

5. That the affected residents in Bellevue Avenue be advised of the 'No Stopping' restrictions which will apply.
6. That the applicant advises the various emergency services of the closure.
7. That the closure be advertised in "The Manly Daily" the week prior to the event.
8. That a copy of the new Public Liability Insurance which covers the date of the event be provided once the existing policy is renewed.
9. That approval be subject to the applicant providing Council with a Traffic Management Plan for the event in accordance with RMS guidelines prior to the event.
10. That that the event organisers promote the use of active travel, such as walking, cycling and public transport (advising on route numbers and times), to the event in advertisings and publications to encourage attendees to leave their cars at home to reduce traffic congestion on the surrounding road network.

(Mr Alex Coates / Sgt Nino Jelovic)

#### **TC4.7      Mona Vale Market Day - Sunday 1 November 2015**

##### **COMMITTEE RECOMMENDATION**

That the Traffic Committee supports the temporary closure of Park Street (between the entrance to Pittwater Place and the entrance to the upper car park ramp of Pittwater Place from 6am - 7pm on Sunday 1 November 2015 to enable the Mona Vale Market Day to proceed, subject to the following conditions:

1. That the TCP be prepared in accordance with the RMS Traffic Control at Work Sites Manual and Australian Standards;
2. That any traffic control to only be carried out by persons with appropriate Traffic Control qualifications acceptable to the RMS.
3. That barriers and signs to be used in the road closures are to be to RMS standards.
4. That the road closure be staffed at all times to allow access for affected businesses, emergency vehicles, and to ensure barriers are not moved.
5. That the affected businesses in Park Street be notified at least 2 weeks in advance of the road closures, with details of access restrictions.
6. That the applicant advises the Sydney Buses, Forest Coach Lines and the various emergency services of the closure.
7. That a temporary Bus Zone (approx.18m), be provided in the section of 1 hour parking south of the driveway to the Mona Vale Telephone Exchange, on the western side of Pittwater Road.
8. That Forest Coach Lines advertise the temporary Bus Zone restrictions 1 week prior to the event.
9. That the temporary road closure be advertised in "The Manly Daily" the week prior to the event.
10. That approvals being granted by Council for the use of the public reserves specified in the application for stalls, etc.
11. That Council request RMS approval to delete the right hand turning lane from Barrenjoey Road into Park Street for the duration of the event and to direct traffic to utilise Darley Street.
12. That that the event organisers promote the use of active travel, such as walking, cycling and public transport (advising on route numbers and times), to the market day on event advertisings and publications to encourage attendees to leave their cars at home to reduce traffic congestion on the surrounding road network.

(Mr Alex Coates / Sgt Nino Jelovic)

## **TC4.8      Avalon Market Day - Saturday 21 November 2015**

### **COMMITTED RECOMMENDATION**

1. That the Traffic Committee note this report.
2. That the Traffic Committee supports the event taking place on Saturday 21 November 2015 using the Traffic Management Plan provided by the applicant for the Avalon Market Day, with road closures on the following streets (as indicated in the TMP attached) subject to approval by the RMS and Police:
  - Old Barrenjoey Road north of The Crescent
  - Old Barrenjoey Road south of the Fire Station (at entrance to public carpark)
  - Wickham Lane at Avalon Parade
  - Avalon Parade at the intersection of Barrenjoey Road
  - Avalon Parade west of Edmund Hock Avenue
  - Avalon Parade east of Bellevue Avenue
  - Simmonds Lane (Edmund Hock Avenue service way) at Old Barrenjoey Road
3. That the Traffic Committee supports the implementation of temporary 'No Stopping' restrictions in Central Road (south side, full length) and Bellevue Avenue (both sides, Avalon Parade to Sanders Lane) for one day only, being 21 November 2015 (the day of the market), between the hours of 6am and 6pm.
4. That the approval would be subject to:
  - (i) the TCP be prepared in accordance with the RMS Traffic Control at Work Sites Manual and Australian Standards;
  - (ii) any traffic control to only be carried out by persons with appropriate Traffic Control qualifications acceptable to the RMS;
  - (iii) barriers and signs to be used in the road closures are to be to RMS standards;
  - (iv) approvals being granted by Council for the use of the public reserves specified in the application and for the use of the public roads for stalls, etc;
  - (v) the applicant advising Sydney Buses, Forest Coach Lines and the various emergency services of the closure.
  - (vi) the temporary road closure be advertised in "The Manly Daily" the week prior to the event.
  - (vii) notification of the affected residents and businesses in the affected area by a letterbox drop 1 month in advance of the road closures with details of access restrictions, followed by a second letterbox drop 2 weeks prior to the event;
  - (viii) Variable Message Signs (VMS) be used in accordance with RMS guidelines to provide details of the road closure on the day of the event and also give information on upcoming changes to traffic conditions 1 week prior to the event;
  - (ix) the applicant request RMS approval to delete the right hand turning lane from Barrenjoey Road into Avalon Parade, and to prohibit vehicles from turning left into Avalon Parade from Barrenjoey Road for the duration of the event.
  - (x) That that the event organisers promote the use of active travel, such as walking, cycling and public transport (advising on route numbers and times), to the market day on event advertisings and publications to encourage attendees to leave their cars at home to reduce traffic congestion on the surrounding road network.
5. That the applicant be advised accordingly.

(Sgt Nino Jelovic / Mr Alex Coates)

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## **TC4.9 Road Safety Traffic Committee Report**

### **COMMITTEE RECOMMENDATION**

1. That the update be noted.
2. That the Committee note the Road Safety Steering Committee Meeting was held prior to the Traffic Committee Meeting and a copy of the Agenda was tabled (refer Attachment A).

(Mr Alex Coates / Cr Young)

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## **5.0 Next Meeting**

That the next Traffic Committee meeting will be held on Tuesday, 8 September 2015 in the Level 3 Conference Room, 5 Vuko Place, Warriewood commencing at 1:00 pm.

**THERE BEING NO FURTHER BUSINESS  
THE MEETING CONCLUDED AT 2:26PM ON  
TUESDAY, 14 JULY 2015**



## Road Safety Steering Committee Agenda

Tuesday 14 July 2015

Pittwater Council, Conference Room

12pm-12.45pm

### Attendees

Councillor Sue Young, Pittwater Council  
 Paul Davies, Principal Traffic Engineer, Pittwater Council  
 Ricky Kwok, Traffic Engineer, Pittwater Council  
 Michelle Carter, Road Safety Officer, Pittwater Council  
 Kerry Ryan, Road User Safety Officer, RMS  
 Senior Sergeant Rick Janssen, NSW Traffic & Highway Patrol  
 Sergeant Nino Jelovic, NSW Traffic & Highway Patrol

### Agenda

#### 1. Pittwater Council Crash Analysis Report

The crash analysis report is produced at the beginning of each year using crash data from a five-year period.

The 2009-2013 Pittwater Crash Analysis Report provides a statistical overview of crashes and casualties within the Pittwater LGA over a five year period.

This report is then used to determine road safety campaigns to be funded through the Local Government Road Safety Program.

Pittwater LGA - number of crashes by fatal/injury/non-casualty classification 2009-2013

	2009	2010	2011	2012	2013
Fatal Crashes	3	1	4	1	2
Injury Crashes	106	78	88	82	99
Non-casualty Crashes	137	143	135	133	137
Total Crashes	246	222	227	216	238

Pittwater LGA - number of casualties by killed/injured classification 2009-2013

	2009	2010	2011	2012	2013
Killed	3	1	4	1	3
Injured	129	100	117	87	123
Total	132	101	121	88	126

**Areas identified for road safety projects are:**

1. Alcohol
2. Speed
3. Fatigue

**2. Road safety projects 2104/2015 Financial Year**

At the start of the 14/15 FY, Pittwater Council prepared a three year Road Safety Action Plan that outlines road safety priorities and projects for the LGA, both RMS projects and council projects.

**RMS Road Safety Projects**

**Plan B**

Joint project with Warringah Council to provide information to pubs and clubs and the wider community of drink driving.

**Distracted...?**

Joint project with nine other surrounding councils to provide information to pedestrians on the hazards of being distracted crossing the road when using mobile devices.

Two creative visuals have been designed to target CBD commuters and younger pedestrians.

**Child Restraints**

One free checking day was held in the Pittwater LGA and free checks and installations were provided to the Pittwater community.

**GLS Workshop**

Three workshops for held for parents and supervisors of learner drivers.

**Pittwater Council Road Safety and Infrastructure Projects**

**Hung Over. You're Over**

Joint project with NB Liquor Accord, NB Health Promotions, Warringah Council and Manly Council to provide information to the community on being over the legal driving limit the morning after drinking.

**School Road Safety**

Worked with Mona Vale Public and Sacred Heart Catholic Primary School to improve the drop off and pick up on Waratah Street and Keenan Street.

Road safety awareness to schools regarding parking and general road rules as required.

**Bus Stop Disability Upgrade Program**

Worked with Urban Infrastructure team to upgrade twelve bus stops to comply with the Disability Act.

**Seniors Road Safety Calendar**

Annual calendar produced in partnership with eight other councils to provide road safety information to our senior resident in our community.

**Elanora Heights Street Scape Upgrade**

Worked with Place Planning to provide information and engagement to the Elanora Heights community on the streetscape upgrade program.

**Mona Vale**

Worked with Place Planning to provide information to the community on the future of Mona Vale through the urban talk series, workshops and drop in engagement sessions. Main priority was access and linkages around the town centre and ensuring UI was involved in the process.

**3. Road safety projects 2105/2016 Financial Year**

Entering year two of the three-year road safety action plan for Pittwater Council.

**RMS Road Safety Projects****Plan B**

Joint project with Warringah Council to provide information to pubs and clubs and the wider community of drink driving.

**Distracted...?**

Joint project with nine other surrounding councils to provide information to pedestrians on the hazards of being distracted crossing the road when using mobile devices.

Project planning is underway.

**Child Restraints**

Two free checking days will be held in the Pittwater LGA with free checks and installations were provided to the Pittwater community. First checking day will be held on Thursday 27 August 2015 and the second in March 2016.

**GLS Workshop**

Three workshops will be held for parents and supervisors of learner drivers.

**Pittwater Council Road Safety and Infrastructure Projects****Hung Over. You're Over**

Joint project with NB Liquor Accord, NB Health Promotions, Warringah Council and Manly Council to provide information to the community on being over the legal driving limit the morning after drinking.

**School Road Safety**

On going and as required.

**Bus Stop Disability Upgrade Program**

Project to continue in 15/16.

**Kerb Ramp Upgrade Program**

Manage the kerb ramp upgrade program for 15/16.

**Road Safety Calendar**

Annual calendar produced in partnership with eight other councils to provide road safety information to our community. This year the calendar will focus on road safety for residents of all ages.

**Mona Vale PAMP**

Funding through RMS active travel funding to develop a PAMP for the Mona Vale Town Centre.

**Pittwater Council Bike Plan**

Project is underway to develop a bike plan for the Pittwater community with funding from RMS through active travel funding.

**Active Travel Strategy**

Working to produce a strategy for active travel within the Pittwater community.

**Bike Week**

Joint project with Warringah to carry out pop up bike checks, maintenance, shared path etiquette, road rules and all things cycling around Narrabeen Lagoon.

**Warriewood BRT Shared Path Network**

Manage the shared path network to connect to the Warriewood BRT interchange.

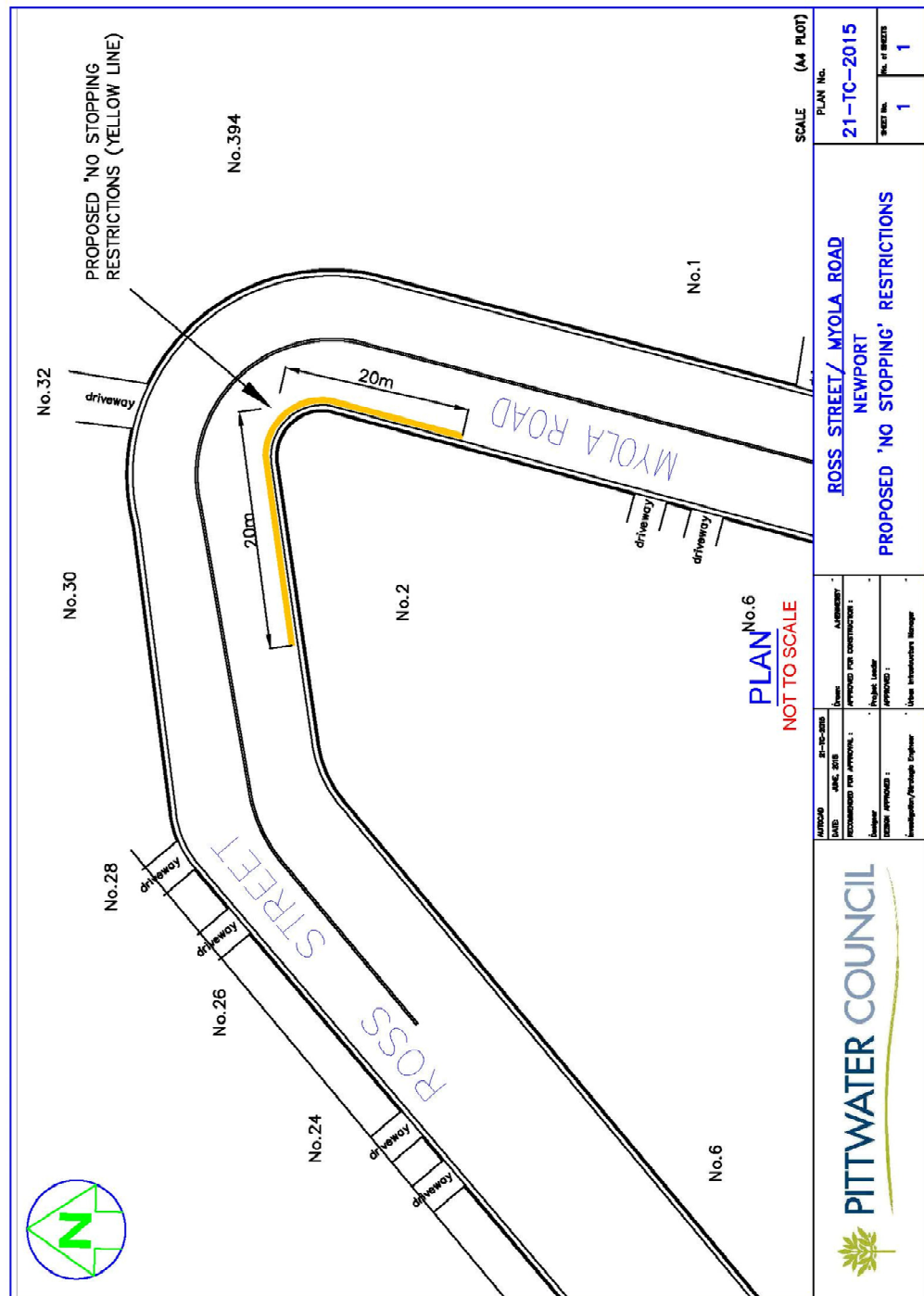
**4. General Business**

# **Traffic Committee Plans**

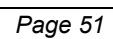


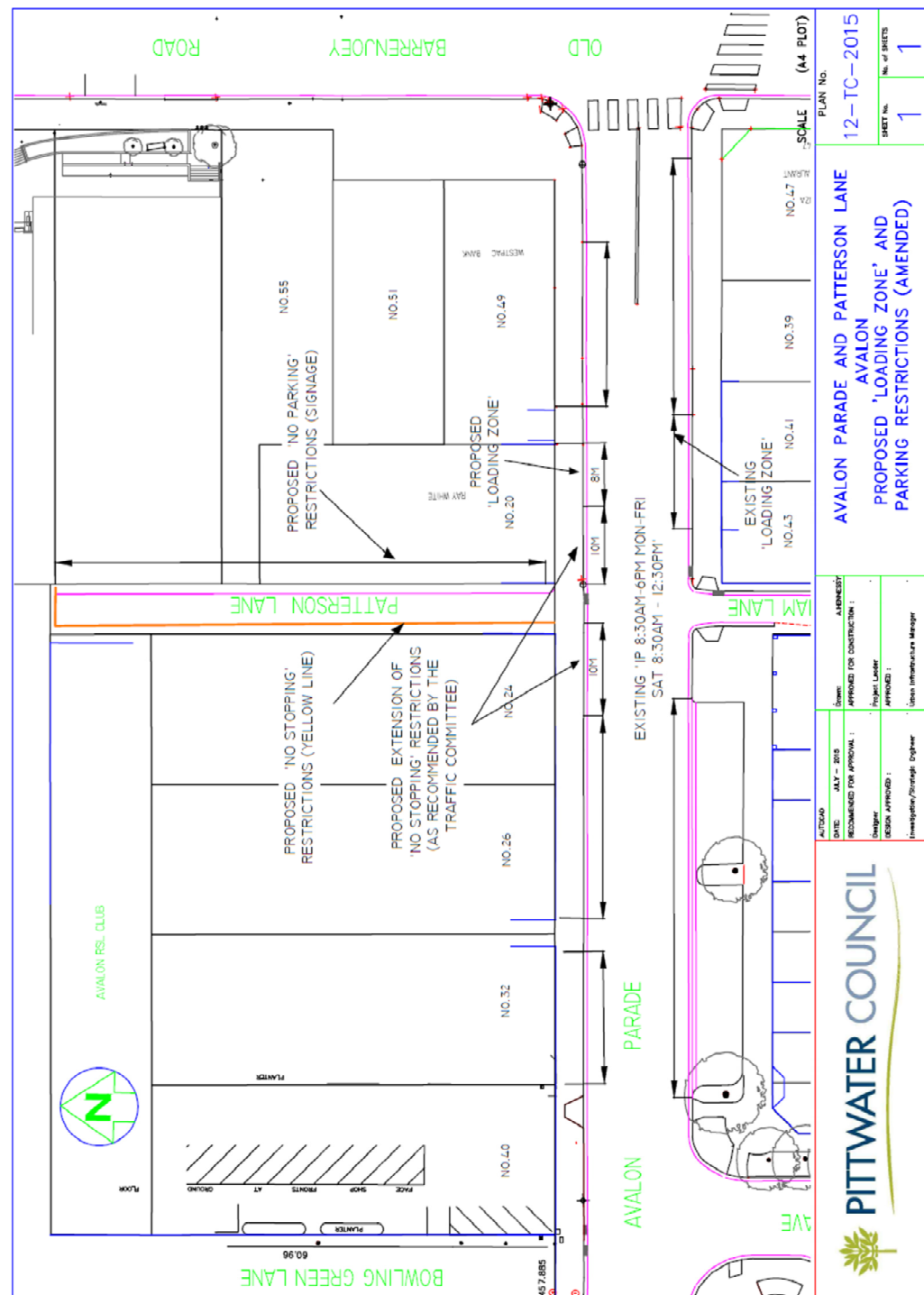
### Narrabeen Park Parade, North Narrabeen - Proposed Bus Zone

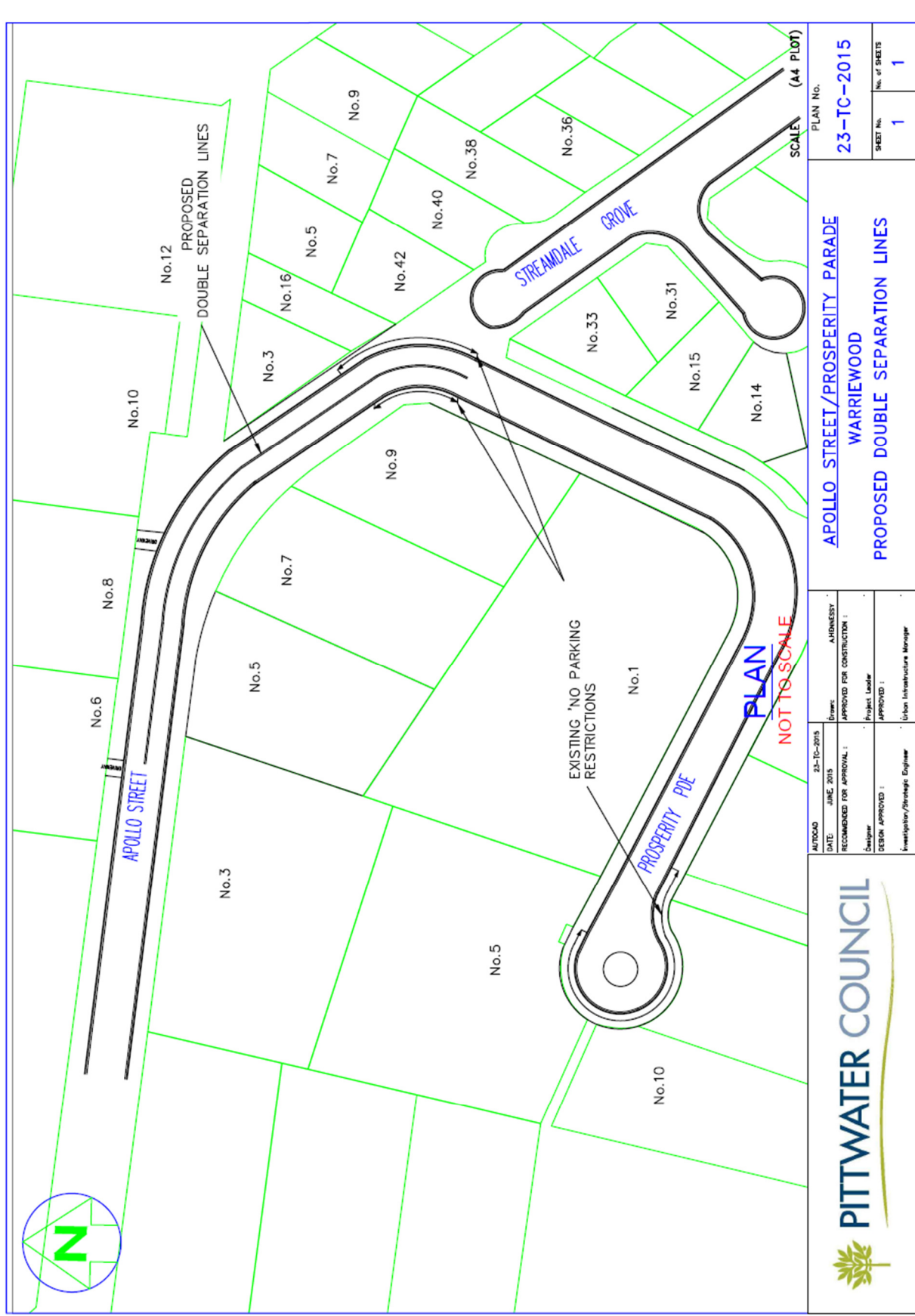




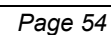
## Eric Green Drive, Mona Vale - Proposed 'No Stopping' Restrictions



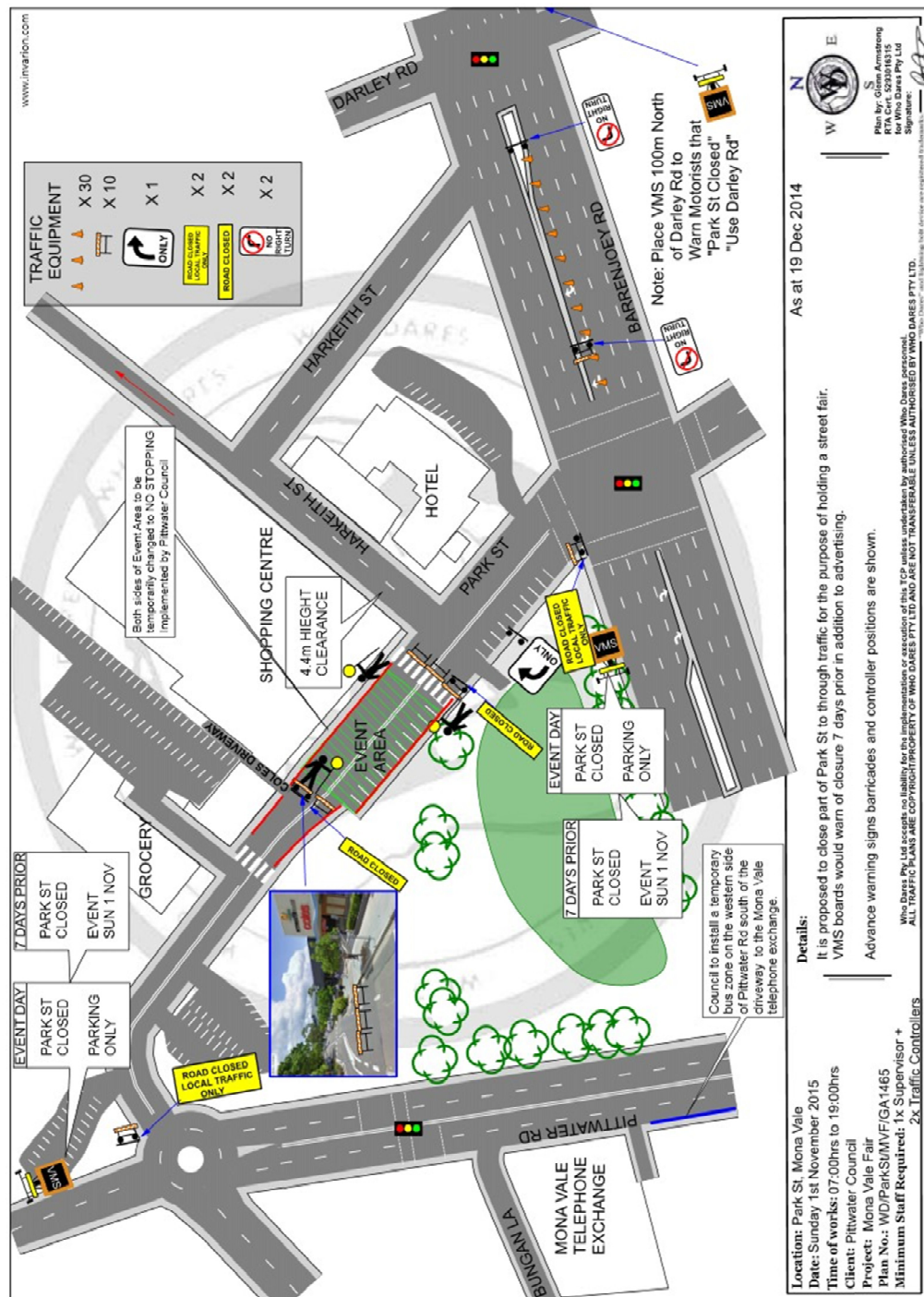


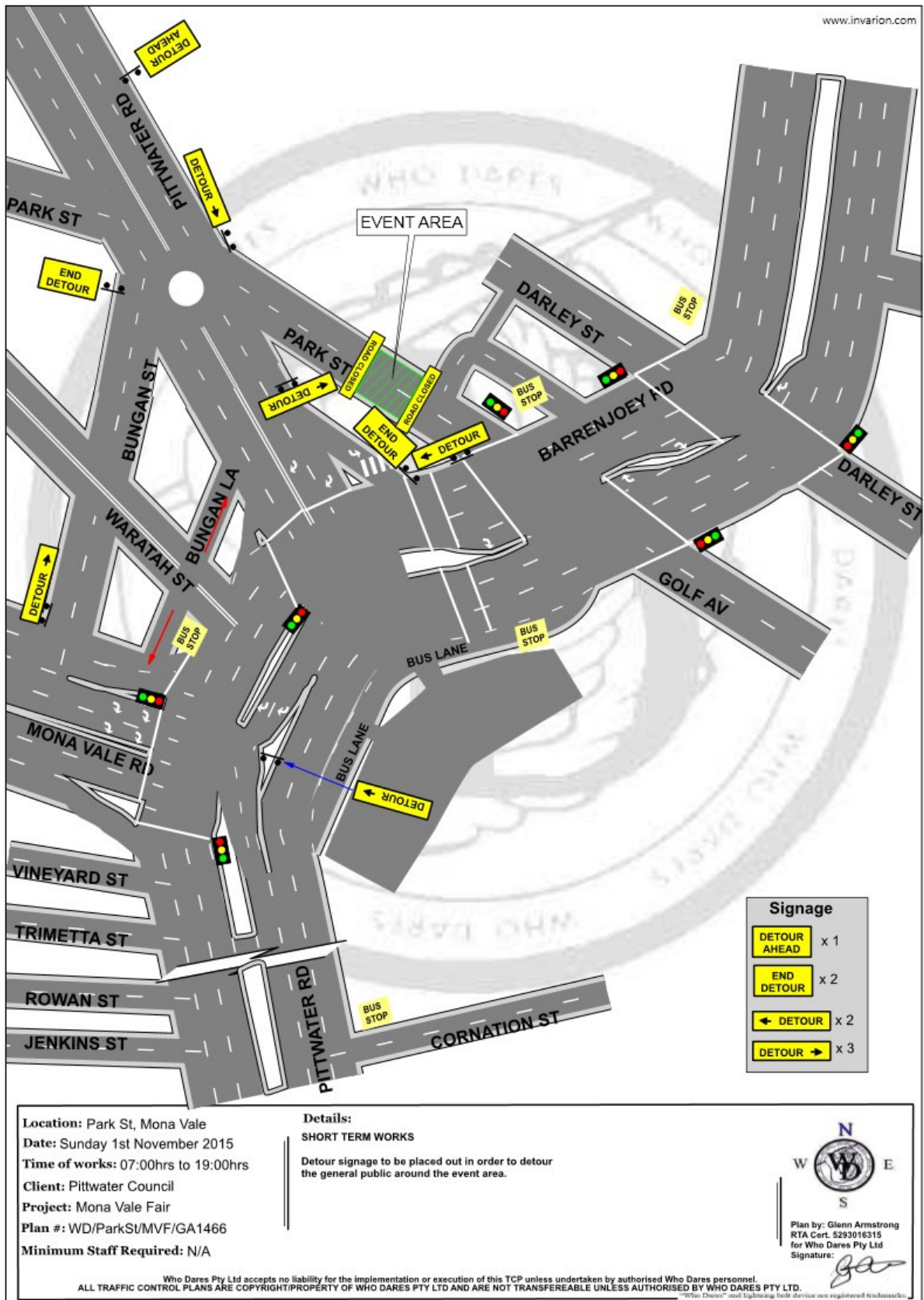


## Old Barrenjoey Road, Avalon - Temporary Closure for School Fete on Sunday 13 September 2015

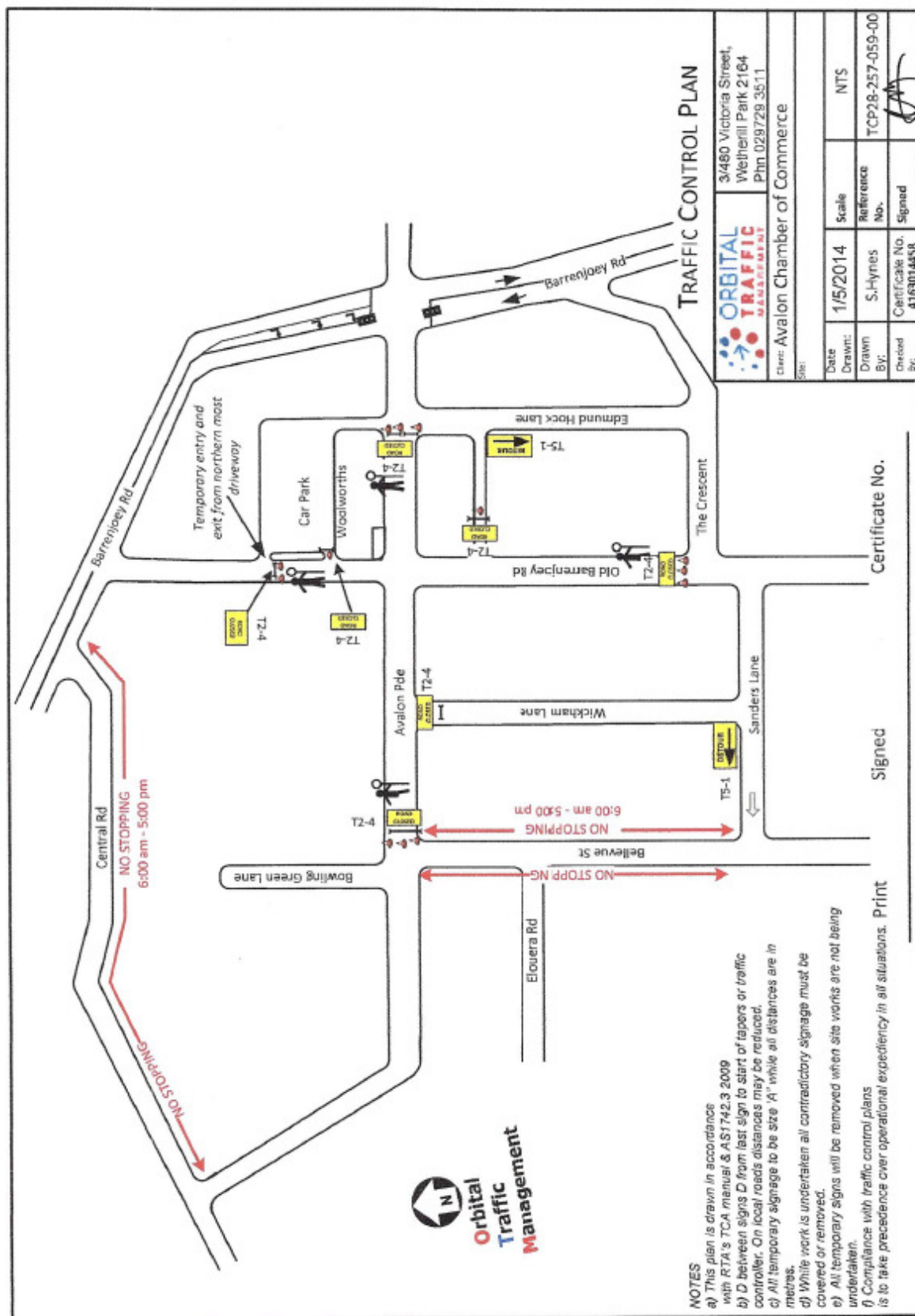












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## **Natural Environment Committee**

