



Disaster and Emergency Committee

Date of meeting: 26 March 2024
Location: Council Chambers
Time: 4:00pm

BUSINESS PAPER

DISASTER AND EMERGENCY COMMITTEE

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DISASTER AND EMERGENCY COMMITTEE

1. AGENDA

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1. AGENDA

1.1. Welcome

1.2. Apologies

1.3. Declaration of Interests

DISASTER AND EMERGENCY COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 26 March 2024

2. CONFIRMATION OF MINUTES

DISASTER AND EMERGENCY COMMITTEE

Minutes: 27 September 2022

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DISASTER AND EMERGENCY COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 26 March 2024

DISASTER AND EMERGENCY COMMITTEE

Minutes: 27 September 2022

Minutes of the Meeting of the Disaster and Emergency Committee held in the Council Chambers and by Audio-Visual link, on 27 September 2022, commencing at 6:30pm.

Present: Councillor Sarah McMahon, Mayor, Hawkesbury City Council - Chairperson
Councillor Barry Calvert, Deputy Mayor, Hawkesbury City Council
Councillor Patrick Conolly, Hawkesbury City Council
Councillor Shane Djuric, Hawkesbury City Council
Councillor Amanda Kotlash, Hawkesbury City Council
Councillor Mary Lyons-Buckett, Hawkesbury City Council (By Audio-Visual Link)
Councillor Jill Reardon, Hawkesbury City Council
Councillor Les Sheather, Hawkesbury City Council
Councillor Paul Veigel, Hawkesbury City Council
Councillor Danielle Wheeler, Hawkesbury City Council
Councillor Nathan Zamprogno, Hawkesbury City Council

Apologies: Councillor Eddie Dogramaci, Hawkesbury City Council

In Attendance: Mr Kevin Jones, NSW State Emergency Service
Mr Andrew Garner, Police NSW
Ms Karen Hodges, Rural Fire Service (By Audio-Visual Link)
Mr Laurence McCoy, Rural Fire Service (By Audio-Visual Link)
Mr Jamie Carter, Rural Fire Service (By Audio-Visual Link)
Ms Elizabeth Richardson, Hawkesbury City Council
Mr Laurie Mifsud, Hawkesbury City Council
Mr Will Barton, Hawkesbury City Council
Ms Meagan Ang, Hawkesbury City Council
Ms Suzanne Stuart, Hawkesbury City Council
Mr Andrew Kearns, Hawkesbury City Council
Ms Jackie Carr, Hawkesbury City Council
Mr Phillip Bow, Hawkesbury City Council
Ms Amy Birks, Hawkesbury City Council

Attendance Register of Disaster and Emergency Committee

Member	19/05/2022	27/09/2022
Councillor Sarah McMahon	✓	✓
Councillor Barry Calvert	✓	✓
Councillor Patrick Conolly	A	✓
Councillor Shane Djuric	✓	✓
Councillor Eddie Dogramaci	X	A
Councillor Amanda Kotlash	✓	✓
Councillor Lyons-Buckett	✓	✓
Councillor Jill Reardon	✓	✓
Councillor Les Sheather	✓	✓
Councillor Paul Veigel	✓	✓
Councillor Danielle Wheeler	✓	✓
Councillor Nathan Zamprogno	✓	✓

Key: A = Formal Apology ✓ = Present X = Absent - no apology

DISASTER AND EMERGENCY COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 26 March 2024

DISASTER AND EMERGENCY COMMITTEE

Meeting Date: 27 September 2022

APOLOGIES AND LEAVE OF ABSENCE

An apology of absence was received from Councillor Eddie Dogramaci.

Mr Laurence McCoy, Rural Fire Service left the meeting at 7:45pm.

Mr Jamie Carter, Rural Fire Service left the meeting at 7:45pm.

Ms Karen Hodges, Rural Fire Service left the meeting at 8:20pm.

DECLARATION OF INTERESTS

There were no declarations of interests made.

A PROCEDURAL MOTION was moved by Councillor Conolly, seconded by Councillor Reardon that Item 4 - Rural Fire Services - Australian Fire Danger Rating System be brought forward in the agenda to be dealt with.

The Procedural Motion was carried.

CONFIRMATION OF MINUTES

RESOLVED on the motion of Councillor Reardon, seconded by Councillor Zamprogno that the Minutes of the Disaster and Emergency Committee held on the 19 May 2022, be confirmed.

DISASTER AND EMERGENCY COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 26 March 2024

DISASTER AND EMERGENCY COMMITTEE

Meeting Date: 27 September 2022

Item: 001 **DE - Rural Fire Services - Grose Valley Wollemi Mitigation Scheme - (95495)**

Previous Item: 113, Ordinary (14 June 2022)

Directorate: Infrastructure Services

OFFICER'S RECOMMENDATION:

That the Disaster and Emergency Committee:

1. Receive the presentation from Rural Fire Services on the Grose Valley Wollemi Mitigation Scheme.
2. Identify matters for further action or resolution by Council.

COMMITTEE RECOMMENDATION

RESOLVED on the motion of Councillor Conolly, seconded by Councillor Reardon.

That the Disaster and Emergency Committee:

1. Receive the presentation from Rural Fire Services on the Grose Valley Wollemi Mitigation Scheme.
2. Identified the following matters for further action or resolution by Council:
 - a) Council provide feedback to the Bushfire Management Committee in respect of any fire trails that it is aware of, that require upgrades.
 - b) Council suggest to Rural Fire Services that they carry out community engagement at Bilpin in regard to the Grose Valley Wollemi Mitigation Scheme and appraise the community of their responsibilities.

For the Motion: Councillors McMahon, Calvert, Conolly, Djuric, Lyons-Buckett, Reardon, Sheather, Veigel, Wheeler and Zamprogno.

Against the Motion: Councillor Kotlash.

Absent: Councillor Dogramci.

DISASTER AND EMERGENCY COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 26 March 2024

DISASTER AND EMERGENCY COMMITTEE

Meeting Date: 27 September 2022

Item: 002 **DE - SES Australian Warning System - (95495)**

Directorate: Infrastructure Services

OFFICER'S RECOMMENDATION:

That the Disaster and Emergency Committee:

1. Receive the presentation from SES on the Australian Warning System.
2. Identify matters for further action or resolution by Council.

COMMITTEE RECOMMENDATION

RESOLVED on the motion of Councillor Sheather, seconded by Councillor Conolly.

That the Disaster and Emergency Committee receive the presentation from SES on the Australian Warning System.

For the Motion: Councillors McMahon, Calvert, Conolly, Djuric, Kotlash, Lyons-Buckett, Reardon, Sheather, Veigel, Wheeler and Zamprogno.

Against the Motion: Nil.

Absent: Councillor Dogramci.

DISASTER AND EMERGENCY COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 26 March 2024

DISASTER AND EMERGENCY COMMITTEE

Meeting Date: 27 September 2022

Item: 003 **DE - Various Floodplain Management Matters - (95495)**

Previous Items: 113, Ordinary (14 June 2022)

Directorate: Infrastructure Services

OFFICER'S RECOMMENDATION:

That the Disaster and Emergency Committee consider the updates on various floodplain management matters, and provide advice to Council.

COMMITTEE RECOMMENDATION

RESOLVED on the motion of Councillor Conolly, seconded by Councillor Sheather.

That the Disaster and Emergency Committee receive the updates on various floodplain management matters, and request the Council to:

- Invite Endeavour Energy to provide an updated presentation regarding resilience of Electricity Infrastructure for the Hawkesbury.

For the Motion: Councillors McMahon, Calvert, Conolly, Djuric, Kotlash, Lyons-Buckett, Reardon, Sheather, Veigel, Wheeler and Zamprogno.

Against the Motion: Nil.

Absent: Councillor Dogramci.

DISASTER AND EMERGENCY COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 26 March 2024

DISASTER AND EMERGENCY COMMITTEE

Meeting Date: 27 September 2022

LATE SUPPLEMENTARY

Item: 004 **DE - Rural Fire Services - Australian Fire Danger Rating System - (95495)**

Directorate: Infrastructure Services

OFFICER'S RECOMMENDATION:

That the Disaster and Emergency Committee:

1. Receive the presentation from Rural Fire Services on the Australian Fire Danger Rating System.
2. Identify matters for further action or resolution by Council.

COMMITTEE RECOMMENDATION

RESOLVED on the motion of Councillor Conolly, seconded by Councillor Veigel.

That the Disaster and Emergency Committee receive the presentation from Rural Fire Services on the Australian Fire Danger Rating System.

For the Motion: Councillors McMahon, Calvert, Conolly, Djuric, Kotlash, Lyons-Buckett, Reardon, Sheather, Veigel, Wheeler and Zamprogno.

Against the Motion: Nil.

Absent: Councillor Dogramci.

The meeting was terminated at 9:13pm.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

3. REPORTS FOR DETERMINATION

3.1.1. DE - Update on Hawkesbury Floodplain Management Projects (161821, 124414, 95498, 151940)

Previous Item: 002, Disaster & Emergency (31 March 2022)

003, Disaster & Emergency (27 September 2022)

Directorate: City Planning

PURPOSE OF THE REPORT

The purpose of this report is to provide updates in respect of the status of Council's various Floodplain Risk Management Projects, and to outline the program for these works throughout 2024.

EXECUTIVE SUMMARY

This report provides an update on the various floodplain management projects currently being undertaken by Council.

RECOMMENDATION

That the Disaster and Emergency Management Committee:

1. Receive the update on the status of Council's Floodplain Risk Management Projects.
2. Note the program of works for Council's Floodplain Risk Management Projects in 2024 (Attachment 17).
3. Note that the Macdonald Valley Association representative on the Floodplain Management Sub Committee has changed from Rosemary Scott to Lewis Adey.

BACKGROUND

Council currently has three grant funded Floodplain Risk Management projects that are underway, including:

1. Review of Hawkesbury Floodplain Risk Management Study and Plan 2012

This project is to undertake a review of the Hawkesbury Floodplain Risk Management Study and Plan 2012 considering the release of the Regional Flood Study for the Hawkesbury Nepean Valley by the NSW Reconstruction Authority, and to update management options as required.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

2. Combined Macdonald River, Colo River, Webbs Creek and Greens Creek Flood Study and Floodplain Risk Management Study and Plan

This project is to undertake a Flood Study and Floodplain Risk Management Study and Plan for the Macdonald River, Colo River, Webbs and Greens Creek. It aims to understand flood risk in these catchments where extended isolation and risk to life is present, and develop flood management options including engineering works, evacuation planning and appropriate development controls.

3. Redbank Creek Flood Study

The Redbank Creek Flood Study involves a comprehensive technical investigation of the flood behaviour of Redbank Creek that will provide the foundation for the development of a floodplain risk management plan. It aims to provide an understanding of the full range of flood behaviour and consequences in the Study Area.

Floodplain Management Sub Committee

At the Council Meeting on 14 March 2023, Council considered the Expressions of Interest for community representative positions on the Floodplain Management Sub Committee with seven appointments made as per the adopted Terms of Reference. The first meeting of the Sub Committee occurred on 28 June 2023, and to date has met on the following dates:

- 28 June 2023
- 26 July 2023
- 23 August 2023
- 27 September 2023
- 18 October 2023
- 15 November 2023
- 21 February 2024
- 20 March 2024

The Business Papers and Minutes from the Meetings of the Floodplain Management Sub Committee are included as Attachments 1 - 16.

It is noted that following the first meeting of the Sub Committee, that the Macdonald Valley Association representative was changed from Rosemary Scott to Lewis Adey.

At the Ordinary Meeting on 14 March 2023 Council endorsed the Terms of Reference for the Floodplain Management Sub-Committee. Objective (e) of the Terms of Reference states:

“(e) To facilitate broader community consultation and participation in Floodplain Risk Management initiatives through informing and liaising with member community groups.”

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

Of the seven community members appointed to the Floodplain Management Sub-Committee, two represent community groups/associations as per the Expressions of Interest that were submitted. Through their representatives on the Sub-Committee, these community groups have been able to be kept informed of opportunities for input into, and the progress of, the Floodplain Risk Management projects. All representatives on the Sub-Committee have been able to inform the consultation and engagement process, in addition to the outcomes of consultation and engagement undertaken to date.

The first stage of community consultation for each of Council's Floodplain Risk Management projects has been carried out as detailed in the status update discussed further in this report. The engagement plan for each project was presented to/discussed at the Floodplain Management Sub-Committee Meetings of 28 June 2023, 23 August 2023 and 27 September 2023. The methodology for community consultation is outlined in the 'Community Consultation' section of this report.

DISCUSSION

A program for all of the Floodplain Risk Management projects has been developed to inform all relevant stakeholders in terms of expected timeframes for:

- The completion of each stage of the projects
- Reporting to the Floodplain Management Sub-Committee
- Reporting to Council
- Exhibition of draft studies and/or plans.

The program is provided as Attachment 17 for information.

The program anticipates the completion of the Floodplain Risk Management projects in early 2025, following further public exhibition and consultation.

The status of each Floodplain Risk Management project is discussed below:

1. Review of Hawkesbury Floodplain Risk Management Study and Plan

Figure 1 details what stage the Review of the Hawkesbury Floodplain Risk Management Study and Plan Project is at.

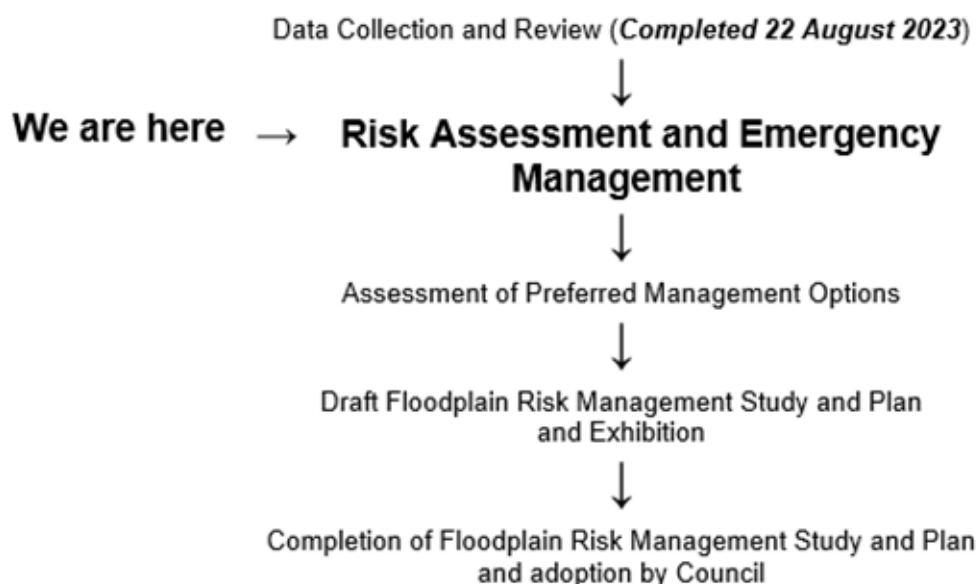


Figure 1: Status of the Review of the Hawkesbury Floodplain Risk Management Study and Plan Project

Community consultation to seek community opinion on potential management options to mitigate impacts from flooding of the Hawkesbury River was undertaken between 4 September 2023 and 2 October 2023.

Options included:

- Engineering Measures
- Land Use Planning and Other Measures to Manage Existing and Future Exposure to Floods
- Flood Warning and Evacuation Measures
- Education and Engagement Measures.

During the consultation period, eight responses were received, with the most popular options including:

- Restricting development in high risk area/low lying land/floodplain
- Buyback programs
- Improved warnings and information on flooded roads, bridge closures and evacuation centres during an event
- Community education and engagement

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

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- Bypass floodways, channel modification, and improved flood flow paths to enable flood waters to get away more easily.

The following physical modifications were identified for further investigation into their feasibility:

- Currency Creek Diversion Channel
- Pitt Town 50 year levee
- Wilberforce 50 year levee
- McGraths Hill 50 year levee
- South Windsor 100 year levee.

The consultants for this project (WMA Water) are now assessing the preferred management options to determine the benefits or otherwise of the different options and their feasibility for inclusion in the review of the Hawkesbury Floodplain Risk Management Study and Plan.

Work is also progressing in relation to risk assessment and emergency management classification.

2. Macdonald River, Colo River, Webbs Creeks and Greens Creek Flood Study and Floodplain Risk Management Study and Plan

Figure 2 details what stage the Macdonald River, Colo River, Webbs Creeks and Greens Creek Flood Study and Floodplain Risk Management Study and Plan Project is at.

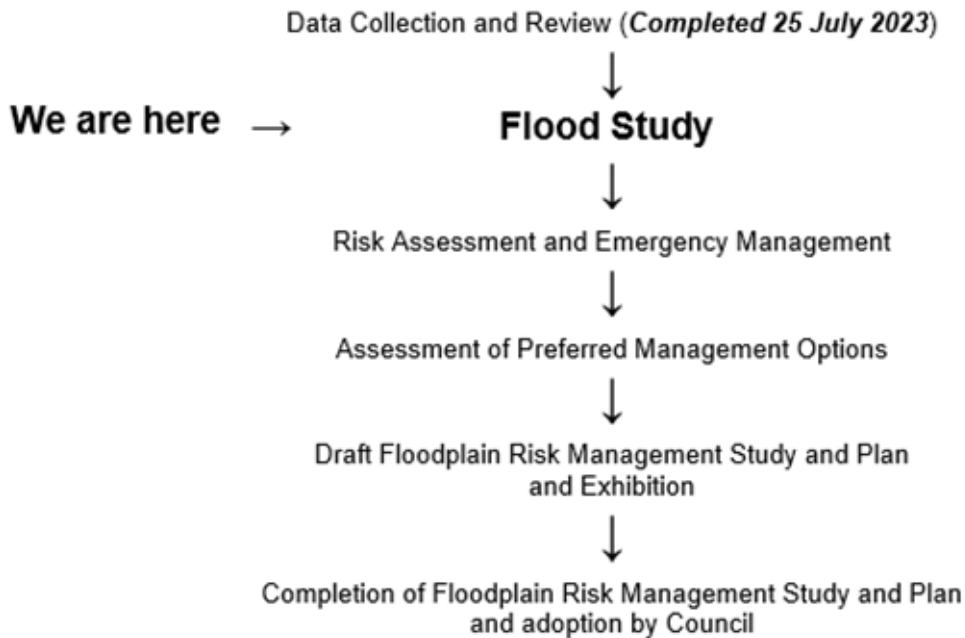


Figure 2: Status of the Macdonald River, Colo River, Webbs Creeks and Greens Creek Floodplain Management Project

Community consultation to gather local knowledge in relation to flood behaviour and the impacts of specific events was undertaken between 31 July 2023 and 27 August 2023. The purpose of this

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

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consultation was to gather local information and experiences about recent or historical floods, and seeking suggestions related to flooding in the Macdonald River, Colo River, Webbs Creeks and Greens Creek, whilst:

- Informing the community of the Study;
- Identifying community concerns;
- Gathering flood related information; and
- Developing a relationship of trust and confidence with the community.

