



# MINUTES

## **ENVIRONMENT**

## **STRATEGIC REFERENCE GROUP**

held in the Flannel Flower Room, Dee Why on

**THURSDAY 20 FEBRUARY 2020**

**Minutes of the Environment  
Strategic Reference Group  
held on Thursday 20 February 2020  
in the Flannel Flower Room, Dee Why  
Commencing at 6:00pm**

**ATTENDANCE:**

**Committee Members**

Cr Alex McTaggart

Cr Pat Daley (*arrived 6:12pm*)

Cr Stuart Sprott (*Acting Chairperson*)

Sophie Scott

Roberta Conroy

Bayview Church Point Residents Association

Alan Jones

Tom Hazell

David Tribe

Anthony Petrolo

Viktorija McDonnell

Curl Curl Lagoon Committee

Marita Macrae (*arrived 6:06pm*)

Pittwater Natural Heritage Association

Jacqueline Marlow

Friends of Narrabeen Lagoon Catchment

Scott Markich

**Council Officer Contacts**

Todd Dickinson

Director Environment and Sustainability

Yianni Mentis

Executive Manager Environment and Climate Change

James Leigh

Manager, Stormwater and Floodplain Engineering

Ximena Von Oven

Governance Officer

*NOTE: Cr Sprott chair the meeting as Cr Warren was an apology.*

## **1.0 ACKNOWLEDGEMENT OF COUNTRY**

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As a sign of respect, Northern Beaches Council acknowledges the traditional custodians of these lands on which we gather and pays respect to Elders past and present.

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## **2.0 APOLOGIES**

### **APOLOGY**

***J Marlow / R Conroy***

Apologies were received from Cr Warren, B Bragg and N Howard.

## **3.0 DECLARATION OF PECUNIARY AND CONFLICTS OF INTEREST**

There were no declarations of pecuniary or non-pecuniary conflicts of interest.

## **4.0 CONFIRMATION OF MINUTES OF PREVIOUS MEETINGS**

### **4.1 MINUTES OF ENVIRONMENT STRATEGIC REFERENCE GROUP MEETING HELD 7 NOVEMBER 2019**

***S Scott / D Tribe***

That the Minutes of the Environment Strategic Reference Group meeting held 7 November 2019, copies of which were previously circulated to all Members , are hereby confirmed as a true and correct record of the proceedings of that meeting.

### **4.2 MINUTES OF EXTRAORDINARY ENVIRONMENT STRATEGIC REFERENCE GROUP HELD 28 NOVEMBER 2019**

***V McDonnell / S Scott***

That the Minutes of the Extraordinary Environment Strategic Reference Group held 28 November 2019, copies of which were previously circulated to all Members , are hereby confirmed as a true and correct record of the proceedings of that meeting.

## **5.0 UPDATE ON ACTIONS FROM LAST MEETING**

### **5.1 ACTIONS FROM PREVIOUS MEETING**

#### **DISCUSSION**

Actions from the previous meeting were reviewed. The following actions have been completed:

- Council staff to provide an update on the Frenchs Forest Precinct Plan and Ingleside topic.
- J Marlow and M McRae to provide a presentation on Connectivity and Biodiversity on the Northern Beaches at the February 2020 SRG meeting.

- N Schultz to provide information to M McRae about wrapping disposal

The following action will be completed in due course

- Council staff to organise a visit to Kimbriki facilities for the Environment SRG members. SRG members were advised of the possible dates for the Kimbriki SRG tour. Suggested dates are Saturday 14 March and Sunday 15 March. Governance to send dates and the tour program to the group for the preferences with a request for date preference.

*NOTE: M Mcrae arrived at 6:06pm.*

## RECOMMENDATION

That the Environment Strategic Reference Group note the Summary of Actions from the previous meeting.

## 6.0 AGENDA ITEMS

### 6.1 PRESENTATION TO ENVIRONMENT STRATEGIC REFERENCE GROUP - ENVIRONMENTAL IMPACT ASSESSMENT

#### DISCUSSION

S Markich introduced Prof R Jeffree to the group. Prof R Jeffree provided a presentation on this topic. The following points were discussed:

- Report of Inter-Governmental Panel on Biodiversity and Ecosystem Services (UNESCO 2019)
- EIA Failures to Protect Nature
- Review of the Commonwealth Environmental Protection and Conservation Act. This act seeks to preserve and protect biodiversity and heritage
- Transformational changes necessary for conserving nature
- Examples of environmentally regenerative business models. Example of a country that has implemented an environmentally regenerative business model is Bhutan
- Suggestions for propagating an environmental business model

*NOTE: Cr Daley arrived at 6:12pm.*

## RECOMMENDATION

That the Environment Strategic Reference Group note the presentation.

### 6.2 PRESENTATION TO ENVIRONMENT STRATEGIC REFERENCE GROUP - WILDLIFE CONNECTIVITY

#### DISCUSSION

M Macrae and J Marlow provided a presentation regarding this topic. The following points were highlighted:

- Importance of corridors



- Impact of loss of connectivity
- Impact of roads on connectivity
- Corridors in the Northern Beaches
- Underpass and overpass
- Roadkill mitigation
- Future directions to avoid loss of connectivity

Loss of connectivity generates the loss of threatened species and biodiversity. There is a need to connect large pieces of bushland in order to mitigate the loss. Multiple corridors reduces the impact of bush fires in the wildlife.

A regional plan for wildlife corridors connectivity and road kill mitigation should be implemented across the whole Northern Beaches area.

### **RECOMMENDATION**

That the Environment Strategic Reference Group note the presentation.

