

Central Floodplain Risk Management Committee

Meeting Date: Wednesday, 30 November, 2022

Location: Jervis Bay Rooms, City Administrative Centre, Bridge Road, Nowra

Time: 4:00pm

Please note: Council's Code of Meeting Practice permits the electronic recording and broadcast of the proceedings of meetings of the Council which are open to the public. Your attendance at this meeting is taken as consent to the possibility that your image and/or voice may be recorded and broadcast to the public.

Agenda

1. Apologies
2. Election of Chairperson
3. Confirmation of Minutes
 - Central Floodplain Risk Management Committee - 8 April 2022 1
4. Declarations of Interest
5. Reports
 - CFM22.7 Notification of Council Resolution - Central Floodplain Risk Management Committee Re-establishment 4
 - CFM22.8 St Georges Basin Final Flood Study 22
 - CFM22.9 General Update on Flood Projects 33
6. General Business

Membership

Chairperson – appointed by Council
All Councillors
CEO or nominee

Community representatives:-

Richard Carpenter
David Tarbert
Zachariah Cleary
Ronald Carberry
Janis Natt
David Reynolds

Government Agency representatives:-

Local Aboriginal Land Council
NSW State Emergency Services
Department of Planning & Environment (DPIE)
Other relevant Government Agency representatives

Quorum – Three (3) provided that a minimum of the Chairperson and two community representatives are present.

Note: Any non-voting Councillor in attendance at any of the above Committees may act as an alternate voting member in circumstances where achievement of a quorum is required.

Purpose:

The principal objective of the Central Floodplain Risk Management Committee is to assist Shoalhaven City Council in the development and implementation of one or more floodplain risk management plans for the central area of the Council. This will need to be in accordance with the NSW Floodplain Development Manual. The central area applies to the following catchments:

- St Georges Basin (includes Sussex Inlet);
- Jervis Bay;
- Currumbene Creek;
- Moona Moona Creek;
- Currarong Creek;
- Berrara Creek
- Callala Creek; and
- Swan Lake

Role:

1. To assist the Council in the development and implementation of a Flood Study, Floodplain Risk Management Study and Floodplain Risk Management Plan for the areas listed under 'Purpose' (see above).
2. To assist the Council monitoring and assessing the effectiveness of the management plans during and after their implementation.
3. To assist the Council providing input into known flood behaviour as part of the Flood Study; and
4. Facilitate broader community consultation and participation in floodplain risk management through informing and liaising with member community groups.

MINUTES OF THE CENTRAL FLOODPLAIN RISK MANAGEMENT COMMITTEE

Meeting Date: Friday, 8 April 2022

Location: Email Meeting

The following members participated:

Clr Patricia White

Clr Evan Christen

Mr Richard Carpenter

Mr Zachariah Cleary

Mrs Janis Natt

Mr Michael Roberts - Manager - Environmental Services

Apologies / Leave of Absence

Nil.

Confirmation of the Minutes

RESOLVED (By consent)

That the Minutes of the Central Floodplain Risk Management Committee held on Wednesday 11 August 2021 be confirmed.

CARRIED

Declarations of Interest

Nil.

PRESENTATIONS

CFM22.1 Presentation - Purpose of the FRMC and NSW Government Flood Program – Department of Planning and Environment.

**HPERM Ref:
D22/115785**

The presentation prepared by Nathan Pomfret - Environmental, Energy & Science - Department of Planning and Environment was circulated to members of the Central Floodplain Risk Management Committee for consideration.

- Council has 13 adopted Flood Studies and 12 adopted Floodplain Risk Management (FRM) Plans which identify risk and management options across the Shoalhaven. The plans are being

progressively implemented across the Shoalhaven in a prioritised manner.

- The NSW Floodplain Development Manual (2005) is currently under review and on public exhibition until 4 April 2022. The reviewed name is the NSW Flood Risk Management Manual.
- Flood Prone Land Policy – primary objective is to reduce the impact of flooding and flood liability on individual owners and occupiers of flood prone property, and to reduce private and public losses from floods utilising ecologically positive methods, where possible.

CFM22.2 St Georges Basin Flood Study - Cardno**HPERM Ref:
D22/117621**

The presentation prepared by David Whyte – Cardno was circulated to members of the Central Floodplain Risk Management Committee for consideration. The topics covered in the presentation were:

1. Background on the Flood Study process and Study Objectives
2. Model Development – hydrological and hydraulic models
3. Design Event Modelling
4. Results and Impacts of Flooding
5. Next Steps – public exhibition and community consultation, complete the Final Flood Study based on feedback, complete the Floodplain Risk Management Study and Plan including assessment of available flood mitigation options

REPORTS

CFM22.3 Update on Filling the Current Central FRMC vacancy**HPERM Ref:
D22/101345****Recommendation**

That Council:

1. Receive this report for information; and
2. Endorse the appointment of Mr David Reynolds to the Central FRMC.

RECOMMENDATION (By consent)

That Council:

1. Receive this report for information; and
2. Endorse the appointment of Mr David Reynolds to the Central FRMC.

CARRIED

CFM22.4 St Georges Basin Floodplain Risk Management Study and Plan Update**HPERM Ref:
D22/87436****Recommendation**

That Council:

1. Receive the draft St Georges Basin Flood Study report for information; and

2. Endorse the commencement of public exhibition and community engagement for the Draft Flood Study.

RECOMMENDATION (By consent)

That Council:

1. Receive the draft St Georges Basin Flood Study report for information; and
2. Endorse the commencement of public exhibition and community engagement for the Draft Flood Study.

CARRIED

CFM22.5 General Update on Flood Projects**HPERM Ref:**
D22/87945**Recommendation (Item to be determined under delegated authority)**

The Committee receive the General Update on Flood Projects report for information.

RESOLVED (By consent)

The Committee receive the General Update on Flood Projects report for information.

CARRIED

There being no further business, the meeting concluded.

CFM22.7 Notification of Council Resolution - Central Floodplain Risk Management Committee Re-establishment

HPERM Ref: D22/446018

Department: Business Assurance & Risk
Approver: Michael Roberts, Manager - Environmental Services

Attachments: 1. Terms of Reference - North/Central/Southern Floodplain Risk Management Committee [↓](#)

Reason for Report

Advise of Council's resolution in relation to the new members and re-establishment of the Central Floodplain Risk Management Committee.

Recommendation (Item to be determined under delegated authority)

That the Central Floodplain Risk Management Committee receive the Notification of Council Resolution – Central Floodplain Risk Management Committee Re-establishment report for information.

Options

1. As recommended.

Implications: The membership structure as resolved by Council is adopted for the period to 30 September 2023.

2. Propose a different membership arrangement.

Implications: Should the Central Floodplain Risk Management Committee wish to make an alternative recommendation in relation to membership, this would need to be reported to Council for consideration/endorsement.