During the consultation period, a total of 44 responses were received.

Of interest, the consultation highlighted that:

- The majority of respondents have had a long-standing association with the Macdonald River and Colo River Catchments, in particular.
- During the recent flooding, most of the respondents were cut off by floodwaters for more than a week.
- Respondents identified that they were 'aware' of flooding, and that most would not evacuate in a future event.
- Websites, social media and the radio are equally relied upon as a source of information during a flood event.

The main concerns and issues that were raised centred on limited or no phone/internet connection and the lack of adequate forewarning for the loss of services, as well as the time it takes to reinstate or repair services and infrastructure.

The consultants for this project (Rhelm) are currently progressing Stage 2 of this Project, with the draft Flood Study expected to be finalised by the end of March 2024.

3. Redbank Creek Flood Study

Figure 3 details what stage the Redbank Creek Flood Study Project is at.

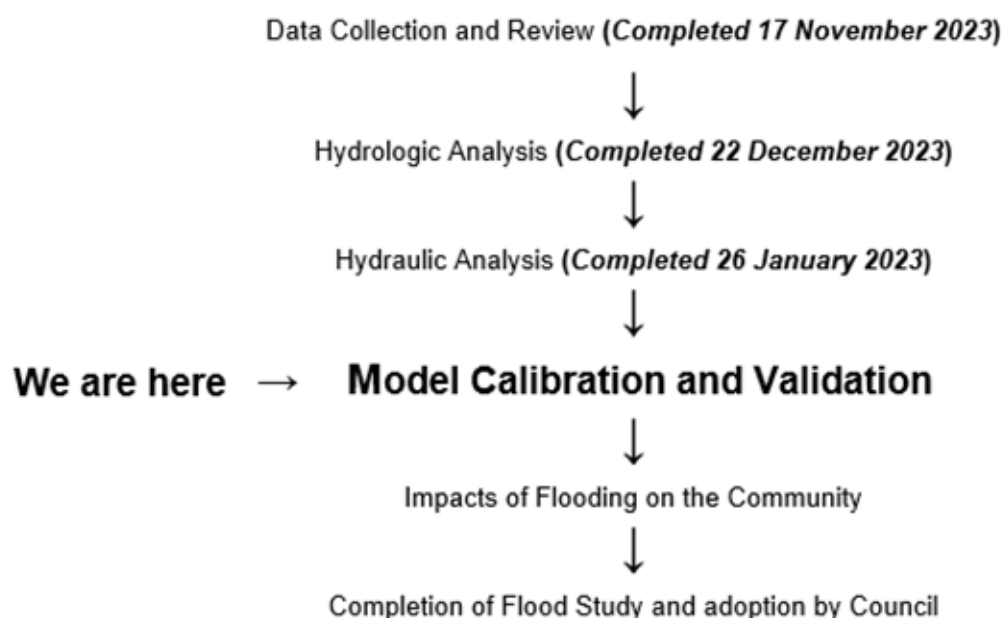


Figure 3: Status of the Redbank Creek Flood Study Project

This project commenced with the compilation and review of existing flood and GIS information for the catchment, and with preliminary modelling activities to inform the identification of any additional data that may be required. Data collection and the review of this information has now been completed.

Community consultation to gather local knowledge in relation to flood behaviour and the impacts of specific events was undertaken between 16 October 2023 and 13 November 2023. The information gathered during this consultation is being used in the calibration and validation of the flood modelling.

Hydrological analysis has commenced for this project with the completion of flood modelling. Currently, the consultants for this project (Manly Hydraulics Laboratory) are focusing on the validation of the model.

COMMUNITY ENGAGEMENT

The issues raised in this report concern matters which constitute a trigger for Community Engagement under Council's Community Engagement Policy.

Consultation is a vital part of succeeding in floodplain management. It provides an opportunity to gather local knowledge in relation to flood behaviour and the impacts of specific events. In addition, community engagement provides opportunities for the community to be heard, and develops trust and confidence in the process, thereby increasing the community buy-in to study outcomes.

The purpose of community consultation associated with the three Hawkesbury floodplain management projects is to:

- Inform the community about the study
- Identify community concerns

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

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- Gather information from the community by participation
- Develop and maintain community confidence and collaboration with the study results
- Inform the community about flood risks in the area
- Seek input from the community in respect to floodplain management options.

Consultation is being carried out at different stages and from different purposes during the floodplain risk management assessment process.

The Floodplain Risk Management projects have all undertaken community consultation to inform the preparation of these studies. Further consultation and public exhibition is scheduled as detailed in the Work Program included as Attachment 17.

The first stage of community consultation for each of Council's Floodplain Risk Management projects has been carried out as detailed in the status update discussed previously in this report.

The engagement plan for each consultation period was presented to/discussed at the Floodplain Management Sub-Committee Meeting, and in general included the following:

Consultation material:

- Documentation explaining the purpose of the consultation
- A questionnaire/survey online and/or hard copy
- Plan showing the study area.

Engagement methodology:

- Promotion on Council website – Your Hawkesbury-Your Say and social media
- Online questionnaire
- Mail out of the questionnaire and supporting documents to property owners and residents (Macdonald River, Colo River, Webbs Creek and Greens Creek Project, and Redbank Creek Project only)
- Face to face engagement via Council's Community Hubs or pop ups (Macdonald River, Colo River, Webbs Creek and Greens Creek Project, and Redbank Creek Project only)
- Engagement period of 4 weeks.

A copy of the engagement material for each project is included as Attachments 18 - 29.

CONFORMANCE TO THE HAWKESBURY COMMUNITY STRATEGIC PLAN 2022-2042

The proposal is consistent with the following Long-Term Community Objectives set out within the CSP.

Great Place to Live

- 1.1 Enable a shared responsibility for community resilience, community safety and disaster management.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

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- 1.3 Increase the range of local partnerships and plan for the future.
- 1.4 Facilitate the delivery of infrastructure through relevant agencies for Council's own works.
- 1.5 Provide the right places and spaces to serve our community.
- 1.6 Build on a sense of community and wellbeing.

Reliable Council

- 4.1 Provide representative, responsive and accountable governance.
- 4.2 Encourage an informed community.
- 4.4 Build strong relationships and shared responsibilities.
- 4.7 Encourage informed planning, balanced growth and community engagement.
- 4.8 Facilitate the delivery of infrastructure through relevant agencies and Council's own works.

FINANCIAL IMPACT

Direct Financial Implications

The matters raised in this report have direct financial implications. The expenditure applicable is provided for in the Adopted 2023/2024 Operational Plan which includes grant funding through the Coast, Estuary and Flood Grants Program through the Department of Environment and Heritage.

ATTACHMENTS

- AT - 1** Floodplain Management Sub Committee Business Papers 28 June 2023 - (*Distributed under separate cover*).
- AT - 2** Floodplain Management Sub Committee Minutes 28 June 2023.
- AT - 3** Floodplain Management Sub Committee Business Papers 26 July 2023 - (*Distributed under separate cover*).
- AT - 4** Floodplain Management Sub Committee Minutes 26 July 2023.
- AT - 5** Floodplain Management Sub Committee Business Papers 23 August 2023 - (*Distributed under separate cover*).
- AT - 6** Floodplain Management Sub Committee Minutes 23 August 2023.
- AT - 7** Floodplain Management Sub Committee Business Papers 27 September 2023 - (*Distributed under separate cover*).
- AT - 8** Floodplain Management Sub Committee Minutes 27 September 2023.
- AT - 9** Floodplain Management Sub Committee Business Papers 18 October 2023 - (*Distributed under separate cover*).
- AT - 10** Floodplain Management Sub Committee Minutes 18 October 2023.

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- AT - 11** Floodplain Management Sub Committee Business Papers 15 November 2023 - (*Distributed under separate cover*).
- AT - 12** Floodplain Management Sub Committee Minutes 15 November 2023.
- AT - 13** Floodplain Management Sub Committee Business Papers 21 February 2024 - (*Distributed under separate cover*).
- AT - 14** Floodplain Management Sub Committee Minutes 21 February 2024.
- AT - 15** Floodplain Management Sub Committee Business Papers 20 March 2024 - (*Distributed under separate cover*).
- AT - 16** Floodplain Management Sub Committee Minutes 20 March 2024.
- AT - 17** Hawkesbury Floodplain Projects Program - (*Distributed under separate cover*).
- AT - 18** Letter for Macdonald and Colo River Residents.
- AT - 19** Flyer Macdonald and Colo Rivers Consultation.
- AT - 20** Questionnaire for Macdonald and Colo Rivers.
- AT - 21** Map of Macdonald River Colo River Webbs Creek and Greens Creek Study Areas.
- AT - 22** Macdonald and Colo Floodplain Risk Management Frequently Asked Questions.
- AT - 23** Hawkesbury Floodplain Risk Management Study Review Survey.
- AT - 24** Hawkesbury Floodplain Risk Management Study Area.
- AT - 25** Hawkesbury Floodplain Risk Management Frequently Asked Questions.
- AT - 26** Redbank Creek Community Consultation Letter.
- AT - 27** Redbank Creek Study Questionnaire.
- AT - 28** Redbank Creek Study Area Map.
- AT - 29** Redbank Creek Flood Study Information Sheet.



Floodplain Management Sub-Committee

Date of meeting: 28 June 2023
Location: Council Administration Building
Time: 3:00 PM

MINUTES

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 28 June 2023

- **WELCOME**
- **APOLOGIES**
- **DECLARATION OF INTERESTS**
- **SECTION 3 - Reports for Determination**
- **SECTION 5 - General Business**

DISASTER AND EMERGENCY COMMITTEE

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FLOODPLAIN SUB-COMMITTEE

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FLOODPLAIN SUB-COMMITTEE

Minutes: 28 June 2023

Minutes of the Meeting of the Floodplain Sub-Committee held in the Large Committee Room, Windsor, on 28 June 2023, commencing at 3:00pm.

ATTENDANCE

Present: Mr Andrew North, Community Representative
Mr Christopher Bell, Community Representative
Mr Wayne Mitchell, Community Representative
Ms Rosemary Scott, Community Representative – (Audio-Visual Link)
Mr Harry Panagopoulos, Department of Planning and Environment – (Audio-Visual Link)
Mr Stephen Yeo, Infrastructure NSW – (Audio-Visual Link)
Mr Kevin Jones, State Emergency Services – (Audio-Visual Link)
Councillor Amanda Kotlash, Hawkesbury City Council
Councillor Les Sheather, Hawkesbury City Council

Apologies: Mr Lawrence Ross
Mr Murray West

In Attendance: Ms Meagan Ang, Hawkesbury City Council
Mr Andrew Kearns, Hawkesbury City Council
Ms Colleen Haron, Hawkesbury City Council
Mr Philip Bow, Hawkesbury City Council – (Audio-Visual Link)

Member	28/6/2023
Mr Andrew North	✓
Mr Christopher Bell	✓
Mr Wayne Mitchell	✓
Ms Rosemary Scott	✓
Mr Harry Panagopoulos	✓
Mr Stephen Yeo	✓
Mr Kevin Jones	✓
Councillor Amanda Kotlash	✓
Councillor Les Sheather	✓
Mr Lawrence Ross	A
Mr Murray West	A
Mr Troy Myers	X

Key: A = Formal Apology ✓ = Present X = Absent - no apology

APOLOGIES

Apologies from Mr Lawrence Ross and Mr Murray West were noted.

DECLARATIONS OF INTEREST

There were no Declarations of Interests made.

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3. REPORTS FOR DETERMINATION

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FLOODPLAIN SUB-COMMITTEE

Minutes: 28 June 2023

3.1.2. FPSC - Terms of Reference and Meetings - (161821, 124414, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub-Committee receive and note:

1. The Terms of Reference for the Floodplain Management Sub-Committee, and
2. The likely meeting dates and frequency for the period from June 2023 to September 2024, as outlined in the report.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Councillor Kotlash and seconded by Mr Christopher Bell.

That the Floodplain Management Sub-Committee receive and note:

1. The Terms of Reference for the Floodplain Management Sub-Committee, and
2. The likely meeting dates and frequency for the period from June 2023 to September 2024, as outlined in the report.
3. Recommend to the Disaster and Emergency Committee that the Terms of Reference be amended by the inclusion of neighbouring Councils in objective 2 (e).

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 28 June 2023

3.1.3. FPSC - Floodplain Risk Management Projects - (161821, 124414, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Risk Management Advisory Sub-Committee receive and note:

- The details of the Floodplain Risk Management Studies and Plans currently being undertaken by Council as provided in this report; and
- The matters in which the Sub-Committee will contribute to the development of these Studies and Plans as outlined in this report, being:
 - Community consultation
 - The determination of floodplain management options
 - The review of draft Studies and Plans, prior to public exhibition; and
 - The review of the final Studies and Plans following public exhibition.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Christopher Bell and seconded by Councillor Kottlash.

That the Floodplain Risk Management Advisory Sub-Committee receive and note:

- The details of the Floodplain Risk Management Studies and Plans currently being undertaken by Council as provided in this report; and
- The matters in which the Sub-Committee will contribute to the development of these Studies and Plans as outlined in this report, being:
 - Community consultation
 - The determination of floodplain management options
 - The review of draft Studies and Plans, prior to public exhibition; and
 - The review of the final Studies and Plans following public exhibition.
- That the Sub-Committee is consulted earlier in the consultants brief in order to inform preparation of recommendations. Table 1 be updated to provide an extra column and brought back for future consideration by the Sub-Committee at the next meeting.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 28 June 2023

3.1.4. FPSC - Combined Rivers Project Community Survey - (161821, 124414, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub-Committee endorse the:

1. Proposed Engagement Plan as outlined in this report; and
2. Use of the community survey and supporting documentation as provided in Attachments 1 to 3.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Councillor Kotlash and seconded by Mr Wayne Mitchell.

That the Floodplain Management Sub-Committee endorse the:

1. Proposed Engagement Plan as outlined in this report; and
2. Use of the community survey and supporting documentation as provided in Attachments 1 to 3.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 28 June 2023

4. GENERAL BUSINESS

There was no general business discussed.



Floodplain Management Sub-Committee

Date of meeting: 26 July 2023
Location: Council Administration Building
Time: 3:00 PM

MINUTES

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

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DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

1. AGENDA

Meeting Date: 26 July 2023

1. AGENDA

Minutes of the Meeting of the Floodplain Sub-Committee held in the Large Committee Room, Windsor, on 26 July 2023, commencing at 3:00pm.

ATTENDANCE

- Present:** Councillor Les Sheather, Hawkesbury City Council – (Chairperson)
Councillor Amanda Kotlash, Hawkesbury City Council – (Deputy Chairperson)
Mr Wayne Mitchell, Community Representative
Mr Lewis Adey, Macdonald Valley Association - (Audio-Visual Link)
Mr Kevin Jones, State Emergency Services – (Audio-Visual Link)
Mr Lawrence Rose, Community Representative
Mr Murray West, Community Representative - (Audio-Visual Link)
Mr Troy Myers, Community Representative
- Apologies:** Mr Andrew North, Community Representative
Mr Harry Panagopoulos, Department of Planning and Environment
Mr Stephen Yeo, Infrastructure NSW
Mr Christoher Bell, Community Representative
- In Attendance:** Ms Madeleine Dignam, Infrastructure NSW – (Audio-Visual Link)
Ms Fiona Coe, Department of Planning and Environment - (Audio-Visual Link)
Ms Liz Murphy, Hawkesbury City Council, - (Audio-Visual Link)
Ms Sunehla Bala, Hawkesbury City Council
Ms Colleen Haron, Hawkesbury City Council
Mr Phillip Bow, Hawkesbury City Council

Member	28/6/2023	26/7/2023
Mr Andrew North	✓	A
Mr Christopher Bell	✓	A
Mr Wayne Mitchell	✓	✓
Mr Lewis Adey/Ms Rosemary Scott	✓	✓
Mr Harry Panagopoulos	✓	A
Mr Kevin Jones	✓	✓
Mr Stephen Yeo	✓	A
Councillor Amanda Kotlash	✓	✓
Councillor Les Sheather	✓	✓
Mr Lawrence Rose	A	✓
Mr Murray West	A	✓
Mr Troy Myers	X	✓

Key: A = Formal Apology ✓ = Present X = Absent - no apology

APOLOGIES

Apologies from Mr Andrew North, Mr Harry Panagopoulos, Mr Stephen Yeo and Mr Christopher Bell were noted.

RESOLVED on the motion of Mr Wayne Mitchell seconded by Mr Troy Myers.