## **6.3 ZERO WASTE TO OCEAN WORKSHOP**

### **DISCUSSION**

Y Mentis, Executive Manager Environment and Climate Change and J Leigh, Manager Stormwater and Floodplain Engineering provided a presentation on this item.

The following points were highlighted:

- Background
- Council's current programs with regards to cleansing services and waste education
- Environment and Climate Change Strategy
- Zero Waste to Ocean – Northern Beaches Program

City of Ryde and Burwood Council are the first Council's in NSW that have committed to Zero Litter to Rivers by 2030. A handout regarding the City of Ryde and Burwood Council principles and objectives of the Zero Litter to Rivers programs was circulated to the group.

The group was invited to participate in a workshop to provide feedback and ideas to assist in developing a Zero Waste to Oceans Charter for Northern Beaches Council. Staff will prepare a draft Charter based on SRG input and will provide to the SRG for their endorsement at the next meeting. The Charter will then be presented to Council for its endorsement.

*NOTE: A special Environment SRG meeting will be held in the following weeks to discuss the Climate Change Action Plan.*

### **RECOMMENDATION**

That staff collate information provided by the Environment Strategic Reference Group workshop on the principles and objectives of a Zero Waste to Oceans Charter that will be finalised by staff and reported back to Council.

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## 6.4 STAFF UPDATES

### DISCUSSION

Y Mentis, Executive Manager Environment and Climate Change provided an update on the following topics:

- Development of the Climate Change Action Plan
- Frenchs Forest Precinct and Ingleside Precinct
- Simplifying Solar Program
- Sustainable Business Program

### RECOMMENDATION

That the Environment Strategic Reference Group note the Staff Update report.

## 7.0 GENERAL BUSINESS

The following topics were raised during the discussion of General Business:

- After the recent bush fires, community members need to consider their own personal greenhouse gas emissions. There are several websites that provide information about how to reduce personal greenhouse gas emissions. It was suggested that links to these websites should be available on the Northern Beaches Council website.
- How much does Northern Beaches Council encourage the community to take active steps to enhance the wildlife and threatened species?

## SUMMARY OF ACTIONS

ITEM NO.	ACTION	RESPONSIBLE OFFICER	DUE DATE
	Staff to email ESG with date options for Kimbriki facilities visit	Governance	14 or 15 March 2020

### Attachments

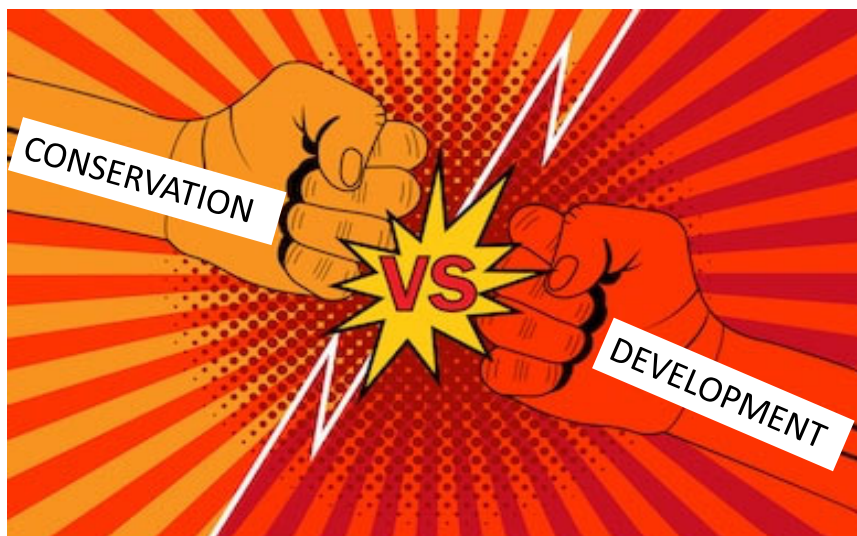
- Attachment 1 Environmental Impact Assessment presentation
- Attachment 2 Wildlife Connectivity presentation
- Attachment 3 Handout of the City of Ryde and Burwood Council about the principles and objectives of the Zero Waste to River program
- Attachment 4 Summary Information related to Zero Waste to Ocean Workshop

*The meeting concluded at 8:02pm*

This is the final page of the Minutes comprising 6 pages numbered 1 to 6 of the Environment Strategic Reference Group meeting held on Thursday 20 February 2020 and confirmed on Thursday 21 May 2020

# *The Flawed Environmental Impact Assessment Process and.....*

## *Environmentally Regenerative Business Development*





## Report of the Inter-Governmental Panel on Biodiversity & Ecosystem Services (UNESCO, 2019)



- Globally, one million species (1 in 4) are now identified as being at risk of extinction in the coming decades.
- The EIA process, which is supposed to protect Nature and its contribution to People, is being increasingly held to account for the declining state of our natural environment.
- Transformational changes necessary for conserving nature and achieving sustainability, not met by current approaches.

