem. The key question to be addressed was:

**What actions can the Magnetic Island community take to eliminate waste going to landfill?**

Participants worked in groups to answer four questions that directly related to the key question. Responses to each question are summarised here:

**Q1: What should be?** (*In an ideal world, how can we reach zero waste on Magnetic Island?*)

Change is needed at a broad societal level, as well as changes in community attitudes, awareness and ideals. These would lead to changes in water, energy and waste management, and community-led and business-led initiatives.

**Q2: What is?** (*What are the enablers & barriers to reaching the ideal?*)

**Enablers:**

- Supportive island community.
- Good waste management options
- Incentives for recycling

**Barriers**

- Societal attitudes
- Local barriers
- Barriers to using existing current recycling areas

**Q3: What could be?** (*What is realistic within current constraints & opportunities?*) These fell into four groups:

- Community-led initiatives
- Initiatives for business
- Increasing local awareness and knowledge
- Improved waste management and energy efficiency.

**Q4: What can be?** (*Actions that each participant was prepared to do*) focused on recycling or reducing waste.

- Community actions: Increasing local awareness and knowledge (14), home-based (3), waste reduction (1);
- Business actions: Recycling (1), waste reduction (1)
- Waste management actions: Recycling (1), waste reduction (4)
- Formal education action: One action on developing formal school-based curriculum materials.

# Background

Zero Waste Magnetic Island (ZWMI) is a new working group of the Magnetic Island Community Development Association (MIDCA). The group has a small but growing membership and a Facebook page. It embraces a vision of preventing, reducing, reusing and recycling island waste.

We have an open policy to invite the community to our meetings to either bring us ideas and solutions or hear about what we are currently involved in or hoping to start. Some of our ideas include:

- Increase collection points for rubbish (outside the council responsibilities) with a view to sort it for reuse
- Set up exemplary models of using green waste at home so others can follow
- Get community composting stations for local businesses
- Hold regular “creative threads sessions” and other events
- Partner with others such as Council, Tangaroa Blue, Envirobank and Plastic Free Townsville
- Share ideas and help raise awareness through our Facebook page
- Construct a website for local residents to help reduce island waste
- Have market stalls to develop awareness of what we do.
- Work closely with the Kindy and MI State School to raise awareness with the youngest in our community and their families.





TOWNSVILLEBULLETIN.COM.AU WEDNESDAY JANUARY 8 2020

## Island's war on waste

NEWS 039  
Work via three trial to pay for beer theft

NEWS 039  
MIRIAM MANNING

THREE households have tried and failed to stop environmentalists from collecting their plastic bottles after they made their own drive-through recycling bin.

Claremont Magistrate Benjamin Rochet handed out fines to the three households after they appeared in court on the November 23 at the Brandon Tavern.

The court heard that when a shop attendant was distracted with another customer, Messadi grabbed a carton of Carlton Dry. Pasquet grabbed a carton of XXXX Summer and Rochet grabbed a carton of V&B.

The court heard no one was made to pay for the bottles.

The offence was caught on CCTV footage.

The trio who are serving holiday fines are charged with police.

Magistrate Vanessa Bourne fined each \$200 each and ordered to pay restitution for the items, consumed.

**ELISABETH SILVESTER**

MAGNETIC Island residents have made it their mission to create a waste free movement that aims to educate the island community about sustainable practices.

In collaboration with the Magnetic Island Community Development Association, Zero Waste Magnetic Island co-chair Rose Gordon said the organisation had declared a war on waste.

"We are a small but passionate group with a growing membership and we have a major aim to transform the island's waste into useful resources," she said.

Zero Waste Magnetic Island said the organisation had declared a war on waste.

"We are a small but passionate group with a growing membership and we have a major aim to transform the island's waste into useful resources," she said.

"There are people that care about the environment and climate change and we are trying to make it as easy as possible and appealing and fun to recycle, reduce and reuse."

The group was formed in February last year.

"Magnetic Island has not got a dump any more, we only have a waste transfer station," she said.

"Everything goes over to town so if we can reduce the amount of waste that is going to town, it is better for the environment and better for the community."

Ms Gordon said the group was given a Townsville City Council grant in July.

"It is all voluntary grant money that will be spent on activities and getting specialists in for the projects," she said.

"Our first workshop is scheduled for the end of February for the end of February about community education and drawing out what people are interested in and what they see as the issues."

Zero Waste is running two campaigns aimed at stemming waste.

"We are working with businesses about organic waste speaking with them and asking them what they are doing and we are trying to get a community composting station is going," she said.

"We have also contacted businesses who are prepared to fill people's water bottles and it is called MI (Magnetic Island) Water on Tap.