Background

Each year, Council reaffirms all Committees for the next 12 months - Council has the option to: reaffirm Committees; make any change to the membership, purpose, delegation, quorum, and the number of meetings required for those Committees; or disband Committees.

This report is provided to inform the Group members of the resolution of the Council. Should the Group wish to make any changes to the above, a recommendation to Council will be required to that effect.

At the Ordinary meeting on 26 September 2022 Council resolved as follows:

<u>Meetings per year</u> – As required Commencement time – 4pm	Quorum – Three (provided that a minimum of one (1) Councillor as the Chair or Acting chair and two community representatives are present)
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	Terms of Reference: POL22/28 – Amended 1 August 2022 (59951E)
<p>Purpose</p> <p>The principal objective of the Central Floodplain Risk Management Committee is to assist Shoalhaven City Council in the development and implementation of one or more floodplain risk management plans for the central area of the Council. This will need to be in accordance with the NSW Floodplain Development Manual. The central area applies to the following catchments:</p> <ul style="list-style-type: none"> • St Georges Basin (includes Sussex Inlet); • Jervis Bay; • Currambene Creek; • Moona Moona Creek; • Currarong Creek; • Berrara Creek • Callala Creek; and • Swan Lake 	
<p>Role of the Committee</p> <p>a) To assist the Council in the development and implementation of a Flood Study, Floodplain Risk Management Study and Floodplain Risk Management Plan for the areas listed under 'Purpose' (see above).</p> <p>b) To assist the Council monitoring and assessing the effectiveness of the management plans during and after their implementation.</p> <p>c) To assist the Council providing input into known flood behaviour as part of the Flood Study; and</p> <p>d) Facilitate broader community consultation and participation in floodplain risk management through informing and liaising with member community groups.</p>	
Delegation – NIL	
Chairperson – Appointed by Council	
<p>2022-2023 Councillor / Staff Membership</p> <p>Clr - Chairperson</p> <p>All other Councillors (Non-voting members)</p> <p>CEO or nominee</p> <p>Note: Any non-voting Councillor in attendance at any of the above Committees may act as an alternate voting member in circumstances where achievement of a quorum is required.</p>	
<p>Community/Organisational Representatives</p> <p>Community representatives (including a maximum of five (5) local community representatives, one (1) youth representative between ages 16 and 30, and one (1) indigenous representative)</p> <p>Relevant government agency representatives (Non-voting)</p>	

CARRIED

Policy Implications

Any non-voting Councillor in attendance at the Central Floodplain Risk Management Committee meetings may act as an alternate voting member in circumstances where achievement of a quorum is required.

CFM22.7

Terms of Reference

Northern / Central / Southern Floodplain Risk Management Committees

CFM22.7 - Attachmen

Adoption Date:	20/07/2020
Amendment Date:	06/10/2020, 01/08/2022, 26/09/2022
Minute Number:	MIN20.479, MIN20.736, MIN22.509, MIN22.673
Review Date:	01/12/2024
Directorate:	City Development
Record Number:	POL22/28

Northern Floodplain Risk Management Committee

1. Purpose

The principal objective of the Northern Floodplain Risk Management Committee is to assist Shoalhaven City Council in the development and implementation of one or more Floodplain Risk Management Study and Floodplain Risk Management Plan for the northern area of the Council. This will need to be in accordance with the NSW Floodplain Development Manual. The northern area applies to the following catchments:

- Lower Shoalhaven River
- Crookhaven River
- Kangaroo River
- Broughton Creek
- Bomaderry Creek
- Nowra and Browns Creek
- Lake Wollumboola

2. Interpretation

For the purpose of this document:

Member means a member of the committee

Committee means Northern Floodplain Risk Management Committee

Council means Shoalhaven City Council

Chairperson / Chair means the chairpersons of the Committee

Elected members means the elected Councillors of Shoalhaven City Council

3. Status of the Committee

The Committee provides non-binding advice to Council for consideration.

4. Role of the Committee

- a) To assist the Council in the development and implementation of a Flood Study, Floodplain Risk Management Study and Floodplain Risk Management Plan for the areas listed under 'Purpose' (see above).
- b) To assist the Council monitoring and assessing the effectiveness of the management plans during and after their implementation.

- c) To assist the Council by providing input into known flood behaviour as part of the Flood Study; and
- d) Facilitate broader community consultation and participation in floodplain risk management through informing and liaising with member community groups.

5. Delegations

Advisory committees may make recommendations to Council on all matters within the role as outlined above. These recommendations are submitted via the minutes of each meeting to Council for consideration.

Substantial issues and recommendations (possibly including expenditure) raised by the advisory committee will be reported to Council by a separate report from the Manager – Environmental Services.

The committee does not have the power to incur expenditure, or the power to bind Council.

1.

6. Membership

The Committee will be chaired by a Councillor, elected by Council. The committee is expected to act in accordance with the Role of the Committee as defined above in Section 4. The Committee will comprise the following:

- Appointed Chair (Councillor)
- Elected members of Council
- Chief Executive Officer or nominee
- Community representatives
- New South Wales State Emergency Services (NSW SES) representatives
- Department of Planning and Environment (DPE) representatives
- Local Aboriginal Land Council (LALC) representatives
- Other relevant government agency representatives

Councillors Representatives

Council appoints one (1) Councillor to be the voting Chair of the Committee. All other Councillors are welcome to attend meetings of the Committee as observers and contribute to discussions but are not entitled to vote.

Note: Any non-voting Councillor in attendance at a meeting may act as an alternate voting member in circumstances where achievement of a quorum is required.

If no Councillors are appointed as members, the Chief Executive Officer or nominee represents the elected member to chair the meeting.

Local Representatives

Following an expression of interest process, the Chief Executive Officer appoints a maximum of five (5) local community representatives, one (1) youth representative between ages 16 and 30, and one (1) indigenous representative, that meet the following criteria:

- A broad interest, knowledge and understanding of floodplain management and the areas within the committee's jurisdiction.
- A commitment to floodplain management in the nominated Council area; and
- Local resident or business person living or working in or near a flood prone area.

Local community representatives have voting rights.

Community Member Appointments:

- Nominations should be advertised throughout the community via an Expression of Interest (EOI) process.
- Appointments to the Committee will be for a three (3) year term with a set commencement and finish date. Vacancies which are filled during the committee's term will have the same finish date.
- Vacancies will be advertised locally via media and Council communication networks.
- Council will manage the application process; and
- An assessment panel consisting of a Council staff member (Manager – Environmental Services), the Chairperson of the Committee and one (1) suitably qualified independent representative will assess the applications and make recommendations for appointments to Council. Each member of the assessment panel will vote on recommendations with a majority ruling.

Council Officers

Council officers attend meetings to provide specialist professional advice in engineering, strategic planning, development assessment and environmental management. Council officers do not have voting rights.