## *EIA Failures to Protect Nature....(Laurance and Salt, 2018)*

### **Tapanuli Orangutan- Rarest Great Ape in the World**

EIA on Hydro Project was so utterly

*ripe with inaccuracies and misrepresentations*

that 25 international scientists wrote directly to Indonesian President Joko Widodo,

*decrying its blatant distortions.*



## *EIA Failures to Protect Nature.....Why?*

- Inadequate investment; Rigorous assessment takes time, effort and resources.
- Insufficient scope; The impacts of any development are rarely confined to its planned footprint;
- Vested interests; EIA assessors compromised by vested interests
  - Assessors (mostly private consultants) who conduct stringent EIAs may be blacklisted by other developers in the future
- The bottom line for the authors is: **Don't trust EIAs; Expect EIAs to be full of holes**

## Ongoing Senate Inquiry into *Australia's Faunal Extinction Crisis*.....

Interim Report: Conclusions & Recommendations;

- continuing decline in mammal species
- slump in bird populations
- the Environmental Protection & Biodiversity Conservation (EPBC) Act *not fit for purpose*

## Current review of the *Commonwealth Environmental Protection & Conservation Act (EPBC)*

Seeks to;

- to preserve and protect biodiversity & heritage
- promote biodiversity protection & recovery
- ESD principles; .....*'environment is maintained or enhanced for the benefit of future generations'*

Admission; Environment degraded and extinctions increased under the Act

## *What about EIA in NSW?.....*

The Environmental Defenders Office view of EIA inadequacies to protect Nature;

- Independence and objectivity of Consultants?
- Reliability and validity of information provided?
- Need for external auditing of EIA products
- Accuracy of predictions over time?

*IPBES- "Transformational changes necessary for conserving nature....."*



Environmentally Regenerative Business Models;

*First Question:*

**How will your development actually ENHANCE the natural environment?**

not minimal or neutral impact (as determined by EIA)



## Examples from the Private Sector.....



**Andre Hoffman**

**Vice-Chairman of the Board of Roche Holding Ltd., Basel, Switzerland**

“I am an entrepreneur, a private investor and a committed philanthropist”

“Financial returns will not suffice in the long term to reconcile business, sustainability and society.”

“We need to be net contributors, we need to repair the damage done”

## COLDPLAY



“We wont tour until the touring business model is environmentally regenerating”



*"A Share of Profits is Donated to Wildlife Conservation"...*



## Examples of environmentally regenerative business models.....

Ranger Uranium Mine in the UNESCO World Heritage Kakadu NP



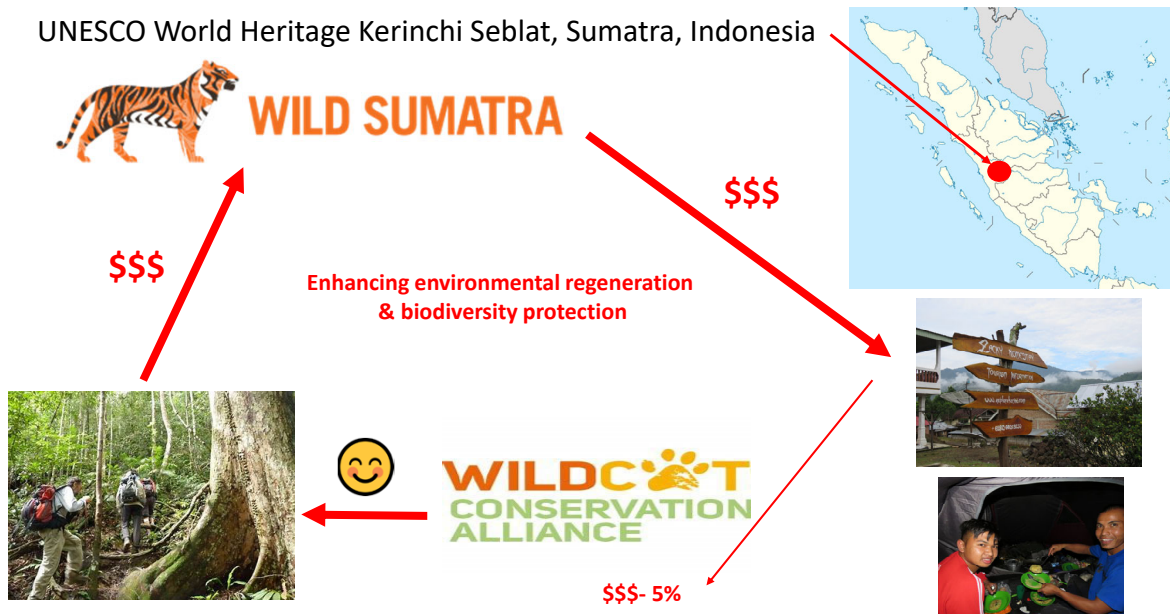
Revenue flow from mining profits to Research Institute



Research outcomes have supported protection and regeneration of Kakadu environment, supporting biodiversity

## Examples of environmentally regenerative business models.....

UNESCO World Heritage Kerinci Seblat, Sumatra, Indonesia



## Examples of environmentally regenerative business models.....



## Suggestions for propagating ERBM's at the local level.....

- New Start-up delivering a product to a younger demographic, which is more likely to be;
  - ecologically literate,
  - concerned about their futures under increasing climate disruption, biodiversity destruction

## Suggestions for propagating ERBM's at the local level.....

- Start-up business model commits to % of profit going to ecological investments;
  - Carbon sequestering building materials
  - Ecosystem services reconstruction & biodiversity enhancement

### Suggestions for propagating ERBM's at the local level.....

- Appropriate Local Government Awards to Environmentally Regenerative Businesses .....*which are a step beyond environmental sustainability*
- Relevant profiling in the local media: modelling ecological-economic behaviour, which invests in the collective community future (and returns a profit for the business)



Image Richard Jackson

## Connectivity and wildlife corridors

Why do we  
need corridors?