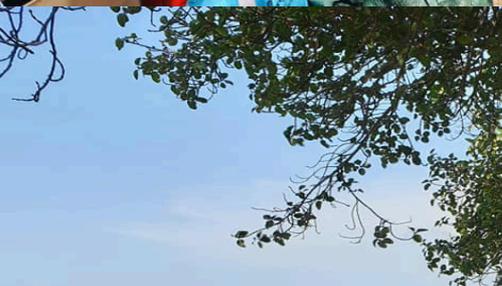
"There will be a map with locations where you can fill your water bottle up to reduce plastic water bottles."

**MISSION:** Rose Gordon is a co-ordinator of the Zero Waste Magnetic Island group.

**Picture:** MATT TAYLOR

**WE ARE A SMALL BUT PASSIONATE GROUP WITH A GROWING MEMBERSHIP**

**ROSE GORDON**



# Introduction

On 29 February 2020, ZWMI invited interested residents to a one-day workshop to begin a process of action planning to reduce waste on the island.

Residents were selected on the basis of their interest in ZWMI, which was indicated through individuals either attending at least one ZWMI meeting or indicating their interest through an online survey of island residents. We capped the number of participants to 22 (to maximise participation) and were planning to run several more throughout the year with additional residents, but these are now on hold due to COVID-19.

The purpose of the workshop was to:

- (a) To begin a process to think about waste management on the island, and how to reduce it.
- (b) To harness the enthusiasm of a small but growing group of 'zero wasters' on Magnetic Island

ZWMI invited Ms Penny Claringbull to facilitate the workshop. Penny is an experienced environmental communicator and workshop facilitator, who has trained with Professor Val Brown (collective social learning) Sam Ham (environmental interpretation), Professor Doug McKenzie Mohr (Community Based Social Learning) and most recently Penny received climate change leadership training from Al Gore. Penny lived in Townsville for several years and worked for Townsville City Council as an environmental educator.



# Participants

Name	Organisation/Role
Rose Gordon	Zero Waste Magnetic Island Steering Committee
Julie Woodlock	Zero Waste Magnetic Island Steering Committee
Karen Williams	Zero Waste Magnetic Island Steering Committee
Penelope Sheridan	Zero Waste Magnetic Island Steering Committee
Margaret Gooch	Zero Waste Magnetic Island Steering Committee
Gil Napper	VRM
Adam King	Townsville City Council
Lauren Todd	Townsville City Council
Renee	Nourish Café, Horseshoe Bay, Magnetic Island
Mike Schmidt	MIRRA
Les Sampson	MICDA
Cam Walker	Men's Shed
Helen Foulkes	Magnetic Island State School
Rabin Tuladhar	JCU
George Hirst	Cranky Curlew Productions
Hailey Wetzel	C & K Magnetic Island Early Childhood Centre
Jane Keast	Active resident
Molly Black	Active resident
Janet Greely	Active resident
Helena Cassells	Active resident
Elizabeth Mills	Active resident
Anne Cole	Active resident

As well as the Zero Waste Steering Committee, participants were from small business, Townsville City Council, Magnetic Island State School, the kindy, Magnetic Island Community Development Association (MICDA), Magnetic Island Residents and Ratepayers Association (MIRRA), the Men's Shed, and there were also some retirees.

# Overview

The workshop was held at the C & K Early Childhood Centre and began with a beautiful acknowledgement of the Traditional Owners, the Wulgurukaba Peoples, led by Hailey Wetzel, one of the teachers from the kindy, then each person introduced themselves.

Next, we saw a sneak preview of the inspiring video produced for ZWMI which stars several kindy children from 2019. See

<https://www.youtube.com/watch?v=v8HYRaYFCmY>

After morning tea, we shared some preliminary results of our online survey to ascertain resident's knowledge of MI waste and how it is managed. Then Penny began the 'collective social learning' process – which focused on four key questions. After lunch, Associate Prof Rabin Tuladhar, from JCU talked about converting bottles to concrete.

The workshop culminated in a pledge to action by each participant. These and other actions will be followed up by ZWMI as part of an integrated approach to waste reduction on Magnetic Island.

Time	Activity
9.15	Arrivals
9.30 – 10.00	TO acknowledgement, introductions by table
10.00-10.30	Video sneak preview
<b>10.30-10.45</b>	<b>Morning tea</b>
10.45 - 11.15	Overview of Zero Waste Magnetic Island
11.15 - 11.30	Overview of workshop process – 4 key questions
11.30 - 12.00	Question One
12.00 – 12.30	Question Two
<b>12.30 – 1pm</b>	<b>Lunch</b>
1.00 -1.30	Ideas about re-using glass
1.30-2pm	Question Three
2pm-2.30	Question Four
2.30-2.45	Wrap up/ next steps



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# Workshop process

The workshop followed a collective social learning process which is based on collaboration – i.e. people using their different knowledge and experience to work together to solve a problem.