Government Agencies

The Chief Executive Officer (or nominee) invites a range of State Government agencies to nominate representatives.

The nominated agency representatives provide advice in relation to their functions and areas of expertise, however, are non-voting members.

Chair and Deputy Chair

Council appoints one (1) Councillor to be the Chair of the Committee.
In the absence of the nominated Chair at a particular meeting, the members elect a Chair for that meeting.

Terms of Office

The term of the Chair will be one (1) year which will be reviewed annually in September. Councillors continue as members of the Committee until the next Local Government election, or until the Committee is disbanded or completes its purpose in accordance with these Terms of Reference.

7. Committee Meetings

Agenda

The agenda will be developed by the Director - City Development with support from the Manager - Environmental Services in view of the prevailing issues. Councillors and members can contribute to the agenda by requesting a report on a particular issue four (4) weeks prior to the meeting, subject to approval of the Chair and the Director- City Development.

Quorum

Three (3) provided that a minimum of one (1) Councillor as chair or acting chair with voting rights and two (2) community representatives are present. If a quorum is not present within 30 minutes of the scheduled commencement time, the meeting lapses.

Voting

It is expected that the committee, and any working group, develop recommendations by consensus. If voting is required, the Chair has a casting vote. Any votes against will be recorded in the minutes.

Meeting Schedule

In general, meeting frequency should be conducted on an as required basis.

Minutes

The Committee provides advice to the Council for consideration. The Committee's advice is posted on the Council website with minutes reported to the elected Council. Following consideration of the advice from the Committee, any resolution determined by Council, will be posted on the Council website.

Confidentiality And Privacy

Members may have contact with confidential or personal information retained by Council. If so, members are required to maintain the security of any confidential or personal information and not access, use, or remove any information, unless the member is authorised to do so.

Communication

2. In relation to the communication functions of the Committee, the following applies:

- Members of the Committee are not permitted to speak to the media as Council representatives of the Committee unless approved by the Chairperson.
- Where approval has been given by the Chairperson, views and opinions expressed are those of the Committee and not of Shoalhaven City Council.
- Where endorsement is required from Shoalhaven City Council, approval must be sought through the formal processes; and
- The Chair of the Committee is the point of contact for communication between Committee members and Council staff.

8. Code of Conduct

All members of the Committee are required to observe the provisions of Council's Code of Conduct and any other policy or requirement applicable to the proper functioning of the Committee.

A breach of the Code of Conduct may lead to the member being expelled from the Committee.

9. Document Control

These Terms of Reference are reviewed at the commencement of each term of Council. Amendments to these Terms of Reference are to be reported to Council for approval. A version history (footnote on front page) is included if amendments have been approved.

Central Floodplain Risk Management Committee

1. Purpose

The principal objective of the Central Floodplain Risk Management Committee is to assist Shoalhaven City Council in the development and implementation of one or more Floodplain Risk Management Study and Floodplain Risk Management Plan for the central area of the Council. This will need to be in accordance with the NSW Floodplain Development Manual. The central area applies to the following catchments:

- St Georges Basin (includes Sussex inlet)
- Jervis Bay
- Currambene Creek
- Moona Moona Creek
- Currarong Creek
- Berrara Creek
- Callala Creek
- Swan Lake

2. Interpretation

For the purpose of this document:

Member means a member of the committee

Committee means Central Floodplain Risk Management Committee

Council means Shoalhaven City Council

Chairperson / Chair means the chairpersons of the Committee

Elected members means the elected Councillors of Shoalhaven City Council

3. Status of the Committee

The Committee provides non-binding advice to Council for consideration.

4. Role of the Committee

- a) To assist the Council in the development and implementation of a Flood Study, Floodplain Risk Management Study and Floodplain Risk Management Plan for the areas listed under 'Purpose' (see above).

- b) To assist the Council monitoring and assessing the effectiveness of the management plans during and after their implementation.
- c) To assist the Council providing input into known flood behaviour as part of the Flood Study; and
- d) Facilitate broader community consultation and participation in floodplain risk management through informing and liaising with member community groups.

5. Delegations

Advisory committees may make recommendations to Council on all matters within the role as outlined above. These recommendations are submitted via the minutes of each meeting to Council for consideration.

Substantial issues and recommendations (possibly including expenditure) raised by the advisory committee will be reported to Council by a separate report from the Manager – Environmental Services.

The committee do not have the power to incur expenditure, or the power to bind Council.

6. Membership

The Committee will be chaired by a Councillor, elected by Council. The committee is expected to act in accordance with the Role of the Committee as defined above in Section 4. The Committee will comprise the following:

- Appointed Chair (Councillor)
- Elected members of Council
- Chief Executive Officer or nominee
- Community representatives
- New South Wales State Emergency Services (NSW SES) representatives
- Department of Planning and Environment (DPE) representatives
- Local Aboriginal Land Council (LALC) representatives
- Other relevant government agency representatives

Councillors Representatives

Council appoints one (1) Councillor to be the voting Chair of the Committee. All other Councillors are welcome to attend meetings of the Committee as observers and contribute to discussions but are not entitled to vote.

Note: Any non-voting Councillor in attendance at a meeting may act as an alternate voting member in circumstances where achievement of a quorum is required.

If no Councillors are appointed as members, the Chief Executive Officer or nominee represents the elected member to chair the meeting.

Local Representatives

Following an expression of interest process, the Chief Executive Officer appoints a maximum of five (5) local community representatives, one (1) youth representative between ages 16 and 30, and one (1) Indigenous representative, that meet the following criteria:

- A broad interest, knowledge and understanding of floodplain management and the areas within the committee's jurisdiction.
- A commitment to floodplain management in the nominated Council area; and
- Local resident or business person living or working in or near a flood prone area.

Local community representatives have voting rights.

Community Member Appointments:

- Nominations should be advertised throughout the community via an Expression of Interest (EOI) process.
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Council Officers

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Government Agencies

The Chief Executive Officer (or nominee) invites a range of State Government agencies to nominate representatives.

The nominated agency representatives provide advice in relation to their functions and areas of expertise, however, are non-voting members.

Chair and Deputy Chair

Council appoints one (1) Councillor to be the Chair of the Committee. In the absence of the nominated Chair at a particular meeting, the meeting elects a Chair of the meeting.

Terms of Office

The term of the Chair will be one (1) year which will be reviewed annually in September. Councillors continue as members of the Committee until the next Local Government election, or until the Committee is disbanded or completes its purpose in accordance with these Terms of Reference.

7. Committee Meeting**Agenda**

The agenda will be developed by the Director - City Development with support from the Section Manager Environmental Services in view of the prevailing issues. Councillors and members can contribute to the agenda by requesting a report on a particular issue four (4) weeks prior to the meeting, subject to approval of the Chair and the Director - City Development.