Image Joan Read

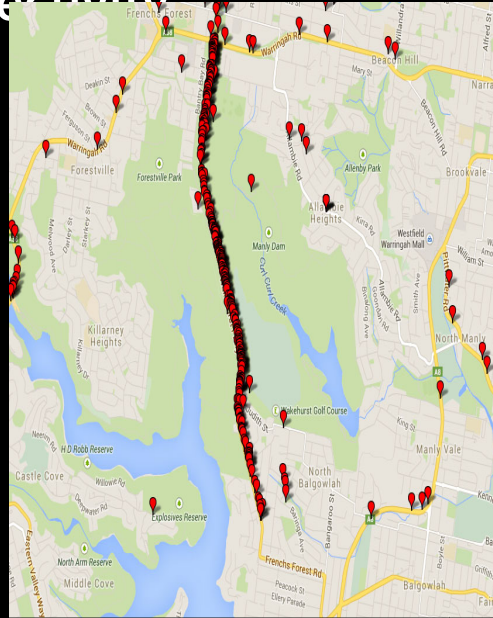




## The impact of loss of connectivity

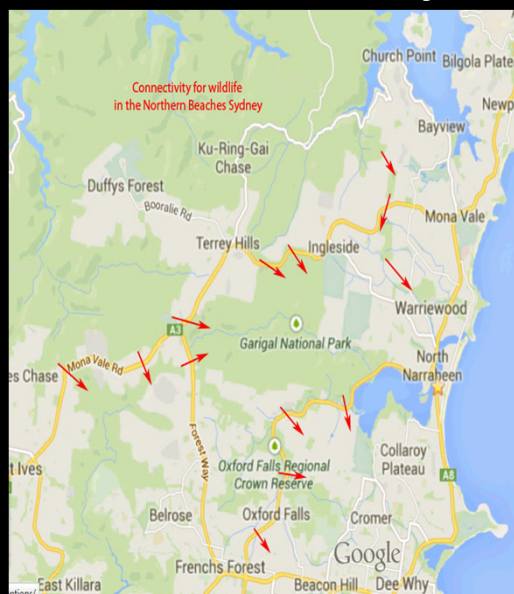
Cutting connectivity  
can lead to  
inbreeding  
and genetic isolation

Manly Dam area



## The impact of loss of connectivity

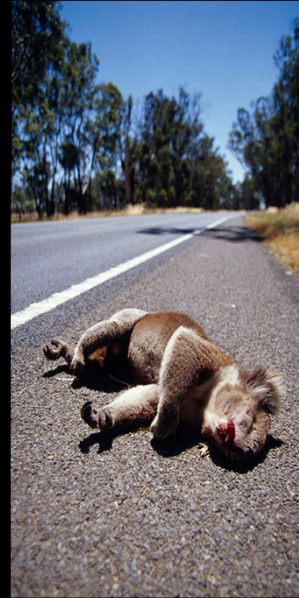
Wildlife connectivity  
across the Northern  
Beaches



## Loss of connectivity leads to

- Loss of foraging habitat
- Habitat fragmentation
- Multiple corridors will reduce the impact of fires

Image Dan Lunney



## The edge effect can lead to

- Introduction of invasives/ exotics
- Introduced animals acting as predators/competitors
- Pollution eg light /sound

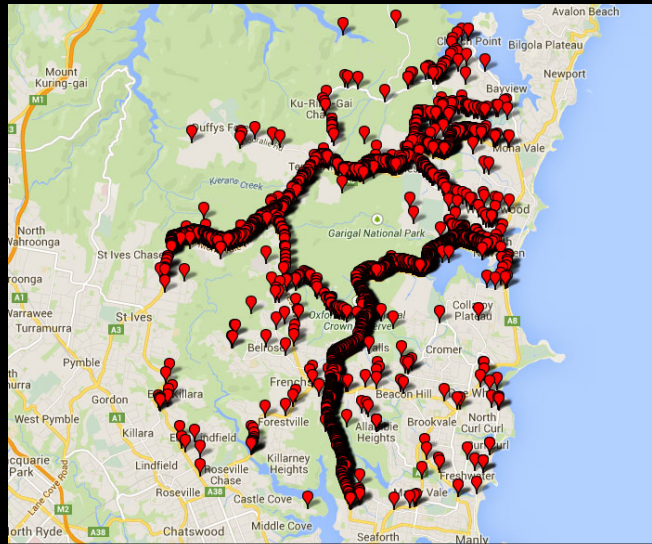
Superb fairy wren  
Image from The Conversation



## The impact of roads on connectivity

- Direct mortality or injury

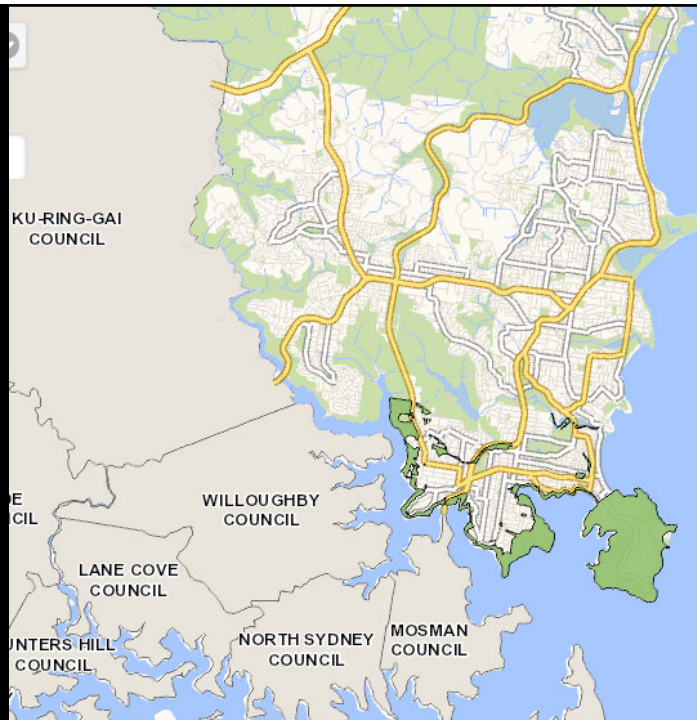
Roadkill of native animals in the Northern Beaches between September 2010 and April 2015



