



Attachment 5 to Item 3.1.1.

Floodplain Management Sub Committee
Business Papers 23 August 2023

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



Floodplain Management Sub-Committee

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

BUSINESS PAPER

FLOODPLAIN SUB-COMMITTEE

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FLOODPLAIN SUB-COMMITTEE

1. AGENDA

Meeting Date: 23 August 2023

1. AGENDA

1.1. Welcome

1.2. Apologies

1.3. Declaration of Interests

FLOODPLAIN SUB-COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 23 August 2023

2. CONFIRMATION OF MINUTES

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.

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FLOODPLAIN SUB-COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 23 August 2023

FLOODPLAIN MANAGEMENT SUB-COMMITTEE

1. AGENDA

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DECLARATIONS OF INTEREST

There were no Declarations of Interests made.

FLOODPLAIN SUB-COMMITTEE

2. CONFIRMATION OF MINUTES

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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.

FLOODPLAIN SUB-COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 23 August 2023

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.

FLOODPLAIN SUB-COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 23 August 2023

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.

FLOODPLAIN SUB-COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 23 August 2023

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.

FLOODPLAIN SUB-COMMITTEE

2. CONFIRMATION OF MINUTES

Meeting Date: 23 August 2023

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 SUB-COMMITTEE
3. REPORTS FOR DETERMINATION
Meeting Date: 23 August 2023

3. REPORTS FOR DETERMINATION

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

Directorate: City Planning

PURPOSE OF THE REPORT

The purpose of this report is to provide updates in respect of the status of Council's Floodplain Risk Management Projects.

OFFICER'S RECOMMENDATION

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

BACKGROUND

Council currently has two 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 Infrastructure NSW, and to update management options as required.

2. Combined Macdonald River, Colo River, Webbs Creek and Greens Creek Flood Study.

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

DISCUSSION

Review of Hawkesbury Floodplain Risk Management Study and Plan

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

FLOODPLAIN SUB-COMMITTEE
3. REPORTS FOR DETERMINATION
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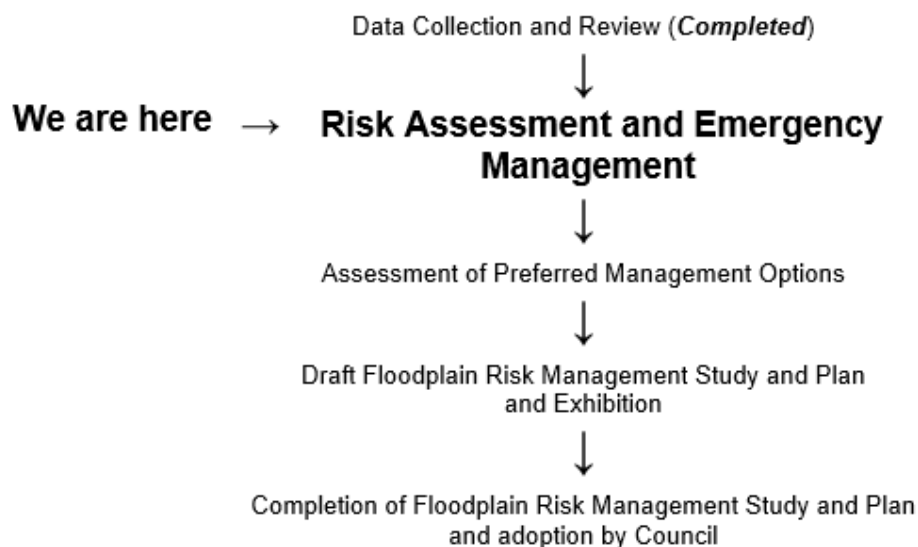


Figure 1: Status of the Review of the Hawkesbury Floodplain Risk Management Study and Plan Project

It is anticipated that the Draft 2023 Hawkesbury-Nepean River Flood Study, prepared by the Reconstruction Authority (formally Infrastructure NSW), will be released for public exhibition early October 2023.

The release of this Flood Study will enable further progress of the Review of the Hawkesbury Floodplain Risk Management Study and Plan Project as it will provide the most contemporary and accurate flood data available. The Flood Study will assist to develop a better understanding the nature of flooding of the Hawkesbury River as well as assist in developing up-to-date management options based on this data.