Quorum

Three (3) provided that a minimum of one (1) Councillor as chair or acting chair with voting rights and two (2) community representative are present. If a quorum is not present within 30 minutes of the scheduled commencement time, the meeting lapses.

Voting

It is expected that the committee, and any working group to develop recommendations by consensus. If voting is required, the Chair has a casting vote. Any votes against will be recorded in the minutes.

Meeting Schedule

In general, meeting frequency should be conducted on an as required basis.

Minutes

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Confidentiality And Privacy

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personal information and not access, use, or remove any information, unless the member is authorised to do so.

Communication

3. In relation to the communication functions of Committee, the following applies:
 - Members of the Committee are not permitted to speak to the media as Council representatives of the Committee unless approved by the Chairperson.
 - Where approval has been given by the Chairperson, views and opinions expressed are those of the Committee and not of Shoalhaven City Council.
 - Where endorsement is required from Shoalhaven City Council, approval must be sought through the formal processes; and
 - The Chair of the Committee is the point of contact for communication between Committee members and Council staff.

8. Code of Conduct

All members of the Committee are required to observe the provisions of Council's Code of Conduct and any other policy or requirement applicable to the proper functioning of the Committee.

A breach of the Code of Conduct may lead to the member being expelled from the Committee.

9. Document Control

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Southern Floodplain Risk Management Committee

1. Purpose

The principal objective of the Southern Floodplain Risk Management Committee is to assist Shoalhaven City Council in the development and implementation of one or more Floodplain Risk Management Study and Floodplain Risk Management Plan for the southern area of the Council. This will need to be in accordance with the NSW Floodplain Development Manual. The southern area applies to the following catchments:

- Lake Conjola
- Narrawallee
- Mollymook
- Ulladulla
- Burrill Lake
- Clyde River
- Lake Tabourie
- Willinga Lake

2. Interpretation

For the purpose of this document:

Member means a member of the committee

Committee means Southern Floodplain Risk Management Committee

Council means Shoalhaven City Council

Chairperson / Chair means the chairpersons of the Committee

Elected members means the elected Councillors of Shoalhaven City Council

3. Status of the Committee

The Committee provides non-binding advice to Council for consideration.

4. Role of the Committee

- a) To assist the Council in the development and implementation of a Flood Study, Floodplain Risk Management Study and Floodplain Risk Management Plan for the areas listed under 'Purpose' (see above).

- b) To assist the Council monitoring and assessing the effectiveness of the management plans during and after their implementation.
- c) To assist the Council by providing input into known flood behaviour as part of the Flood Study; and
- d) Facilitate broader community consultation and participation in floodplain risk management through informing and liaising with member community groups.

5. Delegations

Advisory committees may make recommendations to Council on all matters within the role as outlined above. These recommendations are submitted via the minutes of each meeting to Council for consideration.

Substantial issues and recommendations (possibly including expenditure) raised by the advisory committee will be reported to Council by a separate report from the Manager – Environmental Services.

The committee do not have the power to incur expenditure, or the power to bind Council.

6. Membership

The Committee will be chaired by a Councillor, elected by Council. The committee is expected to act in accordance with the Role of the Committee as defined above in Section 4. The Committee will comprise the following:

- Appointed Chair (Councillor)
- Elected members of Council
- Chief Executive Officer or nominee
- Community representatives
- New South Wales State Emergency Services (NSW SES) representatives
- Department of Planning and Environment (DPE) representatives
- Local Aboriginal Land Council (LALC) representatives
- Other relevant government agency representatives.

Councillors Representatives

Council appoints one (1) Councillor to be the voting Chair of the Committee. All other Councillors are welcome to attend meetings of the Committee as observers and contribute to discussions but are not entitled to vote.

Note: Any non-voting Councillor in attendance at a meeting may act as an alternate voting member in circumstances where achievement of a quorum is required.

If no Councillors are appointed as members, the Chief Executive Officer or nominee represents the elected member to chair the meeting.

Local Representatives

Following an expression of interest process, the Chief Executive Officer appoints a maximum of five (5) local community representatives, one (1) youth representative between ages 16 and 30, and one (1) Indigenous representative, that meet the following criteria:

- A broad interest, knowledge and understanding of floodplain management and the areas within the committee's jurisdiction.
- A commitment to floodplain management in the nominated Council area; and
- Local resident or business person living or working in or near a flood prone area.

Local community representatives have voting rights.

Community Member Appointments:

- Nominations should be advertised throughout the community via an Expression of Interest (EOI) process.
- Appointments to the Committee will be for a three (3) year term with a set commencement and finish date. Vacancies which are filled during the committee's term will have the same finish date.
- Vacancies will be advertised locally via media and Council communication networks.
- Council will manage the application process; and
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Council officers attend meetings to provide specialist professional advice in engineering, strategic planning, development assessment and environmental management. Council officers do not have voting rights.

Government Agencies

The Chief Executive Officer (or nominee) invites a range of State Government agencies to nominate representatives.

The nominated agency representatives provide advice in relation to their functions and areas of expertise, however, are non-voting members.

Chair and Deputy Chair

Council appoints one (1) Councillor to be the Chair of the Committee. In the absence of the nominated Chair at a particular meeting, the meeting elects a Chair of the meeting.

Terms of Office

The term of the Chair will be one (1) year which will be reviewed annually in September. Councillors continue as members of the Committee until the next Local Government election, or until the Committee is disbanded or completes its purpose in accordance with these Terms of Reference.

7. Committee Meetings

Agenda

The agenda will be developed by the Director - City Development with support from the Manager - Environmental Services in view of the prevailing issues. Councillors and members can contribute to the agenda by requesting a report on a particular issue four (4) weeks prior to the meeting, subject to approval of the Chair and the Director - City Development.

Quorum

Three (3) provided that a minimum of one (1) Councillor as chair or acting chair with voting rights and two (2) community representatives are present. If a quorum is not present within 30 minutes of the scheduled commencement time, the meeting lapses.

Voting

It is expected that the committee, and any working group, develop recommendations by consensus. If voting is required, the Chair has a casting vote. Any votes against will be recorded in the minutes.

Meeting Schedule

In general, meeting frequency should be conducted on an as required basis.

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Confidentiality And Privacy

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Communication

4. In relation to the communication functions of Committee, the following applies:
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 - Where endorsement is required from Shoalhaven City Council, approval must be sought through the formal processes; and
 - The Chair of the Committee is the point of contact for communication between Committee members and Council staff.

8. Code of Conduct

All members of the Committee are required to observe the provisions of Council's Code of Conduct and any other policy or requirement applicable to the proper functioning of the Committee.

A breach of the Code of Conduct may lead to the member being expelled from the Committee.