Floodplain Management Sub-Committee 26 July 2023

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DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

1. AGENDA

Meeting Date: 26 July 2023

DECLARATIONS OF INTEREST

There were no Declarations of Interests made.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 26 July 2023

2. CONFIRMATION OF MINUTES

The Committee resolved on the Motion of Councillor Amanda Kotlash, seconded by Mr Wayne Mitchell, that the Minutes from the previous meeting held on Wednesday, 28 June 2023 be confirmed.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 July 2023

3. REPORTS FOR DETERMINATION

3.1.1. FPSC - Presentation - Infrastructure NSW - (161821, 124414, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee consider the matters discussed in the presentation by Infrastructure NSW's Hawkesbury-Nepean Valley Flood Risk Management Directorate.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Troy Myers and seconded by Mr Laurie Rose.

That the Floodplain Management Sub Committee consider the matters discussed in the presentation by Infrastructure NSW's Hawkesbury-Nepean Valley Flood Risk Management Directorate.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 July 2023

3.1.2. FPSC - Presentation - Community Planning and Partnerships - (161821, 124414, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee consider the matters discussed in the presentation by Council's Community Planning and Partnerships Section.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Troy Myers and seconded by Mr Laurie Rose.

That the Floodplain Management Sub Committee consider the matters discussed in the presentation by Council's Community Planning and Partnerships Section.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 July 2023

3.1.3. FPSC - Recommendations of Hawkesbury Floodplain Risk Management Plan 2012 - (161821, 124414, 95498)

Previous Item: 3.1.3, Floodplain Management Sub-Committee (28 June 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the future actions identified in Table 1: *Status of Hawkesbury Floodplain Risk Management Study and Plan 2012 Recommendations* provided as Attachment 1 to this report be referred to the consultants for consideration for inclusion in the review and update of this Plan.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Troy Myers and seconded by Mr Laurie Rose.

That the matter be deferred to the next Floodplain Management Sub-Committee Meeting.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

4. GENERAL BUSINESS

Meeting Date: 26 July 2023

4. GENERAL BUSINESS

A. Combined Rivers Consultation

The Sub-Committee was advised of the commencement engagement associated with the Macdonald River, Colo River, Webbs Creek and Greens Creek Communities.

B. Committee Member Replacement

Mr Lewis Adey is to replace Ms Rosemary Scott as a Sub-Committee Member as the representative from the Macdonald Valley Association.

C. Relevant Policies/Strategies

Councillor Les Sheather requested the Sub-Committee be provided with relevant links to Policies, Strategies and information relevant to floodplain management in the Hawkesbury-Nepean Valley.

The next Floodplain Management Sub Committee meeting is proposed to be held on Wednesday, 23 August 2023 at 3:00pm.

The meeting terminated at 5:49pm.



Floodplain Management Sub-Committee

Date of meeting: 23 August 2023
Location: Council Administration Building
Time: 3:00 PM

MINUTES

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 23 August 2023

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DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 23 August 2023

1. AGENDA

Minutes of the Meeting of the Floodplain Sub-Committee held in the Large Committee Room, Windsor, on 23 August 2023 commencing at 3:00pm.

ATTENDANCE

Present: Councillor Les Sheather, Hawkesbury City Council - (Chairperson)
Councillor Amanda Kotlash, Hawkesbury City Council - (Deputy Chairperson)
Mr Andrew North, Community Representative
Mr Christopher Bell, Community Representative
Mr Wayne Mitchell, Community Representative
Mr Lawrence Rose, Community Representative
Mr Troy Myers, Community Representative
Mr Kevin Jones, State Emergency Services - (Audio-Visual Link)
Mr Harry Panagopoulos, Department of Planning & Environment - (Audio-Visual Link)
Dr Stephen Yeo, Infrastructure NSW - (Audio-Visual Link)

Apologies: Mr Murray West, Community Representative
Mr Lewis Adey, Community Representative

In Attendance: Mr Andrew Kearns, Hawkesbury City Council
Ms Colleen Haron, Hawkesbury City Council
Mr Phillip Bow, Hawkesbury City Council
Ms Robyn Kozjak, Hawkesbury City Council

Member	26/07/2023	23/08/2023
Mr Andrew North	A	✓
Mr Christopher Bell	A	✓
Mr Wayne Mitchell	✓	✓
Mr Lewis Adey	✓	A
Mr Harry Panagopoulos	A	✓
Mr Kevin Jones	✓	✓
Dr Stephen Yeo	A	✓
Councillor Amanda Kotlash	✓	✓
Councillor Les Sheather	✓	✓
Mr Lawrence Rose	✓	✓
Mr Murray West	✓	A
Mr Troy Myers	✓	✓

Key: A = Formal Apology ü= Present X = Absent - no apology

APOLOGIES

Apologies from Mr Murray West and Mr Lewis Adey were noted.

RESOLVED on the motion of Mr Andrew North seconded by Mr Christopher Bell.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 23 August 2023

Mr Kevin Jones joined the meeting (via audio-visual link) at 3:05pm.

Mr Troy Myers arrived at the meeting at 3:44pm.

DECLARATION OF INTERESTS

There were no Declarations of Interests made.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 23 August 2023

2. CONFIRMATION OF MINUTES

The Committee resolved on the Motion of Mr Wayne Mitchell, seconded by Councillor Amanda Kotlash, that the Minutes from the previous meeting held on Wednesday, 26 July 2023 be confirmed.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 23 August 2023

3. REPORTS FOR DETERMINATION

3.1.1. FPSC - Floodplain Risk Management Project Updates - (161821, 124414, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub-Committee receive the update on the status of Council's Floodplain Risk Management Projects.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Councillor Amanda Kotlash and seconded by Mr Andrew North.

That the Floodplain Management Sub-Committee:

1. Receive the update on the status of Council's Floodplain Risk Management Projects.
2. Be forwarded, via email, with a revised survey questionnaire as discussed at the meeting.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 23 August 2023

3.1.2. FPSC - Recommendations of Hawkesbury Floodplain Risk Management Plan 2012 - (161821, 124414, 95498)

Previous Item: 3.1.3, Floodplain Management Sub-Committee (28 June 2023)
3.1.3, Floodplain Management Sub-Committee (26 July 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the future actions identified in Table 1: *Status of Hawkesbury Floodplain Risk Management Study and Plan 2012 Recommendations* provided as Attachment 1 to this report be referred to the consultants for consideration for inclusion in the review and update of this Plan.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Lawrence Rose and seconded by Mr Christopher Bell.

That the future actions identified in Table 1: *Status of Hawkesbury Floodplain Risk Management Study and Plan 2012 Recommendations* provided as Attachment 1 to this report be referred to the consultants for consideration for inclusion in the review and update of this Plan.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 23 August 2023

3.1.3. FPSC - Links to Relevant Information - (161821, 124414, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee receive the information provided within the report.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Wayne Mitchell and seconded by Mr Troy Myers.

That the Floodplain Management Sub Committee receive the information provided within the report.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 23 August 2023

4. GENERAL BUSINESS

A. Scheduling / Timing of Meetings

A short discussion was had in relation to the timing of Floodplain Management Sub-Committee meetings going forward. It was noted that this matter is currently under review.

The next Floodplain Management Sub Committee meeting is proposed to be held on Wednesday, 27 September 2023 at 3:00pm.

The meeting terminated at 5:05pm.

Attachment 8 - Floodplain Management Sub Committee Minutes - 27 September 2023



Floodplain Management Sub-Committee

Date of meeting: 27 September 2023
Location: Council Administration Building
Time: 3:00 PM

MINUTES

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 27 September 2023

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DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 27 September 2023

1. AGENDA

Welcome

Minutes of the Meeting of the Floodplain Sub-Committee held in the Large Committee Room, Windsor, on Wednesday, 27 September 2023 commencing at 3:00pm.

ATTENDANCE

Present: Councillor Amanda Kotlash, Hawkesbury City Council – (Deputy Chairperson)
Mr Christopher Bell, Community Representative
Mr Wayne Mitchell, Community Representative
Mr Lewis Adey, Macdonald Valley Association - (Audio-Visual Link)
Mr Lawrence Rose, Community Representative
Mr Murray West, Community Representative
Mr Troy Myers, Community Representative
Mr Harry Panagopoulos, Department of Planning & Environment – (Audio-Visual Link)
Dr Stephen Yeo, Reconstruction Authority – (Audio-Visual Link)

Apologies: Councillor Les Sheather, Hawkesbury City Council – (Chairperson)
Mr Andrew North, Community Representative
Mr Kevin Jones, State Emergency Services

In Attendance: Mr Andrew Kearns, Hawkesbury City Council
Ms Colleen Haron, Hawkesbury City Council
Mr Phillip Bow, Hawkesbury City Council

Member	26/7/2023	23/08/2023	27/09/2023
Mr Andrew North	A	✓	A
Mr Christopher Bell	A	✓	✓
Mr Wayne Mitchell	✓	✓	✓
Mr Lewis Adey	✓	A	✓
Mr Harry Panagopoulos	A	✓	✓
Mr Kevin Jones	✓	✓	A
Mr Stephen Yeo	A	✓	✓
Councillor Amanda Kotlash	✓	✓	✓
Councillor Les Sheather	✓	✓	A
Mr Lawrence Rose	✓	✓	✓
Mr Murray West	✓	A	✓
Mr Troy Myers	✓	✓	✓

Key: A = Formal Apology ✓= Present X = Absent - no apology

Apologies

Apologies from Councillor Les Sheather, Mr Kevin Jones and Mr Andrew North were noted.

RESOLVED on the motion of Mr Murray West seconded by Mr Troy Myers.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 27 September 2023

Declaration of Interests

Mr Lawrence Rose declared a less than significant non pecuniary interest as an owner of property on the floodplain.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 27 September 2023

2. CONFIRMATION OF MINUTES

The Committee resolved on the Motion of Mr Lawrence Rose, seconded by Mr Wayne Mitchell, that the Minutes from the previous meeting held on Wednesday, 23 August 2023 be confirmed.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 27 September 2023

3. REPORTS FOR DETERMINATION

3.1.1 FPSC - Floodplain Management Project Updates - (161821, 124414, 95498)

Previous Item: 3.1.1, Floodplain Management Sub-Committee (23 August 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee receive the update on the status of Council's Floodplain Risk Management Projects.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Wayne Mitchell and seconded by Mr Murray West.

That the Floodplain Management Sub Committee receive the update on the status of Council's Floodplain Risk Management Projects.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 27 September 2023

3.1.2 FPSC - Presentation - Resilience and Emergency Management - (161821, 124414, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee receive the presentation by Council's Resilience and Emergency Management Co-ordinator on the recent upgrades to the Disaster and Emergency Dashboard.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Troy Myers and seconded by Mr Christopher Bell.

That the Floodplain Management Sub Committee receive the presentation by Council's Resilience and Emergency Management Co-ordinator on the recent upgrades to the Disaster and Emergency Dashboard.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 27 September 2023

3.1.3 FPSC - Combined Rivers Community Engagement Outcomes - (161821, 124414, 95498)

Previous Item: 3.1.4, Floodplain Management Sub-Committee (28 June 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee note:

1. The outcomes of the community engagement undertaken to gather local information and experiences about recent or historical floods, and seeking suggestions related to flooding in the Macdonald River, Colo River, Webbs Creeks and Greens Creek.
2. The information has been referred to the consultants for the Project to be used in the preparation of the Macdonald River, Colo River, Webbs Creeks and Greens Creek Flood Study and Floodplain Risk Management Study and Plan.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Christopher Bell and seconded by Mr Troy Myers.

That the Floodplain Management Sub Committee note:

1. The outcomes of the community engagement undertaken to gather local information and experiences about recent or historical floods, and seeking suggestions related to flooding in the Macdonald River, Colo River, Webbs Creeks and Greens Creek.
2. The information has been referred to the consultants for the Project to be used in the preparation of the Macdonald River, Colo River, Webbs Creeks and Greens Creek Flood Study and Floodplain Risk Management Study and Plan.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 27 September 2023

3.1.4 FPSC - Review of Hawkesbury Floodplain Risk Management Plan 2012 - Management Options - (161821, 124414, 95498)

Previous Item: 3.1.2, Floodplain Management Sub-Committee (23 August 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the management options identified in this report be referred to the consultants for consideration in the review and update of the Hawkesbury Floodplain Risk Management Study and Plan.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Lawrence Rose and seconded by Mr Troy Myers.

That the management options identified in this report be referred to the consultants for consideration in the review and update of the Hawkesbury Floodplain Risk Management Study and Plan, with the following amendments/additions:

- a) Only matters that result in the reduction of flood impacts on the community should be included for consideration as potential management options in accordance with the purpose of the NSW Flood Policy and supporting Manual.
- b) Point 6 (Improvements to the power supply, including high level crossings, under water cabling, or being provided from the west (Lithgow)) to include the protection (e.g. bunding) of substations and business continuity planning.
- c) Point 7 (Improvements to telecommunications towers, including generators on remote towers, access to and servicing of these towers during floods) to include business continuity planning, and to advocate for changes to State Environmental Planning Policy (Transport and Infrastructure) 2021, to consider controls that ensure service continuity for the installation of telecommunication towers on flood liable land under this Policy.
- d) Assessment of all flood evacuation routes be considered, noting Transport for NSW's Road Resilience program.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 27 September 2023

4. GENERAL BUSINESS

There was no general business discussed.

The next Floodplain Management Sub Committee meeting is proposed to be held on Wednesday, 18 October 2023 at 3:00pm.

The meeting terminated at 5:07pm.

Attachment 10 - Floodplain Management Sub Committee Minutes - 18 October 2023



Floodplain Management Sub-Committee

Date of meeting: 18 October 2023
Location: Council Administration Building
Time: 3:00 PM

MINUTES

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 18 October 2023

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DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 18 October 2023

1. AGENDA

Welcome

Minutes of the Meeting of the Floodplain Sub-Committee held in the Large Committee Room, Windsor, on 18 October 2023, commencing at 3:00pm.

ATTENDANCE

Present: Councillor Les Sheather, Hawkesbury City Council – (Chairperson)
Councillor Amanda Kotlash, Hawkesbury City Council – (Deputy Chairperson)
Mr Christopher Bell, Community Representative
Mr Wayne Mitchell, Community Representative
Mr Lawrence Rose, Community Representative
Mr Murray West, Community Representative
Mr Troy Myers, Community Representative
Mr Kevin Jones, State Emergency Services (Audio-Visual Link)
Mr Harry Panagopoulos, Department of Planning and Environment – (Audio-Visual Link)
Ms Fiona Coe, Department of Planning & Environment – (Audio-Visual Link)
Dr Stephen Yeo, NSW Reconstruction Authority – (Audio-Visual Link)

Apologies: Mr Lewis Adey, Community Representative

In Attendance: Ms Monique Retallick, WMA Water
Mr Mark Babister, WMA Water
Ms Colleen Haron, Hawkesbury City Council
Mr Phillip Bow, Hawkesbury City Council

Member	23/08/2023	27/09/2023	18/10/2023
Mr Andrew North	✓	A	X
Mr Christopher Bell	✓	✓	✓
Mr Wayne Mitchell	✓	✓	✓
Mr Lewis Adey	A	✓	A
Mr Harry Panagopoulos/ Ms Fiona Coe	✓	✓	✓
Mr Kevin Jones	✓	A	✓
Mr Stephen Yeo	✓	✓	✓
Councillor Amanda Kotlash	✓	✓	✓
Councillor Les Sheather	✓	A	✓
Mr Lawrence Rose	✓	✓	✓
Mr Murray West	A	✓	✓
Mr Troy Myers	✓	✓	✓

Key: A = Formal Apology ✓= Present X = Absent - no apology

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 18 October 2023

Apologies

Apologies from Mr Lewis Adey were noted.

RESOLVED on the motion of Councillor Amanda Kotlash seconded by Mr Wyne Mitchell.

Mr Troy Myers arrived at the meeting at 3:10pm.

Declaration of Interests

There were no Declarations of Interests made.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 18 October 2023

2. CONFIRMATION OF MINUTES

The Sub-Committee resolved on the Motion of Mr Christopher Bell, seconded by Mr Wayne Mitchell, that the Minutes from the previous meeting held on Wednesday, 27 September 2023 be confirmed.

Procedural Motion

The Sub-Committee resolved on the Motion of Councillor Amanda Kotlash, seconded by Mr Christopher Bell that Item 3.1.2 be brought forward.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 18 October 2023

3. REPORTS FOR DETERMINATION

3.1.1. FPSC - Floodplain Risk Management Project Updates - (161821, 124414, 95498)

Previous Item: 3.1.1, Floodplain Management Sub-Committee (27 September 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee receive the updates on the status of Council's Floodplain Risk Management Projects.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Wayne Mitchell and seconded by Mr Christopher Bell.

That the Floodplain Management Sub Committee receive the updates on the status of Council's Floodplain Risk Management Projects.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 18 October 2023

3.1.2. FPSC - Presentation - Review Hawkesbury FRMS&P - Potential Management Options - (161821, 124414, 95498)

Previous Item: 3.1.4, Floodplain Management Sub-Committee (27 September 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee consider the matters highlighted in the presentation by WMA Water.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Troy Myers and seconded by Councillor Amanda Kotlash.

That the Floodplain Management Sub Committee consider the matters highlighted in the presentation by WMA Water and extend their thanks to WMA Water for the presentation.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 18 October 2023

4. GENERAL BUSINESS

A. Welcome to Ms Fiona Coe

The Sub-Committee was introduced to Ms Fiona Coe from the Department of Planning and Environment, who will represent the Department as a member of the Sub-Committee in a shared role with Mr Harry Panagopoulos.

The next Floodplain Management Sub Committee meeting is proposed to be held on Wednesday, 15 November 2023 at 3:00pm.

The meeting terminated at 4:45pm.

Attachment 12 - Floodplain Management Sub Committee Minutes - 15 November 2023



Floodplain Management Sub-Committee

Date of meeting: 15 November 2023
Location: Council Administration Building and by Audio-Visual
Time: 3:00 PM

MINUTES

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 15 November 2023

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DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 15 November 2023

1. AGENDA

Welcome

Minutes of the Meeting of the Floodplain Sub-Committee held in the Large Committee Room, Windsor, on 15 November 2023, commencing at 3:00pm.