Given that the exhibition of the Draft 2023 Hawkesbury-Nepean River Flood Study is due to start in October, it is proposed to commence community consultation in relation to the Review of the Hawkesbury Floodplain Risk Management Study and Plan Project in late August/early September 2023, for a period of four weeks. This consultation will seek community opinion on potential options for the management of impacts from the flooding of the Hawkesbury River.

Consultation will involve an online questionnaire and supporting information through Council's Your Hawkesbury-Your Say. Promotion of the consultation will be carried out through Council's website and social media. Further details in this respect will be provided at the Sub Committee Meeting.

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

Figure 2 below 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.

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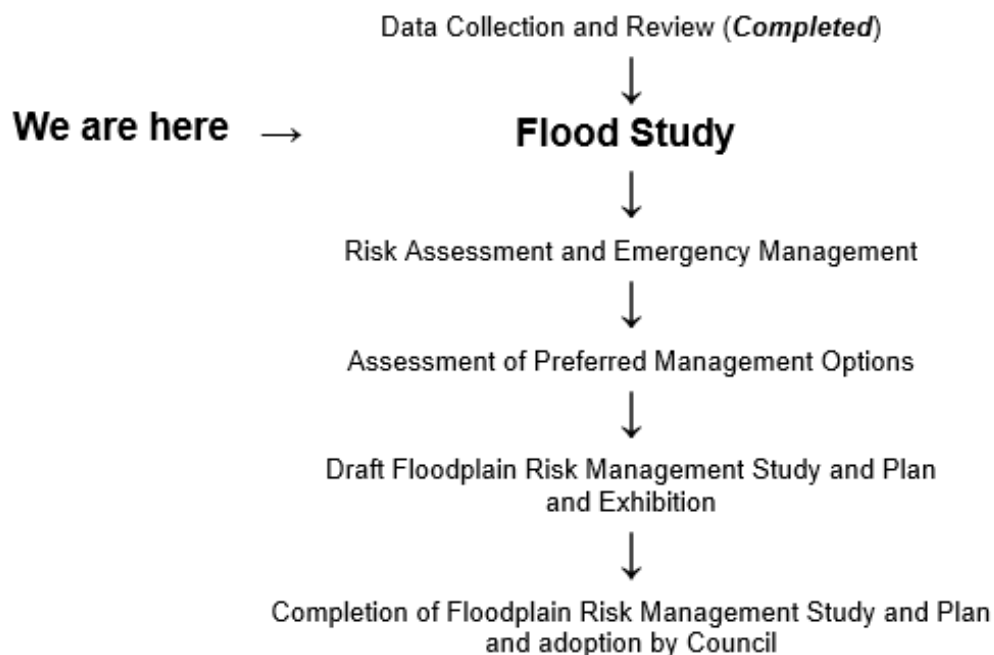


Figure 2: Status of the Macdonald River, Colo River, Webbs Creeks and Greens Creek Floodplain Management Project

A report was presented to the Floodplain Management Sub-Committee Meeting on 26 June 2023 outlining the community engagement plan to be used to gather insights from the community in relation to the Combined Macdonald River, Colo River, Webbs Creek and Greens Creek Flood Study and Floodplain Risk Management Study and Plan Project.

This consultation 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 acceptance of study outcomes.

Community consultation seeking local information in relation to flood events experienced within the Macdonald River, Colo River, Webbs Creek and Greens Creek locality commenced on 31 July 2023.

Engagement with the communities within each of these catchments include:

- Council website - Your Hawkesbury Your Say, including online survey
- Mail out of the survey and supporting documents to property owners and residents within the study areas
- Face to face engagement at Council's Community Hubs.

Details of the consultation can be viewed at:

[Macdonald River, Colo River, Webbs Creek and Greens Creek Community – We Want To Hear Your Flood Stories | Your Hawkesbury Your Say \(yourhawkesbury-yoursay.com.au\)](https://yourhawkesburyyoursay.com.au)

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The information gathered during this consultation will help inform the flood study as well as future management options.

The consultation period closes 27 August 2023.

ATTACHMENTS

There are no supporting documents for this report.

oooO END OF REPORT Oooo

FLOODPLAIN SUB-COMMITTEE
3. REPORTS FOR DETERMINATION
Meeting Date: 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

PURPOSE OF THE REPORT

The purpose of this report is to detail the status of the recommendations of the Hawkesbury Floodplain Risk Management Plan 2012, and identify those recommendations that should be considered as part of the process of undertaking the Review of the Hawkesbury Floodplain Risk Management Study and Plan (current project).

EXECUTIVE SUMMARY

The recommendations of the Hawkesbury Floodplain Risk Management Study and Plan 2012 were discussed at the Floodplain Management Sub Committee Meeting on 28 June 2023, where it was highlighted that further details in respect to the status of these recommendations would assist the Sub Committee.

This report identifies the actions, or part actions, that remain outstanding in relation to the Hawkesbury Floodplain Risk Management Study and Plan 2012.

It is proposed that these outstanding actions be referred to the consultant undertaking the Review of Hawkesbury Floodplain Risk Management Study and Plan 2012 Project for consideration, and where relevant be included in any future floodplain risk management study and plan for the Hawkesbury River catchment.

This report was presented to the Floodplain Management Sub-Committee meeting on 26 July 2023, however, was deferred for consideration at this meeting.

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.

BACKGROUND

The status of the recommendations of the Hawkesbury Floodplain Risk Management Plan 2012 were presented to the Floodplain Management Sub Committee at its meeting on 28 June 2023.

Details of how the recommendations had been actioned or how changes in policy and legislation have affected these recommendations were presented. However, it was recognised that identifying what works still needed to be undertaken would be useful in assisting in determining future management options for inclusion in the updated Plan.

Consideration of this report was deferred at the Floodplain Management Sub-Committee meeting on 26 July 2023.

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DISCUSSION

A more detailed table of recommendations/actions was prepared in order to highlight what actions, or part actions, remain outstanding in relation to the recommendations of the Hawkesbury Floodplain Risk Management Study and Plan 2012.

Table 1: Status of Hawkesbury Floodplain Risk Management Study and Plan 2012 Recommendations in Attachment 1 to this report provides a revised assessment of the status of the Hawkesbury Floodplain Risk Management Study and Plan 2012 recommendations, including identification of future potential actions.

It has also been identified that the outstanding recommendations need to be reviewed to determine if they are still relevant and should be included in the Review of Hawkesbury Floodplain Risk Management Study and Plan 2012 Project.

In this respect, it is considered that these recommendations be referred to the consultants undertaking this Project for consideration, and where relevant be included in any future floodplain risk management study and plan for the Hawkesbury River catchment.

ATTACHMENTS

AT - 1 Table 1: Status of Hawkesbury Floodplain Risk Management Study and Plan 2012 Recommendations.

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AT 1 - Table 1: Status of Hawkesbury Floodplain Risk Management Study and Plan 2012 Recommendations

ITEM	AGENCY	ACTIONS TO DATE	FUTURE ACTIONS
1. Community Flood Education and Resilience			
(a) <i>Review and evaluate Regional Public Awareness Program.</i>	Hawkesbury City Council, State Emergency Services	(a) Awareness program for Hawkesbury Nepean Valley recently/currently undertaken by iNSW and SES in conjunction with HCC as a partner, as part of the actions of the Hawkesbury Nepean Flood Strategy – Resilient Valley/Resilient Communities.	(a) This program is driven by the State Agencies. Determine lifespan of the program and what is needed to maintain a community awareness program in perpetuity. Consider as part of Review of Hawkesbury FRMS&P.
(b) <i>Issue flood certificates on regular basis.</i>	Hawkesbury City Council, State Emergency Services	(b) Council has two types of flood certificates; a simple one and a more detailed one which provides information such as hazard to assist with determining which developments controls are applicable under Flood Policy – data based on 2012 Study.	(b) Completed. No further action required.
(c) <i>Prepare suburb-specific FloodSafe guides.</i>	Hawkesbury City Council, State Emergency Services	(c) Awareness program for Hawkesbury Nepean Valley recently/currently undertaken by iNSW and SES in conjunction with HCC as a partner, as part of the actions of the Hawkesbury Nepean Flood Strategy – Resilient Valley/Resilient Communities.	(c) Review awareness program in (a) and determine adequacy in general and whether there is a need for suburb specific guides. Consider as part of Review of Hawkesbury FRMS&P.
(d) <i>Prepare flood tolerant housing poster and brochure.</i>	Hawkesbury City Council, State Emergency Services	(d) Awareness program for Hawkesbury Nepean Valley recently/currently undertaken by iNSW and SES in conjunction with HCC as a partner, as part of the actions of the Hawkesbury Nepean Flood Strategy – Resilient Valley/Resilient Communities.	(d) Not commenced. Consider as part of Review of Hawkesbury FRMS&P.

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ITEM	AGENCY	ACTIONS TO DATE	FUTURE ACTIONS
(e) <i>Enhance flood information on Council's web-site.</i>	Hawkesbury City Council, State Emergency Services	(e) Awareness program for Hawkesbury Nepean Valley recently/currently undertaken by iNSW and SES in conjunction with HCC as a partner, as part of the actions of the Hawkesbury Nepean Flood Strategy – Resilient Valley/Resilient Communities. Establishment of Emergency Dashboard on Council's website, which provides information and links to information and resources in relation to natural disasters and relevant agencies such as SES, Police and RFS.	(e) Review awareness program in (a) and determine what additional information could be provided on councils website along with links to SES website. Consider as part of Review of Hawkesbury FRMS&P.
(f) <i>Commission book and video production on Hawkesbury flooding and vital community responses.</i>	Hawkesbury City Council, State Emergency Services	(f) Council led flood exhibition at Hawkesbury Museum in 2017.	(f) Consider applicability as part of Review of Hawkesbury FRMS&P.
(g) <i>150 year commemoration of 1867 flood.</i>	Hawkesbury City Council, State Emergency Services	(g) 150 year commemoration carried out in 2017.	(g) Completed. No further action required.
(h) <i>Install flood icons/markers at key locations.</i>	Hawkesbury City Council, State Emergency Services	(h) Have applied for a grant to carry out this recommendation a couple of times, however been unsuccessful due to NSW Government strategy and work across the Hawkesbury-Nepean Valley.	(g) Continue to seek grant funding, in conjunction with the Department of Planning and Environment.
(i) <i>Continue to host Business FloodSafe breakfasts.</i>	Hawkesbury City Council, State Emergency Services	(i) Nil	(i) No further action required.

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ITEM	AGENCY	ACTIONS TO DATE	FUTURE ACTIONS
2. Emergency Management			
(a) <i>Implement dual outbound lanes on Jim Anderson Bridge during flood emergencies.</i>	State Emergency Services, Transport for NSW	(a) As part of delivering HNV Flood Strategy, Transport for NSW is undertaking investigations for road improvements (Road Resilience Program). This work includes investigations to improve flood immunity of evacuation routes through drainage works, road shoulder upgrades or the raising of low points.	(a) Continue to advocate as necessary.
(b) <i>Enhance emergency management assessment tools. Develop best traffic modelling to better assess implications of various evacuation scenarios. Integrate with flood modelling.</i>	State Emergency Services	(b) TfNSW and SES development of a Flood Evacuation Model for the Hawkesbury-Nepean Valley.	(b) Continue to advocate as necessary.
(c) <i>Promote construction of community refuges within major new buildings on flood islands to service the existing communities.</i>	Hawkesbury City Council, State	(c) WestInvest funded project to provide community centre at North Richmond for use during natural disasters	(c) Refuges identified at other location to be re-evaluated as part of Review of Hawkesbury FRMS&P.
(d) <i>Continue to prepare and maintain flood emergency management plans for special uses and utilities.</i>	Private Sector, Hawkesbury City Council, State Emergency Services, State	(d) New SES Hawkesbury-Nepean SubPlan released in 2020. Hawkesbury-Nepean flood emergency sub plan NSW Government iNSW & SES, in collaboration with councils, recently released flood emergency management plan template to all caravan parks for use. Council's adopted Local Approvals Policy – Caravan Parks requires flood evacuation plans for Approvals to Operate.	(d) Completed. Implementation of Sub Plan and periodic review by SES subject to their processes and procedures. Local Approvals Policy implemented through assessment of applications for Approvals to Operate.