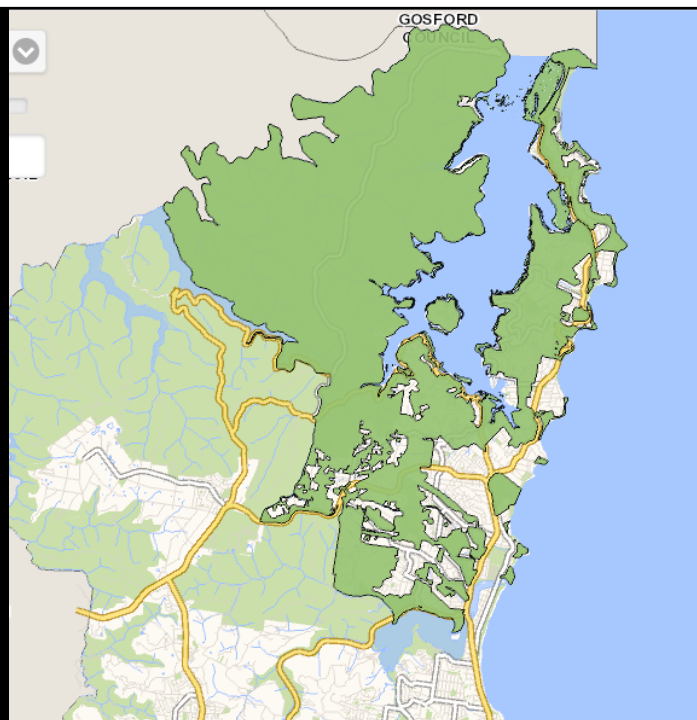
Where are the corridors  
in the  
Northern Beaches?

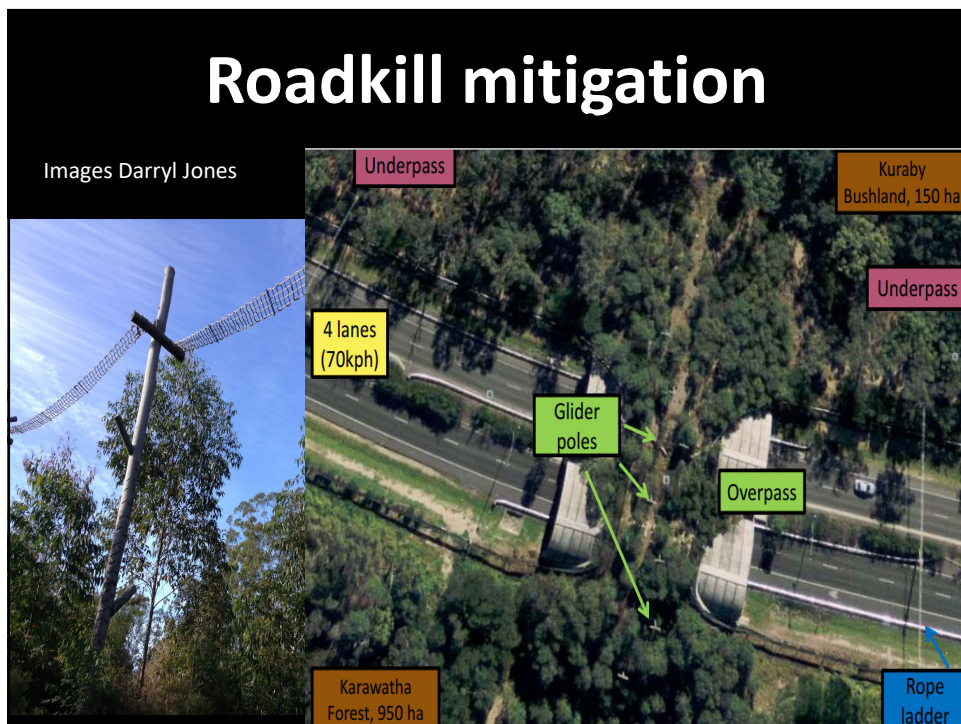
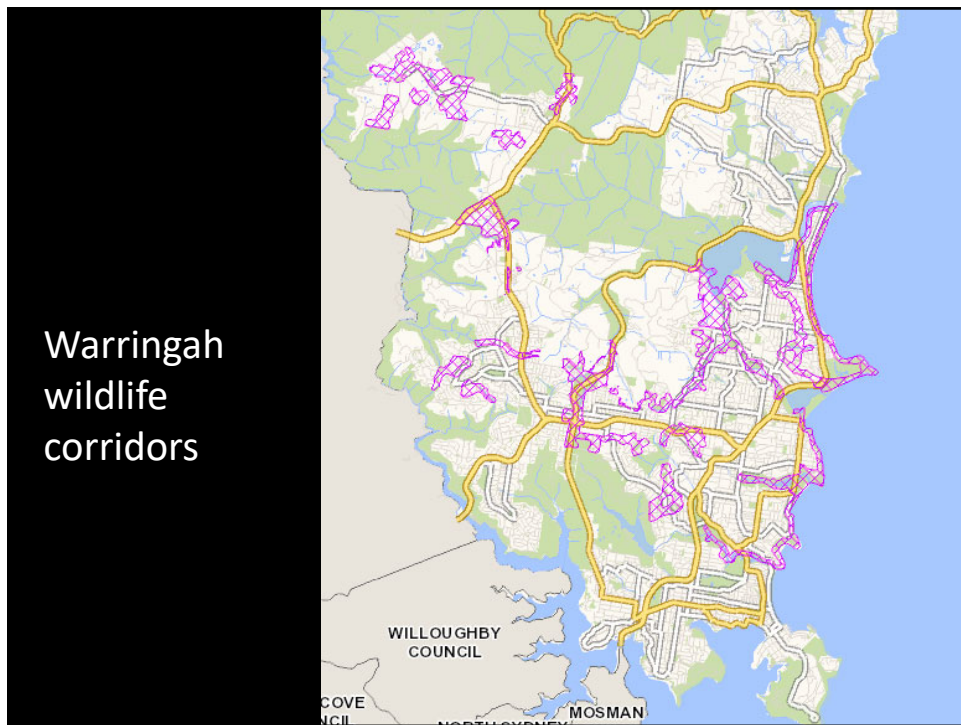


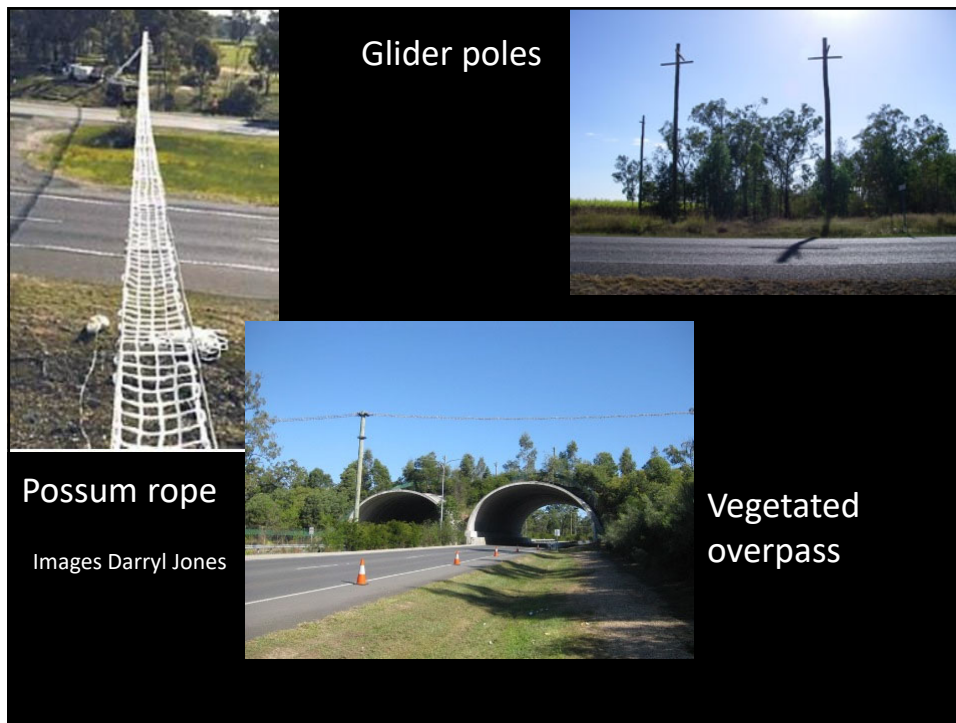
Manly  
biodiversity  
map



Pittwater  
biodiversity  
map







### Use of Compton Road overpass by microbats Measured by recording the presence of their calls



Image Darryl Jones







Animals recorded by camera trap using  
the Compton Road underpass Brisbane

Image Darryl Jones

## Mona Vale Road mitigation









Convincing Channel 9 that an overpass  
is necessary in spite of public protest

## Wakehurst Parkway + Warringah road mitigation



## Future Directions

- Develop a regional plan for connectivity, wildlife corridors and roadkill mitigation
- Ensure that Wildlife Corridors across the entire Northern Beaches are added to LEP ,DCP and local strategic plan so they are enforceable in the Land and Environment court

## Future Directions

- Fully mitigate arterial roads and install appropriate connectivity such as underpasses/overpasses
- Partially mitigate local roads through the strategic use of fencing and underpasses
- Determine which government agency is responsible for the maintenance and repairs of fences and underpasses/overpasses



## Future Directions

- Ensure large tracts of bushland are permanently protected and well managed —Weed control +most of Narrabeen Lagoon Catchment is unprotected
- Ensure roads are made safe for humans
- Monitor present populations and future populations of animals to prevent local extinctions of threatened and non threatened native wildlife

### **City of Ryde's Principles**

- Identify a sustainable source of funding for the appropriate implementation and management of principal and supplementary actions
- Modification of selected existing stormwater treatment assets
- Installation of new stormwater treatment assets
- Continue to appropriately manage of new and existing stormwater treatment assets.

### **Burwood Council's Principles**

- Identify a sustainable source of funding for the appropriate implementation and management of principal and supplementary actions
- Review of existing policies for stormwater quality management for new developments
- Review of existing policies for waste management
- Reallocation and review of the Safe & Clean Team
- Installing additional cigarette butt bins and decals (signs) directing smokers to bins
- Installation and management of public place recycling bins in highly transited areas
- Identification and condition assessment of existing Council-owned stormwater treatment assets
- Rectification of any Council-owned stormwater treatment assets (if required and / or appropriate)
- Installation of new stormwater treatment assets
- Appropriate management of new and existing stormwater treatment assets.
- Develop appropriate policies to regulate privately owned and installed stormwater assets in Burwood

**City of Ryde's Objectives**


- Reduce waste;
- Protect the local environment; and
- Improve the quality of local waterways.

**Burwood Council's Objectives**

- Ensure regular cleaning and maintenance of local areas to prevent damage to the environment;
- Provide sustainable waste management practices;
- Promote existing recycling services;
- Identify emerging waste management solutions;
- Educate the community on sustainable practices;
- Encourage the community to take pride in the cleanliness and maintenance of the area;
- Ensure planning promotes environmentally sustainable development to reduce impacts on the environment; and
- Maintain an attractive Burwood CBD

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# City of Ryde first to commit to Zero Litter to River target

 Published on 29 August 2019

The City of Ryde has become the first Council in Australia to adopt a 'Zero Litter to River' target by 2030.

The target was endorsed by Council at its meeting on Tuesday evening and will result in the implementation of a range of initiatives that will reduce litter and the flow of pollution into local waterways.

The adoption of the target means that by 2030, Council will implement initiatives to strive for zero discharge of gross pollutants into any waterway in the City of Ryde during a rainfall event.

Each year, at least eight million tonnes of plastic flow into the ocean including from rivers, which is equivalent to dumping the contents of one garbage truck into the ocean every minute. At least 80% of this plastic pollution comes from land-based sources flowing through drains and into local waterways and oceans via stormwater runoff.

City of Ryde Mayor, Cllr Jerome Laxale, said committing to a Zero Litter to River target underscored the City of Ryde's commitment to reduce waste, protect the local environment and improve the quality of local waterways.

"A Zero Litter to River target in the City of Ryde will prevent more than 1,500 tonnes of gross pollutants entering downstream waterways such as the Lane Cover River and Parramatta River," Cllr Laxale said.

"It will also help us achieve our goal, with the assistance of the Parramatta River Catchment Group, to make the Parramatta River swimmable again."

Achieving the target will involve the following principal actions:

- Identify a sustainable source of funding for the appropriate implementation and management of principal and supplementary actions

- Modification of selected existing stormwater treatment assets
- Installation of new stormwater treatment assets
- Continue to appropriately manage of new and existing stormwater treatment assets.

The City of Ryde will now develop a blueprint on how to achieve the target.

“Our waterways provide many benefits, including the air we breathe, climate regulation, food, recreation, and amenities. However, the amount of plastic in our oceans and upstream waterways is at crisis point and needs immediate action,” added Cllr Laxale.

## News Categories

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Mayor ([https://www.ryde.nsw.gov.au/Council/Media-Centre/News-and-Public-Notices?dlv\\_LV%20Public%20News=\(dd\\_News%20categories=Mayor\)\)](https://www.ryde.nsw.gov.au/Council/Media-Centre/News-and-Public-Notices?dlv_LV%20Public%20News=(dd_News%20categories=Mayor))))

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Building and Development ([https://www.ryde.nsw.gov.au/Council/Media-Centre/News-and-Public-Notices?dlv\\_LV%20Public%20News=\(dd\\_News%20categories=Building%20and%20Development\)\)](https://www.ryde.nsw.gov.au/Council/Media-Centre/News-and-Public-Notices?dlv_LV%20Public%20News=(dd_News%20categories=Building%20and%20Development))))

Transport ([https://www.ryde.nsw.gov.au/Council/Media-Centre/News-and-Public-Notices?dlv\\_LV%20Public%20News=\(dd\\_News%20categories=Transport\)\)](https://www.ryde.nsw.gov.au/Council/Media-Centre/News-and-Public-Notices?dlv_LV%20Public%20News=(dd_News%20categories=Transport))))

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## MAYORAL MINUTE

### (ITEM MM12/19) ZERO LITTER TO RIVER

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MAYORAL MINUTE BY CR JOHN FAKER (MAYOR)

#### Summary

Our rivers, oceans and waterways provide many benefits, including the air we breathe, climate regulation, food, recreation, and amenity. However, the amount of plastic contained in these items are at crisis levels and needs immediate action.

Each year, at least eight million tonnes of plastics flow into the ocean — which is equivalent to dumping the contents of one garbage truck every minute. If no action is taken, this is expected to increase to two per minute by 2030 and four per minute by 2050 — and, by 2050, there will be more plastic than fish in our oceans by weight.

The amount of 80% of plastic pollution in our ocean comes from land-based sources flowing through drains to our waterways and oceans via stormwater runoff. Urban stormwater runoff often also contains harmful levels of other less visible (but extremely damaging) pollutants, such as suspended solids, heavy metals, nutrients and bacteria. Stormwater is recognised as the key source of pollution in our urban waterways and the vast majority of marine debris entering Australian waters are land-based and generated locally.

#### Existing Initiatives

Burwood is actively working with our local community to address littering to help keep our community beautiful and to protect our local flora and fauna and reduce the discharge of litter that makes its way to our local and neighbouring rivers and downstream waterways.

This includes the following:

- Beautifying areas so that they are less likely to attract litter
- Employing a Safe & Clean Team to daily patrol and clean our business streets
- Provision of container deposit scheme stations
- Development and promotion of anti-littering murals/public art to remind and educate people to do the right thing
- Be an active member of the “Get the Site Right” Parramatta River Catchment Regulatory Program a collective team of councils focusing on reducing pollutants from building sites entering the waterway system
- Development and distribution of educational material to combat littering
- Enforcement – focusing on the issue through the services of a Waste Investigations Officer (including issuing warnings and fines for littering).
- Installation and management of additional Gross pollutant traps

Gross pollutant traps (GPTs) are currently installed within Wangal Park. These GPTs are similar to underground garbage bins that intercept 'gross pollutants' (defined as debris items larger than five millimetres such as cigarette butts) within the stormwater drainage network during rainfall events.

GPTs subsequently help prevent the discharge of pollution into downstream waterways, and can be large underground chambers or small 'gully baskets' (inserted into stormwater gully pits). Whilst GPTs are highly effective at removing gross pollutants, they also remove other pollutants such as sediment, heavy metals and bacteria.