For our workshop the problem (key question) to be addressed was:

What actions can the Magnetic Island community take to eliminate waste going to land fill?

Participants worked in groups to answer four questions that directly related to the key question.

Each participant was given a pen, and for each question every person added their ideas to the butcher's paper. Responses were typed up and then collated under similar themes or topics, rather than by table as there were common ideas coming from each table.

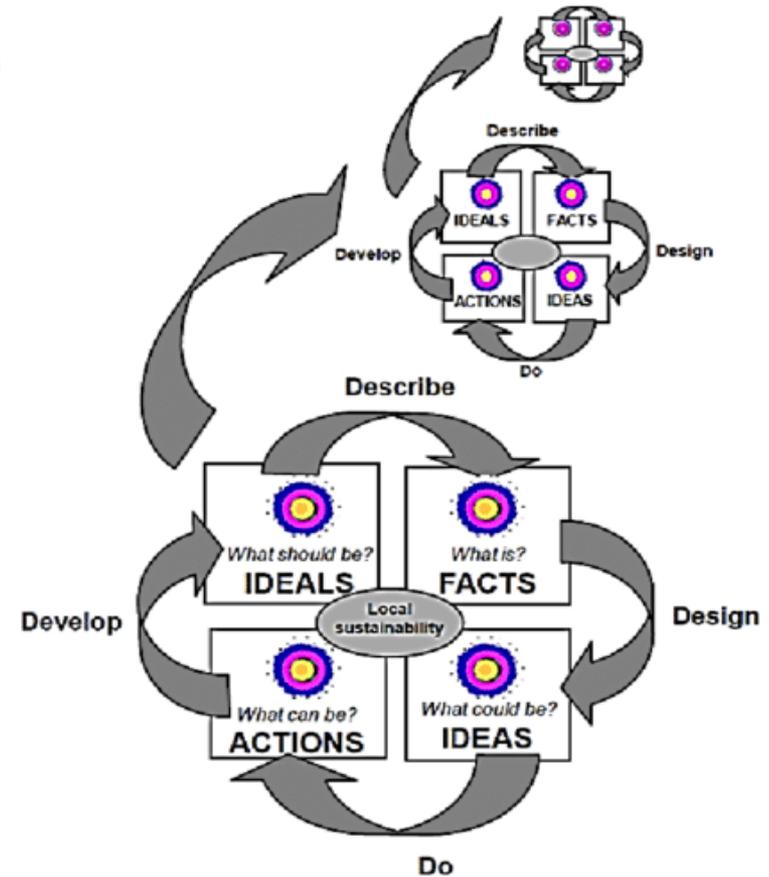


Figure 1: The Collective Learning Spiral. Adapted from Brown (2008) in Griffith, Brown, (2010).

# Question One: What *should* be? (IDEALS)

What actions can the Magnetic Island community take to eliminate waste going to landfill?

This was a visioning process. Participants were asked to time travel 10 years into the future, no limits on funding, energy or support.

They were asked to consider what it would look like and feel like to be living on Magnetic Island. They were invited to discuss, write and draw their responses.



# Collated responses to Q1: What *should be*? (IDEALS)

Participants imagined changes at a broad societal level, as well as changes in community attitudes, awareness and ideals.

These changes would see changes in water, energy and waste management, as well as community-led and business-led initiatives, all leading to zero waste on Magnetic Island.



**Figure 2:** Participant's broad understandings of *What Should Be* in place to enable zero waste on Magnetic Island

# Collated Responses to Q1: What *should* be? (IDEALS)

## Societal level changes:

- Government legislation to ban sale and manufacture of items that cannot easily be repaired
- Minimum wage is enough to support a full life
- Essential things are accessible to everyone
- Sustainability is a subject in school. All students are taught about sustainability.
- All schools, organisations and business have bio-regenerator facility that processes food waste
- Council uses locally sourced organic waste products in council parks to improve soil, vegetation growth, and reduce water consumption and cost.
- Waste-water treatment plant processes do not produce emissions of CO<sub>2</sub> equivalents
- Concrete / bitumen waste is recycled
- Solar panels are recycled at end of life
- Less waste
- Soft plastics, black trays are gone
- Garbage bins are small because we have so little waste
- Own less stuff
- Development is sustainable
- Manufacturers/retailers reduce packaging
- Organic farming - composting, fruit and veg, chooks
- Renewable fuel production
- Community farms



# Collated responses to Q1: What *should be*? (IDEALS)

## Community attitudes, awareness, ideals:

- Be proud of our Island - set an example for the world
- Visitors come because we are an environmental model of how to live with the earth
- Community separates recyclables effectively and efficiently
- Clean and pristine
- No single-use plastics
- Clear message to visitors - this is our home - respect it
- Everyone embraces the dream
- Community focus first and foremost on waste avoidance
- All community members can process their food waste
- Everyone knows what to do with all waste
- Community values their green waste and organics and utilise all of it at home to their own financial and health benefit
- Everyone knows how to recycle
- Animals, birds, sea life thrive
- Clean reefs

