

# **MINUTES**

## **NARRABEEN LAGOON STATE PARK ADVISORY COMMITTEE**

**HELD ON TUESDAY 12 JUNE 2018**

**Todd Dickinson**

Executive Manager, Natural Environment & Climate Change

**Voting Members**

Northern Beaches Council – Chair	Michael Regan
Northern Beaches Council CEO representative	Mr Todd Dickinson
Metropolitan Local Aboriginal Land Council	Mr Allen Madden / Mr Nathan Moran
Office of Environment and Heritage – National Parks	Mr Stephen Higham
Department of Industry - Lands	Ms Ilana Waldman
NSW Department of Primary Industries (Fisheries)	Ms Sarah Conacher
Community Representative – Environment	Dr Conny Harris
Community Representative – Business	Ms Francesca Dolly
Community Representative – Recreation	Ms Julie Whitfield
Community Representative – Rate Payer / Community	Ms Pamela Johnston

**Officers**

Manager Coast and Catchments	Mr Adrian Turnbull
Senior Environment Officer – Lagoons	Ms Sue Jacobs
Administration Coordinator	Ms Denise Regan

**Visitors**

Manager, Open Space and Recreation Planning	Mr Damian Ham
Manager, Parks Assets – Planning Design & Delivery	Mr Jeremy Smith
Manager, Stormwater & Floodplain Engineering	Mr John Heptonstall
Manager, Strategic and Place Planning	Ms Liza Cordoba
Team Leader, Floodplain Planning & Response	Mr Duncan Howley

Quorum - 50% of the membership including at least one employer representative.

**Minutes of the Meeting of the Narrabeen Lagoon State Park Advisory Committee held on Tuesday, 12 June, 2018 in the Flannel Flower, Civic Centre, Dee Why, commencing at 4:00 pm.**

**1 Attendance**

Present: Liza Cordoba , Stephen Highham; Jeremy Smith, Conny Harris, Duncan Howley, John Heptonstall, Ilana Waldman, Damian Ham, Todd Dickinson, Denise Regan, Adrian Turnbull, Sue Jacobs (from 4:18), Michael Regan (from 4:30)

Apologies: Julie Whitfield; Francesca Dolly, Pamela Johnston

Meeting opened at 4:11pm.

**2 Confirmation of minutes**

The minutes of the meeting held 12 April 2017 were confirmed by Conny Harris, and seconded by Todd Dickinson, however in the absence of a quorum the minutes were noted rather than confirmed.

**3 Matters arising from previous minutes**

**3.1 Proposed site inspection / tour**

Conny Harris gave an update of her 'catchment traverse', a four hour walk taking in sites around the catchment. She is leading a public walk on 12 August but is prepared to lead a walk especially for members of the NLSPAC, either a bush walk showcasing the features of the catchment or a walk to visit problem sites. Tuesday 31 July or Tuesday 7 August were suggested. Ilana Waldman suggested that she would invite the MLALC to attend.

**ACTION:** Council to circulate date options for members to respond to.

**3.2 Minutes to Council's website**

Draft minutes now go onto the website following review and agreement by committee members. The minutes of the last meeting are on the website, as is the annual report.

**RECOMMENDATION:** That the Advisory Committee note this information.

**3.3 Potential further expansion of State Park**

There are no current plans for expansion of the State Park. None of the land within the catchment that is owned by State agencies can be included at this stage. Crown Lands and MLALC are involved in a formal process to address unresolved land claims for the entire northern beaches area. Once this process is complete there may be scope for further review of the reserves making up the State Park.

**RECOMMENDATION:** That the Advisory Committee note this information.

### **3.4 Discussion on the future direction of the State Park**

This item was deferred until after Item 4.1 when a quorum was present. The Advisory Committee has met the goals set for it by the former Administrator. It has assisted with the expansion of the State Park, developed a decision support tool and provided feedback on the initial direction of the State Park. To maintain its relevance, the committee needs to redefine its role and identify the issues it should now focus on.

The Committee provided feedback on issues/opportunities and gave suggestions for how a new Committee focus could address these issues. The following new Committee Objectives were identified as a result:

- To act as a key advisory group for prioritising and informing strategic initiatives that relate to the State Park
- To advise on annual priorities in the Delivery Plan
- To act as a reference group on strategic matters impacting on the State Park including:
  - Environmental management
  - Strategic land use planning;
  - Land tenure issues;
  - Entrance management and floodplain management strategies;
  - Bushfire management activities.
- To assist in developing a Plan of Management for Narrabeen Lagoon State Park (within 3 years, by request of DOI Lands).
- To assist in resolving conflicts between different types of community uses affecting the State Park.

It was noted that Council could apply for funding under the Crown Reserve Improvement Fund (CRIF) to prepare the Plan of Management.

**RECOMMENDATION:** That the Terms of Reference be updated to reflect the roles identified by the committee.

**ACTION:** Staff to update Terms of Reference to reflect the new objectives and purpose of the Advisory Committee and circulate to committee members for their endorsement.

## **4 Reports to Committee**

### **4.1 Overview of the Open Space Strategy**

Damian Ham gave a presentation on Northern Beaches Open Space Strategy (see attached).

The Open Space Strategy will guide long term development and management of open spaces within the LGA. It will link with Plans of Management and the open space strategies of former councils.

Council will be seeking community input into the Strategy. As part of this, a workshop with the Advisory Committee will be held later this year, date to be advised. Input will be sought on issues such as management of recreation trails in the catchment and recreational use of the lagoon waterbody.

*The Chair attended the meeting at 4:30 and a quorum was achieved.*

**RECOMMENDATION:** That the Advisory Committee note this information.

## **4.2 Recreational Trails**

Jeremy Smith gave a presentation on recreational trails within the State Park (see attached).