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ITEM	AGENCY	ACTIONS TO DATE	FUTURE ACTIONS
(e) <i>Use caravan park emergency management plan template to raise awareness and increase preparedness.</i>	Private Sector, Hawkesbury City Council, State Emergency Services, State	(e) iNSW & SES, in collaboration with councils, recently released flood emergency management plan template to all caravan parks for use. Council's adopted Local Approvals Policy – Caravan Parks requires flood evacuation plans for Approvals to Operate.	(e) Completed. Local Approvals Policy implemented through assessment of applications for Approvals to Operate.
(f) <i>Review and update Hawkesbury-Nepean Flood Emergency Sub Plan and NSW State Flood Sub Plan</i>	State Emergency Services, Bureau of Meteorology, State	(f) New SES Hawkesbury-Nepean SubPlan released in 2020. Hawkesbury-Nepean flood emergency sub plan NSW Government	(f) Completed. Implementation of Sub Plan and periodic review by SES subject to their processes and procedures.
(g) <i>Provide additional evacuation capacity possibly through a new crossing of South Creek at Eighth Ave, Llandilo.</i>	Hawkesbury City Council, Transport for NSW, State	(g) As part of delivering HNV Flood Strategy, Transport for NSW is undertaking investigations for road improvements (Road Resilience Program). This work includes investigations to improve flood immunity of evacuation routes through drainage works, road shoulder upgrades or the raising of low points.	(g) Consider as part of Review of Hawkesbury FRMS&P and continue to advocate as necessary.
(h) <i>Identify local evacuation route upgrades and revise FRMP.</i>	Hawkesbury City Council, State Emergency Services	(h) As part of delivering HNV Flood Strategy, Transport for NSW is undertaking investigations for road improvements (Road Resilience Program). This work includes investigations to improve flood immunity of evacuation routes through drainage works, road shoulder upgrades or the raising of low points.	(h) Ongoing.
(i) <i>Investigate lane duplication options, east of Jim Anderson Bridge.</i>	Hawkesbury City Council, State Emergency Services	(i) Nil.	(i) Consider applicability as part of Review of Hawkesbury FRMS&P and continue to advocate as necessary.

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ITEM	AGENCY	ACTIONS TO DATE	FUTURE ACTIONS
3. Future Development – Flood Risk Advice to Consent Authorities			
(a) <i>Provide advice to Council and State Government concerning severity of flood evacuation risks as per Tables 4 and 5.</i>	Hawkesbury City Council, State	(a) Nil.	(a) Review the Evacuation Risks for future development as part of Review of Hawkesbury FRMS&P.
4. Town Planning			
(a) <i>Advise DPI of principal planning recommendations of this Plan.</i>	Hawkesbury City Council, State	This section was not adopted by Council at that time. However, a number of changes to legislation and state policy have happened: (a) Nil	(a) Outcome of current Floodplain Management Projects will be provided to State Agencies.
(b) <i>Amend flood risk provisions of Council's existing DCP.</i>	Hawkesbury City Council, State	(b) Council adopted Flood Policy in 2020 which was based on a risk approach. Council adopted a Local Approvals Policy for caravan parks (July 2023) to manage the impacts of floods on caravan parks.	(b) A chapter for flood risk management will be included in Council's Development Control Plan as an output of the current Floodplain Management Projects.
(c) <i>Amend LEP in Accordance with Volume 3.</i>	Hawkesbury City Council, State	(c) LEP Standard Instrument dictates the wording of clauses in LEP. New flood clauses for LEPs were introduced 5.21 (mandatory) and 5.22 (optional). Council chose not to include Clause 5.22 until the Review of Hawkesbury FRMS&P has been completed.	(c) The inclusion of Clause 5.22 into HLEP 2012 to be considered as part of the Floodplain Management Projects.