## Waste management:

- Simplified, clear recycling bins at a centre in each bay / Nelly Bay for recycling
- Sediment from harbour, drains, stormwater is re-purposed and not discharged to sea or put in landfill but used to improve soils.
- Rotary table at transfer station - Low power costs at night. Plastics --> bricks / metal -->ground large grinder --> aluminium dust -->smelter



# Collated responses to Q1: What *should* be? (IDEALS)

## Water and energy efficiency:

- Island self-sustaining - power, water
- We use sustainable power and re-useable water
- Watering stations
- You're given a recycle bottle when you arrive
- No bottled water - watering stations available all over Island
- Water refill stations everywhere
- We manage our water resources better
- Sustainable cooling in houses (passive cooling)
- Electric (solar charged) ferries and barges
- Electric cars and bikes
- No big buses
- Cycling, less cars
- Clean energy - solar powered
- Bio/solar/eco-powered transport - electric bikes
- No fossil fuel - autonomous shuttles powered by electricity from solar/water/hydrogen
- Bicycle paths
- Community bikes
- Transport is fossil fuel free

# Collated responses to Q1: What *should* be? (IDEALS)

## Community-led initiatives:

- Island marketed as Zero Waste
- Re-use, repair - reverse garbage centre - community co-op
- Repair café
- Tool and toy library
- Community kitchen
- Food co-op with bulk storage base at a multi-purpose community centre which is also a cyclone shelter (community credits)
- 1 bio-regenerator for each bay
- Shared backyard farms, chickens
- Public veggie gardens/compost for sustainable food sources – each bay
- Bulk food and goods supply store
- 3-D printers in every bay and everyone has access to them to make parts to repair, eg cars, whitegoods...
- Waste-free consuming to kitchens, homes and eateries -->composting -->lots of local produce -->community orchards, gardens, mushroom growing--> waste water used to irrigate nature strips for fruit trees
- Community recycling program (assisting elderly to participate)
- People growing food for local market
- Functioning recycle centre/dump shop
- Fish --> Bio --> Aqua --> Garden
- Council stickers inside recycle bins of what can and cannot be recycled
- Solar-powered robotic weeding machine to pull and/or destroy weeds



# Collated responses to Q1: What *should* be? (IDEALS)

## Business initiatives:

- Tourist accommodation waste recycled
- FABLAB-style re-make - plastics, shredders, glass crushing, 3D printing
- Green supermarket
- Everyone has their own take-away cups, bottles, cutlery, etc that they bring to food places
- More bulk foods at reduced and affordable costs
- Cafes use local produce - food waste going to compost system like Accelerate Bio
- Glass crusher (sand --> glass --> sand)
- Cafes, restaurants use organic locally produced products
- Sustainable Island businesses
- No plastic packaging
- Companies responsible for their own waste

## Question Two: What *is?* (FACTS)

What actions can the Magnetic Island community take to eliminate waste going to landfill?

The second stage of the collective learning cycle involved describing and listing the facts. At each table, individuals contributed the facts that they considered to support and impede the desired change i.e.

*Factors that **undermine** our ability to eliminate waste going to landfill*

*vs*

*Factors that **enable** us to eliminate waste going to landfill*

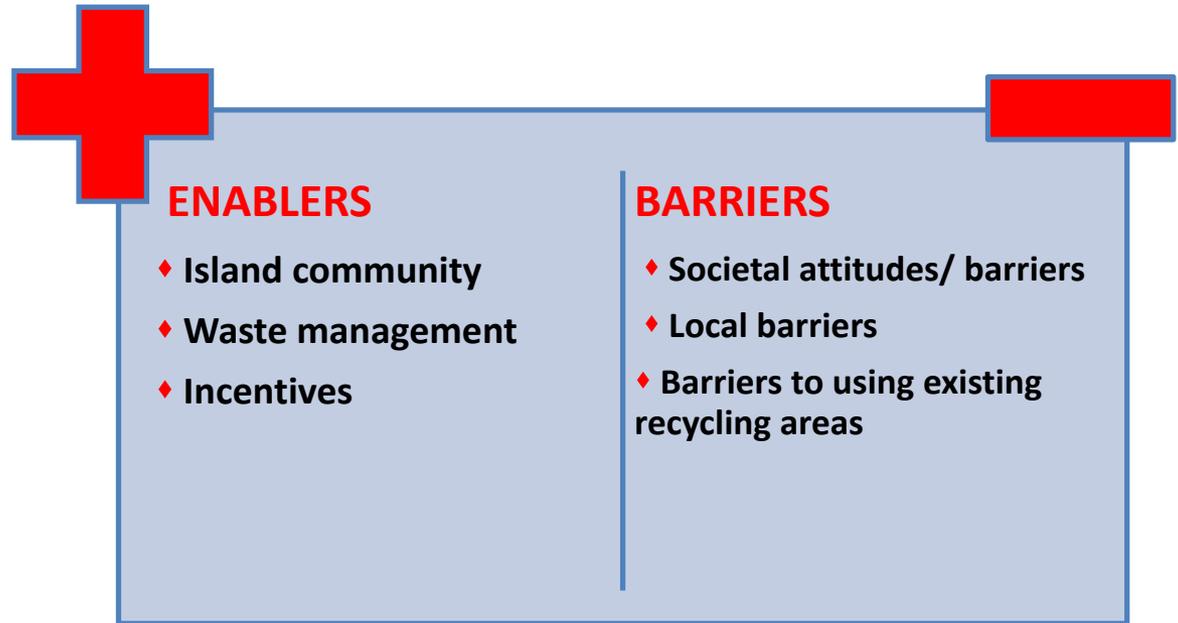
For this question, the butcher's paper was pre-drawn into two columns so participants could clearly list the positive and negative factors.