The section of the Narrabeen Lagoon track that runs close to the Wakehurst Parkway is currently presenting an unacceptable safety hazard, due to both its proximity to the road and the number of people using the track (up to 4,000 bikes and 2,500 pedestrians per day).

Detailed environmental investigations have taken place and the option with least environmental impact is to construct an aquatic boardwalk in this section and to restore the current trail area to natural bushland. Design features that minimise the environmental and visual impact of the boardwalk include the materials to be used for the boardwalk; location of the boardwalk; colour and profile of the boardwalk; and the configuration of the approaches on and off the boardwalk.

An update was also given on a pedestrian bridge over the lagoon on the Pittwater Road bridge.

**RECOMMENDATION:** That the Advisory Committee note this information.

## **4.3 Floodplain Risk Management and Planning**

John Heptonstall gave a presentation (see attached).

The lagoon has flooded on many occasions in recent times, due to either runoff from the catchment, storm surge from the ocean or a combination of both (as happened in June 2016). The flood level in June 2016 was similar to the flood level on at least four other occasions since 1942.

The Narrabeen Lagoon Floodplain Risk Management Study is nearing completion and has investigated options including: entrance management options; location specific levees; drainage upgrades; amendments to Ocean Street Bridge; upgrades to Flood Warning Systems; and flood awareness campaigns. The draft report will be presented to the Northern Beaches Flood Committee in July before being presented to council for public exhibition. A Community Consultation phase will follow and allow for feedback on the options.

The Wakehurst Parkway flood mitigation project is investigating mitigation options for very frequent floods (those that occur several times per year). Initial studies have included survey, ecology and sediment analysis. Modelling of different scenarios is being undertaken, with the feasibility study to be completed by the end of 2018. Design of the recommended option is likely to be completed by late 2019.

*The Chair left the meeting at 5:15pm, resulting in the loss of the quorum.*

In relation to managing the flood risk in Narrabeen Lagoon, staff have access to real time measurements of lagoon water levels. In addition, a real time predictive model has been developed to allow staff to better estimate the lagoon levels and timing of these levels following rainfall. This allows for better emergency response planning. This model takes into account current and predicted rainfall, actual rainfall, tide levels, entrance wave height and wave direction. As well, Council is developing processes with State Emergency Service, Office of Environment and Heritage and Bureau of

Meteorology (BoM) to be compatible with the BoM Flash Flood Warning Guidelines (FLARE).

**RECOMMENDATION:** That the Advisory Committee note this information.

#### **4.4 Overview of progress with Ingleside development**

Liza Cordoba gave a presentation (see attached).

Approximately 1/3 of the Ingleside precinct site is within the catchment of Narrabeen Lagoon. The Ingleside Precinct Plan aims to be a sustainable development, with 'bio-certification' and above BASIX standards to be applied. In particular, the development of the area will need to ensure it deals with the potential flooding of areas below the site such as Warriewood Valley, Bayview and Narrabeen.

Strategic bush fire risk assessment is also being undertaken and will be important for the layout of the area. It is expected that the Minister will publically exhibit the Draft Planning Package later in 2018.

**RECOMMENDATION:** That the Advisory Committee note this information.

### **5 General Business**

#### **5.1 Feedback from committee members on condition and management of State Park**

This item was deferred until the committee has a quorum.

### **6 Next meeting**

To be advised.

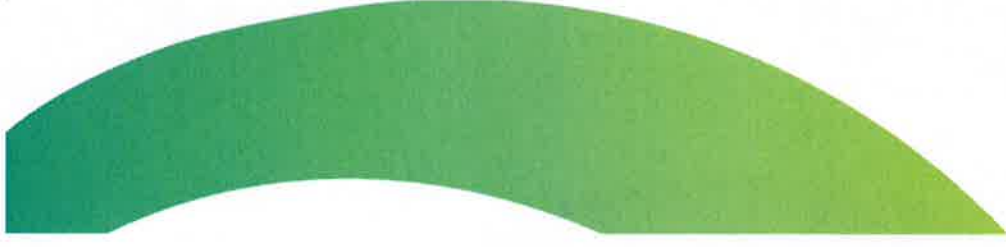
Meeting closed at 5:54pm.