9. Document Control

These Terms of Reference are reviewed at the commencement of each term of Council. Amendments to these Terms of Reference are to be reported to Council for approval. A version history (footnote on front page) is included if amendments have been approved.

CFM22.8 St Georges Basin Final Flood Study

HPERM Ref: D22/466871

Department: Environmental Services

Approver: James Ruprai, Director - City Development

Attachments: 1. Draft Policy - Flood Planning Level - St Georges Basin Floodplain [↓](#)

Reason for Report

To provide the Central Floodplain Risk Management Committee (FRMC) with an update on the outcomes of the draft St Georges Basin Flood Study public exhibition and community consultation phase and seek endorsement from the FRMC for adoption of the St Georges Basin Flood Study and associated Flood Planning Level for the St Georges Basin Floodplain Policy.

Recommendation

The Committee:

1. Receive the final St Georges Basin Flood Study (Cardno, 2022) report and Flood Planning Level for the St Georges Basin Floodplain Policy for information; and
2. Endorse the adoption of the St Georges Basin Flood Study (Cardno, 2022) and Flood Planning Level for the St Georges Basin Floodplain Policy.

Options

1. That the Committee:
 - a. Receive the final St Georges Basin Flood Study (Cardno, 2022) report and Flood Planning Level for the St Georges Basin Floodplain Policy for information; and
 - b. Endorse the adoption of the St Georges Basin Flood Study (Cardno, 2022) and Flood Planning Level for the St Georges Basin Floodplain Policy.

Implications: Nil.

2. The Committee could choose to provide an alternative recommendation for consideration by Council.

Implications: This option could delay the progress of the project, result in additional project costs, prevent the completion of the Flood Study and/or delay the commencement of the Floodplain Risk Management Study & Plan Review phase and prevent the utilisation of updated flood intelligence for flood planning purposes.

Background

The study area comprises St Georges Basin, the estuary area, Sussex Inlet, and upstream residential areas along the tributary creeks of this system. The entire catchment covers an area of approximately 358 square kilometres with approximately 10% of the catchment area comprising St Georges Basin (hereafter the Basin). The catchment area of the Basin contains several creeks including Pats Creek, Home Creek, Wandandian Creek, Tomerong /

Cockrow Creek, Cow Creek, Tullarwalla Creek and Worrowing Creek. The Basin connects to the ocean through the Sussex Inlet Channel and there are no recorded periods of closure of the Basin's entrance.

The objective of this study is to improve understanding of flood behaviour and impacts, and proactively inform management of flood risk in the study area in consideration of contemporaneous information and current best practice. The study will also provide a sound technical basis for any further studies.

The previous Floodplain Risk Management Study and Plan (FRMS&P) for St Georges Basin was completed in 2013. A review was recommended as per the NSW Floodplain Development Manual (NSW Department of Planning and Environment (DPE), 2005). It is noted that the Australian Rainfall and Runoff (ARR) Guidelines were updated in 2019 and this resulted in several changes to input parameters for design event flood modelling. These changes included Bureau of Meteorology design rainfall depths and ARR rainfall losses and design temporal patterns, in addition to significant advancements in computing power and modelling techniques. Hence, the St Georges Basin FRMS&P update will produce updated contemporary flood intelligence that utilises industry best practice guidelines.

The study outputs will inform decision making for investing in the floodplain, managing flood risk through prevention, preparedness, response and recovery activities, and informing and educating the community on existing and future flood risk and response to floods.

Funding was approved by DPE for this study in October 2017 and Cardno was engaged to prepare the St Georges Basin FRMS&P update in June 2018.

Public Exhibition and Community Consultation

The first round of community consultation was undertaken between November 2018 and February 2019. A project Get Involved website was published by Council to inform the community about this project. The website was developed to provide the community with detailed information about the study and gather information. The website was updated throughout the project to provide relevant information at each stage of the study.

Council received endorsement from the FRMC in April 2022 to undertake public exhibition and community consultation of the draft St Georges Basin Flood Study (Cardno, 2022).

The aim of the public exhibition and community consultation phase was for Council to seek feedback from the community regarding the draft St Georges Basin Flood Study such that comments could be considered prior to finalisation of the Flood Study. Furthermore, Council requested input regarding specific flood mitigation options to be considered as part of the upcoming FRMS&P Review phase.

The public exhibition and community consultation was held over a five-week period from 6 June to 8 July 2022. The following community engagement was undertaken:

- Media release to inform the community of the public exhibition and community consultation period.
- Notification of the public exhibition and community consultation period in the In Your Neighbourhood Community Newsletter and on Council social media pages.
- Notification of Community Consultative Boards (CCBs) and community groups of the public exhibition and community consultation period.
- WIN News interview.
- Mail out to property owners within the study area, which comprise flood prone land and/or may experience flood isolation or flood evacuation difficulties during extreme flood events. This letter provided a link to the project Get Involved website (3,805 letters were disseminated).

- Get Involved webpage, including the following:
 - A Summary Report of the St Georges Basin Flood Study (Cardno, 2022).
 - St Georges Basin Flood Study (Cardno, 2022) draft report.
 - A Video Presentation that discusses the Flood Study development and key outcomes.
 - Link to an online Community Survey.
 - St Georges Basin Flood Study Fact Sheet.
 - Option to “Ask a Question”.
 - NSW State Emergency Service (NSW SES) FloodSafe brochure for St Georges Basin and Sussex Inlet. These FloodSafe brochures provide useful information on what to do when flooding is likely, how to stay informed during a flood event, flood evacuation information and contact details for emergency services.
- Hard copies of the Flood Study reports were made available at Council for viewing.
- General enquiries via phone calls and community members visiting the Nowra Administration Building throughout the community consultation period.
- No drop-in sessions were held due to uncertainties relating to the COVID-19 pandemic environment at the time.

The following lists some key statistics from the Get Involved website following the community engagement period:

- 319 total page visits (8.4% of total mail outs to property owners).
- 1 new registration for project updates.
- 32 surveys completed (0.8% of total mail outs to property owners).
- 5 questions asked using the online “Ask a Question” option.
- 21 participants viewed the community engagement video.
- 32 participants downloaded a document, including:
 - 24 downloads of the Summary Report for the St Georges Basin Flood Study.
 - 12 downloads of the NSW SES Sussex Inlet FloodSafe Guide.
 - 10 downloads of St Georges Basin Flood Study Fact Sheet.
 - 4 downloads of the NSW SES St Georges Basin FloodSafe Guide.

The general theme of phone calls to Council during the consultation period were predominantly associated with potential impacts on insurance and property values, vegetation maintenance requests, concerns regarding local stormwater management issues and suggestions for flood mitigation measures.

St Georges Basin Flood Study Feedback from Community Consultation and Amendments to Final Flood Study Report

Below is a summary of the themes of community feedback from the draft St Georges Basin Flood Study community consultation phase. Details on how these will be addressed by Council are also noted in *italics*.