ATTENDANCE

Present: Councillor Les Sheather, Hawkesbury City Council – (Chairperson)
Mr Christopher Bell, Community Representative
Mr Wayne Mitchell, Community Representative
Mr Lawrence Rose, Community Representative
Mr Murray West, Community Representative
Mr Kevin Jones, State Emergency Services - (Audio-Visual Link)
Mr Harry Panagopoulos, Department of Planning and Environment – (Audio-Visual Link)
Ms Fiona Coe, Department of Planning & Environment – (Audio-Visual Link)
Dr Stephen Yeo, NSW Reconstruction Authority – (Audio-Visual Link)

Apologies: Councillor Amanda Kotlash - (Deputy Chairperson)
Mr Lewis Adey, Community Representative
Mr Andrew North, Community Representative
Mr Troy Myers, Community Representative

In Attendance: Mr Andrew Kearns, Hawkesbury City Council
Ms Colleen Haron, Hawkesbury City Council
Mr Phillip Bow, Hawkesbury City Council – (Audio-Visual Link)
Ms Emma Whale, NSW Reconstruction Authority – (Audio-Visual Link)
Ms Rachel Pagitz, NSW Reconstruction Authority – (Audio-Visual Link)

Member	23/08/2023	27/09/2023	18/10/2023	15/11/2023
Mr Andrew North	✓	A	X	A
Mr Christopher Bell	✓	✓	✓	✓
Mr Wayne Mitchell	✓	✓	✓	✓
Mr Lewis Adey	A	✓	A	A
Mr Harry Panagopoulos/ Ms Fiona Coe	✓	✓	✓	✓
Mr Kevin Jones	✓	A	✓	✓
Mr Stephen Yeo	✓	✓	✓	✓
Councillor Amanda Kotlash	✓	✓	✓	A
Councillor Les Sheather	✓	A	✓	✓
Mr Lawrence Rose	✓	✓	✓	✓
Mr Murray West	A	✓	✓	✓
Mr Troy Myers	✓	✓	✓	A

Key: A = Formal Apology ü= Present X = Absent - no apology

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 15 November 2023

Apologies

Apologies from Councillor Amanda Kotlash, Mr Lewis Adey, Mr Andrew North and Mr Troy Myers were noted.

RESOLVED on the motion of Mr Wayne Mitchell, seconded by Mr Murray West.

Declaration of Interests

There were no Declarations of Interests made.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 15 November 2023

2. CONFIRMATION OF MINUTES

The Committee resolved on the Motion of Mr Lawrence Rose, seconded by Mr Christopher Bell, that the Minutes from the previous meeting held on Wednesday, 18 October 2023 be confirmed.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 15 November 2023

3. REPORTS FOR DETERMINATION

3.1.1. FPSC - Presentation - Draft 2023 Hawkesbury-Nepean River Flood Study - (161821, 124414, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee consider the matters highlighted in the presentation by the NSW Reconstruction Authority.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Lawrence Rose and seconded by Mr Christopher Bell.

That the Floodplain Management Sub Committee consider the matters highlighted in the presentation by the NSW Reconstruction Authority.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 15 November 2023

3.1.2 **FPSC - Floodplain Risk Management Project Updates - (161821, 124414, 95498)**

Previous Item: 3.1.1, FPSC (18 October 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee receive the update on the status of Council's Floodplain Risk Management Projects.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Christopher Bell and seconded by Mr Murray West.

That the Floodplain Management Sub Committee receive the update on the status of Council's Floodplain Risk Management Projects.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN SUB-COMMITTEE

Minutes: 15 November 2023

4. GENERAL BUSINESS

A. Enquiries made with respect to meeting dates for 2024.

The next Floodplain Management Sub Committee meeting is proposed to be held on Wednesday, 21 February 2024 at 3:00pm.

B. Enquiry made with respect to inclusion of a Penrith City Council representative on the Sub-Committee.

Chair requested that Sub-Committee members send future requests to the Chair instead of all Sub-Committee members.

The meeting terminated at 4:10pm.

Attachment 14 -Floodplain Management Sub Committee Minutes - 21 February 2024



Floodplain Management Sub-Committee

Date of meeting: 21 February 2024
Location: Council Administration Building
Time: 3:00 PM

MINUTES

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 21 February 2024

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 3.1.2 FPSC – Macdonald River, Colo River, Webbs Creek, Greens Creek Floodplain Risk
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 3.1.3 FPSC – Floodplain Risk Management Project Updates & Project Program 2024 - (161821,
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DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 21 February 2024

1. AGENDA

Welcome

Minutes of the Meeting of the Floodplain Management Sub-Committee held in the Large Committee Room, Windsor, on 21 February 2024, commencing at 3:00pm.

ATTENDANCE

Present: Councillor Les Sheather, Hawkesbury City Council – (Chairperson)
Councillor Amanda Kotlash, Hawkesbury City Council – (Deputy Chairperson) – (Audio-Visual link)
Mr Andrew North, Community Representative
Mr Christopher Bell, Community Representative
Mr Lewis Adey, Macdonald Valley Association – (Audio-Visual Link)
Mr Lawrence Rose, Community Representative
Mr Troy Myers, Community Representative – (Audio-Visual)
Mr Harry Panagopoulos, Department of Climate Change, Energy, the Environment and Water
Ms Fiona Coe, Department of Climate Change, Energy, the Environment and Water
Dr Stephen Yeo, NSW Reconstruction Authority – (Audio-Visual Link)

Apologies: Mr Wayne Mitchell, Community Representative
Mr Murray West, Community Representative

In Attendance: Ms Monique Retallick, WMA Water
Mr Mark Babister, WMA Water
Mr Oscar Garrett, Rhelm
Mr David Tetley, Catchment Simulation Solutions
Ms Colleen Haron, Hawkesbury City Council
Mr Phillip Bow, Hawkesbury City Council

Member	18/10/2023	15/11/2023	21/02/2024
Mr Andrew North	X	A	✓
Mr Christopher Bell	✓	✓	✓
Mr Wayne Mitchell	✓	✓	A
Mr Lewis Adey	A	A	✓
Mr Harry Panagopoulos/ Ms Fiona Coe	✓	✓	✓
Mr Kevin Jones	✓	✓	X
Mr Stephen Yeo	✓	✓	✓
Councillor Amanda Kotlash	✓	X	✓
Councillor Les Sheather	✓	✓	✓
Mr Lawrence Rose	✓	✓	✓
Mr Murray West	✓	✓	A
Mr Troy Myers	✓	A	✓

Key: A = Formal Apology ✓ = Present X = Absent - no apology

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 21 February 2024

Apologies

Apologies from Mr Wayne Mitchell and Mr Murray West were noted.

RESOLVED on the motion of Mr Andrew North, seconded by Mr Lawrence Rose.

Declaration of Interests

There were no Declarations of Interests made.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 21 February 2024

2. CONFIRMATION OF MINUTES

The Committee resolved on the Motion of Mr Christopher Bell, seconded by Mr Lawrence Rose, that the Minutes from the previous meeting held on Wednesday, 15 November 2023 be confirmed.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 21 February 2024

3. REPORTS FOR DETERMINATION

3.1.1. FPSC – Review of Hawkesbury Floodplain Risk Management Study and Plan – Assessment of Preferred Management Options - (161821, 124414, 95498)

Previous Item: 3.1.2, Floodplain Management Sub-Committee (18 October 2023)

3.1.4, Floodplain Management Sub-Committee (27 September 2023)

3.1.2, Floodplain Management Sub-Committee (23 August 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee consider the matters identified in the presentation by consultants WMA Water on the assessment of preferred management options associated with the Review of the Hawkesbury Floodplain Risk Management Study and Plan.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Andrew North and seconded by Mr Christopher Bell.

1. That the Floodplain Management Sub Committee consider the matters identified in the presentation by consultants WMA Water on the assessment of preferred management options associated with the Review of the Hawkesbury Floodplain Risk Management Study and Plan.
2. That the matter be further discussed with the consultants at a future meeting.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 21 February 2024

3.1.2. FPSC – Macdonald River, Colo River, Webbs Creek, Greens Creek Floodplain Risk Management Study and Plan – Draft Flood Study - (161821, 124414, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee consider the draft Flood Study for the Macdonald River, Colo River, Webbs Creek, Greens Creek Floodplain Risk Management Study and Plan following the presentation by consultants Rhelm.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Councillor Amanda Kotlash and seconded by Mr Lewis Adey.

1. That the Floodplain Management Sub Committee consider the draft Flood Study for the Macdonald River, Colo River, Webbs Creek, Greens Creek Floodplain Risk Management Study and Plan following the presentation by consultants Rhelm.
2. That the consultants investigate the feasibility of extending the flood modelling further along the Macdonald River in Upper Macdonald in consultation with the Macdonald Valley Association.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 21 February 2024

3.1.3. FPSC – Floodplain Risk Management Project Updates & Project Program 2024 - (161821, 124414, 95498)

Previous Item: 3.1.2, Floodplain Management Sub-Committee (15 November 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee receive the update on the status of Council's Floodplain Risk Management Projects and note the program for these works in 2024.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Lawrence Rose and seconded by Mr Andrew North.

That the Floodplain Management Sub Committee receive the update on the status of Council's Floodplain Risk Management Projects and note the program for these works in 2024.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 21 February 2024

4. GENERAL BUSINESS

There was no general business discussed.

The next Floodplain Management Sub Committee meeting is proposed to be held on Wednesday, 20 March 2024 at 3:00pm.

The meeting terminated at 4:53pm.

Attachment 16 - Floodplain Management Sub Committee Draft Minutes - 20 March 2024



Floodplain Management Sub-Committee

Date of meeting: 20 March 2024
Location: Council Administration Building
Time: 3:00 PM

MINUTES

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 20 March 2024

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DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 20 March 2024

1. AGENDA

Welcome

Minutes of the Meeting of the Floodplain Sub-Committee held in the Large Committee Room, Windsor, on 20 March 2024, commencing at 3:00pm.

ATTENDANCE

Present: Councillor Les Sheather, Hawkesbury City Council – (Chairperson)
Councillor Amanda Kotlash, Hawkesbury City Council – (Deputy Chairperson) – (Audio-Visual Link)
Mr Andrew North, Community Representative
Mr Wayne Mitchell, Community Representative
Mr Lawrence Rose, Community Representative
Mr Murray West, Community Representative
Mr Troy Myers, Community Representative
Mr Harry Panagopoulos, Department of Climate Change, Energy, the Environment and Water – (Audio-Visual Link)
Ms Fiona Coe, Department of Climate Change, Energy, the Environment and Water
Dr Stephen Yeo, NSW Reconstruction Authority
Mr Kevin Jones, State Emergency Services (Audio-Visual Link)

Apologies: Mr Lewis Adey, Macdonald Valley Association

In Attendance: Ms Monique Retallick, WMA Water
Mr Mark Babister, WMA Water
Mr Andrew Kearns, Hawkesbury City Council
Ms Colleen Haron, Hawkesbury City Council
Mr Phillip Bow, Hawkesbury City Council

Member	15/11/2023	21/02/2024	20/03/2024
Mr Andrew North	A	✓	✓
Mr Christopher Bell	✓	✓	X
Mr Wayne Mitchell	✓	A	✓
Mr Lewis Adey	A	✓	X
Mr Harry Panagopoulos/Ms Fiona Coe	✓	✓	✓
Mr Kevin Jones	✓	X	✓
Mr Stephen Yeo	✓	✓	✓
Councillor Amanda Kotlash	X	✓	✓
Councillor Les Sheather	✓	✓	✓
Mr Lawrence Rose	✓	✓	✓
Mr Murray West	✓	A	✓
Mr Troy Myers	A	✓	✓

Key: A = Formal Apology ✓ = Present X = Absent - no apology

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 20 March 2024

Apologies

There were no Apologies made.

Mr Troy Myers arrived at the meeting at 3:15pm.

Declaration of Interests

There were no Declarations of Interests made.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 20 March 2024

2. CONFIRMATION OF MINUTES

The Committee resolved on the Motion of Mr Andrew North, seconded by Mr Wayne Mitchell, that the Minutes from the previous meeting held on Wednesday, 21 February 2024 be confirmed.

Business arising from the Floodplain Management Sub-Committee Meeting of 21 February 2024

The Sub-Committee noted (on the Motion of Mr Wayne Mitchell, seconded by Mr Lawrence Rose), the verbal update provided by officers, including advice that a formal update will be provided to the next Floodplain Management Sub-Committee meeting in respect of the extent of the Macdonald River Flood Study.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 20 March 2024

3. REPORTS FOR DETERMINATION

3.1.1. FPSC – Presentation – Department of Climate Change, Energy, the Environment and Water - (161821, 95498)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee receive the Department of Climate Change, Energy, the Environment and Water's presentation on the consideration of climate change in land use planning for flood risk management.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Murray West and seconded by Mr Lawrence Rose.

That the Floodplain Management Sub Committee:

1. Receive the Department of Climate Change, Energy, the Environment and Water's presentation on the consideration of climate change in land use planning for flood risk management.
2. Recommends that for land use planning purposes, the Review of the Hawkesbury Floodplain Risk Management Study and Plan consider the impacts of climate change up to 2030.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 20 March 2024

3.1.2. FPSC – Review of Hawkesbury Floodplain Risk Management Study and Plan – Assessment of Preferred Management Options and Identification of Flood Planning Level/s - (161821, 124414, 95498)

Previous Item: 3.1.1, Floodplain Management Sub-Committee (21 February 2024)
3.1.2, Floodplain Management Sub-Committee (18 October 2023)
3.1.4, Floodplain Management Sub-Committee (27 September 2023)
3.1.2, Floodplain Management Sub-Committee (23 August 2023)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee recommend that the following be supported for inclusion in the Review of the Hawkesbury Floodplain Risk Management Study and Plan:

1. An approach of considering different flood planning levels in relation to development types and circumstances such as whether development is existing or new, including:
 - a) A flood planning level for new residential development of 1 in 200 plus 0.5m freeboard
 - b) A flood planning level for new commercial and industrial development of 1 in 100 plus 0.5m freeboard
 - c) A flood planning level for additions, alterations or redevelopment of existing development of 1 in 100 at the minimum.
2. The inclusion of the following management options:
 - Currency Creek bypass
 - Wilberforce Levee
 - High level bridge to West Portland Road
 - Raising Springwood Road
 - Floodways, flood drainage and flood gates
 - Assessment of flood evacuation routes

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Lawrence Rose and seconded by Mr Troy Myers.

That the Floodplain Management Sub Committee:

1. Defer consideration of an approach to considering different flood planning levels in relation to development types and circumstances, such as whether development is existing or new, to the next Floodplain Management Sub-Committee.
2. Recommends that the following management options be supported for inclusion in the Review of the Hawkesbury Floodplain Risk Management Study and Plan:

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 20 March 2024

- Currency Creek bypass
- Wilberforce Levee
- High level bridge to West Portland Road
- Raising Springwood Road
- Floodways, flood drainage and flood gates
- Assessment of flood evacuation routes

Mr Phillip Bow left the Meeting at 4:15pm.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 20 March 2024

3.1.3. FPSC - Floodplain Risk Management Project Updates - (161821, 95498)

Previous Item: 3.1.3, Floodplain Management Sub-Committee (21 February 2024)

Directorate: City Planning

OFFICER'S RECOMMENDATION:

That the Floodplain Management Sub Committee receive the update on the status of Council's Floodplain Risk Management Projects.

COMMITTEE RECOMMENDATION:

RESOLVED on the motion of Mr Murray West and seconded by Mr Wayne Mitchell.

That the Floodplain Management Sub Committee receive the update on the status of Council's Floodplain Risk Management Projects.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

Minutes: 20 March 2024

4. GENERAL BUSINESS

1. Highlight to Council's Disaster and Emergency Committee that, following consideration, the Floodplain Management Sub-Committee recommended that Council not continue with investigations for the McGraths Hill levee but, instead, any funding that would have been available be redirected towards improvement to the evacuation routes for the area.
2. Requested that where any information relating to design flood events is provided, i.e 1:100, 1:200 etc, that the heights also be included.

The next Floodplain Management Sub-Committee meeting is proposed to be held on Wednesday, 17 April 2024 at 3:00pm.

The meeting terminated at 5:20pm.

DISASTER AND EMERGENCY COMMITTEE


3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

Attachment 18 - Letter for Macdonald and Colo River Residents

Your Ref:
Our Ref:

366 George Street
WINDSOR NSW 2756
(PO Box 146, WINDSOR 2756)
(02) 4560 4444
council@hawkesbury.nsw.gov.au
www.hawkesbury.nsw.gov.au



26 July 2023

Dear

Macdonald River, Colo River, Webbs Creek and Greens Creek – We Want To Hear Your Flood Stories

Council is inviting community members within the Macdonald River, Colo River, Webbs Creek and Greens Creek locality to provide details in relation to recent or historic flooding that you have experienced or are aware of.

Hawkesbury City Council is undertaking a flood study and floodplain risk management study and plan for the Macdonald River, Colo River, Webbs Creek and Greens Creek.

This project will investigate flood behaviour and will identify measures to manage flood risks for impacted communities.

Your local knowledge and personal experiences of flooding are an invaluable source of information and Council would welcome your input into this project. Your response will help us to understand flooding in the Macdonald River, Colo River, Webbs Creek and Greens Creek area, and help to develop strategies to reduce the impacts of flooding on people and property.

Information can be shared by individual submission or by completing the enclosed questionnaire and submitting via email, mail, or online through www.yourhawkesbury-yoursay.com.au. The attached brochure provides further details.

Please provide your response by 27 August 2023.

Council Officers will also be available at the following Hawkesbury Community Hubs to answer questions, assist with the survey, or receive information directly:

Wilberforce School of Arts	Wednesday 2 August 2023	9:30am – 2:30pm
Colo Heights Hall	Thursday 3 August 2023	10:00am – 2:30pm
St Albans School of Arts	Friday 4 August 2023	10:00am – 2:30pm

Should you have any questions, please contact me on (02) 4560 4564.

Yours faithfully

Colleen Haron
Floodplain Management Officer | Hawkesbury City Council
☎ (02) 4560 4564



Interpreter Service available, call 131 450 131 450 خدمة الترجمة اللغوية متاحة. اتصل على رقم 131 450 131 450 可提供傳譯服務。請致電 131 450 131 450 Hemm servizz tal-interpretu, ċempel 131 450

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

Attachment 19 - Flyer Macdonald and Colo Rivers Consultation

HAVE YOUR SAY



MACDONALD RIVER, COLO RIVER, WEBBS CREEK AND GREENS CREEK CATCHMENTS

Hawkesbury City Council is currently undertaking a Flood Study & Floodplain Risk Management Study and Plan for the Macdonald River, Colo River, Webbs Creek and Greens Creek Catchments.

-  Council completed the Lower MacDonald Flood Study in 2004
-  Many properties in these catchments can become cut off due to flooding
-  The catchments have experienced significant historic and recent flooding, including in 2020, 2021 and 2022
-  Council is asking the community to provide details of any flooding they have experienced or are aware of

We know some parts of the Local Government Area (LGA) are more prone to flooding than others and we are committed to finding solutions to reduce risk to life and the social and economic damages of flooding in these locations with assistance from the NSW Government through its Floodplain Risk Management Framework.

Council received a grant through the NSW Government's Floodplain Management Program to complete a Floodplain Risk Management Study and Plan for the Macdonald River, Colo River, Webbs Creek and Greens Creek (see attached map for locations). This work will review the 2004 Flood Study based on flooding experienced by the community since 2004 and will identify measures to manage flood risk for impacted communities.

Do you have any records or local knowledge of flooding?
Council would like to hear from you by email, phone or by filling in a brief online survey. The link is available from the Your Hawkesbury Your Say (yourhawkesbury-yoursay.com.au).

Your responses will help us understand the local flooding problems in more detail. Local knowledge and personal experiences of flooding are an invaluable source of data. There will be opportunities for additional community input at later stages of the project.



Copyright Destination NSW

PLEASE PROVIDE YOUR RESPONSES VIA EMAIL, MAIL, PHONE OR ONLINE THROUGH COUNCIL
yourhawkesbury-yoursay.com.au | Colleen Haron: (02) 4560 4564 | council@hawkesbury.nsw.gov.au
SUBMISSIONS CLOSE 27 AUGUST 2023

DISASTER AND EMERGENCY COMMITTEE

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Attachment 20 - Questionnaire for Macdonald and Colo Rivers



Macdonald, Colo, Webb's and Greens Creek Floodplain Risk Management Study and Plan

Community Questionnaire Form

Contact Details:

Name:

Address (including Lot / DP, if known)

Email Phone

In which catchment is your home or business?

Macdonald River Greens Creek
 Colo River Webbs Creek
 Other (please specify)

How many years have you lived, worked or visited in the catchment?

0-1 2-5 5-10 10-20 20-30 30+

How aware are you of flooding? (please select one)

Aware Somewhat aware Not aware

Do you have any information about recent or historical floods?

No
 Yes
 Photos Flood Marks or observations Videos Other
 Flood Events
 July 2022 March 2022 March 2021 February 2020
 2007 August 1990 March 1978 1949
 Other:

Can Council or our consultant contact you for further information relating to your responses to this survey?

Yes No

Preferred contact method:

Phone Email

Do you give Council permission to use your supplied photos and information relating to your responses to this survey?

Yes No

Were you cut off by floodwaters at home or another location in recent flooding?

No
 Yes March 2021 March 2022 July 2022
 <1 day 1 day 2-3 days
 3-5 days 5-7 days More than 1 week

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How do you anticipate you would respond in a major flood in this area?

- Evacuate early to an official evacuation centre
- Evacuate elsewhere – please describe
- Remain at my house (is your house elevated or do you have a second storey?)
- Other – please describe
- Don't know/unsure
- I need more information to understand my flood risk and actions

If you were to evacuate, what would be the reasons for you to evacuate? (Select all that apply)

- Discomfort / inconvenience / cost of being isolated by floodwater
- Need for uninterrupted access to medical facilities. Please specify
- Safety of our household
- Other – please describe

If you were to remain, what would be the reasons for you remaining? (Select all that apply)

- Discomfort/Inconvenience/cost of evacuating
- Need to care for animals
- I know my house cannot be flooded and we can cope with isolation
- Concern for security of my property if I evacuate
- Other - please describe:
- Not applicable (I intend to evacuate from my house)

What information do you look for during a flood event (Select all that apply)

- Road Closures
- Evacuation Notices
- Flood Characteristics (magnitude, duration, area impacted etc)
- Other - please describe

Where do you currently get updates and information (Select all that apply)

- Websites
- Radio
- Social Media
- Smartphone App
- Other – please describe

Do you have other concerns or suggestions related to flooding in the Macdonald, Colo, Webbs and Greens Creek Catchments?

Please feel free to attach additional pages.

Please provide your responses via email, mail, phone or online

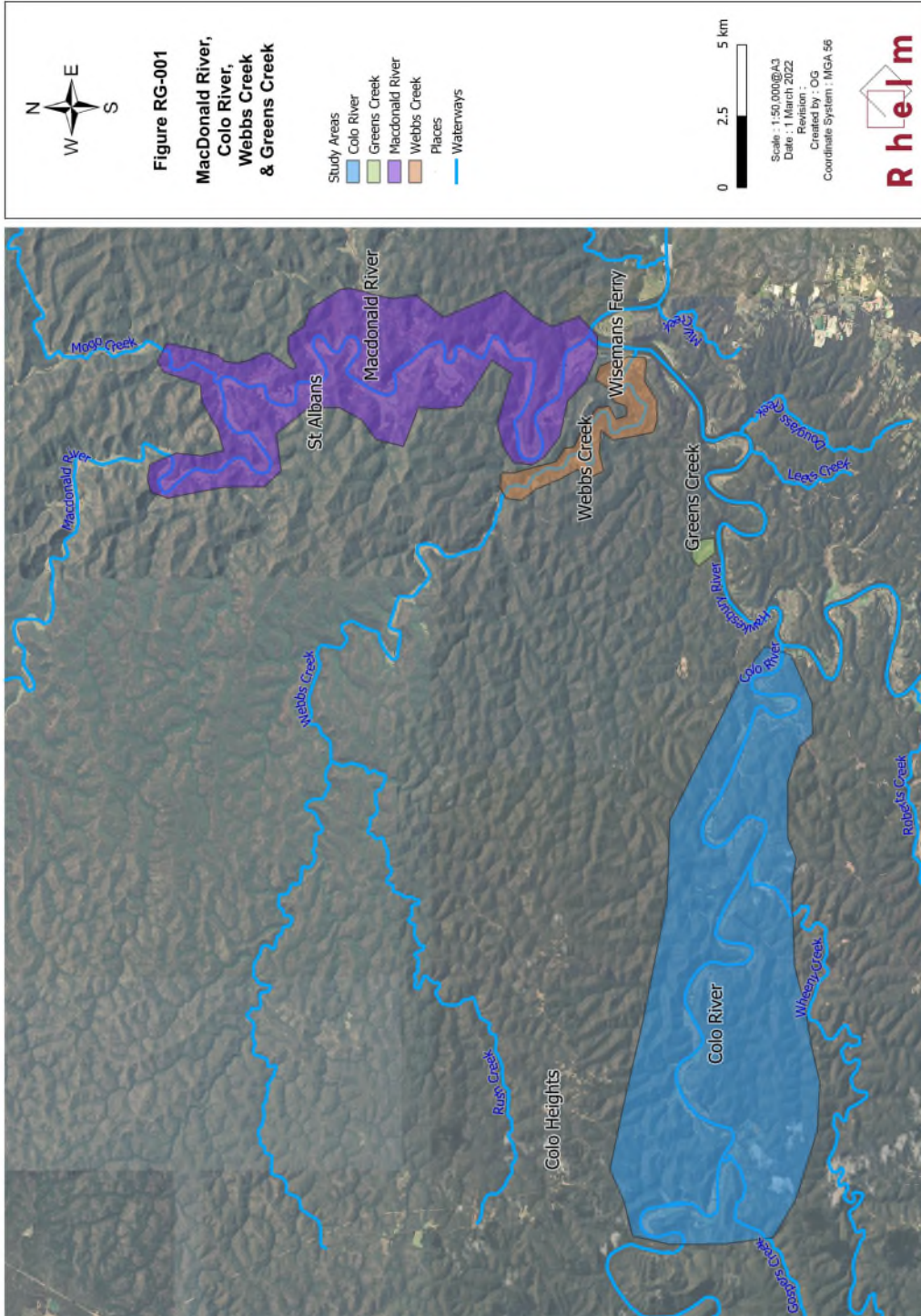
- Online: yourhawkesbury-yoursay.com.au
- For information phone Colleen Haron: 4560 4564
- Email: council@hawkesbury.nsw.gov.au
- Submission Close **27 August 2023**
- Mail: PO Box 146, WINDSOR NSW 2756

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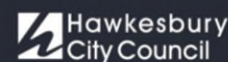
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Attachment 21 - Map of Macdonald River Colo River Webbs Creek and Greens Creek Study Areas



Attachment 22 - Floodplain Risk Management Frequently Asked Questions



Floodplain Risk Management Studies and Plans Frequently Asked Questions

Why does Council undertake Floodplain Risk Management Studies and Plans?

NSW Councils have responsibility for identifying and managing the impacts of flooding, and informing the community. Councils follow the NSW Flood Prone Land Policy, which outlines how Councils should manage flooding to reduce the risk to people and properties.

What is flood hazard?

Flood hazard is the potential for a flood to cause harm or conditions with the potential to result in loss of life, injury and economic loss.

What is flood risk?

Flood Risk is based on the consideration of the consequences of the full range of flood behaviour on communities and their social settings, and the natural and build environment.

What is Council doing to manage flood risk?

Councils prepare Flood Studies and Floodplain Risk Management Studies and Plans according to the NSW Flood Risk Management Manual (2023) and implement associated recommendations with the technical and financial assistance of the NSW Government, and key stakeholders.

Council works closely with the Hawkesbury-Nepean Valley Flood Risk Management Directorate (part of the NSW Reconstruction Authority) to reduce the impacts of floods in the region. This includes increasing community awareness about flood risk and how to prepare for a flood, as well as technical investigations into flood behaviour.

What is the difference between a Flood Study and a Flood Risk Management Study and Plan?

A Flood Study provides technical information on the likelihood and characteristics of flooding within a catchment. It provides detailed information about the nature of flood risk including the distribution, extent, depths, levels and velocity of floodwaters for a range of storm events, including a '1 in 100 year' flood.

A Floodplain Risk Management Study and Plan analyses flood behaviour and identifies and prioritises options to help protect people and property through better planning, emergency management and infrastructure works.

What area and types of flooding does this Flood Risk Management Study and Plan address?

The study area is shaped by the maximum extent of Hawkesbury River flooding within Hawkesbury Local Government Area. The focus is options to manage the risk of Hawkesbury River flooding that can be implemented at the Local Government Area level. Measures providing regional benefit may be considered by relevant State agencies.

What is the Flood Risk Management Process?

Figure 1 below shows the flood risk management process. Studies under the process support the understanding of flooding, the evaluation of strategies that achieve effective flood risk management outcomes and informed decisions on how to manage flood risk into the future.

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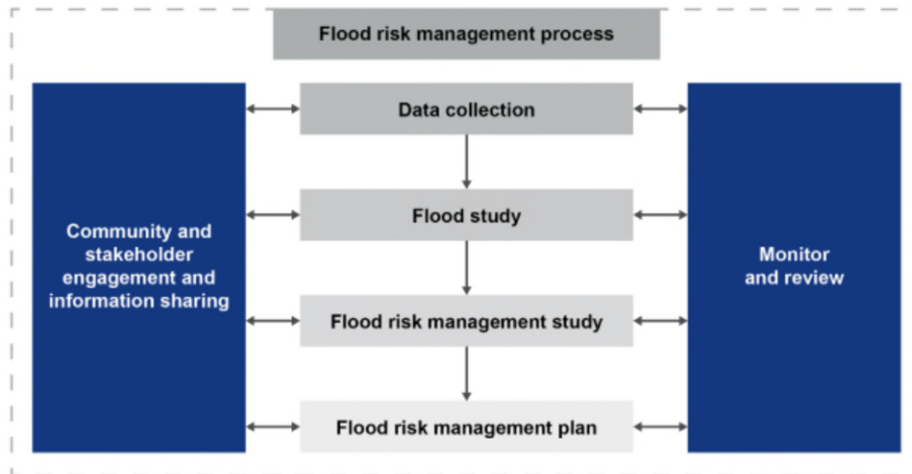


Figure 1: Flood Risk Management Process

How are flood affected properties identified?

Flood studies determine the extent of flooding throughout the catchment and the identification of properties partially or fully impacted by flooding. For Hawkesbury-Nepean River flooding, Council has drawn upon flood studies prepared by state agencies.

What is flood prone/liable land?

The Flood Risk Management Manual (2023) defines land as flood liable if it's affected by the probable maximum flood (PMF), which is the largest flood that could conceivably occur at a particular location.

What is a "1 in 100 year" flood?

A '1 in 100 year' flood is a flood event that has the probability of occurring on average once every 100 years, i.e. there is a 1% chance of a flood of this size occurring or being exceeded at a particular location in any given year.

This does not mean that if a location floods one year that it will not flood for the next 99 years. Nor, if it has not flooded for 99 years that it will necessarily flood the next year. Some parts of Australia have experienced more than one '1 in 100 year' floods within a decade of each other.

Within the Floodplain Risk Management Study and Plan the '1 in 100 year' flood is referred to as the 1% AEP (annual exceedance probability) flood event.

Where can I get information about flood levels on my property?

The NSW State Emergency Services (NSW SES) provide an online map showing flood extent/depth and flood risk at suburb level for flooding in the Hawkesbury-Nepean Valley, this can be accessed at <https://www.ses.nsw.gov.au/hawkesbury-nepean-floods>

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Council provides flood advice certificates detailing:

- Basic - flood risk associated with a property providing information relating to the adopted 1% AEP (average exceedance probability) flood level and estimated land levels.
- Detailed - different flood event levels, likely velocity, hazard categories and hydraulic classification.

www.hawkesbury.nsw.gov.au/data/assets/pdf_file/0010/168796/Application-for-Flood-Advice-Certificate-2023-2024.pdf

What should I do in the event of a flood?

If the situation is life threatening you should call 000.

For other assistance during an emergency such as flood, storm or tsunami, please contact the NSW State Emergency Service (SES) on 132 500 or visit their website at www.ses.nsw.gov.au, or Visit [Hawkesbury Council Dashboard \(nsw.gov.au\)](http://Hawkesbury Council Dashboard (nsw.gov.au)).

It is best to prepare you and your household ahead of floods. There are a range of resources to support you to be ready and to get prepared for floods in the Hawkesbury-Nepean Valley <https://www.ses.nsw.gov.au/flood-awareness-nsw/sydney-rivers/hawkesbury-nepean-valley/>

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Attachment 23 - Hawkesbury Floodplain Risk Management Study Review Survey

Review of Hawkesbury Floodplain Risk Management Study and Plan

Please note that the results of this survey will be made available to other NSW Government Agencies for the purposes of regional flood management.

Not all of the options identified below can be undertaken by Council. The outcomes of this engagement will also inform regional management of the floodplain by the NSW Reconstruction Authority.

The focus of the Hawkesbury Floodplain Risk Management Study and Plan is to identify options to manage the risks associated with the flooding of the Hawkesbury River that can be implemented at the Local Government Area level. Measures that are identified that will provide a regional benefit will be considered by relevant State agencies.

Examples of measures, and a short explanation of each measure, are provided below.

1. Engineering Measures

Specify one or two engineering measures for dealing with flood risk that you think deserve most consideration? Why?

In addition to your response above, do you support any of the following measures? Please rate the following options from 1 to 9 (1 being the least preferable, 9 being the most preferable).

- Retarding or detention basins - to temporarily hold water and reduce peak flood flows
- Levee banks or flood walls (in general)
- A levee at McGraths Hill to protect up to the 1 in 50 chance per year flood – earth embankment about 2.3km long and up to around 7m high
- A levee at Pitt Town to protect up to the 1 in 50 chance per year flood – earth embankment about 1.7km long and up to around 5m high
- Improved flood flow paths – to enable floodwater to get away more easily
- Culvert/bridge enlarging – to enable floodwater to get away more easily
- Bypass floodways – redirect a portion of the floodwaters away from threatened areas
- Channel modifications – improve the hydraulic capacity of a river channel to discharge floodwaters
- Flood gates – used to control or prevent flow along a small creek, drain or another waterway

2. Land Use Planning and Other Measures to Manage Existing and Future Exposure to Floods

Specify one or two land use planning measures for dealing with flood risk that you think deserve most consideration? Why?

In addition to your response above, do you support any of the following measures? Please rate the following options from 1 to 4 (1 being the least preferable, 4 being the most preferable).

- Strategic land use planning and flood related development controls (including site access, impacts of fill or excavation in the floodplain, freeboard, floor levels, services, structural soundness, building materials)

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- Resilient Homes Program – in areas with high risk to life where no other options are available
- Voluntary house raising – for suitable buildings, raising the habitable floor level, typically to the flood planning level
- Flood proofing – can be used to reduce damages from minor and more frequent flooding

3. Flood Warning and Evacuation Measures

Specify one or two flood warning and evacuation measures for dealing with flood risk that you think deserve most consideration? Why?

In addition to your response above, do you support any of the following measures? Please rate the following options from 1 to 3 (1 being the least preferable, 3 being the most preferable)

- Improved warnings and notifications
- Evacuation centre identification
- Providing additional evacuation capacity

4. Education and Engagement Measures

Specify one or two education and engagement measures for dealing with flood risk that you think deserve most consideration? Why?

In addition to your response above, do you support any of the following measures? Please rate the following options from 1 to 3 (1 being the least preferable, 3 being the most preferable).

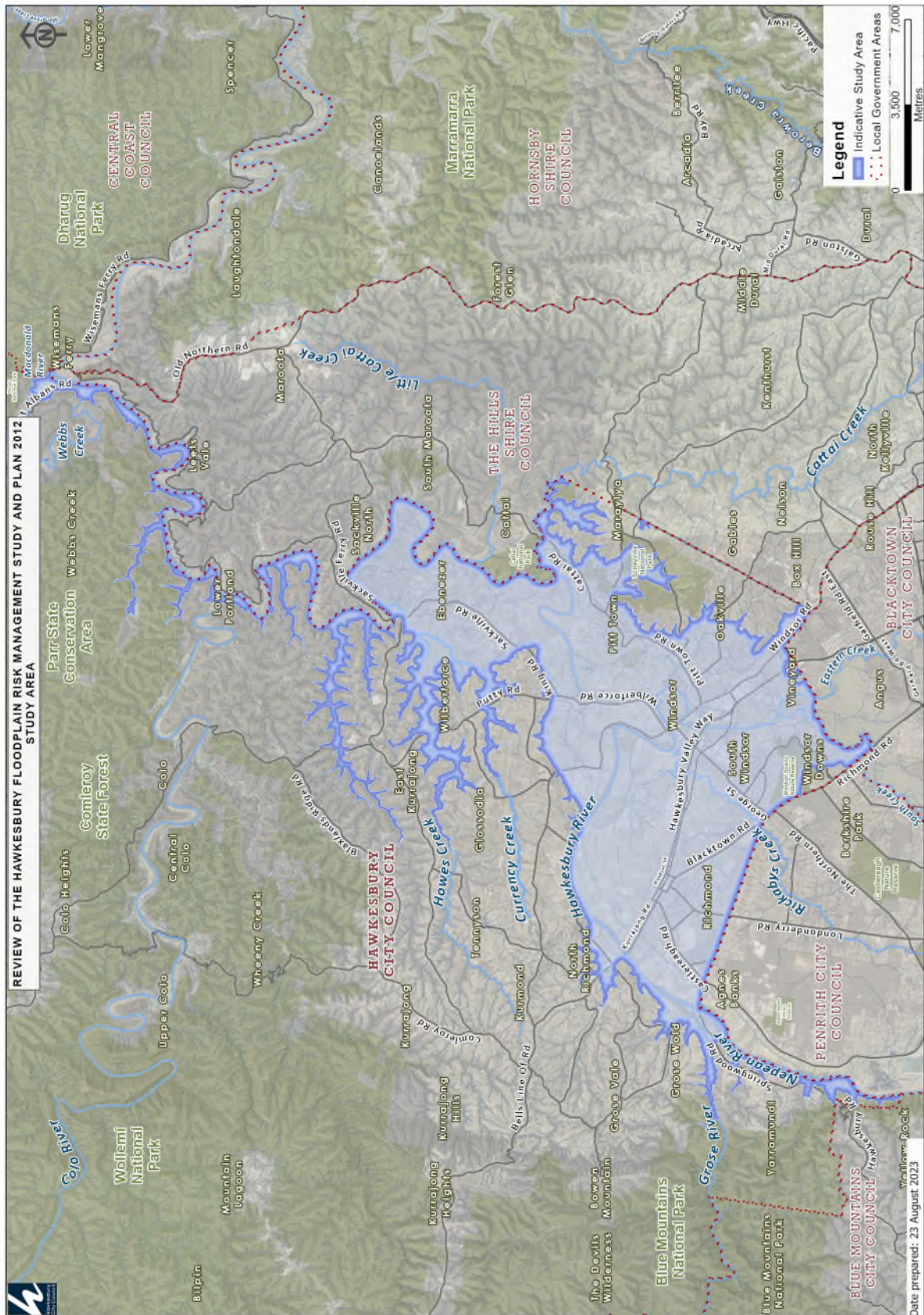
- Education of the community - resources providing greater awareness of potential hazards and suburb specific flood risk information
- Engagement with the community - increased flood preparedness programs focused on public safety and getting ready for floods
- Installation of flood markers at key locations for community awareness of flood risk

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Attachment 24 - Hawkesbury Floodplain Risk Management Study Area



Attachment 25 - Hawkesbury Floodplain Risk Management Frequently Asked Questions



Floodplain Risk Management Studies and Plans Frequently Asked Questions

Why does Council undertake Floodplain Risk Management Studies and Plans?

NSW Councils have responsibility for identifying and managing the impacts of flooding, and informing the community. Councils follow the NSW Flood Prone Land Policy, which outlines how Councils should manage flooding to reduce the risk to people and properties.

What is flood hazard?

Flood hazard is the potential for a flood to cause harm or conditions with the potential to result in loss of life, injury and economic loss.

What is flood risk?

Flood Risk is based on the consideration of the consequences of the full range of flood behaviour on communities and their social settings, and the natural and build environment.

What is Council doing to manage flood risk?

Councils prepare Flood Studies and Floodplain Risk Management Studies and Plans according to the NSW Flood Risk Management Manual (2023) and implement associated recommendations with the technical and financial assistance of the NSW Government, and key stakeholders.

Council works closely with the Hawkesbury-Nepean Valley Flood Risk Management Directorate (part of the NSW Reconstruction Authority) to reduce the impacts of floods in the region. This includes increasing community awareness about flood risk and how to prepare for a flood, as well as technical investigations into flood behaviour.

What is the difference between a Flood Study and a Flood Risk Management Study and Plan?

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What area and types of flooding does this Flood Risk Management Study and Plan address?

The study area is shaped by the maximum extent of Hawkesbury River flooding within Hawkesbury Local Government Area. The focus is options to manage the risk of Hawkesbury River flooding that can be implemented at the Local Government Area level. Measures providing regional benefit may be considered by relevant State agencies.

What is the Flood Risk Management Process?

Figure 1 below shows the flood risk management process. Studies under the process support the understanding of flooding, the evaluation of strategies that achieve effective flood risk management outcomes and informed decisions on how to manage flood risk into the future.

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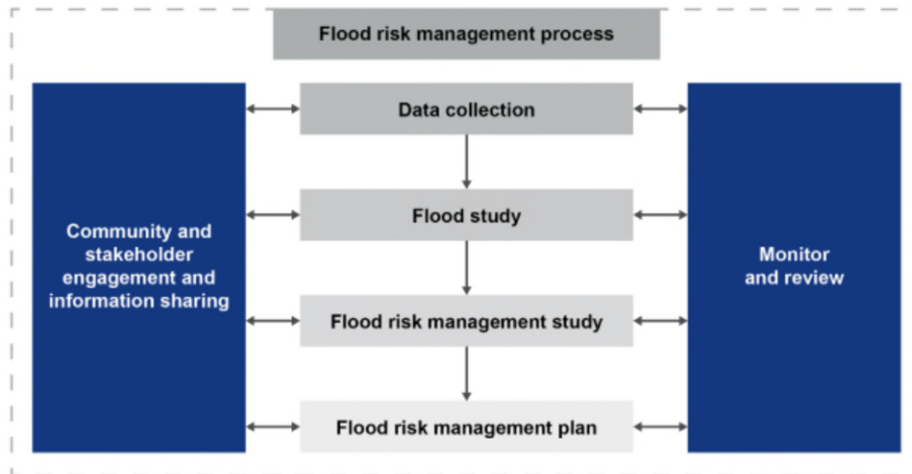


Figure 1: Flood Risk Management Process

How are flood affected properties identified?

Flood studies determine the extent of flooding throughout the catchment and the identification of properties partially or fully impacted by flooding. For Hawkesbury-Nepean River flooding, Council has drawn upon flood studies prepared by state agencies.

What is flood prone/liable land?

The Flood Risk Management Manual (2023) defines land as flood liable if it's affected by the probable maximum flood (PMF), which is the largest flood that could conceivably occur at a particular location.

What is a "1 in 100 year" flood?

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Within the Floodplain Risk Management Study and Plan the '1 in 100 year' flood is referred to as the 1% AEP (annual exceedance probability) flood event.

Where can I get information about flood levels on my property?

The NSW State Emergency Services (NSW SES) provide an online map showing flood extent/depth and flood risk at suburb level for flooding in the Hawkesbury-Nepean Valley, this can be accessed at <https://www.ses.nsw.gov.au/hawkesbury-nepean-floods>

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Council provides flood advice certificates detailing:

- Basic - flood risk associated with a property providing information relating to the adopted 1% AEP (average exceedance probability) flood level and estimated land levels.
- Detailed - different flood event levels, likely velocity, hazard categories and hydraulic classification.

www.hawkesbury.nsw.gov.au/data/assets/pdf_file/0010/168796/Application-for-Flood-Advice-Certificate-2023-2024.pdf

What should I do in the event of a flood?

If the situation is life threatening you should call 000.

For other assistance during an emergency such as flood, storm or tsunami, please contact the NSW State Emergency Service (SES) on 132 500 or visit their website at www.ses.nsw.gov.au, or Visit [Hawkesbury Council Dashboard \(nsw.gov.au\)](http://Hawkesbury Council Dashboard (nsw.gov.au)).

It is best to prepare you and your household ahead of floods. There are a range of resources to support you to be ready and to get prepared for floods in the Hawkesbury-Nepean Valley <https://www.ses.nsw.gov.au/flood-awareness-nsw/sydney-rivers/hawkesbury-nepean-valley/>

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Attachment 26 - Redbank Creek Community Consultation Letter

366 George Street
WINDSOR NSW 2756
(PO Box 146, WINDSOR 2756)
(02) 4560 4444
council@hawkesbury.nsw.gov.au
www.hawkesbury.nsw.gov.au



12 October 2023

Dear Sir/Madam

Redbank Creek Flood Study – Community Questionnaire

Hawkesbury City Council is undertaking a flood study of Redbank Creek in order to:

- Better understand local flooding problems along Redbank Creek
- Build community resilience by informing better planning of development, emergency management and community awareness
- Develop information to assist in future floodplain management activities to reduce flood impacts on the community, including risk to life and property damage.

Council is inviting community members to provide details in relation to recent or historic flooding of Redbank Creek or local overland flows in the Redbank Creek catchment. Information can include details relating to inundation, restricted access to/from the property, property isolated by floodwaters, risk to personal safety, and damage to property.

Your local knowledge and personal experiences of flooding are an invaluable source of information and Council would welcome your input into this project.

Your response will help us to understand flooding in the Redbank Creek area, and help to develop strategies to reduce the impacts of flooding on people and property in the future.

Information can be shared by completing the online questionnaire at www.yourhawkesbury-yoursay.com.au. All survey information is confidential and will be used only for floodplain risk management purposes.

Please provide your response by 13 November 2023.

Council Officers will also be available at North Richmond Shopping Village (laneway between carpark and Aldi) to answer questions, assist with the survey, or receive information directly:

Thursday 26 October 2023 – 10am to 2pm.

Should you have any questions, please contact me on (02) 4560 4564.

Yours faithfully

Colleen Haron
Floodplain Management Officer | Hawkesbury City Council
☎ (02) 4560 4564



Interpreter Service available, call 131 450 131 450 خدمة الترجمة الشفوية متاح. اتصل على رقم 131 450 131 450 可提供傳譯服務，請致電 131 450 131 450 Hemm servizz tal-interpretu, çempel 131 450

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Attachment 27 - Redbank Creek Study Questionnaire



Redbank Creek Flood Study Questionnaire

Address of property in the study area (This information will only be used to complete the Flood Study)

What is the type of property?

- Residential
- Vacant land
- Commercial
- Other (please specify)

What is the status of the property?

- Owner occupied / Owner operated business
- Leased to rental tenants
- Other – please specify

How long have you lived or operated a business at this address?

- 0-5 years
- 6-10 years
- 10-20 years
- More than 20 years

As far as you are aware, has the property (which includes land, back and front yards, etc) ever been adversely affected by flooding? Flooding impacts could include inundation, restricted access to/from the property, property isolated by floodwaters, risk to personal safety, damage to property, etc?

- Yes
- No

Please provide dates for up to 4 flood events that have affected the property.

Event 1 Event 3

Event 2 Event 4

What part(s) of the property were affected by flooding? (select more than one if appropriate)

	Yard	Garage/Shed	Building
Event 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Please provide any additional details here.

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What was the depth of flooding? (cm)

Event 1 Event 3
Event 2 Event 4

Please provide any additional details here.

What was the duration of flooding? (hours/days)

Event 1 Event 3
Event 2 Event 4

Please provide any additional details here.

What was the velocity of the flood waters at the peak/worst?

	Stationary	Walking Pace	Running Pace
Event 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

What was the source of the floodwaters? (select more than one if appropriate)

	Redbank Creek (flood waters rising in creeks)	Hawkesbury River inundation	Water flowing down the roads	Ponding of water within property	Ponding of water on roads	Overflow from neighbouring properties	Drainage channel (floodwaters rising in drainage channels)
Event 1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event 2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Event 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Are there any flood marks on or near your property?

Yes
 No

If Yes, do we have your permission for surveyors to access your property? (Please ensure you have completed the contact details at the bottom of this survey so we can contact you)

If you wish to stay informed about this study, please provide your preferred contact method below.

Name
Address
Phone
Email

Privacy Notice

Council is bound by the provisions of the Privacy and Personal Information Protection Act 1998, in the collection, storage and utilisation of personal information provided in this form. Accordingly, the personal information will only be utilised for the purposes for which it has been obtained and may be available for public access and/or disclosure under various NSW Government legislation.

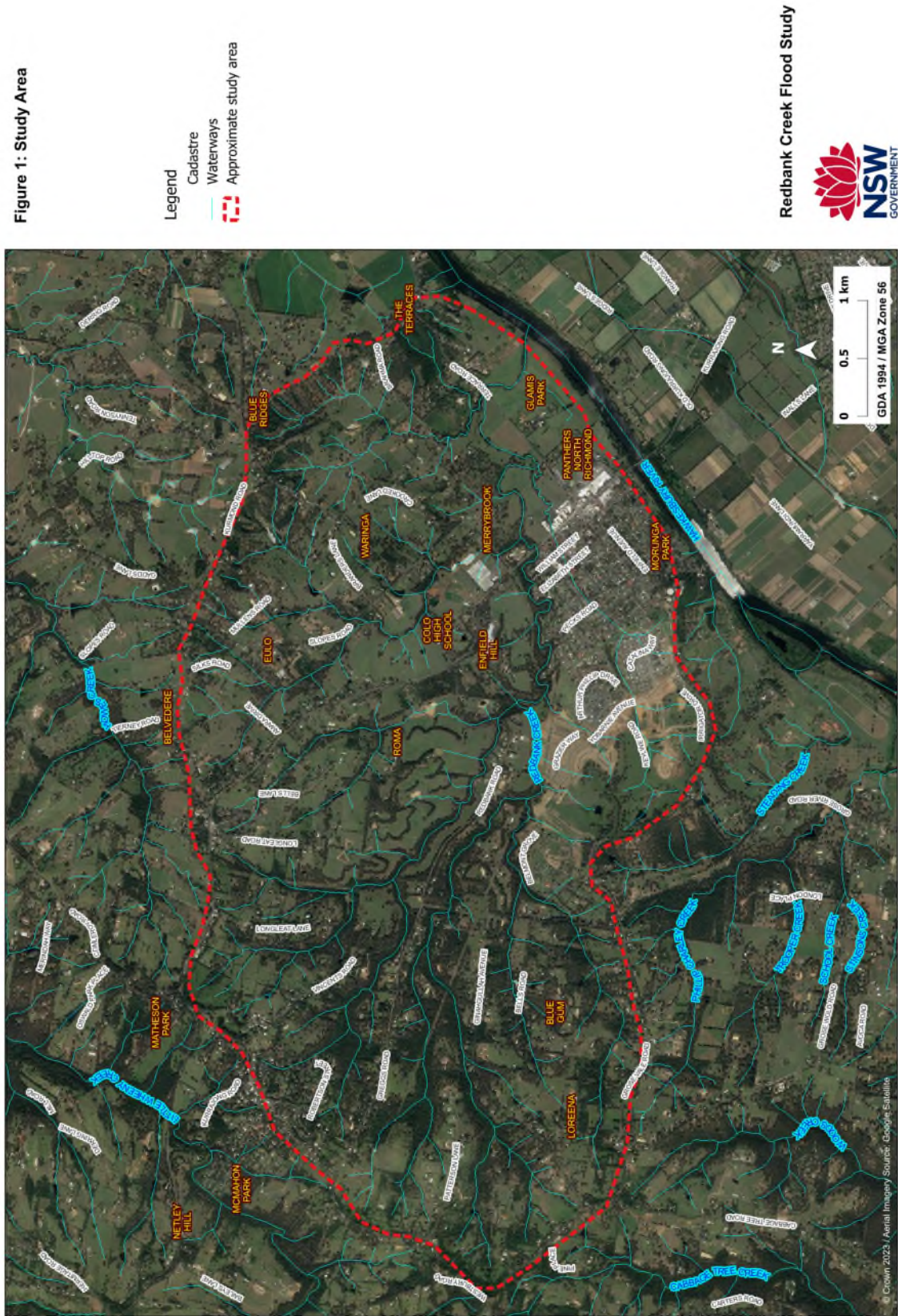
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Attachment 28 - Redbank Creek Study Area Map

Figure 1: Study Area



Attachment 29 - Redbank Creek Flood Study Information Sheet



Redbank Creek Flood Study - Community Questionnaire

Why does Council undertake flood studies and floodplain risk management studies and plans?

NSW Councils have responsibility for identifying and managing the impacts of flooding, and informing the community. Councils follow the NSW Flood Prone Land Policy, which outlines how Councils should manage flooding to reduce the risk to people and properties.

What is the difference between a Flood Study and a Flood Risk Management Study and Plan?

A Flood Study provides technical information on the likelihood and characteristics of flooding within a catchment. It provides detailed information about the nature of flood risk including the distribution, extent, depths, levels and velocity of floodwaters for a range of storm events, including a '1 in 100 year' flood.

A Floodplain Risk Management Study and Plan analyses flood behaviour and identifies and prioritises options to help protect people and property through better planning, emergency management and infrastructure works.

Redbank Creek Flood Study

Hawkesbury City Council has received a floodplain management grant from the NSW Department of Planning and Environment to assist in undertaking the Redbank Creek Flood Study and has engaged a consultant, Manly Hydraulics Laboratory to undertake the study.

The study is to cover an area of approximately 27 km², including the suburbs of North Richmond, Grose Vale, Kurrajong, and Kurmond.

The Flood Study represents an important step in the floodplain risk management process, whereby Council will gain a comprehensive technical understanding of the nature of flooding around Redbank Creek using advanced computer modelling software. Following this study, Council will seek funding to undertake a Floodplain Risk Management Study and Plan, which uses the results of the Flood Study as the foundations for developing and reviewing floodplain management initiatives that are designed to help mitigate the effects of flooding.

What is the aim of the Redbank Creek Flood Study?

The aim of the study is to:

- Help better understand local flooding problems along Redbank Creek
- Build community resilience by informing better planning of development, emergency management and community awareness
- Develop information to assist in future floodplain management activities to reduce flood impacts on the community, including risk to life and property damage.

How can I contribute?

Community involvement is essential to the success of the floodplain risk management process. It enables the community to:

- Contribute local knowledge of flood behaviour
- Directly influence the calibration of flood models.

Please take a few minutes to complete the questionnaire by **13 November 2023** at www.yourhawkesbury-yoursay.com.au.

All survey information is confidential and will be used only for floodplain risk management purposes. The feedback from the community questionnaire will assist to better inform flood behaviour and risk in

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the catchment. Understanding how and where past flood events have impacted the community would help identify flooding "trouble spots" and ensure that the hydraulic model developed as part of the study can accurately represent the flooding experienced by residents within the catchment.

What are the flood risks?

Flooding in the catchment comes from three main sources:

- High water levels in the Hawkesbury River
- High water levels in the Redbank Creek
- Excess stormwater flowing overland

This study will focus on the overland and Redbank Creek flooding and will consider the influence of levels in the Hawkesbury River and climate change on such flooding.

What does the study involve?

The study will define flood behaviour across the catchments including flood levels, depths, velocities, and their distribution. Flood maps showing predicted extents of flood inundation will be produced. Study results and mapping will be based on flood simulations by detailed computer models developed specifically for the study area. Historical information such as rainfall and peak flood levels can be used to calibrate/adjust the computer flood models, ensuring that they are representative of real local flood behaviour. The results of the study will form the basis of future floodplain management activities.

Where can I find out more?

To stay informed and contribute to future developments of this study, please provide your details on the questionnaire provided.

Should you wish to obtain further information on the study, please contact Colleen Haron, Floodplain Management Officer on 4560 4444 or by email to council@hawkesbury.nsw.gov.au.



oooO END OF REPORT Oooo

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

3.1.2. DE - Status Summary on Flood Recovery - (151940, 95495)

Directorate: Infrastructure Services

PURPOSE OF THE REPORT

The purpose of this report is to provide the Disaster and Emergency Committee an update on the flood recovery work.

EXECUTIVE SUMMARY

It has been two years since the first of four major floods impacted upon the Hawkesbury LGA and it is timely to provide an update on progress with the infrastructure recovery task and the financial implications for Council, and to document items which have had a deleterious or constraining impact on Council's ability to undertake recovery works in a timely manner for our community.

2022 saw four individual flood events experienced by the Hawkesbury-Nepean system, with all major rivers – Hawkesbury, Grose, Colo and Macdonald – experiencing flooding to some degree:

March 2022 – flood peaks at Windsor Gauge on 4 March (11.99m) and 9 March (13.80m)

April 2022 – flood peak at Windsor Gauge on 9 April (9.07m)

July 2022 – flood peak at Windsor Gauge on 5 July (13.93m)

October 2022 – flood peak at Windsor Gauge on 10 October (7.38m)

Between direct flood impacts – such as scouring, washing away of structures, embankments and pavement materials, and failure of inundated pavements – and direct storm impacts – such as landslides and slope instability it is estimated that Council's road and storm water infrastructure suffered \$180 million in damages.

As each event was declared a natural disaster, Council was able to apply for funding under the Disaster Recovery Funding Arrangements (DRFA) for the restoration of what are defined as "Essential Public Assets":

An asset which must be a transport of or public infrastructure asset... which is an integral part of a state's infrastructure and normal functioning of a community.

At this point, Council is well progressed with its infrastructure flood recovery. With respect to Council's road network (funded by DRFA), a total of \$135 million has been approved by the NSW Government and of that, \$125 million has either been completed or is in progress (either investigation/design, procurement or in construction). Outside of DRFA, funding programs have been quick to be rolled out by Government, however it has been Council's experience that there is often a 12-month delay between submission of applications and receipt of funding deeds. This has delayed commencement of these projects.

RECOMMENDATION

That the Status Summary on Flood Recovery Report be received and noted.

DISASTER AND EMERGENCY COMMITTEE

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BACKGROUND

In 2022 the Hawkesbury-Nepean system experienced four floods, with the largest two being in March and July. These were off the back of floods experienced in 2020 and 2021 and, combined, are referred to as the 2020-22 Flood Cluster, in which six floods occurred across this two year period.

The July 2022 flood was the highest flood at Windsor since March 1978 (14.46m) and both the March and July floods had recurrence intervals of approximately 1 in 20-year chance.

The impact of flooding and generally saturated conditions resulted in extensive damage to Council's road infrastructure in particular. Initial estimates put the likely damage at approximately \$240 million, however this figure was revised in November 2023 to approximately \$180 million.

The vast majority of these costs will be funded through the Disaster Recovery Funding Arrangements (DRFA), however there will be an as yet unquantified cost to Council through ineligible costs or lack of supporting information. Other funding programs, including the Community Local Infrastructure Recovery Program (renamed to Community Asset Program) have been introduced in an attempt to fill the gaps left by the DRFA. These have generally been quick to be rolled out but delayed in the approval of projects.

DISCUSSION

In the two years since the March 2022 flood, Council has undertaken to deliver a significant program of recovery works, including emergency works during and immediately after each flood event, immediate reconstruction of essential public assets, support and direct coordination of disaster-debris collections and the restoration of essential public assets.

Disaster Recovery Funding Arrangements

For the benefit of the Committee, the DRFA makes provision for different activities undertaken by councils and associated with infrastructure recovery, each with its own funding process:

Emergency Works and Immediate Reconstruction Works – are works, including road closures, clearing of debris and activities associated with restoration of access and function of essential public assets.

These works must be undertaken within three months from the date the essential public asset becomes accessible. The claiming of incurred expenditure must be prepared, itemising each activity undertaken, and including supporting evidence (timesheets, invoices, photographs, etc), and submitted within 24 months from the end of the financial year in which the relevant disaster occurred.

Disaster-debris Collections – are those activities to remove waste and debris from residential properties to make these properties safe and restore them to a habitable condition. They are not intended to cover non-essential debris removal activities occurring beyond the immediate vicinity of a residential property.

Restoration of Essential Public Assets (EPAR) – are those activities to make repairs to and restore essential public assets to their pre-disaster condition. Betterment can be considered in the restoration of essential public assets, however a separate process generally involving a business case is required to support any such claim for betterment. With respect to timing, reconstruction cost estimates of EPAR works must be established within 12 months from the end of the financial year in which the relevant disaster occurred, and works must be completed within 24 months from the end of the financial year in which the relevant disaster occurred. Extensions of time can be applied for either timeframe.

For example, EPAR works associated with the March 2022 flood event must have had the estimated reconstruction costs established by June 2023 and the works complete by June 2024.

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

With the extensive application of DRFA in the months and years following the 2020-2022 Flood Cluster, a number of significant issues have arisen. These have, at their root, either the Arrangements themselves, the application of the Arrangements or ambiguity and/or uncertainty within the Arrangements.

Allowable Time Limits (ATL)

As outlined above, the DRFA prescribes allowable time limits for certain activities and tasks to be completed – three months for EW/IW works, 12 months for EPAR cost estimations to be established and 24 months for completion of EPAR works.

Council has encountered two issues with ATL's:

- Suitability for large-scale, widespread and repeat events
- Administrative decisions impacting on ATLs

Where a community is impacted to a significant extent, as the Hawkesbury was in both the March and July 2022 events, or the event (or subsequent events within a short time frame) have impacted a broad area, or events take place repeatedly over a short period of time, there is a serious question that must be asked as to how reasonable and how practicable it is for a council to identify, document, scope, design, estimate and gather documentary evidence of pre-disaster condition for all the EPAR works, and what outcomes are actually being driven by these timeframes.

It is the case that there are opportunities to request an extension of time, however it has been Council's experience that while no request has so far been declined, the timeliness of granting extensions leads to significant uncertainty and rushed staff effort.

For example, one ATL, for the submission of EPAR cost estimates, was due on 31 December 2023, however Council was only advised of an extension to that ATL on 20 December 2023 and up until that time had had no choice but to assume, in the absence of any other advice, that the 31 December deadline would prevail. As a result of this, a number of projects were otherwise delayed as project managers were reassigned to finalise Council's claims.

The timeliness and proactivity of the granting of ATL extensions is a matter that the Australian and NSW Governments should prioritise, with a view to providing certainty early so that resources and EPAR works can be efficiently planned for and executed.

The second matter is the impact of seemingly innocuous administrative decisions on ATLs and how a pursuit of efficiency can have unintended consequences.

The July 2022 flood began to impact on the Hawkesbury in the first days of July 2022, with the peak arriving at Windsor during the 5 July 2022 and access to many areas not restored until mid-July; all within the 2022-23 financial year.

As a standalone event, and subscribing to the ATLs as described above, this would ordinarily mean that Council had until June 2024 to establish its EPAR cost estimates and until June 2025 to complete EPAR works.

In reality however, the declaration of Hawkesbury's July 2022 Natural Disaster was appended to an earlier declaration for other areas of the State. The effect of this was to, in practical terms, pre-date the disaster to the 2021-22 financial year, in the simplest of terms, stripping 12 months of time from Council within which it had to undertake the significant body of work associated with the EPAR process. And as it has transpired, Council has had to apply for and work with the uncertainty of ATL extensions, which as at the date of this report, have not yet been determined.

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It is the view of Officers that this situation was entirely avoidable and goes against the intent of the DRFA (which is found to already be lacking as outlined above).

Eligible Costs

As outline in the Financial Impact section of this report, despite the provision of post-disaster recovery funding, there will be a considerable financial impact to Council arising from the successive natural disasters since 2019.

In some instances, these costs have been eligible for funding, but Council has not been able to satisfactorily demonstrate these costs were incurred as a result of a particular disaster, or they are legitimate costs incurred but not eligible for funding under the DRFA (and on occasion this has not been made clear to Council until well after the costs have been incurred).

Of particular note has been the issue of EW/IW costs which have been incurred by Council because of a lack of documentary evidence that the costs were legitimately incurred as a direct result of a particular natural disaster. In many instances, this has boiled down to the fact that, whilst responding to the disaster and maintaining their own and the public's safety, staff have either overlooked photographing the tasks/works being undertaken (generally the closing or clearing of roads) or the photos that have been taken have been found lacking in some way. And while there is an opportunity in some categories of disaster expenditure for staff to make an attestation that the costs were legitimately incurred, this is not available to costs incurred from EW/IW.

Beyond this, there is also the issue of costs incurred directly as a result of the disaster and/or administering the program of works in response to a disaster, but which are deemed ineligible by the DRFA.

Learning from past experiences, Council established a standalone Infrastructure Recovery Team, dedicated to the task of coordinating, leading and delivering EW/IW and EPAR activities, as well as the auxiliary tasks associated with communicating and engaging with our community, tracking and reporting of expenditure and the collation, preparation and lodgement of claims under DRFA. Further, as a Council that is 'opt-out' and thus unable to claim ordinary time wages, deliberate decisions were made to second and temporarily appoint staff, including a Communications Officer and Finance Officer, and engage consultants to undertake these roles.

It has only been in recent months that councils have been advised by the NSW Reconstruction Authority that these costs, despite being legitimate costs incurred in response to natural disasters or to resource the administratively intense process of collating, preparing and submitting claims, are not eligible under the DRFA as they are not directly attributable to individual projects.

Betterment

Betterment has been acknowledged by all levels of Government as being a critical inclusion in future disaster responses. And while Council has been the beneficiary of funding under the banner of betterment, through DRFA – Greens Road, Upper Colo Bridge, Valley Way – there is significant opportunity to improve the process to reduce the costs and time associated with accessing it.

Additionally, separate funding programs have been established for betterment, but with out-of-sync program timelines and the competitive nature of these grants, they have left Council in the unenviable position of either choosing to hold off on reconstruction projects for funding that may or may not eventuate, or proceed with a like for like replacement knowing that it will likely fail in the next flood.

Similarly, where Council has taken steps to incorporate betterment through EPAR works, we have seen, on occasion, considerable (claimable) costs incurred for items such as traffic control, which begs the question of whether the current regime is delivering value-for-money outcomes.

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Council Officers have previously recommended to the Australian Government, via the Independent Review of Commonwealth Disaster Funding, that a new framework be introduced whereby certainty is provided to States and councils that, if an EPAR project incorporating betterment is within a pre-committed range of the like-for-like reconstruction, then it can proceed without Council undertaking a longer and more costly process of developing a business case.

For example, where Council is undertaking EPAR works on a road that lies within the 5%AEP floodplain (that is there is a 5% chance of it being flooded in any one year and statistically probable that it will be impacted by floods at least once during the repaired asset's lifetime), it should not take the development of a business case – during which the community continues to be impacted by the poor condition of the network and the community incurs the costs of maintaining while this process is undertaken – to incorporate betterment if the cost of the more resilient asset is within a prescribed range, say 20%, of the like-for-like reconstruction cost.

Council raised these matters, and others, in a submission to the Independent Review of Commonwealth Disaster Funding by Mr Andrew Colvin AO APM. This review was announced on 1 February 2023, with public submissions due in August 2023 and a final report expected to be provided to the Australian Government in April 2024. Since submitting its submission (an online questionnaire asking five questions, each with a 500 word count limit), Council has not received any further information, nor been invited to provide any more information or context. A copy of the submission's content is attached to this report at Attachment 1.

Infrastructure Recovery Progress

Essential Public Assets – Roads and Stormwater

The Infrastructure Recovery Team is responsible for EPAR works that are being funded by the DRFA. To date, 52 projects with a total value of \$51 million have been completed and 59 projects with a total value of \$74.3 million are currently in progress.

A total \$135 million of funding has been approved for sealed roads and landslip repairs with \$41 million submitted and still to be approved by Transport for NSW.

Thomas James Bridge

Thomas James Bridge, its approaches on Settlers Road and the adjacent rock face were seriously damaged during the March 2022 flood, and again during the July 2022 flood events. The road serves as a critical link for residents of the Macdonald Valley south to the rest of Sydney. It is also the oldest in-use mainland bridge, built by convict labour circa 1830, and as such is an important heritage item that is worth preserving.

The project is the joint responsibility of Hawkesbury City Council and Central Coast Council due to the boundary between both councils being the centreline of Settlers Road, with HCC having taken the lead in response to it being our residents which are impacted by this reconstruction project. The project is funded under the DRFA program.

A Community Advisory Group has been established and has met on several occasions to inform Council on decisions with respect to how to consult with the Macdonald Valley community and on site/project management considerations with respect to access and community impacts.

Commencing 18 September 2023, the contractor is well underway with reshaping the upslope of the major landslip. An access road and temporary bridge has been constructed with the intention to maintain resident access 24/7 for the entirety of the project. The last of the heritage sandstone blocks were removed from site in March 2024. This achievement marks a significant milestone for the project.

It is anticipated that the reconstruction of the Bridge will be completed in January 2025.

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Cornwallis Restoration

Infrastructure NSW has advised that it has secured the State Government portion of funding for flood repairs at Cornwallis, including the repair of the flood mitigation system and the replacement of the missing section of Cornwallis Road.

The initial damage at Cornwallis was caused during the March 2021 flood. Subsequent flooding in 2022 caused further erosion and the breaching of the riverbank, resulting in a small bay forming. A 180-metre section of Cornwallis Road was also lost.

Following the development of an initial design for the reinstatement of Cornwallis Road and the Bakers Lagoon drain, NSW Public Works has been working closely with adjoining landholders to facilitate a design which sees the reinstatement of the privately owned riverbank, including completing further geotechnical investigations and proof of concept for construction methodology.

At the present time there are three separate processes underway:

- Development of the procurement approach, by Public Works NSW
- Assessment of DRFA claims for Cornwallis Road and the Bakers Lagoon Drain, by Transport for NSW and Public Works respectively, and
- Development of approach to project contracts, by Council, NSW Reconstruction Authority and Public Works.

The last process is one underway to mitigate the financial risks to Council arising from the complex contracting arrangement required to facilitate works on essential public assets and the adjoining private property. It is also the only process in which Council presently has an active role. Council staff met with the NSW Reconstruction Authority and Public Works NSW early in 2024 and subsequently wrote to the NSW Government requesting that this financial risk is, by a suitable and agreed methodology, transferred from Council to the NSW Government.

It is too early at this stage to provide a timeline on the completion of the restoration works at Cornwallis.

Landslips

Restoration of road embankment landslips have been delivered in two packages: Minor Landslip and Major Landslips.