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### **10.0      Natural Environment Committee Business**

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<b>C10.1</b>	<b>24th Annual NSW Coastal Conference - Nomination of Councillor Delegates</b>
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**Meeting:** Natural Environment Committee

**Date:** 3 August 2015

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**COMMUNITY STRATEGIC PLAN STRATEGY:** Community Education & Learning

**COMMUNITY STRATEGIC PLAN OBJECTIVE:**

- To promote lifelong learning opportunities

**DELIVERY PROGRAM ACTION:**

- Link with other councils and organisations to deliver educational outcomes at a regional level
- 

## **1.0 EXECUTIVE SUMMARY**

### **1.1 SUMMARY**

The annual NSW Coastal Conference is a most important event (particularly for coastal councils) which brings together the collective knowledge and experience of government, industry and academia. The Conference provides opportunities for decision makers to consider the application of appropriate policy, science and technology to the management and conservation of our precious and finite coastal resources in what is a dynamic, highly contested and rapidly changing landscape.

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## **2.0 RECOMMENDATION**

*That Council nominate up to two (2) councillor delegates to attend the 24<sup>th</sup> NSW Coastal Conference at Forster from 10 to 13 November 2015 and complete registration for the nominated Councillors prior to the close of early registration on 18 September 2015.*

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## **3.0 BACKGROUND**

### **3.1 PURPOSE**

To nominate up to two (2) councillor delegates to attend the 24<sup>th</sup> NSW Coastal Conference to be held at Forster from 10 to 13 November 2015.

### **3.2 BACKGROUND**

- The Conference presents new coastal research and coastal zone management initiatives in a public forum that benefits governments, management agencies, industry and the broader NSW coastal community. Conference delegates are also able to network with politicians, scientists, academics, environmental managers and stakeholders on all aspects of coastal zone management and the major issues affecting coastal communities.

- The theme for this year's NSW Coastal Conference is: 'Great Expectations – pathways for learning and delivery'.
- Two councillor delegates attended the 23<sup>rd</sup> NSW Coastal Conference, at Ulladulla, on behalf of Pittwater Council.

### **3.3 POLICY IMPLICATIONS**

Nil implications

### **3.4 RELATED LEGISLATION**

No legislative requirements are prompted by this report

### **3.5 FINANCIAL ISSUES**

#### **3.5.1 Budget**

Provision has been made in the in the 2015/2016 budget for Councillors to attend conferences. There are sufficient funds available for two Councillors to attend the 24<sup>th</sup> NSW Coastal Conference.

#### **3.5.2 Resources Implications**

There are no resources implications as a result of this report.

### **4.0 KEY ISSUES**

- 4.1 Nomination of Councillor delegates to attend the 24<sup>th</sup> NSW Coastal Conference.
- 4.2 Completion of registration arrangements for councillor delegates prior to the close of early-bird registration on 18 September 2015 in order to take advantage of savings in the cost of registration.

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## **5.0 ATTACHMENTS / TABLED DOCUMENTS**

Nil attachments

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## **6.0 SUSTAINABILITY ASSESSMENT**

A sustainability assessment is not required as a consequence of this report.

Report prepared by  
Paul Hardie – Principal Officer, Coast & Estuary

Jennifer Pang  
**MANAGER, CATCHMENT MANAGEMENT & CLIMATE CHANGE**

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<b>C10.2</b>	<b>Review and Public Exhibition of the Climate Change Policy No. 176</b>
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**Meeting:** Natural Environment Committee

**Date:** 3 August 2015

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**COMMUNITY STRATEGIC PLAN STRATEGY:**

- Traffic & Transport**
- Beach & Coastal Management**
- Catchment Management**
- Flora & Fauna Management**
- Community Education & Learning**
- Land Use & Development**
- Disaster, Emergency & Risk Management**

**COMMUNITY STRATEGIC PLAN OBJECTIVE:**

- To reduce greenhouse gas emissions by an increased use of public transport.
- To responsibly manage the risks associated with the coastal environment including any exacerbated by global warming.
- To effectively manage stormwater and flooding including the impacts of climate change.
- To promote vegetation's role in addressing the impacts of climate change and local micro-climates.
- To ensure development responds to hazards and climate change.
- To increase community involvement and provide activities, education and opportunities in sustainability initiatives.
- To promote a well-informed community and that the Council knows how to effectively respond to disaster and emergency situations before during and after.
- To effectively respond to disasters, emergency situations and provide effective relief measures.
- To work effectively with all emergency and utility agencies to improve emergency response.
- To adhere to best practice risk management principles to facilitate more effective decision-making.
- To manage public liability and risks associated with public infrastructure.
- To increase community awareness on effective risk management.
- To incorporate risk management in all business activities.
- To plan for risks due to natural and manmade hazards.
- To provide for business continuity in the event of a major disruption to the Council.

**DELIVERY PROGRAM ACTION:**

- Consider the impacts of climate change and sea level rise and make provisions in Council's policies, strategies and plans.
  - Develop and implement a staged Climate Change Plan of Action.
- 

**1.0 EXECUTIVE SUMMARY**

**1.1 SUMMARY**

The Climate Change Policy No. 176 and associated Climate Action Plan Framework need to be revised to establish the foundation and context for work on climate change being undertaken at Pittwater Council. The key changes recommended to the Climate Change Policy No. 176 are as follows:

- To update the format in line with Pittwater Council's policies and remove the inappropriate section on 'Philosophy'.

- To complement the approaches outlined in the Sustainability Policy (No. 164) and the Enterprise Risk Management Policy (No. 198).
- To incorporate a Quadruple Bottom Line (QBL) sustainability framework in accordance with Pittwater Council's Strategic Plan.
- To provide clear definitions of climate change mitigation and adaptation.
- To update the Climate Action Plan Framework with the most recent science.

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## 2.0 **RECOMMENDATION**

- 2.1** *That the revised Climate Change Policy No. 176 (refer Attachment 1) and the revised Climate Action Plan Framework (Attachment 2) be placed on public exhibition for a period of 28 days.*
- 2.2** *That a further report be brought back to Council at the close of the public exhibition period.*
- 

## 3.0 **BACKGROUND**

### 3.1 **PURPOSE**

To place the revised Climate Change Policy No. 176 and Climate Action Plan Framework on public exhibition.

### 3.2 **BACKGROUND**

Local Government New South Wales (LGNSW) has recognised the risks that climate change poses to local government operations with the potential to damage council assets, cause serious disruptions to the delivery of Council services, generate unbudgeted financial impacts and affect the wellbeing of the community, particularly those vulnerable to weather events. The Australian Local Government Association (ALGA) has identified climate change as one its top five priority policy issues and recognises that local government plays a critical role to achieving effective mitigation of greenhouse gas emissions (GHG) and adaptation to the impacts of climate change that will transform the Australian economy, environment and society as a whole.

The Climate Change Policy (No. 176) was first adopted by Pittwater Council on 6 April 2009 with the last revision on 17 October 2011 (**Attachment 3**). In 2012, Pittwater Council adopted the Climate Change Risk Assessment which included the Climate Action Plan Framework. Whilst the Climate Action Plan Framework has identified 'Mitigation' and 'Adaptation' as two components of the Climate Action Plan, these terms have not been clearly defined in the 2009 policy. The terms mitigation and adaptation in the context of climate change have now been defined in accordance with the terminology used by leading recognised Australian and international agencies in the policy review.

The Pittwater 2025: Our Community Strategic Plan (Strategic Plan) was adopted by Council in 2013 and is based on a QBL sustainability framework which encompasses addressing social, economic, environmental and governance values. The Strategic Plan recognises climate change each of its key directions and the Corporate Management Strategy specifically aims to "sustainably and strategically manage the community's assets on a whole of life basis taking into account risks, community expectations and the Quadruple Bottom Line".

Pittwater Council adopted the Enterprise Risk Management Policy (No. 198) on 2 February 2015. The Enterprise Risk Management Policy recognises that as Council is a public authority, it is exposed to a broad range of risks which if not managed, could adversely impact on achieving its strategic objectives.

Climate change has been recognised as one of the key impacts affecting Council and the issues specific to Pittwater have been identified in the Climate Change Risk Assessment that was adopted by Council in 2012.