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(d) <i>Prepare maps to guide application of Codes SEPP.</i>	Hawkesbury City Council, State	(d) Nil.	(d) Not commenced. Consider applicability as part of Review of Hawkesbury FRMS&P.
(e) <i>Revise S149 notifications in accordance with Volume 3.</i>	Hawkesbury City Council, State	(e) Notifications to be included on planning certificate in relation to flooding were changed with the introduction of State Governments Flood Package. Now includes advice for development controls for certain development on land between the flood planning area and the PMF – relates to Clause 5.22 of the Standard Instrument.	(e) No further action required at this stage.
(f) <i>Lodge application for 'exceptional circumstances' with DPI & OEH.</i>	Hawkesbury City Council, State	(f) No longer required. Removed as part of the changes introduced by the State Government's Flood Package. Flood planning levels/areas are now determined as part of the floodplain management process.	(f) Consider as part of Review of Hawkesbury FRMS&P, based on the outcomes of DPE's Strategic Land Use Framework and iNSW 2D Flood Model.
5. VHR and Redevelopment			
(a) <i>Survey all houses inundated in 20 year ARI events.</i>	Hawkesbury City Council	Have applied for a grant to carry out this recommendation twice, however have been unsuccessful due to NSW Government Strategy and work across the Hawkesbury-Nepean Valley	Consider as part of Review of Hawkesbury FRMS&P.
(b) <i>Assess eligibility for voluntary house raising (VHR) redevelopment and possibly for voluntary house purchase (VP).</i>	Hawkesbury City Council		
(c) <i>Report back to Council. Revise FRMP if required.</i>	Hawkesbury City Council		
6. McGraths Hill			
(a) <i>Feasibility study of 50 year levee including consultation.</i>	Hawkesbury City Council	No further investigation following release of the Hawkesbury-Nepean Valley Strategy - Resilient Valley, Resilient Communities	Matter being investigated by Reconstruction Authority and Disaster Action Plans
(b) <i>Assess community attitudes to levee and refuge mound.</i>	Hawkesbury City Council	Recommendations of the Flood Inquiry.	
(c) <i>Report back to Council. Revise FRMP if required.</i>	Hawkesbury City Council		

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ITEM	AGENCY	ACTIONS TO DATE	FUTURE ACTIONS
7. Updating Flood Behaviour Data in Valley			
(a) <i>Utilise latest 2D flood modelling and latest topographical data.</i>	Hawkesbury City Council, Other Councils, State	iNSW flood study 2019 has provided more contemporary flood data for the Hawkesbury Nepean Valley. iNSW is currently undertaking 2D modelling and updating flood data from that carried out in 2019. This newer data is expected to be exhibited from August 2023.	The updated flood data resulting from the 2D modelling undertaken by iNSW will be incorporated into the Review of Hawkesbury FRMS&P.
(b) <i>Extend along main tributaries.</i>	Hawkesbury City Council, Other Councils, State		
(c) <i>Include revised IFD rainfall.</i>	Hawkesbury City Council, Other Councils, State		
(d) <i>Include for revised climate change influences.</i>	Hawkesbury City Council, Other Councils, State		
(e) <i>Update data for smaller more frequent flood events.</i>	Hawkesbury City Council, Other Councils, State		

oooO END OF REPORT Oooo

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

Directorate: City Planning

PURPOSE OF THE REPORT

The purpose of this report is to provide details of relevant information that may be of use to Floodplain Management Sub-Committee members.

OFFICER'S RECOMMENDATION

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

BACKGROUND

At the Floodplain Management Sub-Committee Meeting on 26 July 2023, it was requested that the Sub-Committee members be provided with website links to relevant policies that may assist with Council's Floodplain Risk Management Projects.

DISCUSSION

A summary of relevant documents, and the website addresses to access these documents are provided below:

1. Flood Prone Land Policy and Flood Risk Management Manual 2023

The NSW Government's Flood Prone Land Policy aims to make communities more flood resilient. It accomplishes this by reducing the impacts of flooding on owners and occupiers of flood-prone property and reducing public and private losses. The policy recognises that flood-prone land is a valuable resource.

The Flood Risk Management Manual supports the Flood Prone Land Policy and guides councils on managing flood risk to their communities through the flood risk management framework. This includes helping councils develop and implement flood risk management plans for their communities.

The Manual was gazetted in June 2023 as the manual relating to the development of flood-labile land for the purposes of section 733 of the *Local Government Act 1993*. It replaced the Floodplain Development Manual (2005).

A series of flood risk management guidelines support the manual.

The Flood Risk Management Manual 2023, which includes the Flood Prone Land Policy can be viewed at:

[Floodplain manual | NSW Environment and Heritage](#)

2. Resilient Valley, Resilient Communities – Hawkesbury-Nepean Valley Flood Risk Management Strategy

Resilient Valley, Resilient Communities - the Hawkesbury-Nepean Valley Flood Risk Management Strategy (the Flood Strategy) is a comprehensive long-term framework for the NSW Government,

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local councils, businesses and the community to work together to reduce and manage the flood risk in the Hawkesbury-Nepean Valley.