The minor landslips package of works is nearing completion with 36 of 37 projects now complete.

The major landslips package, the commencement of which was dependent on more detailed investigations and designs having been completed, commenced early in 2024. 5 of 37 major landslips have now been restored with the total package forecast to be completed by March 2025.

Community and Open Space Infrastructure

Council has been awarded funding under two rounds of the Community and Local Infrastructure Recovery Program (CLIRP), later renamed to Community Asset Program (CAP), with a total of \$16.09 million granted through this program.

It has been Council's experience that receiving funding deeds, which are the instrument required before any costs can be incurred, including investigation/design costs, routinely takes 12 months from the time of submitting the application. Accordingly, Round 1 CLIRP projects generally didn't have

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executed funding deeds in place until August 2023 and Round 2 CAP deeds have only started to be received in mid-March 2024.

Projects included in this program:

- CLIRP Round 1 - Repairs/upgrades to various riverbanks supporting recreational spaces – Argyle Bailey Memorial Reserve, Howe Park (one of two slumps) and Churchill Wharf Reserve - currently in detailed design stage
- CLIRP Round 1 - Yarramundi Reserve – repairs and upgrades to the car park and concrete path network - currently finalising design and procurement of REF
- CLIRP Round 1 - Repair and upgrade of sporting facilities jointly delivered by Council and Hawkesbury Sports Council – Bensons Lane soccer field car park and baseball field driveway, Colbee Park, Breakaway Ovals carparks and Brinsley Park - carpark improvements at Bensons Lane has been descoped to remove driveway works at baseball to fund soccer field budget shortfall, Breakaway carpark improvements has been reduced from two car parks to one to manage available budget - in procurement
- CAP Round 2 - Upgrades to resilience of carparking and access at Bensons Lane and Icely Park
- CAP Round 2 - Upgrade amenities to increase resilience and inclusivity and new picnic shelter at The Breakaway
- CAP Round 2 - Upgrade amenities to increase resilience and inclusivity at Brinsley Park
- CAP Round 2 - Upgrade amenities to increase resilience and inclusivity at Navua Reserve
- CAP Round 2 - Upgrade amenities and car parking to increase resilience and inclusivity at Argyle Bailey Reserve
- CAP Round 2 - Delivery of improvements, including driveway access, car parking, upgrades to buildings and improved site drainage at Colbee Park
- CAP Round 2 - Riverbank restoration, increased riverbank resilience, pathway enhancements, improved access to the river, new picnicking facilities at Governor Philip Park

COMMUNITY ENGAGEMENT

The issues raised in this report concern matters which do not require community consultation under Council's Community Engagement Policy.

Each project and/or program is subject to its own community consultation or community engagement process in line with Council's Community Engagement Policy.

CONFORMANCE TO THE HAWKESBURY COMMUNITY STRATEGIC PLAN 2022-2042

The report is consistent with the following Long-Term Community Objectives set out within the CSP.

Great Place to Live

- 1.1 Enable a shared responsibility for community resilience, community safety and disaster management.
- 1.4 Facilitate the delivery of infrastructure through relevant agencies for Council's own works.

DISASTER AND EMERGENCY COMMITTEE

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Protected Environment and Valued History

- 2.1 Value, protect and enhance our historic built environment as well as our relationship to Aboriginal and non-Aboriginal history.
- 2.2 Value, protect and enhance our natural land-based environment with an emphasis on using local resources and key partnerships.

Strong Economy

- 3.1 Creating an integrated and well-maintained transport system is an important local priority.

Reliable Council

- 4.1 Provide representative, responsive and accountable governance.
- 4.2 Encourage an informed community.
- 4.8 Facilitate the delivery of infrastructure through relevant agencies and Council's own works.

FINANCIAL IMPACT

Reconstruction

Council is at various stages of the financial claim process for natural disaster events AGRN960 (March 2021), AGRN1012 (March 2022) and AGRN1025 (July 2022) and while Officers progress through this process for each project it is too early to present a reliable financial estimate of the overall cost to Council which has not been met by the DRFA.

However, with recent confirmation from the NSW Reconstruction Authority, it is clear that any "ordinary time" employee costs (that is, permanent staff or casual staff already rostered on during ordinary working hours) and any additional employee costs (overtime, contract, temporary or agency) or consultant costs which aren't directly attributable to project works will not be eligible under the DRFA.

This means that the employee costs and consultant costs associated with communications and stakeholder engagement, financial reconciliations, reporting and preparing and lodging claims will likely be costs borne by Council. As an indication of the quantum of this, a budget of \$447,000 has been included in the draft 2024/2025 budget.

Once known and quantified, these ineligible costs will be reported to Council to inform Council and the community of the financial impacts of these disasters.

Insurance

Arising from the March 2021 flood event, Council received \$4 million as result of damage to predominantly to Council's building assets. Although \$4 million was the limit of Council's insurance for that year, estimated actual losses exceeded \$5 million.

Claims for the 2022 flood events are still a work-in-progress and are highly complex in nature due to the repeated events and establishing which damage occurred to which assets in which flood event. However, given the extent of damage and the subsequent claim made for the 2021 flood event, the claims for the 2022 events are likely to be significantly less (early estimates are under \$2 million).

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

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ATTACHMENTS

AT - 1 Independent Review of Commonwealth Disaster Funding, Hawkesbury City Council Submission, August 2023 - (*Distributed under separate cover*).

oooO END OF REPORT Oooo

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

3.1.3. DE - Update on Riverbank Stabilisation Matters - (151940)

Directorate: City Planning

PURPOSE OF THE REPORT

The purpose of this report is to provide an update to the Disaster and Emergency Committee on riverbank stabilisation matters.

EXECUTIVE SUMMARY

This report provides an update on Council's attempts to provide for a streamlined approach to riverbank stabilisation works as a consequence of significant flooding.

RECOMMENDATION

That the Disaster and Emergency Committee note Council's attempts to provide a streamlined approach to riverbank stabilisation.

BACKGROUND

Following significant flooding in the Hawkesbury Valley in 2021 and 2022, Council has been working with landowners to assist in recovery efforts for the damage caused to private property as a result of the floods. Through this process it was identified that work was required to be undertaken on private land, and often included minor stabilisation of riverbanks, vegetation re-establishment and re-instatement of flood protection measures that had been destroyed or damaged.

More than 200 sites within Hawkesbury Local Government Area were impacted by flooding between 2021 and 2022. To reinstate and rehabilitate riverbanks that have faced significant erosion from these major flood events landholders are required to go through extensive development assessment and approvals processes. This development assessment process has potentially significant time and cost burden for both landholders, Council and relevant State agencies.

Since the 2021 floods, property owners had been advised to undertake the standard development application process, and prepare plans and documents for assessment prior to approval. This advice often resulted in the property owner having to prepare detailed plans and technical reports to the same level that they would be expected to undertake as if they were proposing to develop their land as opposed to reinstating the riverbank.

There were significant and legitimate concerns at that time that this would result in extra financial burden for a community trying to recover from flooding, emotional impacts at a sensitive time where the development process may be overly rigid and lead to time delays for straight forward matters, including where no material is proposed to be imported to the site and the owner wants to stabilise or reinstate what was in place prior to the flood.

An identified key risk at that time was that if a process for flood recovery appeared to be unreasonable in the circumstances, that it may result in property owners ignoring advice provided by Council and seeking their own solutions to carry out works which could be inappropriate or poorly

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thought through. This could have included the importation of uncontrolled fill and raising the levels of the land by third parties who then do not take responsibility for the quality of the work.

In this respect, the main feedback that Council had received since the 2021 floods was that the development process to do any works to remediate flood damage is too hard and that the current approach in place does not differentiate between development works and re-instatement works, which could have been completed between the 2021 and 2022 floods.

Based on these considerations, Council worked with the Western Sydney Planning Partnership to prepare a Flood Recovery Planning Pathway Proposal (Attachment 1). The proposal presented an interim planning approval pathway for riverbank rehabilitation, to be tested in the Hawkesbury Local Government Area for an interim period. The proposal would have assisted Council to provide a responsive approach to assisting private landowners where they were seeking to carry out minor works to reinstate flood protection measures, riverbanks or levels of land, which have been directly related to the rapid erosion and damage resulting from the recent flooding. This interim approach and testing would be in place until the Local Land Services fast track process that was in early stages of development was able to commence.

In summary, the proposal sought endorsement for the following:

- Exempt Development Pathway for riverbank rehabilitation
- Removal of integrated development requirements for certain riverbank rehabilitation and flood recovery works
- Landowners consent from Crown Lands NSW for the works.

The proposal was submitted to the Department of Planning and Environment on 11 July 2022, in addition to correspondence to key regulatory stakeholders including the Natural Resource Access Regulator (Department of Planning and Environment - Water), Crown Lands, and Department of Primary Industries.

DISCUSSION

Council's proposal sought to simplify the process for assessment and remove the requirement for development approval in certain circumstances. This would have reduced the burden on landholders affected by flooding, minimise and simplify the involvement of Council and State agencies which would otherwise have to review each individual application for riverbank rehabilitation.

The proposal was informed by, and is consistent with, the riverbank rehabilitation recommendations prepared for the Hawkesbury-Nepean Riverbank Task Group in 2021, and importantly was limited to works with minimal environmental impact only as described in Appendix B.

Despite this, and follow up with the now Department of Planning, Housing and Infrastructure, to date the proposal has not received support and approval from the NSW Government.

In the absence of support for the proposal from the NSW Government, Council requires a Development Application for all riverbank stabilisation works, except in circumstances where there is a structure at-risk in proximity to a riverbank that has failed. In these instances Council officers work with landowners to determine an appropriate course of action, which may include issue of a Council order to compel the landholder to undertake urgent works to protect the property through bank re-stabilisation.

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COMMUNITY ENGAGEMENT

The issues raised in this report concern matters which do not require community consultation under Council's Community Engagement Policy.

CONFORMANCE TO THE HAWKESBURY COMMUNITY STRATEGIC PLAN 2022-2042

The proposal is consistent with the following Long-Term Community Objectives set out within the CSP.

Great Place to Live

- 1.1 Enable a shared responsibility for community resilience, community safety and disaster management.
- 1.4 Facilitate the delivery of infrastructure through relevant agencies for Council's own works.
- 1.6 Build on a sense of community and wellbeing.

Protected Environment and Valued History

- 2.2 Value, protect and enhance our natural land-based environment with an emphasis on using local resources and key partnerships.
- 2.5 Value, protect and enhance our waterways and wetlands with an emphasis on using local resources and key partnerships.

Reliable Council

- 4.1 Provide representative, responsive and accountable governance.
- 4.2 Encourage an informed community.
- 4.4 Build strong relationships and shared responsibilities.
- 4.5 Encourage a shared responsibility for effective compliance.

FINANCIAL IMPACT

The matters raised in this report have indirect financial implications. Expenditure in the form of resources has been incurred in association with these matters.

ATTACHMENTS

AT - 1 Flood Recovery Planning Pathway Proposal - (*Distributed under separate cover*).

oooO END OF REPORT Oooo

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Meeting Date: 26 March 2024

3.1.4. DE - Hawkesbury Floodplain Drainage Review - Molino Stewart Study - (151940)

Directorate: City Planning

PURPOSE OF THE REPORT

The purpose of this report is to provide the following updates:-

- Hawkesbury Floodplain Drainage Review - Molino Stewart Study
- Outstanding resolution actions from past committee meetings

RECOMMENDATION

That the Committee note the updates Hawkesbury Floodplain Drainage Review - Molino Stewart Study and outstanding resolution actions from past committee meetings.

BACKGROUND

Hawkesbury Floodplain Drainage Review - Molino Stewart Study

The Hawkesbury Floodplain includes large areas of agricultural land on the floodplains between Agnes Banks and Wilberforce. These floodplains drain into the Hawkesbury River via a combination of natural creek lines and constructed drainage schemes. The hydraulics of these drainage networks have been heavily impacted by the construction of a range of drains, levees and floodgates and indirectly by agricultural activities.

Previous investigations, conducted by Molino Stewart, at Pitt Town Lagoon and Bushells Lagoon suggest that the hydraulics of the drainage networks on the Hawkesbury Floodplain is not well understood and there is little documentation on how constructed systems were meant to operate. There is also evidence that their hydraulic performance may have changed over time due to lack of maintenance, deliberate changes to infrastructure and inadvertent blockage of flows.

In 2022 following multiple significant flood events, Council commissioned a study on the Hawkesbury Floodplain Drainage system and is now in receipt of the final report. The broader conclusion is that the condition of the drainage channels has deteriorated over time, partly due to failure by landowners or Council to maintain flood mitigation and drainage infrastructure, and partly due to farm works or practices which have changed the topography of the area.

Outstanding resolution actions from past committee meetings

Update on the Pitt Town Evacuation Route

With respect to the Pitt Town Evacuation Route, following the shortcomings with the existing route being identified by residents in 2022, Council advocated for the NSW Government to fund the upgrades necessary to provide a safe and fit for purpose evacuation route, including upgrading two

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intersections to roundabout treatments (Mitchell Road-Cattai Road-Pitt Town Dural Road and Scheyville Road and Old Pitt Town Road).

No funding eventuated from this advocacy effort, nor was the upgrade of the whole route considered as part of the Hawkesbury-Nepean Valley Resilient Roads project.

The remaining outstanding resolutions from previous Disaster and Emergency Committee meetings are noted below;

- **RES232/22/3/a)** - That the Disaster and Emergency Committee receive the updates on various floodplain management matters, and request the Council to:
 - Invite Endeavour Energy to provide an updated presentation regarding resilience of Electricity Infrastructure for the Hawkesbury.

Endeavour Energy were invited to present at this Disaster and Emergency Committee Meeting, but declined due to staff availability. They have indicated that they would be available for the next Committee Meeting.

Future works

The below projects were applied for funding under various Government grants and not successful. These projects have been listed for inclusion in future capital works programs, subject to grant funding becoming available sooner.

- Valley Way, Glossodia - Increase in function/capacity
- Wolseley Road, McGraths Hill - Improvements to the resilience of a structure
- Upper Colo Road, Upper Colo - Improvements to the resilience of a structure
- Lower Colo Road, Lower Portland - Improvements to the resilience of a structure
- West Portland Road, Sackville - Improvements to the resilience of a structure
- Grono Farm Road, Wilberforce - Improvements to the resilience of a structure
- Greens Road, Lower Portland - Improvements to the resilience of a structure
- Pitt Town Bottom Road, Pitt Town - Improvements to the resilience of a structure
- Colo Heights Road, Upper Colo - Improvements to the resilience of a structure
- Cox Street, South Windsor - Increase in function/capacity
- Reedy Road, Maraylya - Improvements to the resilience of a structure
- Fairey Road, South Windsor - Increase in function/capacity
- Smith Road, Oakville - Improvements to the resilience of a structure
- Freemans Reach Road, Freemans Reach - Improvements to the resilience of a structure
- Gorricks Lane, Freemans Reach - Improvements to the resilience of a structure

DISASTER AND EMERGENCY COMMITTEE

3. REPORTS FOR DETERMINATION

Meeting Date: 26 March 2024

- Old Pitt Town Road, Oakville - Improvements to the resilience of a structure
- Old Pitt Town Road, Scheyville - Improvements to the resilience of a structure
- Flood Evacuation Routes, Various locations - Improvements to the resilience of a structure
- Spinks Road, Glossodia - Improvements to the resilience of a structure
- St Albans Road, Central Macdonald - Improvements to the resilience of a structure
- Disaster Ready Hawkesbury - Community strength building
- Early Flood Detection and Control at McGraths Hill STP
- Power Supply Risk Reduction – SWSTP
- Unified Communications in the Cloud - Building Hawkesbury's Resilience

DISCUSSION

Hawkesbury Floodplain Drainage Review - Molino Stewart Study

As noted in the report, repairing and/or maintaining these drainage channels is a shared responsibility. Whilst some issues, such as blocked pipes, would be relatively easy to fix, other issues such as slumped banks or paddock erosion, require significantly more work and it is possible that some of the changes to the landscape cannot practically be reversed or mitigated and as such, the impacts that have been sustained following the recent floods will continue after every flood.

The report makes further observations around the impact that a change in agricultural practices may have on ensuring that drainage problems don't get worse in the future.

The report provides an overview of planning approval pathways for the various suggested mitigation options, the release of which may aid both Council and landowners to progress rectification works as well as further the previous representations made to the State Government in support of the continued call for a fast-track approval pathway to facilitate flood mitigation and restoration works.

The final version of the report has now been provided to staff and will be considered at a Councillor-briefing, following which the matter will be reported to Council.

Outstanding resolution actions from past committee meetings

The Committee will continue to be provided with updates on the progress of these action items at future meetings.

COMMUNITY ENGAGEMENT

The issues raised in this report concern matters which do not require community consultation under Council's Community Engagement Policy. Following formal consideration of the Hawkesbury Floodplain Drainage Review - Molino Stewart Study Council at a Council meeting, targeted engagement will be undertaken with landholders to present the Study and work through possible shared solutions.

DISASTER AND EMERGENCY COMMITTEE

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CONFORMANCE TO THE HAWKESBURY COMMUNITY STRATEGIC PLAN 2022-2042

Great Place to Live

- 1.1 Enable a shared responsibility for community resilience, community safety and disaster management.

Protected Environment and Valued History

- 2.2 Value, protect and enhance our natural land-based environment with an emphasis on using local resources and key partnerships.

Reliable Council

- 4.4 Build strong relationships and shared responsibilities.

FINANCIAL IMPACT

There are no financial implications applicable to this report.

ATTACHMENTS

There are no supporting documents for this report.

oooO END OF REPORT Oooo

DISASTER AND EMERGENCY COMMITTEE

4. GENERAL BUSINESS

Meeting Date: 26 March 2024

4. GENERAL BUSINESS



Disaster and Emergency Committee Meeting

End of Business Paper

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