Most of the feedback was associated with suggested mitigation measures to be considered during the FRMS&P Review. This feedback is summarised separately later in this report.

- Concerns regarding local stormwater drainage issues in road corridors and private property – *Not applicable to Flood Study phase. These details were provided to the City Services Directorate of Council to investigate.*
- Proposed dredging of Sussex Inlet Channel – *Not applicable to Flood Study phase. Dredging of Sussex Inlet Channel to be investigated as part of the St Georges Basin and Sussex Inlet Coastal Management Program and St Georges Basin Floodplain Risk Management Study and Plan Review.*
- Community feedback on their experience with floods – *No specific feedback on Flood Study phase provided.*
- Concerns regarding implications on flood insurance – *Not applicable to Flood Study phase. The insurance industry utilise their own flood modelling to identify flood prone land and determine insurance premiums. The extent of flood prone land is also similar to that identified in the St Georges Basin Floodplain Risk Management Study & Plan – Climate Change Assessment (WMAwater, 2013).*
- Positive feedback on the St Georges Basin Flood Study.
- Feedback on potentially removing existing vegetation and sediment in natural waterways – *Not applicable to Flood Study phase. However, the potential benefits of some targeted vegetation and/or sediment removal on flood behaviour (level, velocity, hazard etc) can be investigated as part of the St Georges Basin FRMS&P Review.*
- Proposed mitigation measures such as channel diversions, levees, waterway erosion due to boat wake and a break wall at the Sussex Inlet Channel entrance – *Not applicable to Flood Study phase. These mitigation measures can be investigated as part of the St Georges Basin and Sussex Inlet Coastal Management Program (break wall at the Sussex Inlet Channel entrance and boat wake) and St Georges Basin FRMS&P Review (channel diversions and levees).*
- Concerns regarding increased runoff from new developments and the potential implications on flooding – *The St Georges Basin Flood Study has calculated flows based on all existing urban development. Council's Development Control Plan (DCP) requires new developments to provide on-site detention to reduce post-development peak flows to pre-development levels. Therefore, proposed development must mitigate any increased flows from intensification of impervious surfaces, and this prevents adverse flood impacts. No changes to Flood Study considered necessary.*
- Feedback on caravan park Flood Emergency Management Plan and Flood Evacuation Capability Assessment requirements included in Council's Development Control Plan - *Not applicable to Flood Study phase. Council's flood-specific DCP chapters are planned to be reviewed and updated within the next year and this can be investigated further as part of that process.*
- Feedback on a community desire to install more flood depth markers in Sussex Inlet - *Not applicable to Flood Study phase. However, Council has requested feedback from the NSW SES on the need for further gauges to assist with flood evacuation. Any further flood depth markers that are deemed necessary can be installed separately to the St Georges Basin Flood Study and FRMS&P Review.*
- Flood evacuation centres. Section 11.5 of the report identifies locations that are suitable for use as evacuation centres or assembly areas dependent on the scale of the event. The Appendix J mapping legends labels these locations as "evacuation centres". It was noted that the mapping should list these locations as being an

“evacuation centre or assembly area” rather than “evacuation centre” – *This has been updated in the final Flood Study report.*

The below amendments have been made to the final *St Georges Basin Flood Study (Cardno, 2022)* report. These changes are a result of community feedback and final Council review comments. As can be seen, only minor changes have been made to the draft Flood Study report exhibited after the community consultation phase.

- The report has been updated to be labelled as “St Georges Basin Flood Study” rather than “St Georges Basin Floodplain Risk Management Study and Plan” as it will be a standalone Flood Study report. This change occurs on the front cover, document control page, headers, executive summary, and introduction sections.
- Report updated to final revision.
- Section 11.1 (Impacts of Flooding). Additional text as follows was added to identify that the Table 11-1 information and the following sub-sections are based on a database of actual and assumed floor levels. *“The number of buildings with predicted overfloor flooding for each design flood event has been calculated based on a database of actual surveyed floor levels which has been supplemented with some assumed floor levels based on building type for buildings where the actual floor level was unknown at the time of this Flood Study preparation. The number of buildings with predicted overfloor flooding for each design flood event can be updated as part of the Floodplain Risk Management Study & Plan following the completion of additional floor level survey.”*
- Appendix J mapping. Section 11.5 of the report identifies locations that are suitable for use as evacuation centres or assembly areas dependent on the scale of the event. The Appendix J mapping legends labels these locations as “evacuation centres”. The legend on Appendix J mapping has been updated from “Evacuation Centre” to “Evacuation Centre or Assembly Area”.
- Minor amendments to the list of Abbreviations.

The Summary Report for the St Georges Basin Flood Study (Cardno, 2022) has been updated as per the same comments listed above for the *St Georges Basin Flood Study (Cardno, 2022)*. It is noted that the Summary Report for the St Georges Basin Flood Study was prepared for the public exhibition and community consultation phase only and is not intended to be adopted by Council.

A link to the final St Georges Basin Flood Study (Cardno, 2022) report will be provided with the FRMC meeting agenda.

Flood Planning Level for the St Georges Basin Floodplain Policy

The St Georges Basin Flood Study (Cardno, 2022) has now been completed which allows Council to move onto the FRMS&P Review phase. Further details on the delivery of this FRMS&P Review are provided in this report.

The Flood Study provides updated contemporary flood intelligence based on industry best practice guidelines and technology and will provide a sound technical basis for the FRMS&P Review.

It is recommended that the 2050 and 2100 scenario Flood Planning Levels from the St Georges Basin Floodplain Risk Management Study & Plan – Climate Change Assessment (WMAwater, 2013) continue to be used until the St Georges Basin FRMS&P Review has been completed. The adopted FRMS&P (WMAwater, 2013) is considered to be the best available information in relation to assessing **flood risk** within the catchment until the completion and adoption of the FRMS&P Review. This is consistent with guidance from DPE.

Other information from the St Georges Basin Flood Study (Cardno, 2022) is considered suitable for use following adoption. This comprises hazard and hydraulic category, flood velocities and flood levels. The adoption of the Flood Study will also allow Council to make the flood model files available for developers undertaking flood impact assessments in accordance with the DCP requirements.

Therefore, a hybrid approach is recommended in which the St Georges Basin Flood Study (Cardno, 2022) is adopted, in addition to a new Flood Planning Level for the St Georges Basin Floodplain Policy. When the St Georges Basin FRMS&P Review has been completed it can be adopted in full, and the Flood Planning Level for the St Georges Basin Policy will be rescinded.

The proposed Flood Planning Level for the St Georges Basin Floodplain Policy will be provided as a link with the FRMC meeting agenda.

It is noted that Council currently has a similar policy for Flood Planning Levels in the Lower Shoalhaven River Floodplain.

St Georges Basin Floodplain Risk Management Study & Plan Review Delivery

As noted at the previous FRMC meeting, Council received a final extension to the DPE funding term completion date for this project. The project funding term completion date is 21 November 2022.

There have been ongoing challenges associated with the delivery of the St Georges Basin FRMS&P project. Whilst there were challenges with the scope of works from the original grant, *Australian Rainfall and Runoff Guidelines (2019)* implementation and COVID-19 pandemic, a key issue has been the performance of the consultant. The consultant has struggled to retain staff (project managers and flood modellers) throughout the project which has resulted in frequent immobilisation time for new project staff, impacting their ability to deliver in accordance with project milestones. Furthermore, the consultant's project manager and technical lead left Cardno around the time of the community consultation phase. This has resulted in further delays to update the Flood Study to a final report.

The key impact of these challenges is associated with the ability for the consultant to complete the St Georges Basin FRMS&P Review within the DPE funding term. This means that any work completed after 21 November 2022 would need to be fully funded by Council.

Council has considered a number of options to complete the St Georges Basin FRMS&P Review. The outcome from this process was that Cardno have been released from their contract and Council have requested further DPE grant funding as part of the DPE 2022/23 Flood Program to complete the St Georges Basin FRMS&P Review phase. The outcomes from the new DPE grant funding request should be known later this year. Council applied for a variation to the current DPE grant to exclude the FRMS&P phase, including associated funding, and finalise the grant upon the completion of the Flood Study.

This approach will allow for a fresh start in 2023 following a new procurement process. The costs to complete the FRMS&P Review would be 2/3 funded by DPE (assuming Council is successful with the grant application), the increased timeframe will allow a quality FRMS&P Review to be produced, and increased confidence within Council and the community of the outcome.

Feedback on Flood Mitigation Options from Community Engagement Phase

As part of the community engagement phase, Council requested input regarding specific flood mitigation options to be considered as part of the upcoming St Georges Basin FRMS&P Review.

Whilst not applicable to the Flood Study completion, the feedback received is provided below for information:

- Dredging of Sussex Inlet Channel.
- Dredging of Tomerong Creek.
- Entrance training infrastructure for the Sussex Inlet Channel.
- Road raising in Basin View and Sanctuary Point area to create flood free evacuation routes.
- Detention basins and increased wetland storage volume in Tullarwalla area.
- Removal of some vegetation and sediment in waterways.
- Levee along Tomerong Creek to protect The Park Drive area at Sanctuary Point.
- Flood free evacuation route from Erowal Bay.
- New flood depth markers at Sussex Inlet.
- Following the community consultation period feedback was provided on a desire to consider voluntary land purchase options for The Park Drive and Mountain Street area in Sanctuary Point.

A number of preliminary mitigation options have also been developed by Cardno and Council prior to the community consultation phase. These were included in the community consultation video and are provided below for information.

- Flood Modification:
 - Larmer Avenue bridge relief structure.
 - Levees along lower Tomerong Creek at Sanctuary Point.
 - Increase size of diversion pipe from Tomerong Creek to oval channel.
 - The Park Drive and Mountain Street cumulative fill strategy / house raising.
 - The Park Drive voluntary house purchase and provide designated flowpath and/or The Park Drive road raising and bigger culverts.
 - Fairview Crescent levee.
 - Sussex Inlet cumulative fill strategy / house raising.
 - Investigate Sussex Inlet Channel modification/improvement.
 - Consider modification to Basin outlet control.
- Emergency Management:
 - Provide gated flood free access roads from Erowal Bay and Wrights Beach.
 - Wool Road and Larmer Ave Road raising.
 - Sussex Inlet Road and Springs Road raising.
 - Jacobs Drive road raising (in combination with Sussex Inlet fill strategy).
 - The Park Drive road raising (in combination with Park Drive and Mountain Street cumulative fill strategy).
 - Other evacuation route road raising.
 - Flood Education to Improve Flood Awareness and Preparedness.
- Planning and Property:

- Voluntary house raising, house purchase or land swap.
- Foreshore areas house raising.
- The Park Drive, Sanctuary Point voluntary purchase/house raising.
- Sussex Inlet cumulative fill strategy/house raising.
- Review flood planning levels for future development.
- Strategic designated cumulative fill policy for future development.
- Rezoning high risk locations.

The feasibility of potential mitigation measures, along with preliminary environmental due diligence will be completed for all potential options prior to further assessment in the St Georges Basin FRMS&P Review.

Council welcomes any suggestions from the FRMC on potential mitigation measures to be considered in the upcoming FRMSP Review. Further engagement with the FRMC and community will be held when the St Georges Basin FRMS&P Review commences.

Financial Implications

The St Georges Basin Flood Study is 2/3 funded by DPE and 1/3 funded by Council. This funding has been approved under the NSW State Government 'Floodplain Management Program' on a 2:1 basis.

The St Georges Basin Flood Study milestone has been completed and all DPE grant funding paid to Council. As noted earlier in this report, Cardno have been released from their contract following the completion of the Flood Study and Council have requested further DPE grant funding as part of the DPE 2022/23 Flood Program to complete the St Georges Basin FRMS&P Review phase. The outcomes from the new DPE grant funding request should be known later this year.

The existing DPE grant funding has been acquitted.

This approach will allow for a fresh start in 2023, including an updated budget. The costs to complete the FRMS&P Review would be 2/3 funded by DPE (assuming Council is successful with the grant application), the increased timeframe will allow a quality FRMS&P Review to be produced and increased confidence within Council and the community of the outcome.

Policy Implications

As noted earlier in this report, it is recommended that the St Georges Basin Flood Study (Cardno, 2022) is adopted in addition to a new Flood Planning Level for the St Georges Basin Floodplain Policy (link provided with the agenda). When the St Georges Basin FRMS&P Review has been completed it can be adopted in full and the proposed Flood Planning Level for the St Georges Basin Policy will be rescinded.

It is noted that Council currently has a similar policy for Flood Planning Levels in the Lower Shoalhaven River Floodplain.

All flood information completed in the St Georges Basin Flood Study will be provided to the NSW SES.

Flood Planning Level for the St Georges Basin Floodplain

DRAFT

Adoption Date:	[Click here to enter date]
Amendment Date:	
Minute Number:	[Click here to enter Minute number]
Review Date:	
Directorate:	City Development
Record Number:	POL22/201

Flood Planning Levels for the St Georges Basin Floodplain

1. Purpose

To set standards for the determination of Flood Planning Levels for development on the St Georges Basin Floodplain.

2. Statement

Background Information:

- The *St Georges Basin Floodplain Risk Management Study & Plan – Climate Change Assessment (WMAwater, 2013)*, determined 1% Annual Exceedance Probability (AEP) flood levels and Flood Planning Levels for the St Georges Basin floodplain.
- The Flood Planning Area as determined in the *St Georges Basin Flood Study (Cardno, 2022)* covers some locations not modelled in the *St Georges Basin Floodplain Risk Management Study & Plan – Climate Change Assessment (WMAwater, 2013)*.
- Following the completion and adoption of the St Georges Basin Flood Study and Review of the St Georges Basin Floodplain Risk Management Study & Plan, this policy may be superseded and should then be updated or repealed. Flood Planning Levels for the St Georges Basin floodplain would then be determined from the outcomes of the Review of the St Georges Basin Floodplain Risk Management Study & Plan.

3. Provisions

Council has adopted the following recommendations in relation to the St Georges Basin Floodplain:

- a) All future development only be approved at the Flood Planning Levels derived from the *St Georges Basin Floodplain Risk Management Study & Plan – Climate Change Assessment (WMAwater, 2013)*, thereby assisting Council in satisfying its obligations under the NSW Floodplain Development Manual 2005.
- b) All future development for locations outside the Flood Planning Area determined from the *St Georges Basin Floodplain Risk Management Study & Plan – Climate Change Assessment (WMAwater, 2013)*, but included in the Flood Planning Area as determined from the *St Georges Basin Flood Study (Cardno, 2022)*, shall be approved at the Flood Planning Level derived from the *St Georges Basin Flood Study (Cardno, 2022)*.

4. Implementation

This policy is to be implemented by the City Development Flood Planning Levels (= minimum floor levels) for individual areas that are set by Council during the Floodplain Risk Management Study & Plan processes.

Enquiries in relation to determining minimum floor levels for development on individual properties within the affected area should be referred to the Floodplain Management unit of Council's City Development directorate. An on-line flood certificate request can be made from Council's website.

www.shoalhaven.nsw.gov.au

Flood Planning Levels for the St Georges Basin Floodplain

5. Review

This Policy will be reviewed by the Shoalhaven City Council's City Development (Floodplain Management unit) within one year of the election of every new Council or following the adoption of a new Floodplain Risk Management Study and Plan for the St Georges Basin floodplain. All information contained in the policy will be verified against the most current flood information available from Flood Studies, Floodplain Risk Management Studies, and Plans.

DRAFT

CFM22.8 - Attachment 1

CFM22.9 General Update on Flood Projects

HPERM Ref: D22/466872

Department: Environmental Services

Approver: James Ruprai, Director - City Development

Reason for Report

To provide the Central Floodplain Risk Management Committee (FRMC) with an update on various flood related projects in the Central FRMC region.

Recommendation

The Committee receive the General Update on Flood Projects report for information.

Options

1. The Committee receive the General Update on Flood Projects report for information.

Implications: Nil.

2. The Committee could choose to provide an alternative recommendation for consideration by Council.

Implications: Unknown.

FRMC Terms of Reference

The Terms of Reference for the Northern, Central and Southern Floodplain Risk Management Committee policy POL22/28 have recently been reviewed. The policy includes some minor amendments to the number of local representatives, with an increase from a maximum of 4 to 5 local community representatives. The policy allows a maximum of five (5) local community representatives, one (1) youth representative between ages 16 and 30, and one (1) Indigenous representative.

Each of the Northern, Central and Southern committees have local representative vacancies and Council will look to undertake an Expression of Interest process in the new year to backfill current committee vacancies.

DPE Grant Funding

Council has applied for grant funding through the 2022-23 NSW Department of Planning and Environment (DPE) Floodplain Management Program grants round. Grant funding applications were submitted for the following projects:

- St Georges Basin Floodplain Risk Management Study & Plan Review.
- Lower Shoalhaven River Floodplain Risk Management Study & Plan Review.
- Broughton Creek Flood Study.
- Review of Tabourie Lake Floodplain Risk Management Study and Plan and Climate Change Adaptation Study.

The outcomes from these grant funding applications are expected to be known later this year. One of these projects is included in the Central FRMC region. Technical project briefs will be prepared as soon as DPE funding has been successfully obtained. These technical briefs will be shared with the FRMC for comment prior to commencing the procurement process.

Federal Grant Funding

Council has received grant funding through the Federal Government's Preparing Australian Communities – Local Stream Program. This program provides funding for projects that improve the resilience of communities associated with large-scale natural hazards (including bushfire, flood and tropical cyclones). This program pays 100% of eligible project expenditure for non-infrastructure projects. The following flood investigations are included in the Shoalhaven Flood Preparation and Emergency Response for Community Resilience project:

- Lower Shoalhaven River & St Georges Basin Catchment Flood Evacuation Capability Assessment and Planning – Focusing on Greenwell Point, Orient Point and parts of Culburra Beach, Sussex Inlet and rural properties within these floodplains.
- Scoping study for an Intermittently Closed and Open Lakes and Lagoons (ICOLLS) Catchment Flash Flood Warning Network – Covering Lake Conjola, Burrill Lake and Lake Tabourie.
- Clyde River Flood Study and Floodplain Risk Management Study & Plan.
- Willinga Lake Flood Study and Floodplain Risk Management Study & Plan.
- Floodplain Project Officer – Temporary full-time position for two years.

Technical briefs are currently being prepared for these projects, along with recruitment for the temporary Floodplain Project Officer, to assist with the delivery of these projects.

Resilience NSW Grant Funding

Council has applied for grant funding through Resilience NSW to complete targeted floor level survey across the Shoalhaven LGA. The Lower Shoalhaven River, St Georges Basin, Lake Conjola, Burrill Lake and Tabourie Lake catchments are all high priority catchments for floor level survey. This would allow Council to update the existing floor level survey database for use in the St Georges Basin Floodplain Risk Management Study & Plan Review when assessing the flood risk within the catchment.

St Georges Basin Flood Forecast Model

As noted at the April 2022 FRMC meeting, Council engaged a consultant to develop a flood forecast model using the WaterRIDE software for the St Georges Basin (and Lower Shoalhaven River) floodplain. These flood forecast models are now complete.

This model includes all the design event results for the full range of events modelled in the St Georges Basin Flood Study (20% AEP to PMF) and allow a surface to be interpolated from the library of flood layers based on a predicted or actual flood level at the Island Point Road and Sussex Inlet water level gauge locations.

This software allows roads and floor levels to be included, so when a surface is interpolated based on a predicted flood level, Council has access to flood depth, level, hazard, which roads would be inundated, and which floors would be inundated to assist with flood intelligence and evacuation.

This model will assist Council's Flood Engineers to provide flood intelligence during St Georges Basin flood events. The models will be provided to the NSW SES.



Figure 1 Road Inundation at Sussex Inlet in 1% AEP Event ('green' is flood free, 'yellow' is potentially inundated but to less than 0.3m deep and 'red' is inundated to a depth greater than 0.3m)

CFM22.9