The COVERMAR research project found that:

- The building exposure to 1 in 100 year storm surge events is significantly higher than the exposure to all simulated tsunami events.
- The total economic loss for building impacts cause by 1 in 100 year tsunami and storm surges is comparable.
- Sea level rise has a strong influence on exposure and damage.
- Tsunamis triggered in New Zealand would reach the study area in about 2.5 hours.
- Kingsford Smith Airport would be heavily inundated only by the most severe scenarios, but it wouldn't be working in most of them.
- If all buildings of the study area had a raised ground-floor (+30 cm above the ground level), the total Probable Maximum Loss (PML) would decrease by 44.6% (storm surge) and 29.6% (tsunami).

Pittwater Council is independently reviewing the risk management of coastal inundation hazards in the Pittwater estuary and along the open coastline in accordance with policy evolving as a part of the NSW Government's Stage 2 Coastal Reform Process.

Tsunami is currently managed under the NSW Tsunami Emergency Management Plan which has been prepared in accordance with the State Emergency Rescue and Management Act 1989 and the State Emergency Services Act 1989.

Under the provisions of the Plan, tsunami is considered to be a type of flooding for which the NSW State Emergency Services (SES) is recognised as the combat agency.

# 2.2 Item 8.1 – SCCG Strategic Plan – review and redevelopment

The SCCG Strategic Plan will expire by the end of 2014 so the SCCG is developing a new Strategic Plan for operations through till 2019. The SCCG has contracted Dr Judy Lambert to facilitate the strategic planning process. The rationale for the SCCG was noted as a self-proclaimed 'peak' organisation with a 25 year history focusing on coastal issues faced specifically by Sydney local governments and that it likened itself as a voluntary ROC.

Stakeholder engagement for the development of the SCCG Strategic Plan is being comprised of an initial survey and two workshops. The draft Strategic Plan is due to be reported to the SCCG Ordinary Meeting on 13 September 2014.

## 3.0 SUSTAINABILITY ASSESSMENT

No sustainability assessment required.

# 4.0 EXECUTIVE SUMMARY

4.1 The minutes of each Sydney Coastal Councils Group meeting are reported for the information of Council at the request of the SCCG Executive Committee.

# **RECOMMENDATION**

- 1. That the Minutes of the SCCG Ordinary Meeting of 14 June 2014 (refer **Attachment 1**) be noted.
- 2. That Council actively engage in the development of the new five year SCCG Strategic Plan.

Report prepared by Melanie Thomas, Climate Change Adaptation Officer

Jennifer Pang MANAGER, CATCHMENT MANAGEMENT & CLIMATE CHANGE



RECEIVED 2 . JUL 2014 PITTWATER COUNCIL

# SYDNEY COASTAL **COUNCILS GROUP**

# **MEMORANDUM**

MEMO TO:

General Manager

SUBJECT:

SCCG Minutes from Ordinary Meeting - 14 June 2014

DATE OF MEMO: 30 June 2014

File: 186-14GW

Dear General Manager,

Please find attached a hard copy of the Minutes and Actions from the SCCG Ordinary Meeting held on Saturday 14 June, kindly hosted by the City of Sydney Council.

A per the SCCG Constitution and SCCG Strategic Plan, Member Councils are asked to table these minutes from the quarterly SCCG 'Full Group' meetings at an appropriate Council meeting for the information of Councillors, Executives and relevant staff.

If you would like an electronic copy of these Minutes and attachments, please email me on: geoff@sydneycoastalcouncils.com.au.

Thank you for your assistance with this matter.

Your sincerely,

**Geoff Withycombe** 

Executive Officer I Regional Coastal Environment Officer

Sydney Coastal Councils Group Inc.

ils caring for the coastal environment Town Hall House, 456 Kent Street GPO Box 1591, SYDNEY NSW 2001

t: +61 2 9246 7791 | f: +61 2 9265 9660 | e: geoff@sydneycoastalcouncils.com.au

Web sites:

www.sydneycoastalcouncils.com.au www.walkingcoastalsydney.com.au www.monitor2manage.com.au



# SYDNEY COASTAL COUNCILS GROUP Inc. MEMORANDUM

MEMO TO:

Councillor Brian Troy
Councillor Mark Castle
Ms Judith Betts
Ms Cathy McMahon
Councillor Anthony Anisse
Councillor Michael Hutchence
Dr Ross McPherson
Mayor Councillor Darcy Byrne
Councillor Linda Kelly
Councillor Daniel Kogoy
Mr Jon Stiebel
Councillor Barbara Aird
Councillor Cathy Griffin
Mr Stephen Clements