# Narrabeen Lagoon Aquatic Boardwalk

June 2018



Narrabeen Lagoon Multi Use Trail Stage 3 -  
Existing Condition





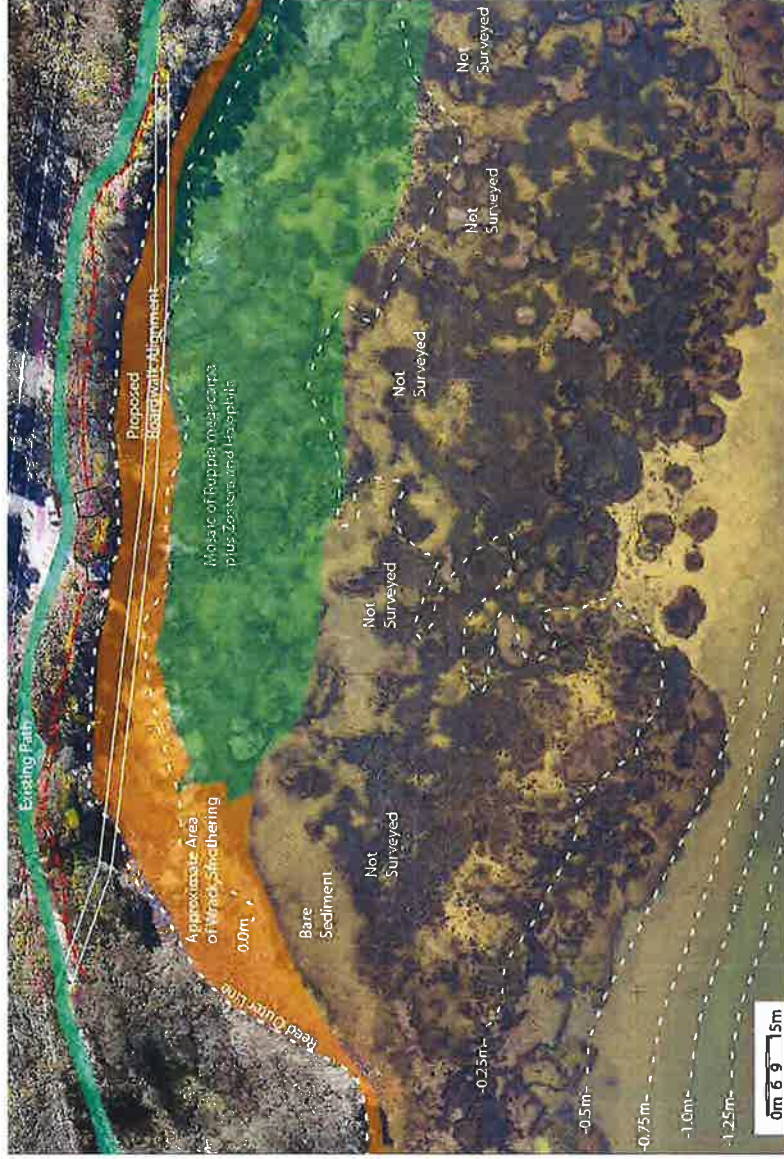
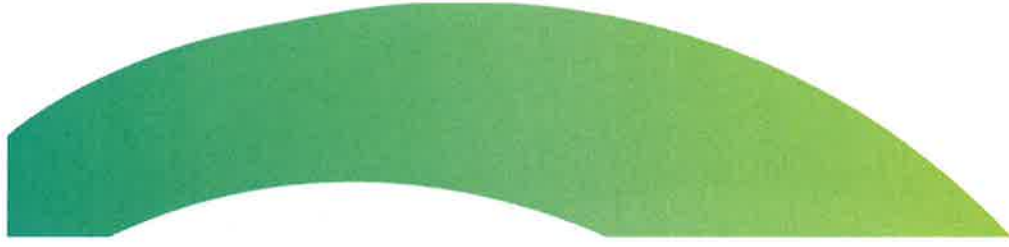