# Summary Responses to Q2: What *is?* (FACTS)

Participants agreed that the major factor to enable zero waste initiatives is the supportive island community. Other factors are having good waste management options and incentives for recycling (e.g. Containers For Change Program).

Barriers to achieving zero waste initiatives listed by participants include societal attitudes, local barriers and barriers to using existing current recycling areas.



**Figure 3:** Participants' broad understandings of barriers & enablers for attaining zero waste on Magnetic Island

# Collated responses to Q2: What *is?* (FACTS)

## Factors which support zero waste initiatives

### Island community:

- Positive community support
- Small sort of coherent community
- Community is well-connected - social media to share info, email, mobile
- People care
- Shared love of the Island
- Small community
- Creative people
- Community groups e.g. Zero Waste Magnetic Island
- Community wants change
- Welcoming at most places
- Build relationships with everyone
- Enthusiasm, wanting to help make a difference
- Leading by example
- Newsletter keeping people informed on what they can do
- People are keen to do the right thing
- People are saving recycling to give me
- Willingness of community
- Education at Kindy and schools on MI
- School garden and sustainable kitchen
- Boomerang Alliance
- Tangaroa Blue has targeted our businesses to reduce non-recyclables and replace with re-useable and recyclable.



# Collated responses to Q2: What *is?* (FACTS)

## Factors which support zero waste initiatives

### Waste management:

- Rubbish collection
- Community recycling bins
- Defining our waste streams
- Recycling and waste segmentation encouraged
- Businesses getting rid of skip service
- Council is implementing waste-water recycling for parks, sport fields, JCU, stadium, palmetum
- Council has 10K budget to support a bio-gen unit for the island
- Green waste - mulching at dump
- Council uses green waste all on Island

### Incentives:

- Less waste = more living
- Wanting to leave a better world
- Free mulch and green waste drop off



# Collated responses to Q2: What *is?* (FACTS)

## Barriers to achieving zero waste initiatives

### Local barriers:

- Not knowing.
- Resistors, negative gossip
- Need a sticker for recycle bins - what can and cannot be recycled
- Lack of education getting to community
- Lack of awareness and knowledge
- Island supermarkets using too much plastic and foam
- No butcher
- Tourists don't recycle, buy plastic water bottles
- Consumerism
- No bulk food available in supermarkets
- Skip company not wanting recyclables removed from their bins
- Local shops using plastic packaging. Take packaging back to stores bought - make stores responsible
- Too much waste transferred to mainland
- Separation from mainland poses financial constraints to recycling
- No public drinking fountains
- Time and money
- Council using recycled water for bush blocks and not for suburban re-use or parks and nature strips and gardens

# Collated responses to Q2: What *is?* (FACTS)

## Factors which support zero waste initiatives

### Barriers to using existing recycling areas:

- Mobility issues for people to take recycling to community deposit areas
- Recycling - it's complicated, not consistent
- Too much work
- No operational dump shop and not big enough
- Recycling stations look unsightly
- Lack of storage space
- Accessibility

### Societal attitudes/barriers:

- Appalling media that restricts progressive change especially climate, coal and waste
- Vulture capitalism
- Waste is not always valued as a resource
- Educate and ignore – attitude that momentum will bring them along
- Whole attitudes need to change - local community, local/state/federal governments
- Corporations not caring about the future and people just money
- Putting into others' hands e.g. Recycling relying on council rather than new initiatives
- Legislation putting barriers to reduce plastic use
- Will of government
- 3-year term of government
- Lack of trust in TCC



## Question Three: What *could* be? (IDEAS)

What actions can the Magnetic Island community take to eliminate waste going to landfill?

**What could be?** involved thinking and coming up with fresh ideas for change.

The ideas progressed the *ideals* that were heard in Question 1 and the *facts* that were shared in Question 2.

The process was based on the premise that bringing about whole-of-community change needs to include as many diverse points of view as possible.

The previous questions allowed participants to envision an ideal world before considering the current reality.

This question returned to what participants believed is achievable, given current opportunities and constraints.



# Summary responses to Q3: What *could* be? (IDEAS)

Ideas about what could be done to reduce waste on the island fell into four main groups:

- Things that the community could do;
- Things that could be done to help local businesses reduce waste;
- Education and awareness-raising activities
- Improved waste management and energy efficiency.

There was no hierarchy of initiatives, and many could be done simultaneously.



**Figure 4:** Participants' broad understandings of what is achievable to eliminate waste on Magnetic Is.

# Collated responses to Q3: What could be? (IDEAS)

## Increasing local awareness and knowledge

- Formal Education:
  - Implement / develop a curriculum linked unit for the primary school about food waste and the bio-regen. Students are required to start a campaign or posters to educate the rest of the community.
- On the ferry & car hire places:
  - Ferry ticket Magnetic Island Zero Waste
  - Video on ferry with zero waste message for Island visitors
  - Zero Waste logo instant and simple message as a freeze frame on ferry during journey after video
  - Passport to MI – we are a Zero waste community
  - Promotional material in ferry link terminal
  - Car rental businesses to provide promotional materials to hirers
- Campaigns:
  - Campaign - posters, stories, advertisements etc to educate
  - Lobby for more segmented waste options
  - Community brainstorm group
  - Learn by teaching
  - Community education and awareness campaign on 'zero waste'
  - Celebrate re-use of green waste
  - Education program - locals, visitors, businesses
  - Zero Hero' campaign - make it 'cool'; celebrate positive, make it fun
  - Campaign to stop single use plastic
  - Campaign about re-filling water bottles – 'Water on tap - no bottled water'
  - Broadcast recycling achievements
  - Promote zero waste households



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# Collated responses to Q3: What could be? (IDEAS)

## Increasing local awareness and knowledge

- General information and actions:
  - A detailed series of 'how to do it' videos that goes through a big range of ways and means of recycling as much as possible for social media and other outlets
  - Poster to promote Zero Waste
  - Zero Waste App
  - Develop mud map around waste circular economy --> environmental sustainability
  - Council uses only Magnetic Island generated green waste mulch and - communicate it
  - Be included in Council Newsletter
  - Council to present info to Island groups
  - Pamphlet about what can be recycled delivered to houses with discussion
  - Disseminate information about recycling to the wider community through a variety of formats: forums, electronic and print media
  - Offer to compost other household's food scraps

## Improved waste management & energy efficiency

- Rotary sorting table
- Bio-regen facility on Magnetic Island
- Plan that streams our waste for home/retail waste
- New permanent place for recycle station -
- Solar powered housing
- Install 10cent refund machine on Island
- Provide community recycling bins in each bay



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# Collated responses to Q3: What could be? (IDEAS)

## Initiatives for business

- All Magnetic Island cafes/takeaway stores supply only recyclable / decomposable cutlery
- Council procurement policy - sustainability elements are strengthened for Magnetic Island - specific suppliers, services, supply chains
- IGA/Foodworks etc reduce/eliminate non-recyclable products
- Fund local businesses that reduce waste
- Financial incentives for not wasting
- Business based on 3D printer using bottle tops
- Mug sharing (café-->café-->café)
- Ceramic coffee cups - shared reuseable cups
- Local brewing company - returnable bottles that are refilled
- Wine, soft drink, kombucha boutique
- Link into EQU technology
- Free boomerang bags at supermarkets

## Community-led initiatives

- Community gardens and orchard
- Community composting
- Tool and toy library
- Repair and share place
- Recycle shop ~ find people with skills
- Zero Waste market
- Bulk food co-op



## Question Four: What *can* be? (ACTIONS)

What actions can the Magnetic Island community take to eliminate waste going to land fill?

The fourth and final stage of the collective learning cycle is where ideas are brought into practice through action. Participants were asked to reflect on their thinking to date, in particular the achievable projects detailed in the previous session. They were then asked to commit to an action that they will take responsibility for – i.e. it must be something **they** can do and cannot include an action on someone else's behalf.

Participants were also advised that all actions are equal, no matter the scale; and that more than one action can be shared, but there is no expectation of this.

For this question, the butcher's paper was pre-drawn into columns with the following headings:

- Name
- Action
- Resources needed
- Timing, i.e. when it will be done.