Mr Stepnen Clements
Councillor Tom Sherlock
Councillor Roy Bendall
Ms Belinda Atkins
Councillor Tony Carr
Mr Peter Massey

Mayor Councillor Jacqueline Townsend Councillor Selena Griffith

Councillor Selena Griffith Mr Paul Hardie

Councillor Lindsay Shurey Councillor Geoff Stevenson Ms Bronwyn Englaro Mayor Shane O'Brian

Mr David Dekel / Ms Alexandria Vandine

Councillor Peter Towell
Mr Ian Drinnan / Dr Guy Amos
Councillor John Mant
Councillor Irene Doutney
Councillor Linda Scott
Mr Chris Derksema
Councillor Vanessa Moskal
Councillor Sue Heins
Ms Denise Regan
Mayor Councillor Sally Betts
Councillor Leon Goltsman
Councillor Bill Mouroukas
Ms Emily Scott / Mr Corey Fox
Councillor Wendy Norton

Councillor Lynne Saville
Ms Nicola Faith
Councillor Greg Levenston
Councillor Matthew Robertson
Mr Chris Munro / Mr Sam Badalati
Emeritus Prof. Bruce Thom AM

Mr Phil Colman Mr George Cotis Mr George Copeland Dr Judy Lambert AM Ms Wendy McMurdo Botany Bay Council Botany Bay Council Botany Bay Council

Botany Bay Council Hornsby Council Hornsby Council Hornsby Council Leichhardt Council Leichhardt Council Leichhardt Council Leichhardt Council

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Waverley Council
Willoughby Council
Willoughby Council
Willoughby Council
Woollahra Council
Woollahra Council

Woollahra Council
Honorary Member
Honorary Member
Honorary Member
Honorary Member
Honorary Member
Honorary Member

SUBJECT:

Please find attached the Minutes and Actions from the Sydney Coastal Councils Group Inc.

Ordinary Meeting hosted by the City of Sydney Council on Saturday 14 June.

DATE OF MEMO:

27 June 2014

MemoM2-14

Please find attached the Minutes and Actions from the Sydney Coastal Councils Group Inc. Ordinary Meeting hosted by the City of Sydney Council Saturday 14 June.

PLEASE NOTE: The next SCCG Full Group meeting (Annual General Meeting) will be held on 13 September hosted by Randwick City Council at the Prince Henry Centre (pending confirmation). (Please mark this in your diary)

Regards,

Geoff Withycombe

Regional Coastal Environment Officer / Executive Officer

# LIST OF ACTIONS FROM THE ORDINARY MEETING 14 June 2014

The table below is intended to provide delegates with a summary of the meeting. Actions for delegates to complete prior to the next meeting have been highlighted in bold

| Item | Action  | By whom                             | Due By             |
|------|---|-------------------------------------|--------------------|
| 5.0  | Business Arising  |                                     |                    |
|      | SCCG Water Recycling Handbook for Councils  |                                     |                    |
|      | Due to numerous other priorities the draft Handbook will now be tabled later in the year.   | SCPO                                | 2014               |
|      | <ul> <li>Establishment of workshop with Sydney Water, IPART and<br/>NSW EPA to end ocean outfalls</li> </ul>  |                                     |                    |
|      | The SCCG facilitate an "Integrated Water Management" forum in the second half of 2014. This event will address WSUD, sewage outfalls, infrastructure issues including the SCCG integrated water project and the SCCG Water Recycling Guidelines (under development).                                  | Secretariat                         | Oct (pending)      |
|      | Greater Sydney Local Land Services  |                                     |                    |
|      | The Group meet with LLS regarding the SCCG Salty Communities project and to seek representation on the proposed LLS Local Government Advisory Board.  | EO - POB                            | ASAP               |
| 7    | PRESENTATIONS   |                                     |                    |
|      | 7.1 Coastal Vulnerability to Multiple Inundation Sources Project (COVERMAR) – Dr Filippo Dall'Osso  |                                     |                    |
|      | Dr Dall'Osso be thanked for his attendance and presentation.  | ALL                                 | 14 June            |
|      | 7.2 Assessing Coastal Erosion and Inundation Impacts for the Sydney Region – Dr Michael Kinsela, Environmental Scientist (Coastal Risk), Office of Environment & Heritage   |                                     |                    |
|      | <ol> <li>Dr Kinsela be thanked for his attendance and presentation.</li> <li>The SCCG formally send the final report to Member Councils</li> </ol>  | ALL<br>SCCG                         | 14 June<br>ASAP    |
|      | for their utilisation.  3) The SCCG formally send project outcomes to relevant state agencies including: the Department of Planning and Environment, OEH, Transport for NSW, Emergency Services, Crown Lands and specifically to planning divisions within each Council.                              | SCCG                                | ASAP               |
| 8    | ADMINISTRATIVE MATTERS  |                                     |                    |
|      | <ul> <li>8.1 SCCG Strategic Plan – review and redevelopment</li> <li>1) Delegates workshop specific issues requiring attention.</li> <li>2) The Draft SCCG Strategic Plan be tabled at the SCCG AGM (13 Sept) for consideration prior to going to Member Councils for formal consultation.</li> </ul> | ALL<br>SCCG                         | 14 June<br>13 Sept |
|      | 8.2 Seek meeting with the new NSW Environment Minister  | Councillors<br>Griffin, Betts,      | ASAP               |
|      | The SCCG seek a meeting with the new Environment Minister, the Hon Rob Stokes MP. (Delegation to include CIr Griffin, CIr Betts, CIr Levenston, CIr Stevenson and CIr Towell.   | Levenston,<br>Stevenson &<br>Towell | 4                  |
| 9.1  | NSW COASTAL REFORMS   |                                     |                    |
|      | Prof Bruce Thom AM provide the Group with an update of activities from the Coastal Expert Panel (where possible).   | EO / Chair                          | April              |