### **3.3 POLICY IMPLICATIONS**

The Climate Change Policy has been revised in line with the Strategic Plan to reflect a QBL sustainability framework. The Climate Change Policy Statement is based on the approach of the Enterprise Risk Management Policy (No. 198) which aims to proactively identify and manage risk exposures.

### **3.4 RELATED LEGISLATION**

The NSW *Local Government Act 1993* states that the precautionary principle<sup>1</sup> should be implemented as a principle of ecologically sustainable development and applied by:

- (i) careful evaluation to avoid, wherever practicable, serious or irreversible damage to the environment, and
- (ii) an assessment of the risk-weighted consequences of various options.

The NSW Government has recognised anthropogenic climate change which is listed as one of the key threatening processes under the NSW *Threatened Species Conservation Act 1995*. The NSW Government recognises that climate change should be addressed with one of the objectives of the NSW *Coastal Protection Act 1979*, “to encourage and promote plans and strategies for adaptation in response to coastal climate change impacts, including projected sea level rise”. Additionally, the NSW *Local Government Act 1993* recognises that local government are exempt from liability when addressing climate change through infrastructure works (section 733 (3)f3) or the provision of information (section 733(3)f5).

<sup>1</sup> Precautionary Principle – if there are threats of serious or irreversible environmental damage, lack of full scientific certainty should not be used as a reason for postponing measures to prevent environmental degradation.

### **3.5 FINANCIAL ISSUES**

#### **3.5.1 Budget**

Climate Change mitigation and adaptation measures already affect Pittwater’s budget. Some proactive mitigation measures have a net positive budget impact e.g. renewable energy (solar) and energy efficient lighting are not only reducing GHG emissions but also reducing energy bills despite additional facilities coming on line. Budget expenditure on climate change adaptation required is variable according to the degree of exposure to climate change impacts in Pittwater, type of initiatives such as whole of life asset management, capital works that incorporates climate change projections into their design and construction, strategic planning and community engagement activities.

### 3.5.2 Resources Implications

A review of the Climate Change Risk Assessment (2012) has been undertaken across Council with the aim of embedding climate change adaptation into council operations and processes to achieve a 'transformational approach' in accordance with the model proposed in the Australian Centre of Excellence for Local Government (ACELG 2014) publication, 'Climate Adaptation for Local Government: embedding resilience to climate change'.

Through this process, a number of current and future controls have been identified for each business unit. Resourcing is required to address both the future controls identified and to form controls or actions where the residual risk persists to remain high or extreme. Examples of initiatives implemented across Council are the recognition of possible climate change impacts on any new business case proposals and consideration of adaptation options.

## 4.0 KEY ISSUES

The report outlines the revisions required to the Climate Change Policy No. 176 as follows:

- To update the format in line with Pittwater Council's policies and remove the inappropriate section on 'Philosophy'.
- To complement the approaches outlined in the Sustainability Policy (No. 164) and the Enterprise Risk Management Policy (No. 198).
- To incorporate a QBL sustainability framework in accordance with Pittwater Council's Strategic Plan.
- To provide clear definitions of climate change mitigation and adaptation.
- To update the Climate Action Plan Framework with the most recent science.

### Climate Change Mitigation

The Office of Environment and Heritage (OEH 2014) has defined mitigation as "actions we take globally, nationally and individually to limit changed caused in the global climate by human activities. Mitigation activities are designed to reduce greenhouse emissions and/or increase the amounts of greenhouse gases removed from the atmosphere by greenhouse sinks."

### Climate Change Adaptation

The National Climate Change Adaptation Research Facility (NCCARF 2015) is the peak climate change research body in Australia and they have defined climate change adaptation as "actions undertaken to reduce the adverse consequences of climate change and harness any beneficial opportunities. Adaptation actions aim to reduce the impacts of climate stresses on human and natural systems". This definition complements Pittwater Council's Strategic Plan approach that focuses on challenges and opportunities. The only component lacking in the definition provided by NCCARF is the reference to infrastructure which has been highlighted by the Climate Change Policy adopted by Engineers Australia in 2014. Including infrastructure in the definition is in accordance with Pittwater Council's Asset Management Policy (No. 184) which states that "potential climate change impacts on Council assets are to be considered and assessed in terms of the economic life cycle of assets. Climate change impacts are to be addressed as part of ongoing risk management strategies for existing assets and in decision making on new assets. Adaptation options for replacement or renewal of assets, including potential emission reduction aspects, are to be assessed within a standard cost benefit framework."



Adaptation is “a process of deliberate change in anticipation of or in reaction to external stimuli and stress” (Nelson et al. 2007). This process of change is referred to as adaptive capacity which can come in the form of adjustments that are either anticipatory actions, taken before the impacts are observed (planned) or reactive actions, taken after the impacts have been felt (autonomous). Anticipatory actions that create adaptive capacity and reduction of flood disaster events through building and engineering solutions include planning legislation, building codes and urban design tools (Smit 2000). The diagram provided makes it easier to illustrate these concepts that relate to the explanation of types of adaptation actions. Examples of adaptation actions implemented at the local government level are provided such as a community resilience plan that includes preparing emergency response plans to assist with responding to the impacts associated with climate change.

These definitions are important to setting the direction of strategies, risk controls and actions formed under the Climate Change Policy and Climate Action Plan Framework. The Climate Action Plan Framework provides background on the current scientific context on climate projections, impacts and terminology relating to climate change. The Climate Action Plan Framework has been consolidated with the categories summarised so that the framework reflects the components at a category level and each category has an action outcome rather than merely assessment focused.

The report recommends that Pittwater Council endorse the public exhibition of the revised Climate Change Policy No 176 and Climate Action Plan Framework with a report be provided to Council summarising any comments provided during the public exhibition period.

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## **5.0 ATTACHMENTS / TABLED DOCUMENTS**

**Attachment 1** – Climate Change Policy No 176 (revised version)

**Attachment 2** – Climate Action Plan Framework

**Attachment 3** – Climate Change Policy No 176 (current version)

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## **6.0 SUSTAINABILITY ASSESSMENT**

### **6.1 GOVERNANCE & RISK**

#### **6.1.1 Community Engagement**

- A public notice will be placed in the Manly Daily.
- The revised Climate Change Policy No 176 and Climate Action Plan Framework will be placed on statutory public exhibition for a minimum of 28 days.
- The revised Climate Change Policy No 176 and Climate Action Plan Framework will be tabled at the Leading and Learning Community Reference Group meeting on Wednesday 26 August 2015.

#### **6.1.2 Risk Management**

Pittwater Council adopted the Enterprise Risk Management Policy (No. 198) on 2 February 2015. Climate change has been recognised as one of the key impacts affecting Council and the issues specific to Pittwater have been identified in the Climate Change Risk Assessment that was adopted by Council in 2012. A review of the climate change risks on the corporate operations of Council has been undertaken with each business unit and a Climate Change Adaptation Corporate Plan is being developed.

## **6.2 ENVIRONMENT**

### **6.2.1 Environmental Impact**

The Climate Change Policy No. 176 sets the context of reducing greenhouse gas emissions in the atmosphere in accordance with the targets listed in Pittwater Council's 'Greenhouse Gas Emissions Reduction Strategy for Pittwater Council's Operations 2013 – 2017'.

### **6.2.2 Mitigation Measures**

The revised Climate Change Policy No. 176 sets out a clear definition of climate change mitigation in contrast with adaptation to avoid confusion over the actions listed under the Climate Action Plan Framework.

## **6.3 SOCIAL**

### **6.3.1 Address Community Need & Aspirations**

The revised Climate Change Policy No. 176 with its focus on addressing the risks associated with climate change seeks to increase community resilience to the projected impacts of:

- Increased temperature, fire weather days and number of days over 35°C
- Increased rainfall intensity and decreased average annual rainfall risks
- Sea level rise risks
- Storm and storm surge risks.

### **6.3.2 Strengthening local community**

The revised Climate Change Policy No. 176 has a focus on addressing the elevated risks associated with climate change, in particular natural hazards such as bushfires, heatwaves, flooding, coastal erosion, landslip and severe storms. The Climate Action Plan Framework includes the adaptation action of creating a Community Resilience Plan which will be an opportunity for community to have input and build the community feeling of connectedness.

## **6.4 ECONOMIC**

### **6.4.1 Economic Development**

The revised Climate Change Policy No. 176 provides opportunities for businesses to create innovative technologies for the Pittwater community that address climate change mitigation and adaptation.