The objective of the Flood Strategy is to reduce flood risk to life, property and social amenity from regional floods in the Hawkesbury-Nepean Valley now and in the future. The Flood Strategy's vision is for Hawkesbury-Nepean Valley communities and all levels of government to adapt to flooding by working together to:

- Understand and be fully aware of flood risk
- Act to reduce flood risk and manage growth
- Be ready to respond and recover from flooding.

The Flood Strategy includes a range of targeted actions designed to deliver nine outcomes:

Outcome 1: Coordinated flood risk management across the Valley now and in the future

Outcome 2: Reduce flood risk in the Valley by raising Warragamba Dam wall

Outcome 3: Strategic and integrated land use and road planning

Outcome 4: Accessible contemporary flood risk information

Outcome 5: An aware, prepared and responsive community

Outcome 6: Improved weather and flood predictions

Outcome 7: Best practice emergency response and recovery

Outcome 8: Adequate local roads for evacuation

Outcome 9: Ongoing monitoring, evaluation, reporting and improvement of the Flood Strategy.

A copy of the Resilient Valley, Resilient Communities – Hawkesbury-Nepean Valley Flood Risk Management Strategy can be found at:

[Resilient Valley, Resilient Communities \(nsw.gov.au\)](https://resilientvalley.nsw.gov.au/)

3. Hawkesbury-Nepean Valley Regional Flood Study

One outcome of the Resilient Valley, Resilient Communities - the Hawkesbury-Nepean Valley Flood Risk Management Strategy was the release of the Hawkesbury-Nepean Valley Regional Flood Study in 2019 by Infrastructure NSW.

The Hawkesbury-Nepean Valley Regional Flood Study (2019) is a technical document describing the flood behaviour of the main Hawkesbury-Nepean River from Bents Basin near Wallacia downstream to Brooklyn Bridge, and associated backwater flooding, for existing conditions and under projected climate change.

The Hawkesbury-Nepean Valley Regional Flood Study (2019) can be viewed at:

[ec_insw_hawkesbury-nepean_fss-document_web.pdf](https://ec.insw.hawkesbury-nepean.fss-document_web.pdf)

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Further work is underway to increase understanding of flood behaviour using latest information including recent floods from 2020, 2021 and 2022. Public consultation and release of a new Hawkesbury-Nepean River Flood Study is anticipated for early October 2023.

4. Road Resilience Program

As part of the Flood Strategy, Transport for NSW has identified more than 100 infrastructure improvements at key low points of the flood evacuation road network in the Hawkesbury-Nepean Valley.

The NSW and Australian Governments will commit \$33 million towards planning for more than 100 infrastructure improvements that will help people evacuate safely ahead of a flood in the Hawkesbury-Nepean Valley.

The improvements will make the flood evacuation network more resilient, particularly at road low points in key locations within the valley.

Transport for NSW has identified road infrastructure improvements across four Western Sydney Local Government areas: Penrith, Hawkesbury, Blacktown and The Hills.

The improvement projects include road shoulder widening, new culvert and bridge structures, road raising, pinch point upgrades and drainage improvements.

These projects will improve the resilience of the road network so that residents can evacuate from the area safely in the event of a flood.

The Road Resilience Program can be accessed:

[Road Resilience Program | Transport for NSW](#)

5. The NSW Reconstruction Authority - Disaster Adaptation Plans

The NSW Reconstruction Authority was established in December 2022 to better prepare communities for disasters, such as the devastating floods that NSW experienced in 2022.

The Authority is dedicated to disaster prevention, preparedness, recovery, and reconstruction.

One of the authority's key priorities is to develop the State disaster mitigation plan. The State disaster mitigation plan will:

- Identify potential strategies and actions for reducing the impact of disasters
- Assess and consider the impacts of climate change on disasters
- Determine priority projects for regions to mitigate the impact of disasters.

The State disaster mitigation plan will set priorities for the plan, disaster adaptation plans and strategic plans under the *Environmental Planning and Assessment Act 1979*.

One of the Authority's priorities is to develop a Disaster Adaptation Plan for the Hawkesbury-Nepean Valley. The Reconstruction Authority is currently working with councils and government agencies to develop the scope of the Hawkesbury-Nepean Valley Disaster Adaptation Plan.