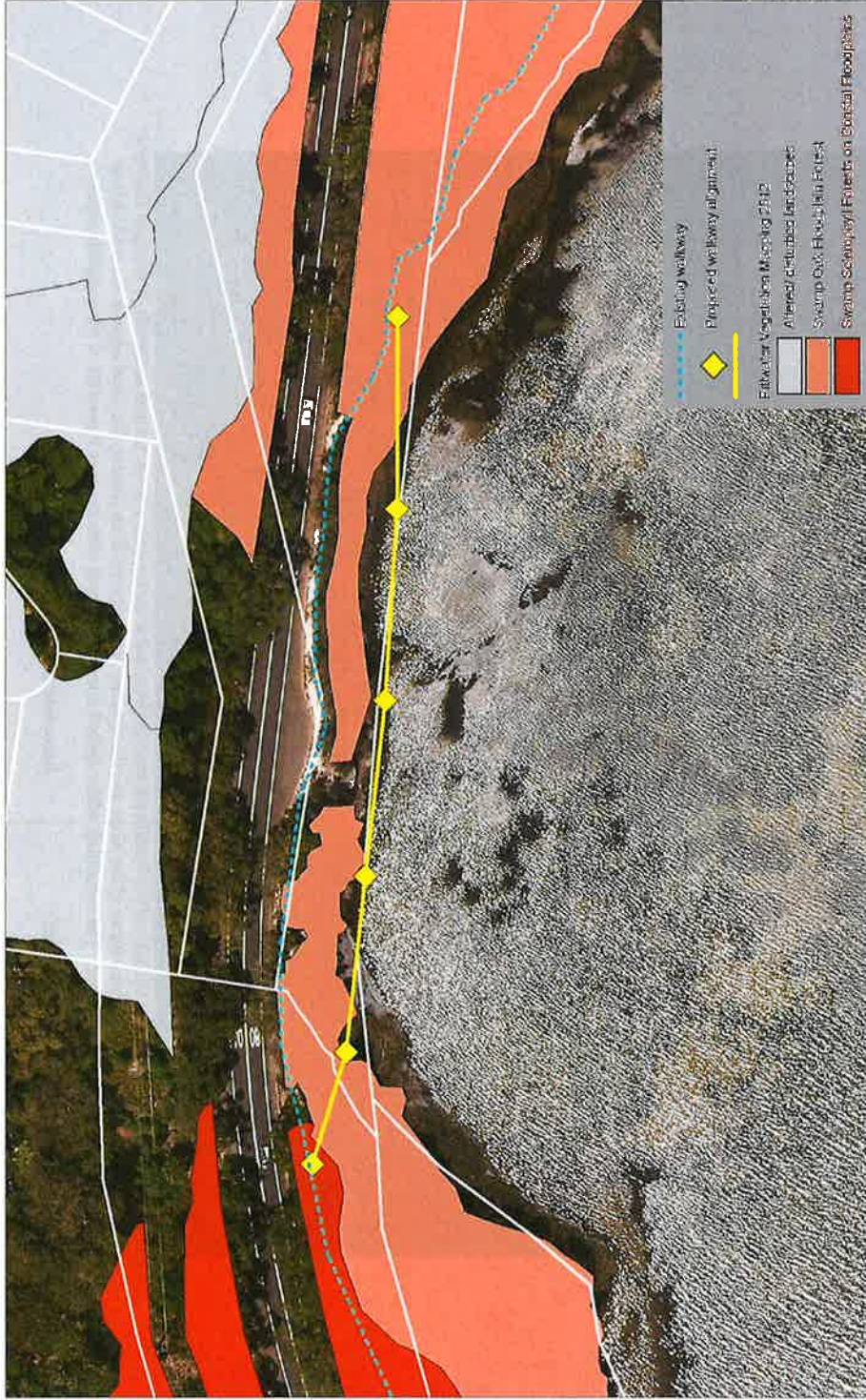
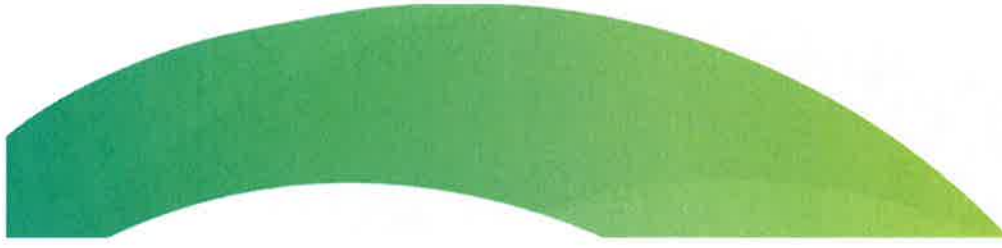
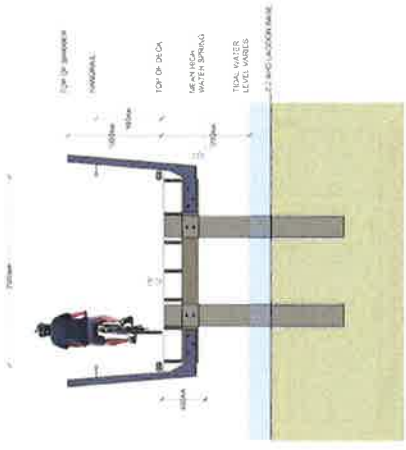
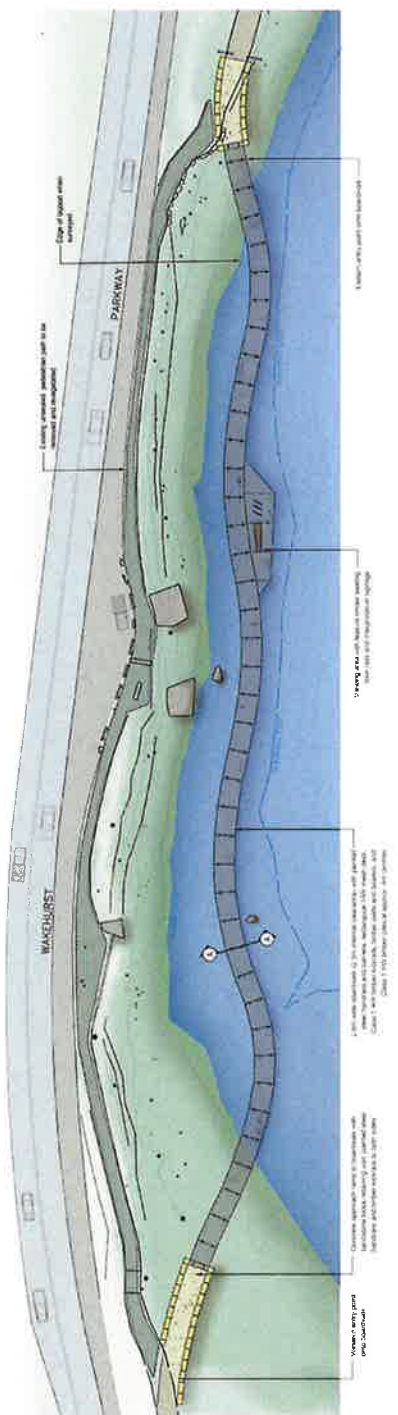
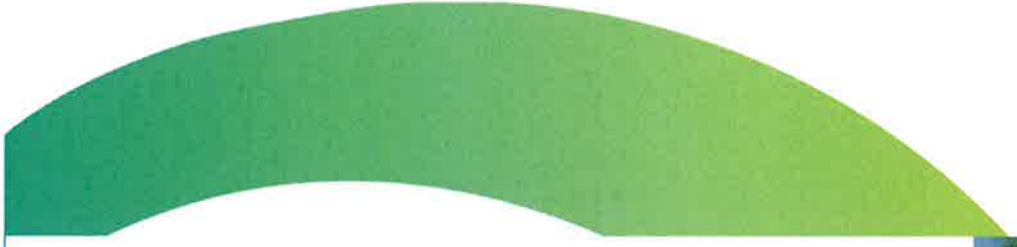