### **'Zero Litter to River' for Burwood**

Burwood should set a goal of 'Zero Litter to River' by 2030. In technical terms, this means that, by 2030, there will be zero (or at least minimal) discharge of any 'gross pollutants' to any waterway (creek, river or harbour) during any rainfall event up to a three month rainfall (98.17% annual exceedance probability) event.

Achieving this target will involve the following principal actions:

- Identify a sustainable source of funding for the appropriate implementation and management of principal and supplementary actions
- Review of existing policies for stormwater quality management for new developments
- Review of existing policies for waste management
- Reallocation and review of the Safe & Clean Team
- Installing additional cigarette butt bins and decals (signs) directing smokers to bins
- Installation and management of public place recycling bins in highly transited areas
- Identification and condition assessment of existing Council-owned stormwater treatment assets
- Rectification of any Council-owned stormwater treatment assets (if required and / or appropriate)
- Installation of new stormwater treatment assets
- Appropriate management of new and existing stormwater treatment assets.
- Develop appropriate policies to regulate privately owned and installed stormwater assets in Burwood

Council's existing litter reduction strategies should also be continued and, where appropriate, enhanced to assist in achieving the aforementioned target and reduce the workload for existing and new stormwater treatment assets.

A zero waste target will prevent tonnes of gross pollutants (over 25,000 standard wheelie bins of pollution) entering downstream waterways and the ocean every year. A target will greatly assist in protecting the health of our waterways and oceans, and ultimately all of us.

### **Operational Plan Objective**

- 3.1.3 Ensure regular cleaning and maintenance of local areas to prevent damage to the environment
- 3.2 Provide sustainable waste management practices
  - 3.2.1 Promote existing recycling services
  - 3.2.2 Identify emerging waste management solutions
- 3.3 Educate the community on sustainable practices
  - 3.3.3 Encourage the community to take pride in the cleanliness and maintenance of the area
- 3.4.3 Ensure planning promotes environmentally sustainable development to reduce impacts on the environment
- 5.3.2 Maintain an attractive Burwood CBD

### **RESOLVED (*carried unanimously*)**

1. Burwood endorses a 'Zero Litter to River' target across the entire Local Government Area by 30 June 2030.
2. The Acting General Manager, in consultation with Stormwater NSW, industry and environmental groups, prepares a report to be brought back to Council prior to the 2020-2021 budget process to demonstrate the best alternatives for how this target can be achieved including timeframes and budgets.

3. The Acting General Manager prepares a report and conducts an audit of stormwater pits to identify what filtering or gross pollutant trap solutions are already being used, what other locations could benefit from their installation and report back to Council by February 2020.
4. The Acting General Manager reviews existing policies for waste management and investigates implementing a waste management strategy and prepares a report to be brought back to Council prior to the 2020-2021 budget process to demonstrate the best alternatives for how this target can be achieved including timeframes and budgets.

**Attachments**

There are no attachments for this report.



## **ESRG Workshop to develop a Zero Waste to Oceans Charter - 20 February 2020**

Staff to collate the following identified principles and objectives into a meaningful Charter for endorsement by the ESRG at the May meeting with a view to Council adoption.

### **PRINCIPLES**

- Identify and prioritise wastes of concern
- Define clearly the meaning of waste
  - What level of waste treatment is efficient and pragmatic
- Reduce waste in a natural environmental way – environment free of contamination
  - Natural Methods (settling ponds) vs. Mechanical Methods (pits/trash racks)
  - Smart planning of Stormwater Engineering
- Incentivising reduced plastic use
  - Reduced council rates for not using plastic
  - Taxing on enterprise using plastics
  - Recycle waste plastic collected – Somersby IQ Group – sell as a source for future plastics and funding
- Monetising waste
- Minimise threats to river systems and water ways
  - Test publics enthusiasm for waste removal & willingness to pay
  - Best technology use
  - Evaluate
- Engage community (business/residents/visitors/schools) as team members
  - Give ownership to community
  - Educate community in sustainable practice
  - Packaging – compel businesses in LGA to be responsible to take back all packaging on products
- Update innovation to its best practice
  - New novel ways to capture waste
- Analyse, Evaluate, Change
  - Accurate data on sources of waste
- Collaborate with bordering Councils
- Maintain Northern Beaches as an attractive place to live

## OBJECTIVES

- Public Education –
  - How business + Individuals can contribute to **ZERO** waste
  - Path of waste from individual to street to sea
  - Micro plastics on humans and environment
  - Promote human health and wellbeing
- Clear Creek and Stream
  - Using natural systems
  - Set aims/objectives for level of water quality
- Urban Cooling –
  - Water
  - Microclimates mitigate urban heating effects
- Carrot and stick – reward and punishment to have appropriate environmental management
  - Incentivise
- Embellish waste program as ongoing improvement
  - Waste **DOWN**, Resource recycling/composting **UP**
  - Recycle water
  - Cooling Public Spaces
  - Set measureable goals – tonnes waste/month, matrix for visible comparison
  - Monitoring program to demonstrate successful elimination of waste from waterways
- Maintain wildlife & biodiversity
  - Reintroduce platypus into Deep Creek – need clean water
- Review best practice for Stormwater Control – do we meet these?
- Achievable targets for infrastructure
- Council run clean-up events. Not just local volunteer groups
- No balloons policy on Council headlands/foreshores/beaches
- Appreciation of passive recreation areas in parks – not just active sports use
- More Compliance officers for better response time
- Strengthen - BASIX WELS NABERS
- Approach companies (McDonalds, 7/11) to do waste audits to reduce plastics