Further details for the Reconstruction Authority and their work can be obtained at:

[NSW Reconstruction Authority | NSW Dept of Planning and Environment](#)

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6. Hawkesbury Floodplain Risk Management Study and Plan 2012

The Hawkesbury Floodplain Risk Management Study and Plan 2012 can be accessed on Hawkesbury Council's website at:

[Strategies and Policies | Hawkesbury City Council \(nsw.gov.au\)](https://www.hawkesbury.nsw.gov.au/strategies-and-policies)

The Floodplain Risk Management Study was developed to enable government and the community to recognise more fully and respond more appropriately to the flood risk in the Hawkesbury Local Government Area. The Study reviewed known information in relation to flood risk within the study area and has classified the floodplain according to its flood risks. Five flood risk bands comprising, very low, low, medium, high and extreme flood risks have been developed.

The principal outcome of the Study was the preparation of the Floodplain Risk Management Plan.

The Floodplain Risk Management Plan recommends strategies to manage the existing and future flood risks within the study area, and includes actions in relation to community flood education and resilience, emergency management, flood risk advice, town planning, voluntary house raising and redevelopment, and updating of flood data.

Item 4 of the Floodplain Risk Management Plan relates to actions proposed in relation to town planning matters. These actions include:

- Advise DPI of principal planning recommendations of this Plan.
- Amend flood risk provisions of Council's existing DCP.
- Amend LEP in accordance with Volume 3.
- Prepare maps to guide application of Codes SEPP.
- Revise S149 notifications in accordance with Volume 3.
- Lodge application for 'exceptional circumstances' with DPI & OEH.

The Hawkesbury Floodplain Risk Management Study and Plan was adopted, in principle, by Council on 11 December 2012, with the exception of Item 4 – Town planning.

A number of hard copies of the Hawkesbury Floodplain Risk Management Study and Plan are available should Sub-Committee members prefer.

A review of this Study and Plan is one of the Floodplain Management Projects currently being undertaken.

7. Council's Flood Policy 2020

The Flood Policy 2020 and associated Schedule of Flood Related Development Control can be accessed on Council's website at:

[Strategies and Policies | Hawkesbury City Council \(nsw.gov.au\)](https://www.hawkesbury.nsw.gov.au/strategies-and-policies)

The purpose of the Flood Policy is to:

- highlight Council's position in respect of the need for a collaborative approach across all levels of government to respond to issues associated with floodplain management across the Hawkesbury-Nepean Valley, and

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- set the information and development controls to be used for the preparation and assessment of Development Applications for land affected by the 1:100 ARI flood event to address the requirements of Clause 5.21 – *Flood planning of Hawkesbury Local Environmental Plan 2012*.

The Policy provides development controls for land located within the Flood Planning Area, which are provided within the Schedule of Flood Related Development Controls. The controls are based on Flood Hazard Categories, and also take into consideration flood function (floodway, flood storage or flood fringe) the vulnerability of land use types, likely evacuation constraints and measures that can be implemented to minimise risk to life and flood damages. The Flood Planning Area is the land below the 1:100 ARI flood event.

8. Councils Local Approvals Policy – Caravan Parks

The Local Approvals Policy – Caravan Parks can be accessed via the Public Policies Page on Council's website:

hawkesbury.pulsesoftware.com/Pulse/Public.aspx?page=publicpolicies

Search for Local Approvals Policy – Caravan Parks.

The Local Approvals Policy – Caravan Parks provides guidance on the matters that Council will take into consideration when determining whether to grant an approval to operate a caravan park or an approval to install a relocatable home, rigid annexe or associated structure within a caravan park.

This Policy seeks to ensure the resilience and sustainability of existing caravan parks located on flood liable land by providing criteria that manages the type of structures that can be installed on certain flood liable land to assist in evacuation, and to minimise economic loss and environmental damage from the flooding of caravan parks.

ATTACHMENTS

There are no supporting documents for this report.

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FLOODPLAIN SUB-COMMITTEE

4. GENERAL BUSINESS

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4. GENERAL BUSINESS



Floodplain Management Sub-Committee Meeting

End of Business Paper

This business paper has been produced electronically to reduce costs, improve efficiency and reduce the use of paper. Internal control systems ensure it is an accurate reproduction of Council's official copy of the business paper.