| Item | Action  | By whom            | Due By                |
|------|---|--------------------|-----------------------|
|      | NB see action 8.2 Seeking meeting with the NSW Minister for the Environment   |                    |                       |
| 9.3  | SCCG 25 Year Anniversary Update   |                    |                       |
|      | 29 AUGUST - NOW CONFIRMED FOR 25 YEAR CONFERENCE<br>AND GALA EVENING  |                    | a .                   |
|      | Initial notifications to go out soon !  |                    |                       |
|      | The SCCG again write to Member Councils inviting relevant   | EO                 | Ist week July         |
|      | representatives to the 25 year conference and the gala evening.  2) The SCCG email delegates seeking nominations for speakers, venues and other contributors to the 25 Year celebrations.                                   | EO                 | ASAP                  |
| 9.5  | Sydney's Salty Communities – Turning the Tide on Blue-Green Carbon  |                    | 8 2                   |
|      | SCCG delegates:     a) continue to champion the project within their council     b) advise of possible biodiversity capacity-building needs     and opportunities for their local communities                               | ALL °              | Ongoing               |
| 9.8  | Presentation to the Third International Climate Change Adaptation Conference and Local Government in Latin America  |                    |                       |
|      | The Secretariat continue to pursue International collaborations and knowledge sharing, reporting back to the Group when appropriate.      Delegates thank GW and SS for their representation of the Group in Latin America. | Secretariat<br>ALL | Ongoing<br>13 June    |
| 10   | SCCG SUBMISSIONS  |                    |                       |
|      | <ul> <li>Crown Lands Management Review Report and White Paper</li> <li>Moorings Review Issues Paper</li> </ul>  | ,                  | 8                     |
|      | the SCCG incorporate final Member Councils' issues and concerns relating to Crown Lands Management Review Report and White Paper and the Moorings Review Issues Paper to finalise and distribute SCCG submissions.          | Secretariat        | 20 June &<br>1 August |
| 12   | General Business  |                    |                       |
|      | 2014 National General Assembly of Local Government  |                    |                       |
|      | All SCCG policy statements incorporated as part of the National<br>Assembly of Local Government   | ALL                | Noted                 |
| 12.4 | Next Meeting – Annual General Meeting   |                    |                       |
|      | The next meeting of the Group be held on 13 September hosted by Randwick City Councils (at Prince Henry Centre) (pending confirmation).   | ALL                | 13 Sept               |
|      | This meeting might include a pre-meeting site visit (please mark in your diary!   | 9                  |                       |

# SYDNEY COASTAL COUNCILS GROUP Inc. MINUTES FOR THE ORDINARY MEETING HELD ON SATURDAY 14 JUNE 2014 AT THE CITY OF SYDNEY COUNCIL CHAMBERS 12.00 noon