Figure 10 Aquatic Habitats in the vicinity of the boardwalk section proposed to replace the narrow section alongside Warringah Parkway. The red dashed line indicates the bottom of the slope and the riparian zone extends from there to the outer edge of the reef beds as indicated by the white dashed line. The remaining white dashed lines show depth contours (see Appendix A for complete survey).









THREE-DIMENSIONAL ILLUSTRATION OF PROPOSED BOARDWALK

EXISTING SITE CONDITIONS AND ADJACENT VIEWS

TYPICAL CROSS SECTION BOARDWALK  
SCALE 1:25 @ A1



# CONCEPT DESIGN NARRABEEN LAGOON MULTI-USE TRIAL-STAGE 3





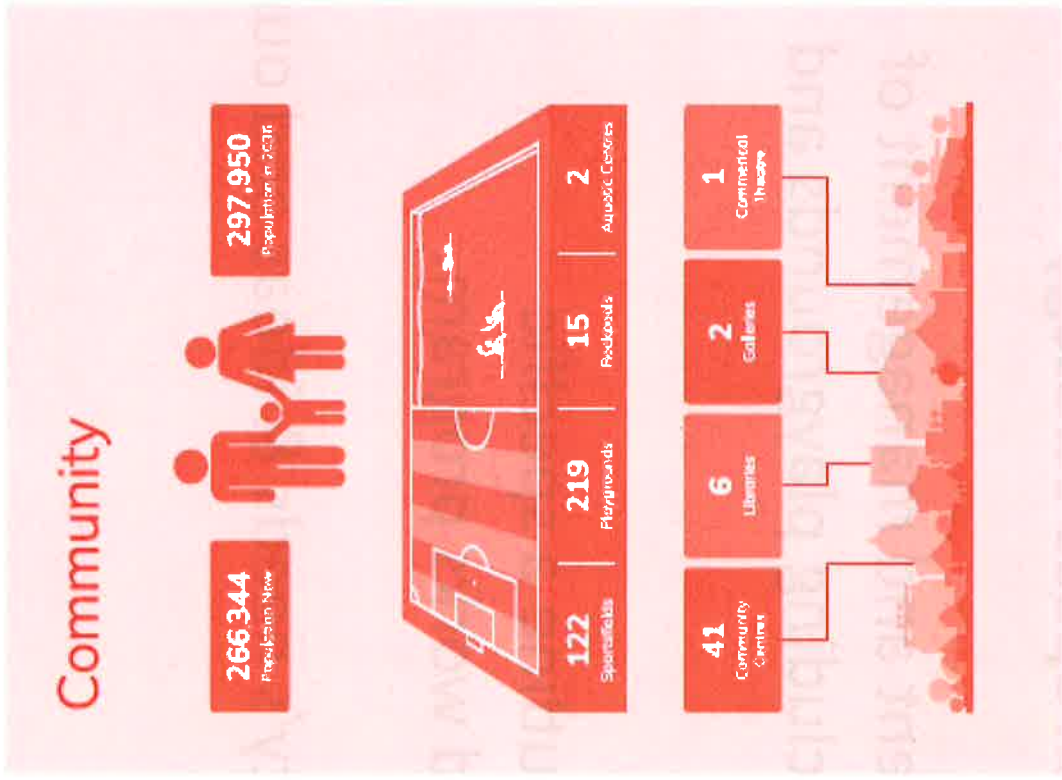
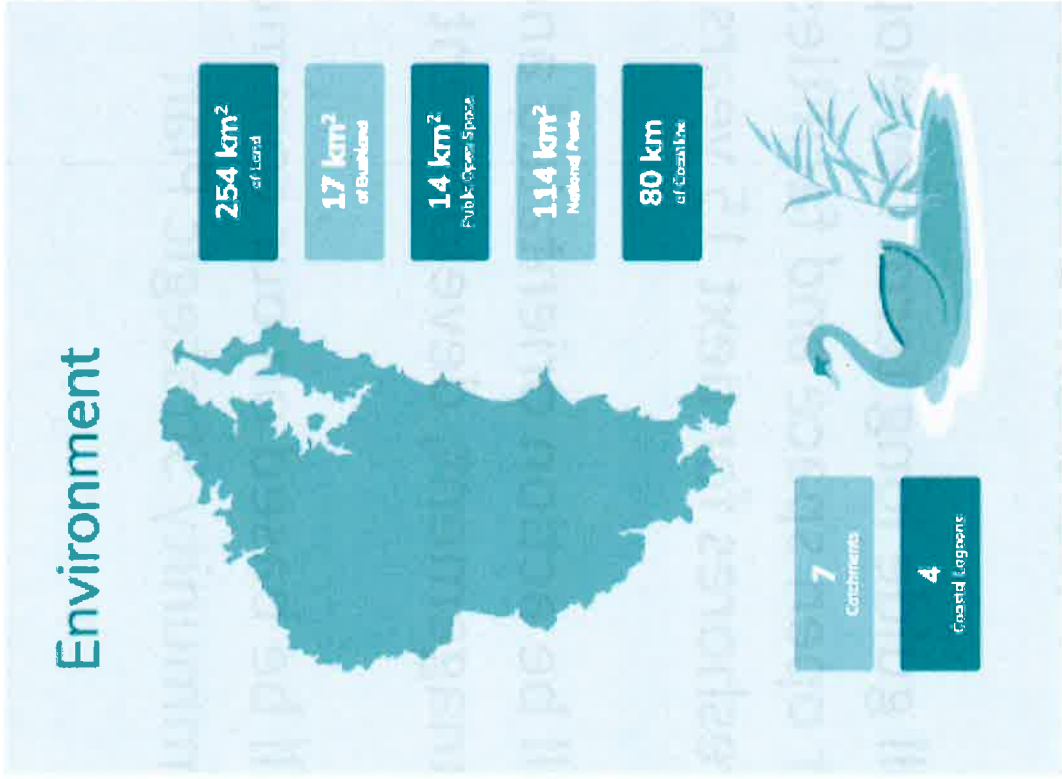
## **Northern Beaches Open Space Strategy**

- Will guide long term development and management of our open space and facilities including playgrounds and foreshores for next 15 years.
- Will be action orientated and outline a specific management, development and works program.
- Will be based on our community's needs & ideas and our Community Strategic Plan



Northern Beaches Open Space Strategy will have a broad impact

## The Northern Beaches Community



Northern Beaches Open Space Strategy will align with and be informed by the  
Community Strategic Plan



Shape 2028  
Northern Beaches  
Community Strategic Plan 2018 - 2028



northern  
beaches  
council

Northern Beaches Open Space Strategy will be a companion piece to the Sportsgrounds Strategy (2017).





## **Northern Beaches Open Space Strategy**

- Will consider the strategic direction of the three historical Councils, Manly, Warringah and Pittwater. The following slides highlight some of the key documents to consider and review.



Department of  
Primary Industries



Warringah  
Council

## Narrabeen Lagoon Plan of Management



# Pittwater Public Space and Recreation Strategy 2014



The recommendations in this Strategy will be taken into  
consideration over the long term as part of Council's integrated

October 2014





# *A Spirit of Play*

WARRINGAH'S OPEN SPACE STRATEGY  
NOVEMBER 2015

Adopted November 2015

WARRINGAH.NSW.GOV.AU

**W**  
WARRINGAH  
COUNCIL

# Next Steps

1. Background research
2. Community engagement on use and needs – including with the NLSPAC
3. Use, needs and issues analysis
4. Discussion paper
5. Community engagement – including with the NLSPAC
6. Draft Strategy
7. Community engagement – including with the NLSPAC
8. Final Strategy
9. Council adoption







# Floodplain Risk Management and Planning

Briefing to Narrabeen Lagoon State Park Advisory Committee

Tuesday 12<sup>th</sup> June, 2018



# Overview

- Narrabeen Lagoon Flood Behaviour
- Current Flood Management Practices
- Narrabeen Lagoon Flood Risk Management Study and Plan
- Current and future development of Management Practices

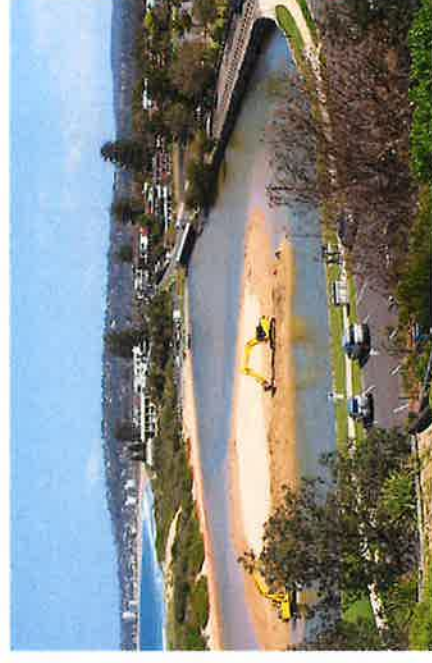
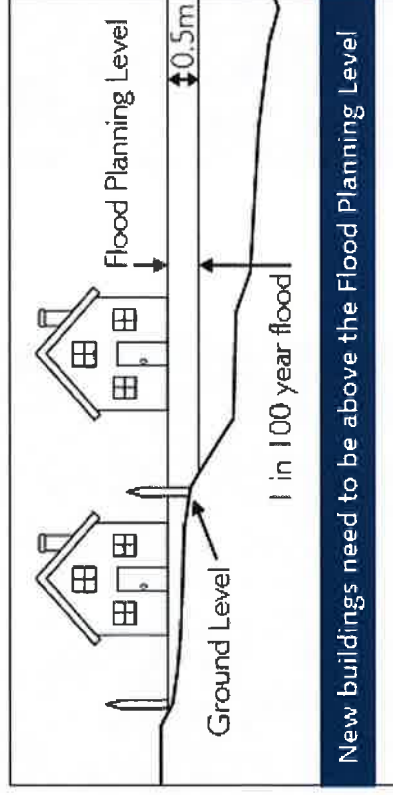


# Narrabeen Lagoon Flood Behaviour





# Current Flood Management Practices



# Historic Flooding

Date	Flood level (m AHD)	Primary Flood Mechanism
March 1942	2.7	Runoff
June 1956	2.15	Storm surge
May 1974	2.42	Storm surge
April 1986	2 – 2.2	Runoff & Storm surge
April 1998	1.9	Runoff
August 1998	1.8	Runoff
March 2011	1.8	Runoff
June 2016	2.2	Runoff & Storm surge

# Narrabeen Lagoon Floodplain Risk Management Study and Plan

- Operating under the 2003 FRMS&P
- Updated Narrabeen Lagoon Flood Study (2013) adopted by both Pittwater and Warringah Councils which confirms the existing and future flood behaviour in the catchment
- Floodplain Risk Management Study currently looking at options for flood mitigation
- Options being investigated include:
  - Entrance management options
  - Location specific levees
  - Drainage upgrades
  - Amendments to Ocean Street bridge
  - Upgrades to Flood Warning Systems
  - Flood awareness campaigns

# Wakehurst Parkway Flood Mitigation

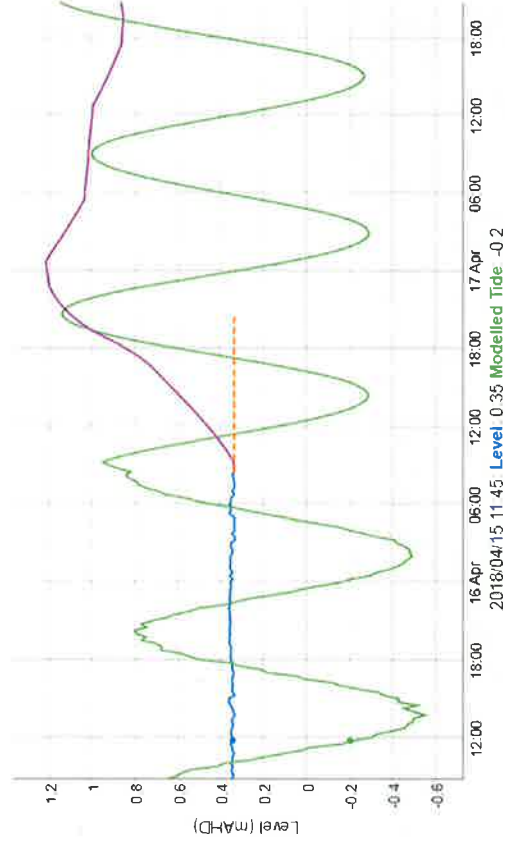
- Mitigation options for very frequent floods (once every 6 months)
- Work to date: survey, ecology, sediment analysis, flood modelling of options
- Current Phase: Flood Study / Options Development
- Feasibility study to be completed November 2018
- Design to be completed August 2019
- Construction to be completed June 2020



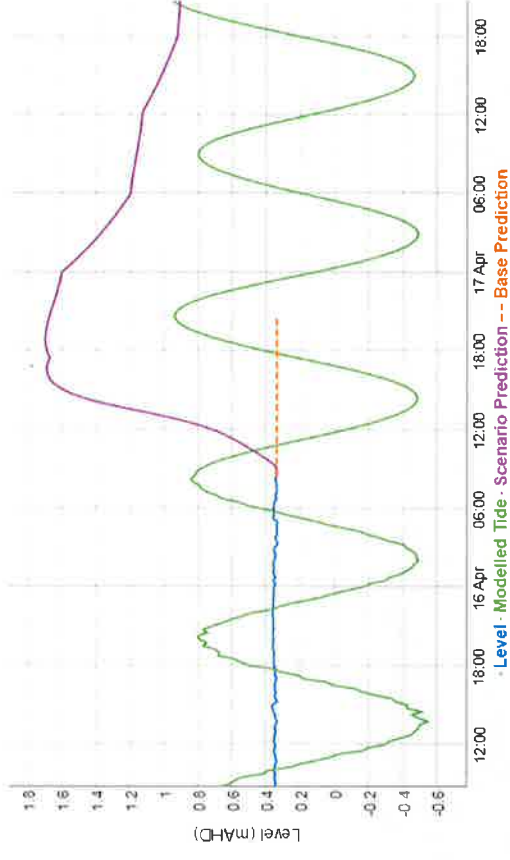
# Making improvements

- Developing more sophisticated entrance condition prediction and response capability
- Real time measurements of lagoon entrance condition
- Examine existing management options such as entrance clearance cycle and alternate options
- Developing processes with SES, OEH and BOM to be compatible with BOM Flash Flood Warning Guidelines (FLARE)
- Flood Information Tool – Predictive Modeling for Emergency Response

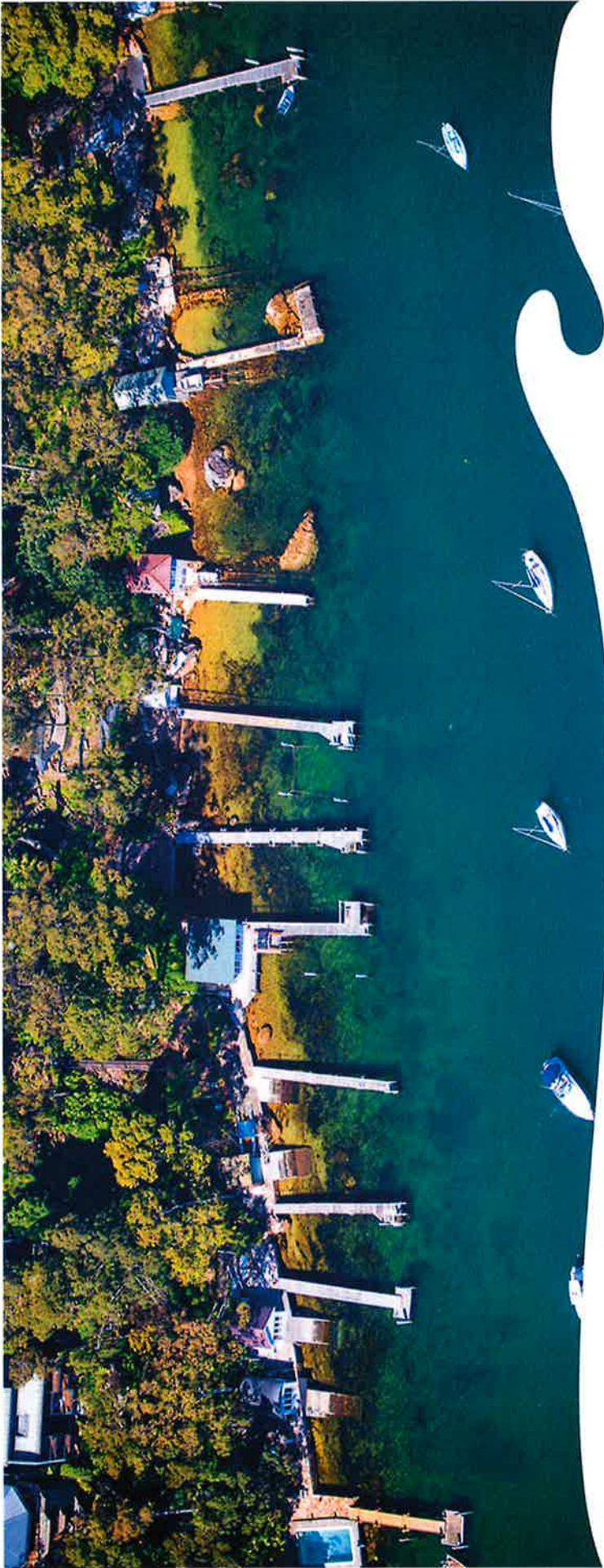
# Flood Information Tool



- 10mm/hr for 10 hours



- 30mm/hr for 5 hours





# Ingleside Precinct Plan

A project with NSW Government since 2013







# Background and Key Milestones

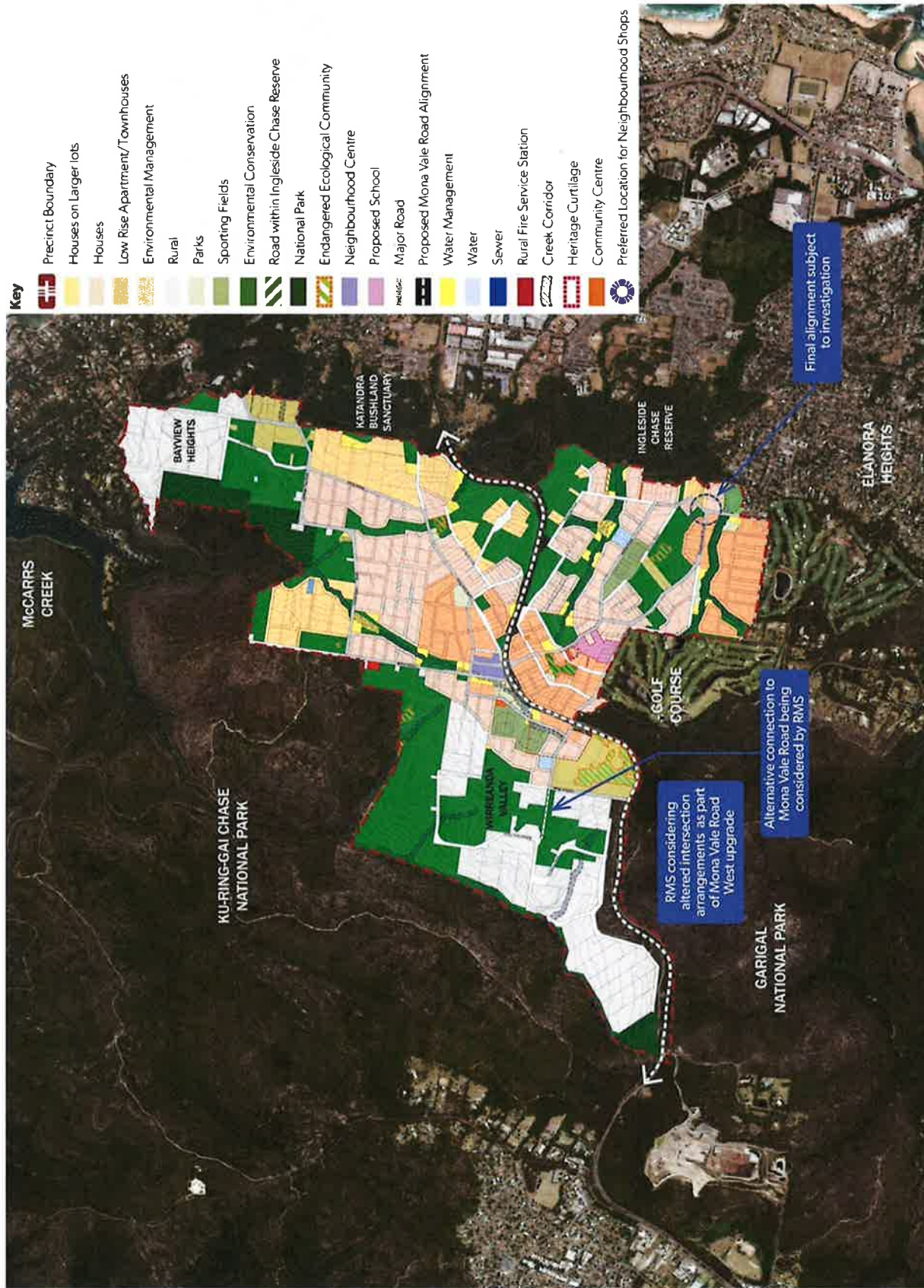
- 1960's Identified for land release
- Feb 2013 Council resolution to participate in a precinct planning approach to investigate the urban development potential of Ingleside – list of matters to be addressed
- July 2013 “Your Ideas today, your Ingleside Community Tomorrow”  
Establishment of the Ingleside Community Reference Group
- Mar & Nov 2014 Community Workshops – Round 1 (Develop the vision) & Round 2
- Aug & Oct 2015 Public Release - 3 Draft Studies then Additional 3 Draft studies
- Dec 2016 to Feb 2017 Minister Announces Ingleside as a “Priority Growth Area”, releases Draft Structure Plan for community consultation
- 2017 onwards Review 426 responses to consultation.  
Undertake additional work for Biodiversity Certification, modelling – water cycle and traffic, Bushfire Risk Assessment.  
Relationship with Mona Vale Road Upgrade (RMS)
- Dec 2017 Sustainability Forum – *key opportunities and challenges/ obstacles for achieving these sustainability opportunities*





# ***“A connected, liveable and sustainable community that embraces and respects its landscape setting”***

- 700 hectares
- 40% development
- 30% conservation
- 30% remain in current state
- 3,400 new dwellings
- Affordable housing – up to 10%
- Diverse mix of housing product
- 6 sports fields
- 1 primary school
- 2 community centres
- Neighbourhood centre with local shops
- Biodiversity Certification
- Australian Best Practice under GreenStar Communities





# Sustainability Credentials

- Target – Australian Best Practice under GreenStar Communities
- The precinct is ‘bio-certified’. No net loss of flora and fauna
- Link vegetation communities and fauna habitat with adjoining national parks/reserves through ecological corridors
- Strategic Bushfire Risk Assessment
- Green plan – urban heat island effect
- Achieves Water Targets - +/-5% environmental flows and +/-10% groundwater flows across whole precinct
- Above BASIX – Water & Energy
- Active travel network



# Next Steps