Report prepared by  
Melanie Thomas - Climate Change Adaptation Officer

Jennifer Pang  
**MANAGER, CATCHMENT MANAGEMENT & CLIMATE CHANGE**



Policy – No 176	Adopted:	OM: 06.04.2009
	Amended:	OM: 17.10.2011 OM: 04.11.2013
	Revoked:	

**TITLE:** Climate Change

**STRATEGY:** Pittwater 2025: Our Community Strategic Plan

**BUSINESS UNIT:** All

**RELEVANT LEGISLATION:** New South Wales (NSW) *Local Government Act 1993*  
 NSW *Planning and Assessment Act 1979*  
 NSW *Coastal Protection Act 1979*  
 NSW *Threatened Species Conservation Act 1995*  
 NSW *State Emergency and Rescue Management Act 1989*  
 NSW *State Emergency Service Act 1989*  
 NSW *Rural Fires Act 1997*  
 NSW *Marine Estate Management 2014*  
 NSW *Crown Lands Act 1989*  
*Pittwater Local Environmental Plan 2014 (LEP)*

**RELATED POLICIES:** No. 164 – Sustainability Policy  
 No. 198 – Enterprise Risk Management Policy  
 No. 184 – Asset Management Policy  
 No. 186 - Risk Management Policy for Coastal Public Buildings and Assets in Pittwater Policy  
 Pittwater 21 Development Control Plan (DCP)

### **Purpose of Policy:**

To address climate change mitigation and adaptation through both Council operations and services provided to the community.

### **Objectives**

- To guide the development of strategies and actions to reduce greenhouse gas (GHG) emissions in Pittwater.
- To assist Pittwater Council to meet internal GHG Emission Reduction Targets.
- To embed climate change adaptation into Council operations through the Enterprise Risk Management Framework to achieve a whole of organisation approach.
- To guide the development of strategies and actions to manage climate change risks to the Pittwater community; and the natural and built environments by applying a quadruple bottom line sustainability approach.
- To build the capacity of the Pittwater community to adapt to climate change impacts in the mid to long term future.
- To provide the context for the Climate Action Plan Framework.

## **Background**

Pittwater Council accepts the international scientific research reported by the Intergovernmental Panel on Climate Change (IPCC) that has concluded that the human influence on the climate system is clear with recent anthropogenic emission of greenhouse gases recorded to be the highest in history.

Mitigation includes actions to reduce GHG emissions or removing GHG from the atmosphere to limit the changes caused in the global climate by human activities.

Adaptation refers to the actions undertaken to reduce the adverse consequences of climate change and capture any beneficial opportunities. Adaptation actions aim to reduce the impacts of climate stresses on humans, natural systems and infrastructure.

Council recognises that by addressing mitigation, the impacts of climate change may be moderated which will reduce the extent of adaptation initiatives required.

Council adopted the Climate Change Risk Assessment undertaken for Pittwater in 2012.

## **Policy Statement**

Pittwater Council accepts the scientific research that demonstrates that our climate is being modified by human activities.

Pittwater Council recognises that along with the NSW and Australian Governments, they have a responsibility to prepare for climate change in accordance with the precautionary principle as defined under the NSW *Local Government Act 1993*.

Council acknowledges the important role of local government in helping to reduce GHG emissions and manage climate change impacts at the local level, particularly through its statutory responsibilities and regulatory powers relating to land use planning, natural resource management and infrastructure management. Council amongst a number of agencies, business and not-for-profit organisations, all contribute to building resilience at the local level.

Council encourages further scientific research and a better understanding of climate change and energy issues in order to support and steer policy, to refine adaptation and mitigation strategies and to foster the necessary behavioural changes within our society.

Council understands the importance of a quadruple bottom line management approach to sustainability and is mindful that GHG abatement and climate change adaptation can only be successfully sustained in association with responsible economic management, societal changes, environmental protection and transparent governance.

Council is committed to building on the GHG reduction initiatives and partner with the Pittwater community to improve mitigation and developing appropriate adaptation actions for the climate change impacts that will most affect the Pittwater LGA.

Risks associated with climate change impact predictions must feature as a primary consideration in strategic and operational management activity undertaken by Council.

Education should be aimed at improving the awareness and understanding of climate change issues in order to assist the community to make informed contributions when participating in community engagement related to studies, strategies and plans.

Council supports an evidence based approach to policy, strategies and actions addressing climate change that are based on the best available science while recognising the need for sufficient flexibility to adapt as scientific knowledge improves.



**TITLE:** Climate Action Plan Framework

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### **Objectives**

- To support the Climate Change Policy (No. 176) and Sustainability Policy (No. 164) in designing and planning for a more sustainable Pittwater as outlined in the Pittwater 2025: Our Community Strategic Plan (Strategic Plan).
- To review the climate change risks and impacts to the Pittwater Local Government Area (LGA) as further research becomes available and in accordance with the Enterprise Risk Management Policy (No. 198).

### **Background**

Climate change can be due to natural variation or human induced activity (CSIRO 2011). Climate change is driven by both external influences and dynamics internal to the earth system. External influences consist of fluctuations in the amount of energy emitted by the sun; and changes in the earth's orbit and axial tilt that affect the intensity and distribution of the sun's energy across the earth. Internal influences on climate include changes in the surface reflectivity due to the presence or absence of ice, changes in atmospheric composition of Green House Gases (GHG; such as carbon dioxide and methane), variations in ocean currents, drifting continents, the cooling effect of volcanic dust, and other geological processes. GHG in the atmosphere absorb the radiation released by the Earth's surface and then radiates heat back towards the ground creating global warming which alters both global and local weather patterns which result in physical geography transformations.

Pittwater Council accepts the international scientific research reported by the Intergovernmental Panel on Climate Change (IPCC 2014) that has concluded that the human influence on the climate system is clear with recent anthropogenic emission of greenhouse gases recorded to be the highest in history. The IPCC has found that the warming of the climate system is unequivocal, and that since the 1950s, many of the observed changes are unprecedented over decades to millennia. The IPCC has recorded that the atmosphere and ocean have warmed, the amounts of snow and ice have diminished, and sea level has risen. Additionally, the IPCC has reported that the recent climate changes have already had widespread impacts on human and natural systems.

The Australian Bureau of Meteorology (BOM) and the Commonwealth Scientific and Industrial Research Organisation (CSIRO) have undertaken scientific research and climate modelling and projected that over this century the Pittwater Local Government Area (LGA) is likely to:

- become warmer, on average, with more hot days over 35°C (and with a consequently higher risk of bushfires);
- experience a decline in average annual rainfall with a corresponding reduction in rainfall runoff and stream flows;
- suffer the effects of more frequent, extreme storms and intense rainfall events as well as more severe drought cycles; and
- incur more severe coastal erosion and coastal inundation as a result of more powerful storm surges combined with a rising sea level.

Climate change has the potential to damage Council assets, cause serious disruptions to the delivery of Council services, generate unbudgeted financial impacts and affect the wellbeing of the community, particularly those vulnerable to weather extremes (LGNSW 2015).

The NSW Government has recognised that Councils have a significant role in reducing the degree of climate change (mitigation) and need to prepare for the unavoidable impacts of climate change (adaptation).