## IN ATTENDANCE

Cr. Brian Troy **Botany Bay Council** City of Sydney Council Cr. Irene Doutney Cr. Cathy Griffin Manly Council Pittwater Council Ms. Melanie Thomas Randwick Council Cr. Geoff Stevenson Randwick Council Cr. Lindsay Shurey Cr. Peter Towell **Sutherland Council** Waverley Council Cr. Sally Betts (Mayor) Cr. Bill Mouroukas Waverley Council Cr. Wendy Norton Willoughby Council Willoughby Council Cr. Lynne Saville Cr. Greg Levenston Woollahra Council Woollahra Council Cr. Matthew Robertson

Mr George Copland Honorary Member
Mr. George Cotis Honorary Member
Dr. Judy Lambert AM Honorary Member
Emeritus Professor Bruce Thom AM Honorary Member

Mr. Geoff WithycombeSCCG (EO)Mr. Stephen SummerhayesSCCG (MP&P)Ms. Emma NorrieSCCG (CPO)Mr. Michael DeanSCCG (PO-B)

#### OPENING

The meeting opened at 12.30pm. Cr. Griffin (Chairperson) welcomed delegates and thanked the City of Sydney for hosting the meeting

## 2. APOLOGIES

**Botany Bay Council** Cr. Mark Castle Cr. Darcy Byrne (Mayor) Leichhardt Council Cr. Tom Sherlock Mosman Council Pittwater Council Cr. Jacqueline Townsend (Mayor) Cr. Selena Griffith Pittwater Council Cr. Shane O'Brian Rockdale Council Mr. David Dekel Rockdale Council City of Sydney Council Cr. John Mant Cr. Linda Scott City of Sydney Council Cr. Sue Heins Warringah Council Cr. Leon Gottsman Waverley Council SCCG (PO-SP) Dr. Ian Armstrong

Resolved that the apologies be received and noted.

# Councils not represented at the meeting

Hornsby, Leichhardt, Mosman, North Sydney, Rockdale, Warringah.

# 3. DECLARATION OF PECUNIARY INTERESTS

Resolved that the there was no declaration of pecuniary interests.

## 4. CONFIRMATION OF MINUTES

4.1 Minutes of the Ordinary Meeting of the SCCG held on 15 March 2014 at the Coastal Environment Centre hosted by Pittwater Council.

**Resolved that** the Minutes of the Ordinary Meeting of the SCCG held on 15 March 2014 at the Coastal Environment Centre hosted by Pittwater Council be received and noted.

4.2 Minutes of the Technical Committee Meeting of the SCCG held on 13 February 2014 hosted by the City of Sydney Council.

**Resolved that** the Minutes of the Technical Committee Meeting of the SCCG held on 13 February 2014 hosted at the City of Sydney be received and noted.

4.3 Minutes of the Technical Committee Meeting of the SCCG held on 1 May 2014 hosted by the Australian Navy (HMAS Watson).

**Resolved that** the Minutes of the Technical Committee Meeting of the SCCG held on 1 May 2014 hosted by the Australian Navy (HMAS Watson) be received and noted.

# 5. BUSINESS ARISING

Defined action from last meeting either complete or underway.

#### Completed

Registrar – General

SCCG write to the Registrar-General supporting the need for clarification of matters raised by Corkill

NSW Marine Estate Management Authority

The SCCG write to the MEMA and relevant Ministers extending thanks for the presentation and raising issues identified by the Group

SCCG Annual Survey 2013 – Results Report

The SCCG 2014 Action(s) Plans be adapted to incorporate the Annual Survey recommendations and actions from both the Technical Committee and Full Group.

Provision of the SCCG Annual Funding Guide 2014

The Funding Guide be formally sent to Member Councils for their utilisation and placed on the SCCG web site for more general access.

- SCCG Capacity Building Program & Engagements Report
- Finalising activities for SCCG's 25 Year anniversary
- SCCG Emergency Management Planning a Health Check for Local Government
- Walking Coastal Sydney
- Working Draft Mapping and Responding to Coastal Inundation: Exposure Assessment for the Sydney Region – Information prepared for the Sydney Coastal Councils Group (by OEH).

- Coastal Vulnerability to Multiple Inundation Sources Final Outcomes report (Launched Thursday 27 February)
- 2014 National General Assembly of Local Government
- Boomerang Alliance and Keep Australia Beautiful
- Redevelopment of the SCCG Strategic Plan

All above related actions completed

# Outstanding / under development:

SCCG Water Recycling Handbook for Councils

Due to numerous other priorities the draft Handbook will now be tabled later in the year.

• Establishment of workshop with Sydney Water, IPART and NSW EPA to end ocean outfalls
The SCCG facilitate an "Integrated Water Management" forum most likely in late October 2014. This event will
address WSUD, sewage outfalls, infrastructure issues including the SCCG integrated water project and the
SCCG Water Recycling Guidelines (under development).

Greater Sydney Local Land Services

The SCCG has yet to meet with the LLS regarding the SCCG Salty Communities project and to seek representation on the proposed LLS Local Government Advisory Board.

NSW Coastal Reforms

The SCCG has yet to write to the Minister for the Environment. It was noted that the Minister had recently changed (see item 9.1)

Joint Expert Maritime Working Group

The Secretariat survey Member Councils regarding their views, issues and needs in relation to maritime and boating management in Sydney.

• Sydney's Salty Communities – Turning the Tide on Blue-Green Carbon
The Project Officer to consider addressing the issue of streamlined approvals under the EPBC Act as part of literature review

## 6. CORRESPONDENCE

# 6.1 Sent and Received Correspondence

**Resolved that** the circulated "sent" and "received" correspondence, including that from the previous meeting, be received and noted.

#### 7. PRESENTATIONS

# 7.1 Coastal Vulnerability to Multiple Inundation Sources Project (COVERMAR) – Dr Filippo Dall'Osso Slides attached

Dr Dall'Osso provided an overview of the recently launched SCCG project *Coastal Vulnerability to Multiple Inundation Sources (COVERMAR)*. The SCCG partnered with the University of New South Wales Australia - Pacific Tsunami Research Centre & Natural Hazards Research Laboratory (UNSW APTRC) to undertake the research project, which addressed coastal vulnerability to multiple inundation sources.

The project developed a multi-hazard tool to assess the vulnerability of buildings and critical infrastructure to extreme marine inundations caused by both storm surges and tsunamis. Inundation scenarios were simulated using state-of-the-art numerical models, under present and predicted future climate conditions, and tested at three NSW study sites.

Dr. Filippo Dall'Osso presented the methodology and the main results of the COVERMAR project. For more information see <u>fact sheet.</u>

#### Questions

Clr Saville: Was Sydney Airport included in the vulnerability assessment?

Yes, the results showed that under most scenarios the airport would be inundated, however only in the most severe scenarios would buildings actually be affected. Therefore there would significant service disruption however the damage would not be as severe as in other areas.

Clr Saville: Can the tool be applied elsewhere?

The tool was designed to be applied anywhere in the world. Availability of inundation layers and individual building data are the two inputs that are required to run the tool.

Clr Levenston: Is the information available to all Councils?

There were three major outputs from the project – a literature review (technical and legislative review), hazard assessment (technical document) and final report (applying the methodology to the case study area).

Outputs were sent directly to Member Councils and are now available online. The SCCG is offering customised presentations to individual Member Councils. A grant has been applied for under the National Disaster Resilience Program (NDRP) to extend the project to include wave run-up and coincident catchment flooding.

CIr Betts: Is the tool able to assess the impact of storm surge and tsunami on cliffs and cliff-top buildings?

The study considered potential shoreline erosion associated with each of the scenarios. Erosion would be most prominent along sandy beaches, rather than cliffs, however in the long term the vulnerability of exposed areas such as cliffs will certainly increase. It is very difficult to determine when a cliff may give way. The tool is not specifically designed to do this.

#### Resolved that:

- 1) The presentation be heard and considered at the meeting.
- 2) Dr Dall'Osso be thanked for his attendance and presentation.
- 7.2 Assessing Coastal Erosion and Inundation Impacts for the Sydney Region Dr Michael Kinsela, Environmental Scientist (Coastal Risk), Office of Environment & Heritage

  Slides attached

Dr Kinsela presented the regional scale coastal inundation exposure assessment for the Sydney region, which follows previous work by SCCG and CSIRO on modelling and mapping coastal inundation.

The method provides an intermediate level assessment that fits between previous 'first pass' analyses and site-specific investigations. More specifically, spatial analysis (GIS) techniques are used with the GURAS address database and NSW infrastructure and land tenure datasets, to identify potentially exposed assets for a range of raised water level scenarios. The scenarios considered include 1-year and 100-year ARI storm surges, for both present sea level conditions and potential future sea level rise of 0.4 and 0.9 m, as modelled by CSIRO.

The results reveal that the northeast and southeast regions of Sydney are most exposed, while some central Sydney Councils are also exposed. Specifically, 6,500-7,000 Sydney addresses may be exposed to coastal inundation in a storm event under current conditions, however only 200-400 of these would be inundated to an extent <50 per cent.