# Summary responses Q4: What *can* be? (ACTIONS)

Actions that participants were prepared to do (and state publicly that they would) do focused on either **recycling** or **reducing** waste.

- Community-led initiatives were mostly about increasing local awareness & knowledge (14), but also included some home-based actions (3) & 1 community-wide waste reduction action;
- Business Initiatives included 1 recycling action and 1 waste reduction action;
- Waste management comprised 1 recycling action & 4 waste reduction actions – mostly to do with the establishment of a bio-regen unit for commercial food scraps.
- One action focused on developing formal school-based curriculum materials

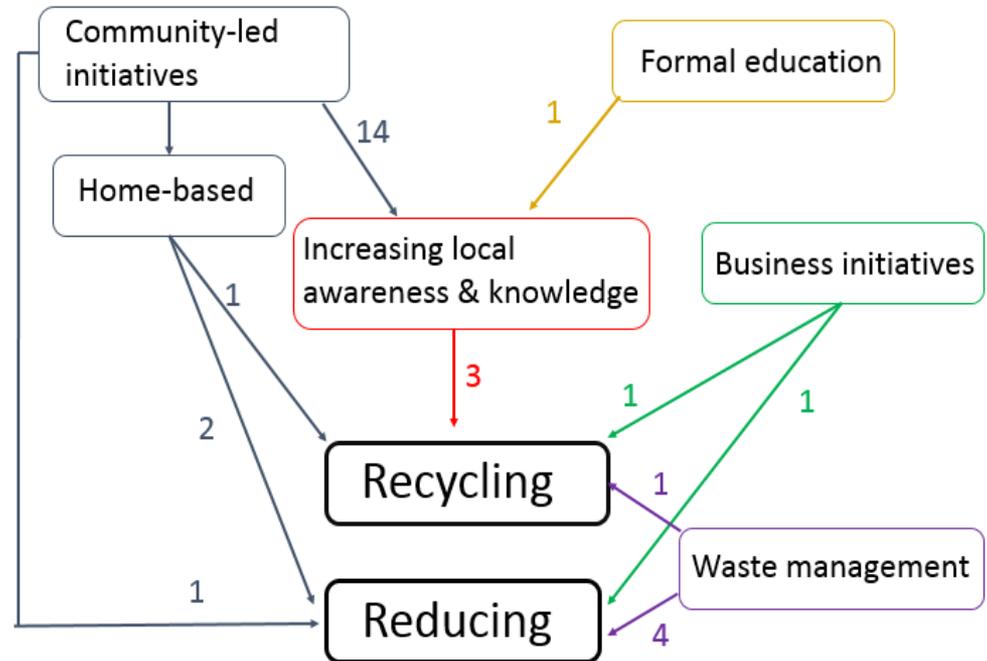


Figure 4: Participants' personal commitments to waste elimination on Magnetic Island.

# Collated responses to Q4: What *can* be? (ACTIONS)

**Table 1:** Participant's personal actions to help reduce waste on Magnetic Island

Category	Type of action	Action	Name	Resources	When
Community-led initiatives	Reduce waste	Remove as many cans from Island garbage as possible	Elizabeth	Fishing gaff	Daily
	Education/awareness	Presentation at After-School Care	Karen W	Julie, kids and time	
		Recycling and arts activity with Julie	Karen W	Julie, kids and time	
		Talk to neighbours and others about worm farming	Jane K		
		Talk to school about developing the recycling station at school; Newsletter, P&C	Karen W		
		Use plastic lids with school kids (mosaic for Palm Creek)	Karen W		
		Will work with someone on newsletter and MI news	Janet G	Time	ASAP
		Zero Waste Market/swap discuss at next meeting	Pen	Time/place/people	Next meeting
		ZWMI Newsletter	Julie W		Monthly

## Collated responses to Q4: What *can* be? (ACTIONS)

Category	Type of action	Action	Name	Resources	When
Community-led initiatives	Education/ Awareness	Ads, posters, food waste talk to chefs	Molly	Time, paper, ink research	March
		Arcadia Hotel ZW Trivia Nights	Rose	Time	March
		Ideas for short videos on what can be done	Cranky Curlew	Pen and George	March
		Education (After-school care)	Julie W	Poster	Within a month
		Water on tap initiative	Anne C	Time	April
		Grow ZW Group via markets/trivia/social	Marg G	Time	April
		Help design resources (School)	Julie Woodlock	Rubbish for sorting	Discuss with school
		Hold community talk at Men's Shed	Cameron W	TCC guest speaker	June/July
	MICDA Newsletter	Karen W			
	Home-based: Recycle	Set up bins at home for small recyclables	Anne C	Re-use bins/jars	March
	Home-based: Reduce	Reactivate composting effort and ask two neighbours to join	Janet G	Large composting bin	Begin in 2 weeks
		Make yogurt to reduce containers and share knowledge	Jane K	Internet; containers	March

## Collated responses to Q4: What *can* be? (ACTIONS)

Category	Type of action	Action	Name	Resources	When
Formal education	Education	Develop curriculum unit for year 4 primary school that incorporates food, waste, carbon emission reduction, posters, community engagement, etc.	Lauren (Council)	Aust. Curriculum Primary teachers	After Bio-gen has been installed
Waste management	Reduce waste	Bio-regen unit - council purchase	Council (Adam)	\$10K	before end of financial year
		Bio-regen unit - Help Adam with purchase	Lauren (Council)		
		Bio-regen unit -Identify and meet potential champion to home and be responsible for Bio-gen	Council (Adam)		
		Contact local member re laws to encourage responsibility of electronic and household goods	George H	me/ phone email	March
	Recycle	Discuss rotating sorting table - Point: no waste - all recycled or if not recycled to be used in soil construction	Mike S		Present
Business Initiatives	Reduce waste	Mug sharing between cafes and restaurants to reduce take-away coffee cups. Zero Waste Mugs	Renee	Time, mugs	This week Long term/year
	Recycle	Submit grant application to fund bottle crusher	MICDA (Les)	TCC, Rabin in JCU	July

# Actions that have been completed since the workshop or are currently underway

**Table 2:** Personal actions that have been completed, or are underway

Category of Action	Type of action	Action
Community-led	Education	Advertisements, posters, talk to chefs about food waste. (Molly)
		ZWMI/MICDA Newsletter. (Julie, Karen, Janet)
		Talk to neighbour and others about worm farm. (Jane)
		Discuss Zero Waste Market/swap at next ZWMI meeting. (Pen)
		After-school care activities (Julie, Karen)
	Home-based - recycle	Set up bin system at home for small recyclable things. (Anne)
		Make own yogurt to reduce containers & share knowledge with others. (Jane)
		Reactivate composting effort and encourage 2 neighbours to participate. (Janet)
	Reduce waste	Follow up water on tap initiative; talk to Libby Illidge/Rose. (Anne)
		Remove as many cans from Island garbage as possible. (Elizabeth)
Waste management	Reduce waste	Bio-regen unit - council purchase. (Adam)
		Bio-regen unit - Help Adam with purchase. (Lauren)
		Bio-regen unit - Identify and meet potential champion to home and be responsible for Bio-gen. (Adam)
Recycle		Discuss rotating sorting table. (Mike)

# Actions that have been not yet started – either due to social distancing or longer time-frame of action

Table 2: Personal actions that have not yet started

Category of Action	Type of action	Action
Community-led	Education	Arcadia Hotel ZW Trivia Nights. (Rose/Marg)
		Market stalls. (Rose/Marg)
		Hold community talk at MIMS. (Cam)
		Develop school curriculum materials on waste management. (Lauren)
		Devise a series of ideas of short videos on what can be specifically done with various recyclable items. (George/Pen)
		Mosaic for Palm Creek. (Karen)
Business Initiatives	Recycle	Submit grant application to fund bottle crusher for pilot study. (Les)
	Reduce waste	Mug sharing between cafes and restaurants to reduce take-away coffee cups. Zero Waste Mugs. (Renee)

# Conclusions and next steps

**The workshop demonstrated that there are many energetic and enthusiastic residents on Magnetic Island who want to get involved in the Zero Waste movement.** Rather than expecting others to solve the problem, workshop participants were keen to take personal responsibility to do their bit to reduce waste going to landfill. Actions varied enormously, reflecting the diversity of participants. Several proposed actions have not been realised to date. Actions stalled due to COVID-19 relate to community and school-based educational activities, including market stalls and after-school activities. Other activities which have not yet started are much more long-term such as the development of curriculum materials, mug-sharing between local cafes and the establishment of a pilot project based on converting crushed glass bottles to concrete.

Nevertheless several actions have been completed or are well underway. These include individual actions around the home, discussions about waste management with others in the community, and direct actions relating to waste reduction. COVID-19 has expedited the establishment of a small but growing fruit & veggie co-op, enabling islanders to purchase fruit & vegetables on-line which are then delivered in boxes, free of plastic. Other actions, such as those proposed by council staff at the workshop (i.e. those related to the acquisition of the bio-regen unit) have also proceeded. The bio-regen unit will be installed on the island as soon as the majority of cafes and bars in Horseshoe Bay re-open for dine-in guests.

We had hoped to run at least two more of these workshops with funding provided by Townsville City Council, but workshops were put on hold due to COVID-19. The aim was to collate all the actions from each workshop, and together with information gleaned from an earlier online survey, develop an action plan for the Zero Waste group. We hope to continue this work later in the year, with further funding from Council.