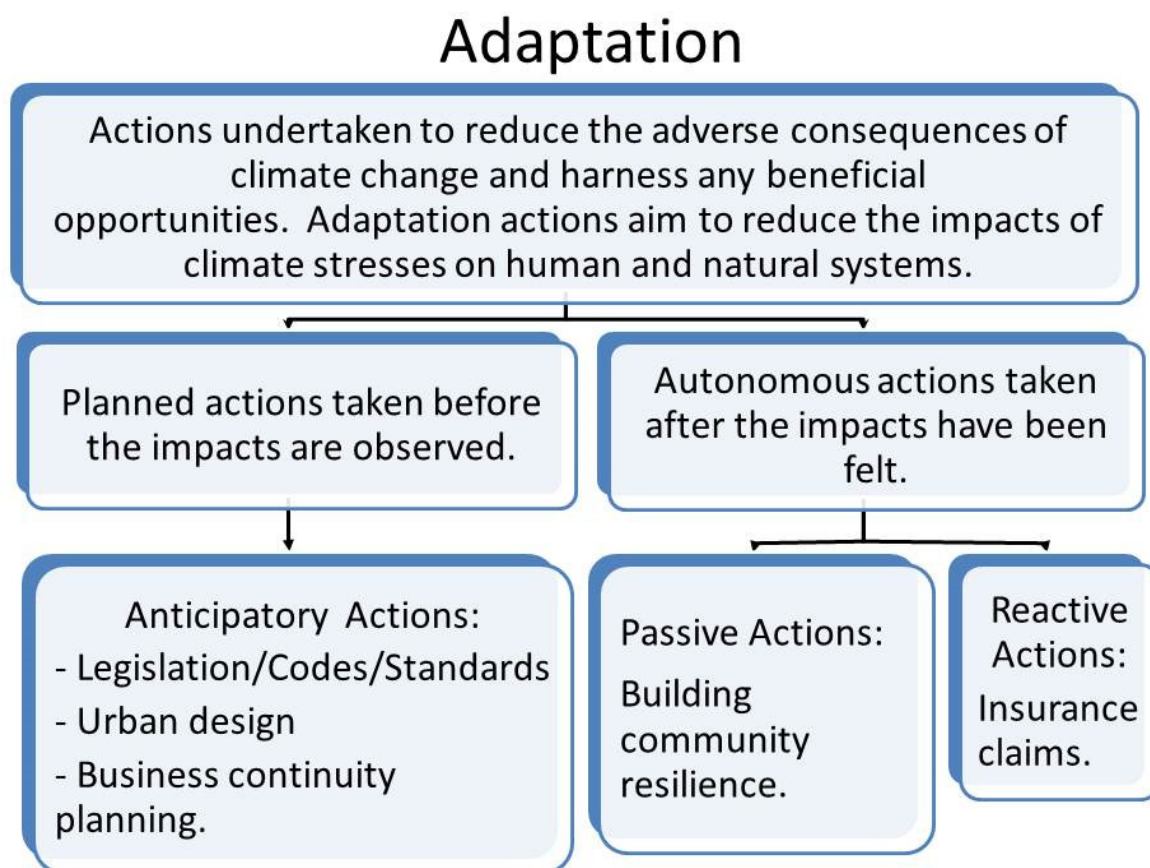
#### Mitigation

Mitigation includes actions to reduce GHG emissions or removing GHG from the atmosphere to limit the changes caused in the global climate by human activities.

#### Adaptation

Adaptation refers to the actions undertaken to reduce the adverse consequences of climate change and capture any beneficial opportunities. Adaptation actions aim to reduce the impacts of climate stresses on humans, natural systems and infrastructure. These actions can either be planned or autonomous actions with examples provided in Figure 1.

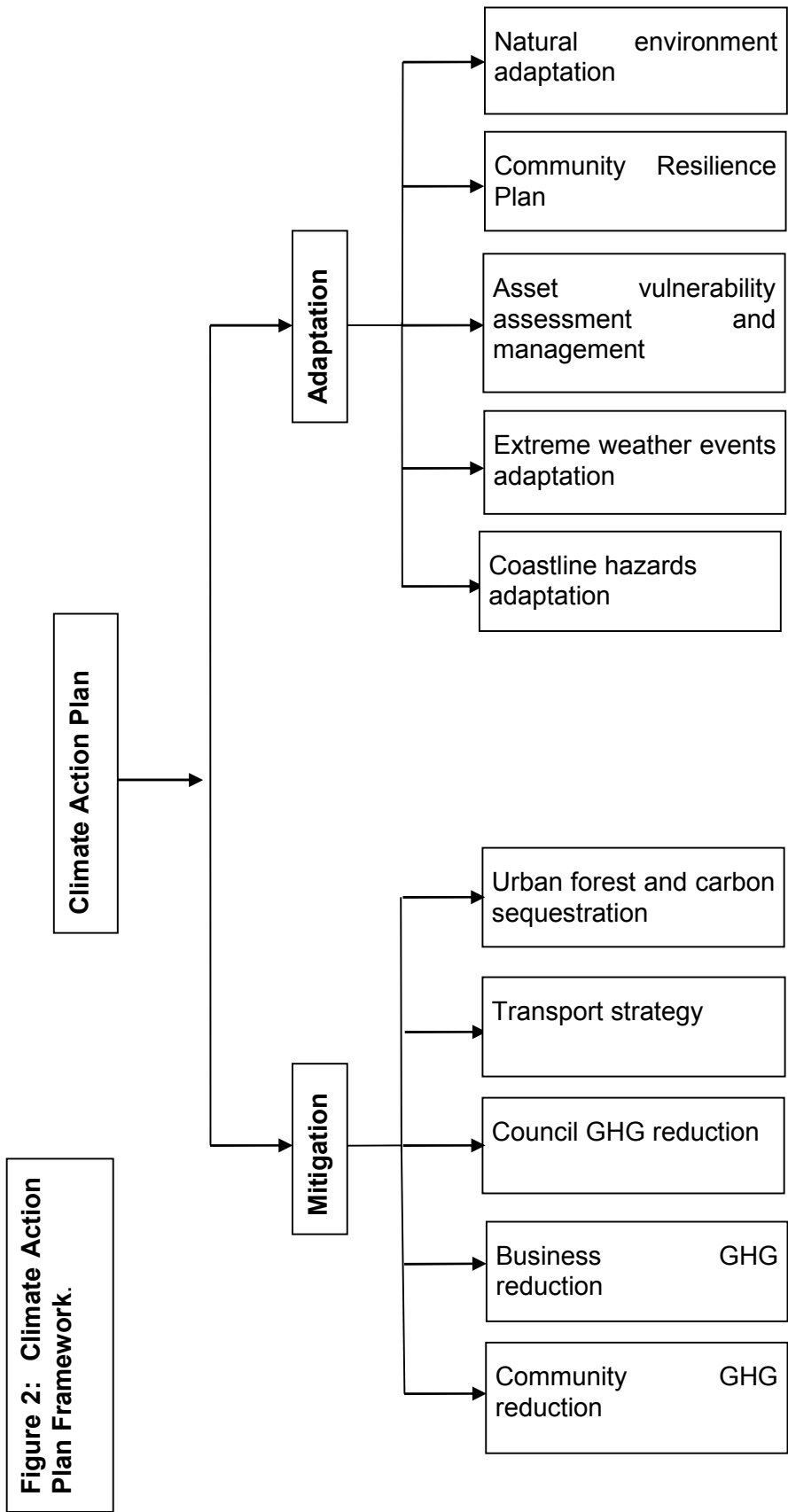
Figure 1: Adaptation Actions



By addressing mitigation, the impacts of climate change will be moderated which will reduce the extent of adaptation initiatives required (IPCC 2014). It has been acknowledged that there will be significant impacts resulting from climate change that cannot be avoided (ALGA 2015). Scientific evidence is clear that adaptation activities need to be undertaken now both as an investment in the future of communities and to protect valuable infrastructure. Pittwater Council undertakes decision making that evaluates climate change risks and seeks adaption solutions for example through its business case review process.

The Climate Action Plan Framework presented in Figure 2 is the mechanism used to address climate change under the Climate Change Policy No. 176 and Strategic Plan.

Climate Action Plan Framework – Figure 2.





# PITTWATER COUNCIL

<b>Policy – No 176</b>	<b>Adopted:</b>	<b>OM: 06.04.2009</b>
	<b>Reviewed:</b>	
	<b>Amended:</b>	<b>OM: 17.10.2011</b> <b>OM: 04.11.2013</b>
	<b>Revoked:</b>	

<b>TITLE:</b>	<b>CLIMATE CHANGE</b>
<b>STRATEGY:</b>	<b>SUSTAINABILITY &amp; CLIMATE CHANGE CO-ORDINATION</b>
<b>BUSINESS UNIT:</b>	<b>CATCHMENT MANAGEMENT &amp; CLIMATE CHANGE</b>
<b>RELEVANT LEGISLATION:</b>	<b>STATE GOVERNMENT LEGISLATION</b>
<b>RELATED POLICIES:</b>	<b>NO. 164 – SUSTAINABILITY POLICY</b>

## Objective

- To complement and support Council's Sustainability Policy – No 164 in designing and planning for a more sustainable Pittwater LGA.
- To fulfil the action in Council's Management Plan "Adopt the Pittwater Climate Change Policy".
- To help improve the awareness and understanding of global warming issues so that the community has opportunities to participate in the management process and to determine the responses to climate change that will produce the optimal effects.
- To guide development of the necessary strategies and action plans that will implement the greenhouse gas abatement measures and climate change adaptation responses that the Pittwater community supports, including through annual review of Council's Management Plan.
- To build the capacity of the Pittwater community to adapt to climate change impacts and challenges that are likely to be faced in the mid to long term future.
- To assist the Pittwater community to meet or better the greenhouse gas reduction targets to which the Australian Government may commit Australia through the Kyoto Protocol or similar multi-lateral agreements.

## Philosophy

The survival and well-being of all people are bound inextricably to the biodiversity, climate and finite resources of our planet.

Human activities (in particular the burning of fossil fuels, land clearing and agriculture) have produced substantial quantities of greenhouse gases which have significantly enhanced the natural atmospheric greenhouse effect and increased global warming to such an extent that it has altered (and will continue to alter) global climate systems.

On the basis of scientific investigations and climate modelling undertaken by the CSIRO and the Australian Bureau of Meteorology, before the latter part of this century the Pittwater LGA is likely to: