

Annex C Community Consultation Materials

Middle Harbour – Southern Catchments Flood Study

February 2020

Community Newsletter

Ku-ring-gai Council is calling on residents and business owners to share their ideas to improve flood management in the Middle Harbour Southern Catchments.

The area consists of five catchments. These include Echo Point and Moores Creek in Roseville, “Wellington Road” and Gordon Creek in Lindfield and “Northern and Southern Creeks” in Killara, all flowing into Middle Harbour.

This study will build on previous investigations and provide a holistic assessment of flooding in the study area. It is being prepared to meet the objectives of the NSW State Government’s Flood Policy.

Ku-ring-gai Council has engaged BMT, an engineering consultant specialising in this field, to undertake the study. The NSW Department of Planning Industry and the Environment is providing financial and technical assistance.

Potential Flood Risks

Flooding within Middle Harbour Southern Catchments is caused primarily by significant catchment rainfall causing overland flooding.

The Flood Study will assess flooding behaviour in the catchment to identify the critical or worst case flood conditions for a range of flood events for both catchment and ocean flooding. Overland flows are typical in urban environments where it is not feasible to design stormwater drainage to capture very large and infrequent flood events.

The study will also consider the potential flooding impacts of climate change, from both sea level rise and increased rainfall intensity, in line with current government policy and best practice.



Roseville Chase Flooding February 2020

Photo: Geoff Shuetrim

Key Study Outputs

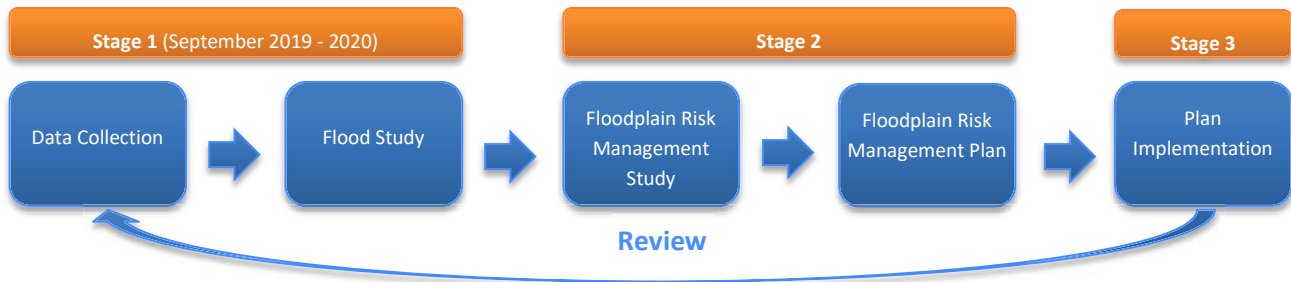
At the core of the study will be the development, calibration and verification of detailed computer models of the catchment to simulate flood behaviour. Historical flood information such as rainfall, peak water levels, flooded property details and more, is used to ensure the computer models are representative of the real catchment behaviour.

The flood study results will assist Council in understanding the mainstream and overland flow behaviour and the associated risk to people and damage to property, enabling the preparation of a risk management plan to:

- Set appropriate levels for development control;
- Identify potential works to reduce existing flooding; and
- Improve flood emergency response and recovery.

Middle Harbour – Southern Catchments Flood Study

NSW Floodplain Risk Management Process



The current project represents the first stage in the NSW Floodplain Risk Management Process which includes data collection and the preparation of a flood study to define existing flood behaviour.

Get involved

Your involvement is essential to the success of the study. It helps us to improve the decision making process, identify local concerns and to inform the community about the consequences of flooding and potential management options.

Your feedback

- Please take a few minutes to complete and return the following questionnaire at <https://www.surveymonkey.com/r/MHSFloodQ> or complete it at Council's Customer Service in Gordon. Responses are due by 30 March 2020 and this will greatly assist in collating people's knowledge and experience about previous flooding history and existing flood problem areas.
- If you would like a hard copy of the questionnaire mailed please contact Sophia Findlay via the details below.
- A number of community information sessions will be held (locations and times to be confirmed). Please come along to hear about the existing and future flood risks in your community and to share your ideas and concerns for ongoing management of flooding in the Middle Harbour Southern Catchments.

Further information

For more information including a link to a useful Frequently Asked Questions, please visit www.kmc.nsw.gov.au/floodrisk or contact:

Ku-ring-gai Council

Sophia Findlay

Water and Catchments Program Leader

Ph: 8424 0853

E-mail floodriskmanagement@kmc.nsw.gov.au.

BMT (Consultant)

Joshua Atkinson

Project Manager

Ph: 8960 7755





MIDDLE HARBOUR SOUTHERN CATCHMENTS FLOOD STUDY COMMUNITY QUESTIONNAIRE

Thank you for participating in the community consultation for the Middle Harbour Southern Catchments Flood Study. This questionnaire should take **approximately 10 - 20 minutes to complete** and any information you provide will be kept private and confidential. No specific contact information will be made public through the flood study process.

Please provide detailed descriptions of flooding locations where possible as this will help add value to the study.

For more information please contact Sophia Findlay on (02) 9242 0853 or e-mail floodriskmanagement@kmc.nsw.gov.au

Please tick the appropriate boxes and provide comments as required. You may tick more than one box if applicable.

Once complete, please return to Sophia Findlay at Ku-ring-gai Council by **Monday 30 March 2020**.

You can also complete the questionnaire online at <https://www.surveymonkey.com/r/MHSFloodQ>

Questions

1. Which of the following best describes your property?

- ☐ Residential ☐ Vacant Land ☐ Industrial
☐ Commercial ☐ Other (Please Specify)

2. What is the status of the property?

- ☐ Owner Occupied ☐ Leased to rental tenants ☐ Renting

3. How long have you lived, owned or operated a business at this address?

- ☐ 0-2 years ☐ 3-5 years ☐ 6-10 years ☐ 11-20 years ☐ More than 20 years

4. Have you ever experienced flooding within or outside your property?

- ☐ Yes (Please fill out table below) ☐ No (Please go to question 10)

5. Please complete the table below for events experienced (if you wish to report on more than 4 events please send details to floodriskmanagement@kmc.nsw.gov.au)



MIDDLE HARBOUR SOUTHERN CATCHMENTS FLOOD STUDY COMMUNITY QUESTIONNAIRE

	Event 1	Event 2	Event 3	Event 4
Date/s of flooding, if known? (Day/month/year or month/year).				
Location: address or description e.g. nearest crossroad or landmark				
What areas were affected by flooding? (select more than one if appropriate) <ol style="list-style-type: none"> 1. Front yard 2. Backyard 3. Garage/Shed 4. Inside the Building 5. Access to or from the property 6. Road 7. Nature strip 8. Nearby park 9. Other (please specify) 				
What was the depth of flooding (in cm) or how best could it be described? <ol style="list-style-type: none"> 1. Very shallow = Below ankle 2. Shallow = Mid-calf level 3. Medium = Knee deep 4. Deep = Above knee Please provide details of the location of this depth (e.g. a detailed description or sketch)				
What was the speed of the flood waters at the peak/worst of the flooding? <ol style="list-style-type: none"> 1. Stationary 2. Walking Pace 3. Running Pace 4. Faster than Running Pace 				
What was the duration of the flood event (minutes/hours)?				



MIDDLE HARBOUR SOUTHERN CATCHMENTS FLOOD STUDY COMMUNITY QUESTIONNAIRE

	Event 1	Event 2	Event 3	Event 4
What was the source of the floodwaters? <ol style="list-style-type: none"> 1. Creek (floodwaters rising in the creek) 2. Ponding of water within your yard 3. Ponding of water on roads 4. Overflow from neighbouring properties 5. Overflow from blocked drains 6. Other (Please Specify) 				
Can you outline any known factors influencing the flood event? (e.g. blocked pits or culverts (please estimate %blocked), debris blocking or diverting flows, etc)				
Are there any flood marks on your property? (i.e. marks left by mud and debris on the side of a building or fence after floodwaters went down)	Flood marks? <input type="checkbox"/> Yes <input type="checkbox"/> No	Flood marks? <input type="checkbox"/> Yes <input type="checkbox"/> No	Flood marks? <input type="checkbox"/> Yes <input type="checkbox"/> No	Flood marks? <input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, can we have your permission for surveyors to access your property to survey the flood marks? (Please ensure you complete the contact details so we can contact you).	Permission to survey? <input type="checkbox"/> Yes <input type="checkbox"/> No	Permission to survey? <input type="checkbox"/> Yes <input type="checkbox"/> No	Permission to survey? <input type="checkbox"/> Yes <input type="checkbox"/> No	Permission to survey? <input type="checkbox"/> Yes <input type="checkbox"/> No



MIDDLE HARBOUR SOUTHERN CATCHMENTS FLOOD STUDY COMMUNITY QUESTIONNAIRE

6. Do you have or know of any photographs or records of these flood events?

☐ Yes ☐ No

7. Do you give permission for Council to publish your flooding photos and/or make copies of this data to contribute to the Flood Study? (Your contact details will remain confidential at all times and, where permission is NOT granted to publish, images can still be used by the consultant to help verify model outputs.)

☐ Yes ☐ No

Please submit copies of records with this questionnaire or e-mail to

floodriskmanagement@kmc.nsw.gov.au

8. Would you like us to meet you in person to discuss your flooding experiences?

☐ Yes (Please ensure your contact details are provided) ☐ No

9. Can we contact you to obtain additional information and/or clarify any of your responses?

☐ Yes (Please ensure your contact details are provided) ☐ No

10. Are you interested in participating as a community representative on Council's Floodplain Risk Management Committee? *Note: this will add you to the notification list for when nominations are being called*

☐ Yes (Please ensure your contact details are provided) ☐ No

Contact Information *(This information will be kept private and confidential; no specific contact information will be made public through the flood study process)*

Please ensure you provide your contact information if you have entered ANY flood event details. If you have included events at multiple locations please state "see event details" for the address.

If you have responded **NO flooding experienced**, please ensure you include the property address this is referring to.

Name:

Business/Organisation:

Address:

Telephone:

Email:

