GAWLER RIVER FLOODPLAIN MANAGEMENT AUTHORITY
266 Seacombe Road, Seacliff Park, SA 5049
P: 0407 717 368
E: davidehitchcock@bigpond.com
W: www.gawler.sa.gov.au/grfma

Dear Member,

NOTICE OF MEETING

Notice is hereby given pursuant to Clause 6 of the Charter that a meeting for the GRFMA Board has been called for:

DATE: **Thursday, 11 February 2021**

TIME: **9:45am**

PLACE: **Light Regional Council**
93 Main Street, Kapunda SA 5373

David E Hitchcock

EXECUTIVE OFFICER

AGENDA

GAWLER RIVER FLOODPLAIN MANAGEMENT AUTHORITY BOARD

ORDINARY MEETING

9:45am Thursday, 10 December 2020

Light Regional Council
93 Main Street, Kapunda SA 5373

1. Meeting of the Board

1.1 Welcome by the GRFMA Chairperson
1.2 Present (please sign the Attendance Register)
1.3 Apologies
1.4 Appointment of Observers
1.5 Declarations of Interest

2. Confirmation of Minutes

2.1 GRFMA Ordinary Meeting Minutes 10/12/20…… Page 4
2.2 GRFMA Ordinary Meeting Confidential Minutes 10/12/2020…. Page 12
2.3 Actions on Previous Resolutions…….…… Page 13
2.4 Matters Arising from the Minutes

3. Questions on Notice

Nil

4. Motions on Notice

Nil

5. Presentations

Nil

6. Audit Committee

The February 2021 GRFMA Audit Committee meeting has been deferred to March 2021 to coordinate consideration of the GRFMA 2021/2022 Draft Budget prior to the proposed GRFMA Special Meeting (Budget considerations).

7. Technical Assessment Panel

Nil meetings.

8. Reports

8.1 GRFMA Strategic Management Plan ……..…….Page 15
8.2 GRFMA Charter Review 2 ……. Page 32
8.3 Stormwater Management Plan ……..……...…….. Page 33
8.4 Gawler River Flood Mitigation ……..…….. Page 35
8.5 Financial Report ……. Page 38
8.6 Bruce Eastick North Para Flood Mitigation Dam – Repairs ……. Page 48
8.7 Bruce Eastick North Para Flood Mitigation Dam …… Page 57
Safety Emergency Plan
8.8 Inquiry into the Stormwater Management Authority……..... Page 65

9. Correspondence

Nil

10. Confidential

10.1 GRFMA Executive Officer Review (Interim) ……..... Page 80

11. Urgent Matters Without Notice

12. Next Meeting

Date and Time:

Thursday 15 April 2021 at 9:45am

Host:

Adelaide Hills Council

13. Closure

Agenda Item: 2.1

Committee: Board

Meeting Date: 11 February 2021

Title: Minutes of the Gawler River Floodplain Management Authority Board meeting 10/12/2020

Recommendation:

That the Minutes of the Gawler River Floodplain Management Authority Board meeting held 10/12/2020 be confirmed as a true and accurate record of that meeting.

Refer attachment.

MINUTES

GAWLER RIVER FLOODPLAIN MANAGEMENT AUTHORITY BOARD

9:45am Thursday 10 December 2020
City of Playford – Civic Centre, 10 Playford Boulevard, Elizabeth

1. Meeting of the Board

1.1 Welcome by the GRFMA Chairperson

Mr Ian Baldwin formally welcomed Board Members, Deputy Board Members, Observers and the Executive Officer and opened the 122nd meeting of the Board.

1.2 Present

- Mr Ian Baldwin, Independent Board Member, Chair
- Cr Terry-Anne Keen, Adelaide Plains Council, Board Member
- Mr James Miller, Adelaide Plains Council, Board Member
- Mr Ashley Curtis, Adelaide Hills Council, Deputy Board Member
- Mayor Bim Lange, The Barossa Council, Board Member
- Mr Gary Mavrinac, The Barossa Council, Board Member
- Cr Paul Koch, Town of Gawler, Board Member
- Mr Sam Dilena, Town of Gawler, Board Member
- Mr Greg Pattinson, City of Playford, Board Member
- Cr Clint Marsh,City of Playford, Deputy Board Member
- Mr Andrew Philpott, Light Regional Council, Deputy Board Member
- Mr David Hitchcock, Executive Officer

1.3 Apologies

- Cr Malcolm Herrmann, Adelaide Hills Council, Board Member
- Cr William Close, Light Regional Council, Board Member
- Mr Brian Carr, Light Regional Council, Board member
- Cr Peter Rentoulis,City of Playford, Board Member
- Cr John Lush, Adelaide Plains Council,Deputy Board Member
- Cr Russell Johnstone, Barossa Council, Deputy Board member

1.4 Appointment of Observers

GRB 20/81 Observers
Moved: Mr S Dilena
Seconded: Cr P Koch

That Mayor Karen Redman and Mr Henry Inat , Town of Gawler, be appointed as Observers.

CARRIED UNANIMOUSLY

1.5 Declarations of Interest

Nil

2. Confirmation of Minutes

2.1 GRFMA Ordinary Meeting Minutes

GB20/82 GRFMA Ordinary Meeting Minutes
Moved: Mr A Philpott
Seconded: Mr G Mavrinac

That the minutes of the Gawler River Floodplain Management Authority Board meeting, as amended, held on 15/10/2020 be confirmed as a true and correct record of that meeting.

CARRIED UNANIMOUSLY

It was noted that Cr John Lush was an apology for the 15/10/2020 GRFMA meeting.

2.2 GRFMA Confidential Meeting Minutes

GB20/83 GRFMA Confidential Meeting Minutes
Moved: Cr T Keen
Seconded: Cr P Koch

That the Confidential Minutes of the Gawler River Floodplain Management Authority Board Confidential meeting held 15/10/2020 be confirmed as a true and accurate record of that meeting.

CARRIED UNANIMOUSLY

2.3 Actions on Previous Resolutions

Nil

3. Questions on Notice

Nil

4. Motions on Notice

Nil

5. Presentations

Ms Cate Hart, Department of Environment and Water, attended at 11:35am to discuss the recent State Budget flood mitigation funding initiatives.

6. Audit Committee

6.1 Audit Committee Meeting Minutes

GB20/84 Audit Committee Meeting Minutes
Moved: Mr G Mavrinac
Seconded: Mr G Pattinson

That the minutes of the Gawler River Floodplain Management Authority Audit Committee meeting held 25/11/2020 be received.

CARRIED UNANIMOUSLY

7. Technical Assessment Panel

Nil meetings.

8. Reports

8.1 GRFMA Schedule of Meetings

GB20/85 GRFMA Schedule of Meetings
Moved: Mr G Pattinson
Seconded: Mr S Dilena

That the Schedule of ordinary GRFMA Board meetings for 2020 be:

- *Thursday 11 February 2021, Light Regional Council;*
- *Thursday 15 April 2021, Adelaide Hills Council;*
- *Thursday 17 June 2021, The Barossa Council;*
- *Thursday 19 August 2021, Town of Gawler;*
- *Thursday 21 October 2021, Adelaide Plains Council; and*
- *Thursday 9 December 2021, City of Playford.*

CARRIED UNANIMOUSLY

8.2 GRFMA Charter Review 2

GB20/86 GRFMA Charter Review 2
Moved: Mr J Miller
Seconded: Mr S Dilena

That the GRFMA:

1. *Receives the report.*
2. *Endorses expenditure of up to $10,000 to enable the Charter Review 2 Working Group to engage resources to compile and evaluate required data so that the Group can further understand and validate its deliberations regarding identified funding principles and formula to be applied in any proposed funding model.*
3. *Requests the Working Group to complete its deliberations expeditiously with endorsement to seek support of the GRFMA Chair to call a Special Meeting, if required, to consider the recommendation of the preferred funding model, and to enable further consultation with constituent councils.*

CARRIED UNANIMOUSLY

8.3 Stormwater Management Plan

GB20/87 Stormwater Management Plan
Moved: Cr T Keen
Seconded: Cr P Koch

That the GRFMA:

1. *Endorses the draft Gawler River Stormwater Management Plan (SMP) scope as amended; and*
2. *Receives a report at the next available GRFMA meeting for endorsement to proceed with the SMP, determination of preferred provider and submission of application to the SMA for supporting funding.*

CARRIED UNANIMOUSLY

The SMP scope amendment related to request for inclusion in SMP document (page 5, table 1): in use of more examples further to land developers (ie other industries) to reflect the diversity of industry and interest in the area. Examples to use being Olive Growers, Produce packers etc.

8.4 Northern Floodway Project

GB20/88 Northern Floodway Project
Moved: Mr J Miller
Seconded: Mr S Dilena

That the Agenda Item 8.4 lay on the table, pending discussion at 11:30am with Ms Cate Hart.

CARRIED UNANIMOUSLY

8.5 Financial Report and Budget Review 1

GB20/89 Financial Report and Budget Review 1
Moved: Mr G Pattinson
Seconded: Mr A Philpott

That the GRFMA:

1. *Receives the financial report as at 30 November 2020 showing a balance of total funds available $198,911.00; and*
2. *Adopts the 2020/2021 Budget Review 1 Documents October 2020 and the variances contained as its amended and current budget for the period ended 30 June 2021.*

CARRIED UNANIMOUSLY

8.6 Bruce Eastick North Para Flood Mitigation Dam – Dam Safety Emergency Plan

GB20/90 Bruce Eastick North Para Flood Mitigation Dam – Dam Safety Emergency Plan
Moved: Mr G Pattinson
Seconded: Mr S Dilena

That the GRFMA

1. *Adopts the Bruce Eastick North Para Flood Mitigation Dam Safety Emergency Plan; and*
2. *Receives a further report addressing the next level detail required to implement the plan and relevant operations.*

CARRIED

11:01am Mayor Bim Lange left the meeting.

11:02am Mayor Bim Lange returned to the meeting.

8.7 GRFMA Annual Business Plan Progress Report

GB20/91 GRFMA Annual Business Plan Progress Report
Moved: Mr G Pattinson
Seconded: Cr T Keen

That the GRFMA receives the progress report of the GRFMA Business Plan 2020-2021 as amended (being removal of reference to South Para Reservoir works no longer current or applicable).

CARRIED UNANIMOUSLY

8.8 GRFMA Executive Officer Review (Interim)

11:03am the Executive Officer David Hitchcock left the meeting.

GB 20/92 GRFMA Executive Officer Review (Interim)
Moved: Mr J Miller
Seconded: Cr T Keen

That the GRFMA:

1. *Requests the Chair, Mr I Baldwin, to facilitate an interim review of the Executive Officer service provision as per Consultancy Agreement (GRFMA Contract: 1/20).*
2. *Be presented with a report on findings of the Review to the February 2021 GRFMA Board meeting.*

CARRIED UNANIMOUSLY

11:06am the Executive Officer David Hitchcock returned to the meeting.

9. Correspondence

9.1 Adelaide Plains Council Letter – Cost Contributions Review Report, Southfront – Request from GRFMA to Access Confidential Report

GB20/93 Adelaide Plains Council Letter – Cost Contributions Review Report, Southfront – Request from GRFMA to Access Confidential Report
Moved: Mayor Lange
Seconded: Mr G Pattinson

That the correspondence be noted.

CARRIED UNANIMOUSLY

10. Confidential

10.1 Bruce Eastick North Para Flood Mitigation Dam Repairs

GB20/94 Bruce Eastick North Para Flood Mitigation Dam Repairs
Moved: Mr G Mavrinac
Seconded: Mr G Pattinson

That pursuant to Section 90(2) of the Local Government Act 1999, an Order is made that the public be excluded from attendance at the meeting, with the exception of:

- *Executive Officer; and*
- *Observers*

in order to consider in confidence agenda item 10.1 Quotations repairs Bruce Eastick North Para Flood Mitigation Dam pursuant to Section 90(3)(d) of the Local Government Act 1999 on the basis that:

d)

i) commercial information of a confidential nature (not being a trade secret) the disclosure of which could reasonably be expected to prejudice the commercial position of the person who supplied the information, or to confer a commercial advantage on a third party; and

(ii) would, on balance, be contrary to the public interest.

This matter is confidential because the information herein provides commercial terms and conditions for provision of services to repairs to the Bruce Eastick North Para Flood Mitigation Dam and would provide advantage to a third party for negotiations regarding the service.

On the basis of this information, the principle that meetings of the GRFMA Board should be conducted in a place open to the public has been outweighed in this instance: the Board consider it necessary to consider this matter in confidence.

CARRIED UNANIMOUSLY

11:14am confidential session commenced.

GB20/95 Bruce Eastick North Para Flood Mitigation Dam Repairs
Kept in confidence

The meeting considered quotations for replacement of both High Level Outlet Pipe (HLOP) safety covers and welding repairs to Dam crest safety hand railing.

GB20/96 Bruce Eastick North Para Flood Mitigation Dam Repairs
Moved: Mr A Philpott
Seconded: Cr P Koch

That pursuant to Section 90(2) and Section 91(7) of the Local Government Act 1999, the GRFMA orders that the following aspects of item 10.1 Quotations repairs Bruce Eastick North Para Flood Mitigation Dam be kept confidential in accordance with the GRFMA Boards reasons to deal with this item in confidence pursuant to section 90(3) (d) of the Local Government Act 1999:

- *Report for Item 10.1*
- *Attachments for item 10.1*

This order shall operate until terms of agreement are reached with the preferred contractor. This order will be reviewed within twelve (12) months in accordance with the Act.

CARRIED UNANIMOUSLY

11:21am the confidential session concluded.

11:22am the meeting adjourned for a short break.

11:35am the meeting reconvened.

8.4 Northern Floodway Project *(discussion reconvened)*

The Chair welcomed Mayor Karen Redman and CEO Mr Henry Inat of Town of Gawler, noted attendance of Mr D Musolino in the Gallery and introduced Ms Cate Hart, Executive Director, Department of Water and Environment.

Ms Hart presented on the recent State Budget flood mitigation funding initiatives and undertook subsequent discussion regarding further funding opportunities and collaboration with GRFMA and Constituent Councils.

GB20/97 Northern Floodway Project
Moved: Cr P Koch
Seconded: Cr T Keen

That the Agenda Item 8.4 be removed from the table.

CARRIED UNANIMOUSLY

GB20/98 Northern Floodway Project
Moved: Cr T Keen
Seconded: Mr G Mavrinac

That the GRFMA receives a verbal update regarding the proposed Gawler River Flood Management projects as included in the State Government Budget.

CARRIED UNANIMOUSLY

11. Urgent Matters Without Notice

Nil

12. Next Meeting

Date and Time: Thursday 11 February 2021 at 9:45am

Host: Light Regional Council

13. Closure

The Chairperson thanked members for their attendance and contributions and the City of Playford as host and wished everyone a safe and enjoyable festive season and closed the meeting at 12:24pm.

Chair _____ Date _____

Agenda Item: 2.2

Committee: Board

Meeting Date: 11 February 2021

Title: Minutes of the Gawler River Floodplain Management Authority Board Confidential meeting 10/12/2020

Recommendation:

That the Confidential Minutes of the Gawler River Floodplain Management Authority Board Confidential meeting held 10/12/2020 be confirmed as a true and accurate record of that meeting.

Refer attachment.

Agenda Item: 2.3

Committee: **Board**

Meeting Date: **11 February 2021**

Title: **Actions on Previous Resolutions**

Number	Resolution	Action
18/07	That the GRFMA: 1. Receive the report; 2. Supports proposed development of a Levee Bank Management (Gawler River Floodplain) information and guideline document by the Adelaide & Mt Lofty Ranges Natural Resources Management Board (AMLRNRMB); 3. Requests the Executive Officer to initiate a meeting with Constituent Council planning and engineering staff and AMLRNRMB staff to facilitate adoption of: a. a suitable and consistent Development Consent process (where appropriate) for applications for approval to undertake construction and maintenance of levee banks; and b. approved Best Practice Operating Procedures under the relevant Natural Resources Management Plans.	Follow up has been made to N& Y landscape Board and Green Adelaide - awaiting response. GRFMA has volunteered to participate in a pilot project for this process.
19/63	That the Executive Officer be requested to seek quotations for scanning of GRFMA records currently held at the Barossa Council	Inquiries will be made with State Records for storage.
20/74	That the GRFMA: 1. Receives the report; and 2. Endorses the GRFMA Chair and Executive Officer, with authority to co-opt other interested constituent council staff, to scope and draft a GRFMA Strategic Plan Project Brief; and 3. Receive a report on the draft Project Brief at a future GRFMA meeting.	Refer Agenda item 8.1
20/86	That the GRFMA: 1. Receives the report. 2. Endorses expenditure of up to $10,000 to enable the Charter Review 2 Working Group to engage resources to compile and evaluate required data so that the Group can further understand and validate its deliberations regarding identified funding principles and formula to be applied in any proposed funding model. 3. Requests the Working Group to complete its deliberations expeditiously with endorsement to seek support of the GRFMA Chair to call a Special Meeting, if required, to consider the recommendation of the preferred funding model, and to enable further consultation with constituent councils.	Refer Agenda Item 8.2

20/87	That the GRFMA: 1. Endorses the draft Gawler River Stormwater Management Plan (SMP) scope as amended; and 2. Receives a report at the next available GRFMA meeting for endorsement to proceed with the SMP, determination of preferred provider and submission of application to the SMA for supporting funding.	Refer Agenda Item 8.3
20/90	That the GRFMA 1. Adopts the Bruce Eastick North Para Flood Mitigation Dam Safety Emergency Plan; and 2. Receives a further report addressing the next level detail required to implement the plan and relevant operations.	Refer Agenda Item 8.7
20/92	That the GRFMA: 1. Requests the Chair, Mr I Baldwin, to facilitate an interim review of the Executive Officer service provision as per Consultancy Agreement (GRFMA Contract: 1/20); 2. Be presented with a report on findings of the Review to the February 2021 GRFMA Board meeting.	Refer Agenda Item 10.1

Agenda Item: 8.1

Committee: **Board**

Meeting Date: **11 February 2021**

Title: **Strategic Management Plan**

Recommendation:

That the Executive Officer seeks quotations from interested consultants for offer of service to provide a body of work to facilitate establishment of a GRFMA Strategic Management Plan.

The 20/12/2020 GRFMA resolution 20/74 provides:

That the GRFMA:

1. *Receives the report; and*
2. *Endorses the GRFMA Chair and Executive Officer, with authority to co-opt other interested constituent council staff, to scope and draft a GRFMA Strategic Plan Project Brief; and*
3. *Receive a report on the draft Project Brief at a future GRFMA meeting.*

In accordance with the resolution a Project Brief for scope of services to deliver a GRFMA Strategic Management plan has now been drafted.

The complete document has been formulated as a request for Quotation from interested consultants. See attached for a copy of the document.

The document has been drafted with assistance from GRFMA Chair, Mr. Ian Baldwin and Mr David Petruzzella, Senior Strategic Planner, Town of Gawler.

GRFMA Procurement and Operations Policy Extract:

9.20 Contracts exceeding $20,000 but not exceeding $100,000

9.21 Subject to the Local Government Act or any other Act or Law and these procedures, where the value or estimated value of a contract for supply of goods, the rendering of a service or the construction of work exceeds $20,000 but does not exceed $100,000, quotations in writing shall be invited so as to ensure a reasonable measure of competition, and the most advantageous quotation received, having regard to quality, suitability and other relevant considerations, shall be accepted.

9.22 The Executive Officer may approve in the case of an emergency or for any other extraordinary cause (particulars of which emergency or other cause shall be indicated in the approval) that this requirement be set aside in the particular case and may substitute alternative arrangements. All such approvals under this Clause must be reported in full to the next meeting of the Board.

9.30 Contracts not exceeding $20,000

9.31 Subject to the Local Government Act and any other Act or Law and these procedures, where the value or estimated value of a contract for the supply of goods, rendering of a service of the construction of works does not exceed $20,000, written quotations shall be obtained so as to ensure a reasonable measure of competition and the most advantageous quotation received having regard to value for money, quality, suitability and other relevant considerations, shall be accepted.

Particulars of those quotations shall be recorded appropriately.

Gawler River Floodplain Management Authority
266 Seacombe Road, Seacliff Park, SA 5049
Telephone: 0407717368 Email:
davidehitchcock@bigpond.com
Website: www.gawler.sa.gov.au/grfma

This Request for Quotation seeks submission from interested consultants for offer of service to provide a body of work to facilitate establishment of a Strategic Management Plan for the Authority .

Quotation closing date - COB XXXXX2021

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Structure of this Request for Quotes

This Request for Quotes is comprised of three sections:

- Section A – Quote Conditions
- Section B – Specifications
- Section C – Form of Quote and Schedules

Section A – Quote Conditions

1. Definitions

In this RFQ:

1.1 **Closing Date** means the time and date specified in clause 2.7, or such later time and date as may be notified in writing to Respondents by the GRFMA

1.2 **Form of Quote** means the form contained in Section C of this RFQ.

1.3 **Goods** means the goods sought to be purchased by the GRFMA pursuant to this RFQ.

1.4 **Respondent** refers to any party who responds to this RFQ.

1.5 **RFQ** means this Request for Quotes.

1.6 **Quote** means a quote submitted by a Respondent pursuant to this RFQ.

1.7 **Schedules** means the schedules contained in Section C of this RFQ.

1.8 **Services** means the services sought to be purchased by the GRFMA pursuant to this RFQ.

1.9 **Specifications** means the specifications specified in Section B of this RFQ.

2. Request for Quotes

2.1 The GRFMA seeks Quotes from Respondents for the provision of the Services.

2.2 Prices quoted are to be in a lump sum basis

2.3 All prices for the Goods/Services are to be fixed. Quoted prices must **include** GST and all applicable delivery costs, freight costs, levies, duties, taxes and charges.

2.4 Any charge not stated in the Quote will not be payable by the GRFMA.

2.5 The Respondent must submit:

2.5.1 the original Form of Quote; and

2.5.2 the completed Schedules.

2.6 Any Quote may be rejected if it does not conform with the requirements of the Specifications or this RFQ.

2.7 **Lodgement of Quotes**

Quotes may be emailed to davidehitchcock@bigpond.com, or posted to:

David Hitchcock, Executive Officer

Gawler River Floodplain Management Authority

266 Seacombe Road

SEACLIFF PARK SA 5049

2.8 This RFQ closes on the Closing Date.

2.9 Quotes received after the Closing Date will **NOT** be considered.

2.10 The GRFMA will not accept any responsibility in the event that a Quote is not received by the Closing Date.

2.11 Respondents must not use this RFQ (including any attached technical and other written information supplied by the GRFMA) for any purpose other than to prepare a Quote. This includes not copying this RFQ (including any attached technical and other written information supplied by the GRFMA) and providing a copy to any third party not involved in the preparation of a Quote.

3. Acceptance of Quote

3.1 The Respondent agrees that the Quote remains open for a minimum period of 60 days after the Closing Date.

3.2 This RFQ, together with the GRFMA's written acceptance of the Quote , constitute the contract between the GRFMA and the successful Respondent.

4. No Legal Requirement

The issue of this RFQ or any response to it does not commit, obligate or otherwise create a legal requirement on the GRFMA to purchase the Services from a Respondent.

5. GRFMA's Rights

The GRFMA reserves the right to:

5.1 amend, vary, supplement or terminate this RFQ at any time;

5.2 accept or reject any Quote, including the lowest price Quote;

5.3 negotiate with any supplier on all or any part of the Services to be supplied pursuant to this RFQ;

5.4 postpone or abandon this RFQ;

5.5 add or remove any Respondent;

5.6 accept or reject any Quotes;

5.7 accept all or part of any Quote;

5.8 negotiate or not negotiate with one or more Respondents;

5.9 discontinue negotiations with any Respondent; and

5.10 include the Respondents' names in GRFMA reports and make them public. This may include the order of Respondents on the basis of quoted price but without the specific amount quoted.

6. Quote Evaluation

In assessing Quotes, the GRFMA will have regard to, but not necessarily be limited to, the following criteria (not listed in any order of priority):

6.1 completion of the Form of Quote;

6.2 compliance with the Specifications;

6.3 warranties and guarantees on the Services;

6.4 timeframe for the provision of the Services;

6.5 demonstrated experience in completing similar projects;

6.6 referees; and

6.7 insurance.

7. Respondent's Confidential Information

7.1 Subject to clauses 7.2 and 8, the GRFMA will treat as confidential all Quotes submitted by Respondents in connection with this RFQ.

7.2 The GRFMA will not be taken to have breached any obligation to keep information provided by Respondents confidential to the extent that the information:

7.2.1 is disclosed by the GRFMA to its advisers, officers, employees or subcontractors solely in order to conduct the RFQ process or to prepare and manage any resultant agreement;

7.2.2 is disclosed to the GRFMA's internal management personnel, solely to enable effective management or auditing of the RFQ process;

7.2.3 is disclosed by the GRFMA to the responsible Minister;

7.2.4 is authorised or required by law to be disclosed; or

7.2.5 is in the public domain otherwise than due to a breach of the relevant obligations of confidentiality.

8. Governing Law

8.1 This RFQ is governed by the law in South Australia.

8.2 The parties irrevocably submit to the exclusive jurisdiction of the courts in South Australia.

9. ICAC

Respondents acknowledge that if they enter into a contract with the GRFMA they will be considered to be public officers for the purposes of the *Independent Commissioner Against Corruption Act, 2012* (SA) (**ICAC Act**) and will be obliged to comply with the ICAC Act and the Directions and Guidelines issued pursuant to the ICAC Act.

GENERAL

The Gawler River Floodplain Management Authority (GRFMA) was formed as a Regional Subsidiary under Section 43 and Schedule 2 of the Local Government Act 1999 on 22 August 2002. The Constituent Councils are the Adelaide Hills Council, The Adelaide Plains Council, The Barossa Council, The Town of Gawler, Light Regional Council, and the City of Playford.

The Charter sets down the powers, functions, safeguards, accountabilities and an operational framework and the Business Plan sets down the operational plan and financial plan to achieve agreed objectives.

The Authority has been established for the following purposes:

- to co-ordinate the construction, operation and maintenance of flood mitigation infrastructure for the Gawler River. This purpose is the core business of the Authority;
- to raise finance for the purpose of developing, managing and operating and maintaining works approved by the Board;
- to provide a forum for the discussion and consideration of topics relating to the Constituent Council's obligations and responsibilities in relation to management of flood mitigation for the Gawler River;
- upon application of one or more Constituent Councils pursuant to clause 12.4:
    - to coordinate the construction, maintenance and promotion and enhancement of the Gawler River and areas adjacent to the Gawler River as recreational open space for the adjacent communities; and
    - to enter into agreements with one or more of the Constituent Councils for the purpose of managing and developing the Gawler River.

The Authority has historically identified and pursued its strategic objectives through the three year GRFMA Business plan and the Gawler River Flood Mitigation Scheme program.

The Flood Mitigation Scheme program includes nine strategic objectives which are at various stages of completion.

Key objectives being

- Establishing a 1 in 100-year (ARI) level of protection as the protection standard that is to be pursued in the development of the Gawler River Flood Mitigation Scheme.
- Modification to the Bruce Eastick North Para Flood Mitigation Dam .
- Development of local area levees to a robust design standard with a staging plan. This includes the proposed Northern Floodway project.

The 29/1/2020 Risk Planning workshop also identified relevant risks and considerations of further strategic planning objectives.

The Authority with funding assistance from the Bushfire & Natural Hazard CRCs is also working with the University of Adelaide, and the Research Institute for Knowledge Systems to develop a resource to explore how to manage risk into the future in an integrated and dynamic approach considering different drivers and options impacting on future risk.

This project (GRUMP) will consider specific pilot studies (such as proposed Dam raise and Northern Floodway proposal) of analysis and developing a methodology for continued use of the program for integrated planning of flood mitigation actions by GRFMA.

In December 2020 the Authority reviewed its charter of operations .

Among other things the Charter now requires:

> *The Authority must prepare and adopt in consultation with the Constituent Councils a Strategic Plan for the conduct of its business which will identify the Authority's objectives over the period of the Strategic Plan and the principal activities that the Authority intends to undertake to achieve its objectives.*

As a Regional Subsidiary pursuant to Section 43 of the Local Government Act, 1999 reference to Section 122 of the Act also provides guidance on establishment of a Strategic Management Plan .

Strategic Management Plans as required under S122 of the Act provide for long-range (10 year) and mid-range (4 year) strategic planning to be undertaken .

Strategic management plans are required to consider Council's (read as GRFMA) objectives for the area over a period of at least 4 years and provide a clear indication of:

• The extent to which the council has participated with other councils, and with State and national governments, in setting public policy objectives, and the extent to which the council's objectives are related to regional, State and national objectives;

• The extent to which the council has given consideration to regional, State and national objectives and strategies which are relevant to the economic, social, physical and environmental development and management of its area; and

• The extent to which the council intends to co-ordinate with State and national governments and councils or

other regional bodies in the planning and delivery of services in which there is a common interest;

Strategic management plans should:

• Address the strategic planning issues within the area of the council, with particular reference to (and in a manner consistent with) the Planning Strategy;

• Set out the council's priorities for the implementation; and

- *Identify the principal activities that the council intends to undertake.*

Objectives of Request for Quotation.

This Request for Quotation now invites submission from consultants for offer of service to facilitate establishment of a Strategic Management Plan for the Authority.

Current strategic goals and others as identified in the process are to incorporated into the proposed Strategic Management Plan.

Objectives and strategies are to be ranked in importance and inclusion of a scorecard mechanism to aid in determining how the Authority is performing will be well regarded.

The Strategic Management Plan should also identify how the Plan will support the Charter and Annual Business Plan and the frameworks which it will work within

Key risk considerations have been identified as

- Integrity of current infrastructure - extending to management and maintenance
- Ability to invest in, design future flood mitigation infrastructure
- Emergency Management – to support community vulnerability and building resilience
- Changes to/of community expectations of management of Gawler River
- Climate change

Access to GRFMA documentation such as the GRFMA Charter, Annual Reports and the Business Plan will be provided to assist in facilitating preparation of the Plan .

Findings of the 29/1/2020 GRFMA Strategic Risks Workshop will also be available.

Methodology

Submissions are requested to :

- define and articulate
  - Process that will be undertaken to facilitate engagement and consultation with Board Members, Deputy Board Members, Constituent Councils and external stakeholders.
  - Processes to be utilised for formulation of draft documents and pathways for recommendation and adoption of the strategic plan
- Identify the time frame envisaged to undertake key elements of the proposed scope of works (Schedule 2).

The Board has placed high regard and importance on receiving proposals that articulate methodologies and innovative approaches proposed to be undertaken in delivery of a suitable plan.

Table 1 below provides an indicative process and action proposal

Table 1 Process and Actions (indicative only)

Process	Actions
Board Member Workshop	Review of achievements to date and discussion about current and future opportunities/priorities.
	Outcomes from discussions documented and presented back to Board Members.
Preliminary round of Consultation	Seek to initially gauge matters of importance with the constituent councils , relevant government agencies and community.
Generation of preliminary draft Strategic Management Plan	Utilise the information gathered to date a to generate a draft Plan.
Presentation of preliminary Draft Plan to the Board	Present preliminary draft Plan 2031 via workshop seeking discussion and feedback. Utilise this dialogue to generate a draft suitable for consultation.
Release draft document for constituent council and community consultation	Release draft Plan 2031 for a minimum six-week consultation period .
Report to GRFMA outcomes of consultation	Update the Board on outcomes of consultation.
Presentation of draft Plan 2031 to the Board for adoption	Present GRFMA Strategic Management Plan 2031 to the GRFMA Board for adoption.

Costs

An indication of costs(including expenses) and schedule of payments should be provided in the quotation.

Expenses are to be itemised as per Schedule 1 Price Schedule, page 13.

Referees or examples of similar projects undertaken

Contact details of suitable referees and or examples of similar projects undertaken are to be provided

Reporting

The provision of services will be managed by the Executive Officer. The nominated contact person is

- David Hitchcock, Executive Officer, Gawler River Floodplain Management Authority
- Email davidehitchcock@bigpond.com
- Mob 0407717368

Quotation proposal

'The consultant's Quotation proposal should include details of:

- the relevant experience and competency possessed by the consultant and other personnel who will work on the project.
- the methodology to be used in the project.
- full costs and expenses are to identify hourly rates and numbers of hours located to each task within their methodology.
- a project delivery timetable.

RETURN the following documents as your Request for Quotation submission

- Completed Section C (Pages 10 to 14 inc)- this section
- Details of relevant experience and competency possessed by the consultant and other personnel who will work on the project.
- The methodology to be used in the project. NOTE : The Board has placed high regard and importance on receiving proposals with articulate methodologies and innovative approaches proposed to be undertaken in delivery of a suitable report.
- Contact details of suitable referees and or examples of similar projects undertaken.

To davidehitchcock@bigpond.com by COB XXXXX 2021

Schedule 1 Form of Quote

I/We (**Respondent**) on

having read, understood and fully informed myself/ourselves/itself of the contents, requirements and obligations of this RFQ, hereby provide a Quote for the Goods/Services.

1.	**Name of Respondent** State in full the name(s) of the Respondent(s) and trading names ABN (if held)	
2.	**Contact Person**	
3.	**Registered Address**	
4.	**Postal Address**	
5.	**Telephone**	
7.	**Email**	

1. **Price Schedule**

Item	**$**
Engagement and consultation with Board Members, Deputy Board members, Constituent Councils and external stakeholders.	
Formulation of draft documents and pathways for recommendation and adoption of the strategic plan	
Subtotal	
Other	
TOTAL	

Schedule 2 Timeframe

Action	**Date**	**Comment**

Schedule 3 Insurance

Provide details of insurance currently held by you that would be extended to provide cover for the Services.

Insurance type	Policy no	Extent of cover		Expiry date	Name of insurer
		Per incident $A	**In aggregate $A**		
Other					

Signed by

Signature	Position
Name	Date

Agenda Item:	**8.2**
Committee:	**Board**
Meeting Date:	**11 February 2021**
Title:	**Charter Review 2**

Recommendation:

That the GRFMA notes progress of work being undertaken regarding cost sharing principles and data collation for the proposed funding model.

The 20/12/2020 GRFMA resolution 20/86 provides:

That the GRFMA:

1. *Receives the report.*
2. *Endorses expenditure of up to $10,000 to enable the Charter Review 2 Working Group to engage resources to compile and evaluate required data so that the Group can further understand and validate its deliberations regarding identified funding principles and formula to be applied in any proposed funding model.*
3. *Requests the Working Group to complete its deliberations expeditiously with endorsement to seek support of the GRFMA Chair to call a Special Meeting, if required, to consider the recommendation of the preferred funding model, and to enable further consultation with constituent councils.*

In accordance with item 1 of the resolution expressions of interests to formulate the relevant data were sought from three independent consultancies.

Two consultancies noted they were unfamiliar with the historical data required to formulate the required information and declined from providing a submission.

A fee proposal of $ 5,480 to research and establish the relevant data and modelling was received, and subsequently accepted, from Water Technologies.

Agreed funding model (cost sharing principles) principles to be considered are:

- Future Cost Avoided - Monetary value of damage avoided (by the proposed works) as identified within each council area. Calculations required to understand what these costs are.
- Water inflow - Measurable proportion of volume of water (i.e. m3/s) from each council area based on the whole of catchment (not just upstream of the Gawler River junction as per original model), excluding the area west of Port Wakefield Road.
- Waterway length - Gawler River, North Para, South Para. With consideration of order of streams e.g. Gawler River is a Seven Order Stream with North and South Para Rivers being Five or Six Order Streams. Other minor tributaries (lower than Five Order Streams) are not to be included.
- Ability to pay - Considerations in order to determine each council's ability to pay.

The body of work has now commenced, and it is envisaged the project will be completed by 12 February 2021. The Charter Review 2 Working Group will then consider the information and determine next steps to progress.

Agenda Item: 8.3

Committee: **Board**

Meeting Date: **11 February 2021**

Title: **Stormwater Management Plan**

Recommendation:

That the GRFMA:

1. **Notes the report; and**
2. **Receives a further report, at the foreshadowed March 2021 Special Meeting, regarding SMP tender submissions received and consideration of submission of application to the SMA for supporting funding.**

The 20/12/2020 GRFMA resolution 20/87 provides:

That the GRFMA:

1. *Endorses the draft Gawler River Stormwater Management Plan (SMP) scope as amended; and*
2. *Receives a report at the next available GRFMA meeting for endorsement to proceed with the SMP, determination of preferred provider and submission of application to the SMA for supporting funding.*

The procurement process for the Stormwater Management Plan has now been initiated.

The request for Tender proposal document was issued to the open market on 19 January 2021, with tenders closing on 3 March 2021.

The City of Playford are facilitating the tender process, with the Tender Assessment Panel being:

- Mr Sam Dilena (Gawler)
- Mr Greg Pattinson (Playford)
- Mr Braden Austin (Playford, Project Manager)
- Mr David Hitchcock (Executive Officer GRFMA)
- Mr Jacques Badenhorst (Procurement Specialist City of Playford)

Following closure of tenders all submissions received will be evaluated and a further report identifying the preferred tender will be provided to the GRFMA for consideration.

GRFMA Procurement and Operations Policy extract.

9.00 Tenders and Quotations

General Principles

9.01 Contracts for supply of goods, rendering of service or construction of work may only be let after complying with this Policy.

9.10 Contracts exceeding $100,000

9.11 Subject to the Local Government Act or any other Act or Law and these procedures, where the value or estimated value of a contract for the supply of goods, the rendering of a service or construction of works exceeds $100,000 tenders shall be called and the procedure be followed and in connection with the calling of such tenders shall, with all necessary adaptations, be in accordance with this policy.

9.20 Contracts exceeding $20,000 but not exceeding $100,000

9.21 Subject to the Local Government Act or any other Act or Law and these procedures, where the value or estimated value of a contract for supply of goods, the rendering of a service or the construction of work exceeds $20,000 but does not exceed $100,000, quotations in writing shall be invited so as to ensure a reasonable measure of competition, and the most advantageous quotation received, having regard to quality, suitability and other relevant considerations, shall be accepted.

9.22 The Executive Officer may approve in the case of an emergency or for any other extraordinary cause (particulars of which emergency or other cause shall be indicated in the approval) that this requirement be set aside in the particular case and may substitute alternative arrangements. All such approvals under this Clause must be reported in full to the next meeting of the Board.

9.30 Contracts not exceeding $20,000

9.31 Subject to the Local Government Act and any other Act or Law and these procedures, where the value or estimated value of a contract for the supply of goods, rendering of a service of the construction of works does not exceed $20,000, written quotations shall be obtained so as to ensure a reasonable measure of competition and the most advantageous quotation received having regard to value for money, quality, suitability and other relevant considerations, shall be accepted.

Particulars of those quotations shall be recorded appropriately.

Agenda Item: 8.4

Committee: **Board**

Meeting Date: **11 February 2021**

Title: **Gawler River Flood Mitigation**

Recommendation:

That the GRFMA:

1. **Receives the report; and**
2. **Further discusses matters relating to State Government funding for Gawler River Flood Mitigation initiatives, particularity in relation to GRFMA and local government co-contribution and ownership of any infrastructure constructed or upgraded.**

Gawler River Flood Mitigation

The 2020-21 State Government Budget has allocated $9 Million for Gawler River flood mitigation works.

Budget extract – *This initiative provides $ 9 Million over the three years 2022-23 for a range of Gawler River projects aimed at reducing flood risks across the Northern Adelaide Plains. It is envisaged that these projects will deliver new infrastructure to improve flood preparedness as well as reduce the risk and impact of flood damage to assets. The government will partner with local councils to deliver the full scope of works.*

State Government Budget Allocation:

- $9 Million over three years.
- Operating expenditure (grant).
- Delivered through the Storm Water Management Fund.
- Local government co-contribution details to be determined.
- Any infrastructure constructed or upgraded to be owned by GRFMA or constituent council.
- DEW to recruit a dedicated project manager.

Key projects and partnerships:

- Removal of trees following Hillier bushfire, $350k -$370k (Town of Gawler/Light Regional Council)
- Construction of a drainage system for Virginia, Carmelo and Park Road drain, $3.8 Mil (City of Playford).
- New control structures (Gawler West, North Para, Nuriootpa), flood warning infrastructure, flood warning levels, $1Mil (GRFMA).
- Northern Floodway early works, existing levee banks, river survey and works. $3.8 Mil (GRFMA, DEW, DIT, Landscape Boards).

A Gawler River Floodplain Management Program Steering Committee has been established by the Department for Environment and Water (DEW) to develop agreed outcomes for the Gawler River Floodplain Management Program and ensure delivery of practical actions and long-term strategies for improved flood risk management in the Gawler River catchment. The Steering Committee is subject to direction by the Chief Executive of the Department for Environment and Water (DEW) and/or the Minister for Environment and Water (MEW).

The Steering Committee will:

- Provide strategic direction and garner high-level stakeholder buy-in to develop and implement a holistic, integrated, partnership approach to flood risk mitigation and hazard management in the Gawler River catchment.
- Develop a shared vision and set of objectives to improve flood mitigation and management for the Gawler River catchment.
- Lead the development of an agreed Action Plan to deliver on the shared vision and objectives, including:
    - Identification of short-, medium- and long-term actions;
    - Identification of and advocacy for potential partnership approaches and sources of funding.
- Oversee implementation of the Program, including the agreed Action Plan.

GRFMA Chair Mr. Ian Baldwin is the GRFMA representative on the Steering Committee.

The Steering Committee will have two sub-committees:

- a Project Delivery Group to oversee the delivery of the four “no regrets” projects; and
- a Business Case Group to oversee the development of the longer term solutions for flood mitigation in the Gawler River.

The GRFMA and constituent councils have been invited to nominate relevant representation to the subgroups. It is understood DEW has placed priority in establishing the subgroups so as to initiate actions to deliver the works in a timely manner.

Following discussion with the GRFMA Chair, Mr Ian Baldwin, GRFMA representation has been identified as:

- Project Delivery Group – Mr. David Hitchcock, GRFMA Executive Officer
- Business Case Group – Mr.Ian Baldwin and Mr. David Hitchcock

In announcing the $9 Million funding the State Government clearly identified the following two key provisos:

- Local government co-contribution details to be determined.
- Any infrastructure constructed or upgraded to be owned by GRFMA or constituent council.

It is suggested the GRFMA should further discuss and consider these provisos, particularly in relation to its policy on co-contribution: and further engagement with constituent councils on how they are proposing to participate and what their policy might be on any co-contributions.

National Flood Mitigation Infrastructure Program

On the 14 January 2021, GRFMA Chair, Mr Ian Baldwin, received a telephone call from a representative of the Department for Water and Environment (DEW), seeking assistance from the GRFMA in advising of any projects that may be shovel ready and that meet guidelines for funding under the $50Million National Food Mitigation Infrastructure Fund which was then open for application.

It was noted that DEW intended to collate and prioritise all applicable SA State and Local Government applications into one single SA submission to the National Food Mitigation Infrastructure Fund program.

The program will contribute to, or pay for, the improvement or construction of flood mitigation infrastructure to support local communities mitigate their priority flood risks and reduce the impact of flood events. Applications for the program opened on 21 December 2020, and close(d) at 5pm AEST on 12 February 2021.

Following discussion by Mr. Baldwin and the GRFMA Executive officer it was decided to seek feedback from constituent council staff to understand if councils might have any suitable shovel ready projects. The view on taking this approach was to then collate any council submissions into a GRFMA application as a regional and Gawler River Catchment flood mitigation approach.

With exception of Adelaide Plains Council, responses from constituent council staff indicated that councils did not have suitable shovel ready projects to submit.

The GRFMA Executive Officer and Adelaide Plains Council management subsequently lodged a funding submission of $1.66 Mill to DEW for delivery of the Two Wells levee. The GRFMA does not have any funding contribution requirement with this submission.

It is understood successful applicants to the National Food Mitigation Infrastructure Fund will be advised in due course.

Agenda Item: 8.5

Committee: **Board**

Meeting Date: **11 February 2021**

Title: **Financial Report**

Recommendation:

That the GRFMA

1. **Receive the financial report as at 31 January 2021 showing a balance of $216,828.48 total funds available; and**
2. **Endorse holding a Special Meeting, to be scheduled in March 2021, to consider:**
   - **Budget Review 2 (BR2)**
   - **GRFMA Business Plan 2021/2022 and Draft 2021/22 Budget**

Financial Report

See attachments for the monthly reconciliations:

- ✧ Reconciliation to 31/1/2021
- ✧ Balance Sheet 31/1/2021
- ✧ Budget result to 31/1/2021

Tabled below Executive Officer Activities report.

Activity	July	Aug	Sept	Oct	Nov	Dec	Jan
To keep maintained the business office of the Authority	21	3.5	7.5	8	14.75	4.5	13.75
To prepare the Business Plan, Budgets and reports in a timely manner	2		2.5				3.75
To liaise with Councils, and Stakeholders to foster the outcomes of the Business Plan	9.5	19	10.5	5.25	15.5	4	10.5
To attend all meetings of the GRFMA, to prepare agendas, minutes and correspondence as required.	13.25	27	6	14.75	13	16.75	1.25
TOTAL	**45.75**	**49.5**	**26.5**	**28**	**43.25**	**25.25**	**29.25**

GRFMA Business Plan 2021/2022 and Draft 2021/22 Budget and BR2

Historically the GRFMA Business Plan (2021/2022) and Draft (2021/22) Budget is presented and considered at the February GRFMA meeting.

The 2020/2021 Budget Review 2 is also historically presented at the February GRFMA meeting.

It is recommended that these items be deferred to a Special Meeting at a suitable date to be determined, mid-March 2021.

The premise for this recommendation follows discussion by the GRFMA Chair and Executive Officer: noting currently there are a number of high value strategic items under consideration by the GRFMA that will have material impact on the 2021/2022 Budget and more time should be allowed to work though these issues.

Key items being:

1. GRFMA and relevant Councils are yet to determine actions in progressing works to be facilitated by the recent State Government Budget allocation of $9 Mill for Gawler River Flood Mitigation Initiatives.
2. Tenders for the proposed Gawler River Stormwater Management Plan close 3 March 2021. Following which GRFMA to consider cost of works and funding options via Storm Water Management Authority.
3. GRFMA is yet to determine how to progress the Bruce Eastick North Para Flood Mitigation Dam repairs- Baffles. LLOP. Reference Agenda item 8.6.
4. Deferring the Budget Review 2 (BR2) until March 2021 will provide a better understanding of possible budget variations that might arise from outcomes of the 11/2/2021 GRFMA meeting.

Budget Review 1 – Previously Adopted

Budget Review 1 was presented and subsequently adopted at the 10/12/2020 GRFMA meeting.

The forecast Budget Review 1 results in a projected loss of ($394,549) as at 30/6/2021.

This is calculated as:

- Total Income $197,350
- Minus total expenses $591,899
- Net loss ($394,549)

As at 30 June 2020 the 2019/2020 budget recorded a cash surplus of $73,386 which consisted of unspent funds of $25,736 from unspent Charter Review consultancy payments and $47,650 deferred repairs to Bruce Eastick Dam.

These funds have now been brought forward for the 2020/2021 financial year with the Uniform Presentation of Financial Statements showing the cash consumed.

GRFMA policy is to not fund(cash) depreciation on the Bruce Eastick North Para Flood Mitigation Damn (321,163) which effects a forecast 2020/2021 cash deficit of ($73,386).

See chart below which identifies items for the Budget Review 1 variations.

Account	Budget adopted	BR1	Variation	Detail
Gawler River Mk2 Consultancies	$55,000	$80,736 # See Below	$25,736	c
Maint Flood Mitigation Scheme Mtce contractors	$50,000	$97,650 *See Below	$47,650	Repairs to Bruce Eastick Dam.
Depreciation	$233,081	$321,163	$88,082	New valuation BE Dam

Gawler River Mk2 Consultancies

The Authority, from time to time, determines that additional modelling and analysis should be undertaken to assist the Board in considering the merits or otherwise of flood mitigation initiatives to be considered in implementation of the Gawler River Scheme Mark 2.

Additionally, external bodies (and constituent councils) periodically seek advice from the Authority on possible impacts their proposals might have on the Gawler River system and associated flood mitigation initiatives arising from implementation of the Gawler River Scheme Mark 2. Often this necessitates referral to consulting engineers to model and determine possible impacts and consequences. Capacity for this work is facilitated in the budget as $55,000.

Item	Budget $	Allocation $	Notes
GRFMA 20/21 Budget allocation	**$55,000**		Allocation for any required additional modelling and analysis of flood mitigation initiatives.
Charter Review 2	**$25,736**	$25,736	Scheduled milestone payments for Charter Review 2 consultancy payments carried over from 2019/2020
Total Budget	**$80,736**		

*Maintenance Flood Mitigation Scheme - Maintenance Contractors

Budgeted maintenance and operations of the scheme during 2020 to 2021 include:

Item	**Budget $**	**Allocation $**	**Notes**
GRFMA 20/21 Budget allocation	**$50,000**		
Dam Emergency Management Plan		Nil	EO Project Management costs in consultancy budget
Revegetation program around land associated with the Bruce Eastick North Para Flood Mitigation Dam		5,000	Stage 2
Routine Scheduled inspections of land associated with the Dam		Nil	EO inspection costs in consultancy budget
Repairs and Maintenance - New signs/Screens for LLOP and HLOP.		15,000	
Contingency for LLPO and Stilling Basin repair costs following into 2021		30,000	Repair program still to be determined
Carry over of unspent funds maintenance funds (LLPO and Stilling Basin repair)	**47,650**	47,650	Repair program still to be determined
Total Budget	**97,650**		
		97,650	Total Indicative costs

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Reconciliation Report

Gawler River Floodplain Manage Auth
266 Seacombe Road
Seacliff Park SA 5049
ABN: 12 925 534 861
Email: davidehitchcock@bigpond.com

ID No.	Date	Memo/Payee	Deposit	Withdrawal

Account: 1-1110 Bank SA Account
Date Of Bank Statement: 1/31/2021
Last Reconciled: 12/31/2020
Last Reconciled Balance: $14,013.14

Cleared Cheques

SC013121	1/31/2021	Safe Deposit fee		$5.00
		Total:	$0.00	$5.00

Cleared Deposits

CR000143	1/21/2021	Payment; Adelaide Plains Council	$21,374.65	
CR000144	1/21/2021	Payment; The Barossa Council	$15,775.70	
		Total:	$37,150.35	$0.00

Reconciliation:

AccountRight Balance On 1/31/2021:	$51,158.49
Add: Outstanding Cheques:	$0.00
SubTotal:	$51,158.49
Deduct: Outstanding Deposits:	$0.00
Expected Balance On Statement:	$51,158.49

Transaction History Report

Please advise any error or unauthorised transaction promptly to the bank

Account name	GAWLER RIVER FLOODPLAIN MANAGEMENT
Account number	010 0101 248 140
BSB	105-010
Currency	AUD
Opening balance	14,013.14CR
Transaction period from	01/01/2021 to 31/01/2021

Date	Description	Serial number	Debit	Credit	Balance
20/01/2021	SAFE DEPOSIT FEE (INC GST)		5.00		14,008.14CR
21/01/2021	Adelaide Plains Adelaide Plains Co			21,374.65	35,382.79CR
28/01/2021	The Barossa Coun 080072			15,775.70	51,158.49CR
	TOTAL		5.00	37,150.35	51,158.49CR

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Reconciliation Report

Gawler River Floodplain Manage Auth
266 Seacombe Road
Seacliff Park SA 5049
ABN: 12 925 534 861
Email: davidehitchcock@bigpond.com

ID No.	Date	Memo/Payee	Deposit	Withdrawal

Account: 1-1130 **LGFA Investment Account**
Date Of Bank Statement: 1/31/2021
Last Reconciled: 12/31/2020
Last Reconciled Balance: $165,647.82

Cleared Deposits

IE013121	1/31/2021	LGFA Interest	$42.17	
		Total:	$42.17	$0.00

Reconciliation:

AccountRight Balance On 1/31/2021:	$165,689.99
Add: Outstanding Cheques:	$0.00
SubTotal:	$165,689.99
Deduct: Outstanding Deposits:	$0.00
Expected Balance On Statement:	$165,689.99

Gawler River Floodplain Management Authority
266 Seacombe Road
Seacliff Park SA 5049

Council Deposits
Transaction Statement from 01-Jan-2021 to 31-Jan-2021 inclusive

Deal	Date	Transaction	Interest Rate	Amount	Balance
Gawler River General					
Council Dep - 24HR Mthly					
	01-01-2021	Opening Balance	0.30		$165,647.82
58319	04-01-2021	CAPITALISE INTEREST	0.30	$42.17	$165,689.99
	31-01-2021	Closing Balance	0.30	Used in Reconciliation	$165,689.99
Accrued interest for period 01-Jan-2021 to 31-Jan-2021				**$42.21**	
Total Gawler River General - Council Dep - 24HR Mthly				**$42.21**	

Summary

Gawler River Floodplain Management Authority	Accrued Interest
Gawler River General	$42.21
Grand Total	$42.21

Local Government Finance Authority
of South Australia
Suite 1205
147 Pirie Street
ADELAIDE SA 5000
Phone (08) 8223 1550 Fax (08) 8223 6085
www.lgfa.com.au
ABN: 80 189 672 209

Balance Sheet

As of January 2021

Gawler River Floodplain Manage Auth
266 Seacombe Road
Seacliff Park SA 5049
ABN: 12 925 534 861
Email: davidehitchcock@bigpond.com

Assets				
Current Assets				
Bank Accounts				
Bank SA Account	$51,158.49			
LGFA Investment Account	$165,689.99			
Total Bank Accounts		$216,848.48		
Other Current Assets				
Trade Debtors	$101,264.40			
Debtor	$53.66			
ATO Payments & Refunds	$1,613.00			
Total Other Current Assets		$102,931.06		
Total Current Assets			$319,779.54	
Non-Current Assets				
Infrastructure		$25,245,000.00		
Accum. Depr. Infrastructure		($3,786,562.50)		
Land		$477,000.00		
Access Roads		$84,000.00		
Accumulated Dep Access Rd		($8,600.00)		
Total Non-Current Assets			$22,010,837.50	
Total Assets				$22,330,617.04
Liabilities				
Current Liabilities				
GST Liabilities				
GST Collected	$19,623.70			
GST Paid	($14,211.49)			
ATO Payments & Refunds	$4,385.00			
Total GST Liabilities		$9,797.21		
Other Current Liabilities				
Accrued Expense	$36,567.00			
Total Other Current Liabilities		$36,567.00		
Total Current Liabilities			$46,364.21	
Total Liabilities				$46,364.21
Net Assets				$22,284,252.83
Equity				
Accumulated Surplus			$15,957,461.00	
Asset Revaluation Reserves			$8,681,973.10	
Retained Earnings			($2,486,350.00)	
Current Year Surplus/Deficit			$131,168.73	
Total Equity				$22,284,252.83

This report includes Year-End Adjustments.

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Profit & Loss [Budget Analysis]

July 2020 To June 2021

Gawler River Floodplain Manage Auth
266 Seacombe Road
Seacliff Park SA 5049
ABN: 12 925 534 861
Email: davidehitchcock@bigpond.com

	Selected Period	Budgeted	$ Difference
Income			
Admin of GRFMA			
Member Subscriptions	$145,935	$145,935	$0
Interest LGFA	$799	$1,000	($201)
Interest Bank SA	$2	$100	($98)
Other	$0	$15	($15)
Total Admin of GRFMA	$146,736	$147,050	($314)
Maint Flood Mit Scheme			
Council Subscriptions	$50,300	$50,300	$0
Total Maint Flood Mit Scheme	$50,300	$50,300	$0
Total Income	$197,036	$197,350	($314)
Gross Profit	$197,036	$197,350	($314)
Expenses			
Admin of GRFMA			
Executive Officer Contract	$26,190	$55,000	($28,810)
Adv, printing, stationery post	$367	$1,295	($928)
Travelling Expenses	$0	$4,000	($4,000)
Insurance PL & PI	$3,206	$6,530	($3,324)
Audit Committee	$1,300	$2,900	($1,600)
Audit Fees	$5,000	$5,500	($500)
Bank Fees	$32	$125	($93)
Legal Fees	$0	$2,200	($2,200)
Honorarium - Chairperson	$3,900	$8,500	($4,600)
Other	$2,642	$6,000	($3,358)
Total Admin of GRFMA	$42,637	$92,050	($49,413)
Gawler River Scheme Mark 2			
Consultancies	$22,206	$80,736	($58,530)
Total Gawler River Scheme Mark 2	$22,206	$80,736	($58,530)
Maint Flood Mitigation Scheme			
Maintenance Contractors	$900	$97,650	($96,750)
Rates & Levies	$124	$300	($176)
Total Maint Flood Mitigation Scheme	$1,024	$97,950	($96,926)
Depreciation			
Depreciation	$0	$321,163	($321,163)
Total Expenses	$65,867	$591,899	($526,032)
Operating Profit	$131,169	($394,549)	$525,718
Total Other Income	$0	$0	$0
Total Other Expenses	$0	$0	$0
Net Profit/(Loss)	$131,169	($394,549)	$525,718

Agenda Item: 8.6

Committee: **Board**

Meeting Date: **11 February 2021**

Title: **Bruce Eastick North Para Flood Mitigation Dam - Repairs**

Recommendation:

That the GRFMA:

1. **Accepts the offer of services from LGA Procurement, at cost $4,000 ex GST, to undertake full management of the Tender and Contract management process for Bruce Eastick North Para Flood Mitigation Dam – Repairs;**
2. **Notes LGA Procurement will facilitate subsequent Tender Evaluation & Recommendation report/s for GRFMA consideration; and**
3. **Considers likely repair costs, should a successful tender be determined, in the 2021/2022 GRFMA budget estimates considerations.**

The GRFMA has been maintaining discussion on best approaches for processes to facilitate a body of work to undertake repairs as identified in the Bruce Eastick Dam Low Level Outlet Pipe Inspection Site Inspection Report 12/03/2018 and the Bruce Eastick Dam Baffle Replacement Design Report 3/4/2020.

Refer 15/10/2020 Confidential item 10.1 for more details regarding considered actions.

To further progress work to undertake repairs, the Executive Officer has liaised with LGA Procurement on options to assist with a suitable tender process.

LGA Procurement advise they are able to undertake the full management of the Contract for the sum of $4,000 ex GST.

The proposed management services include:

Project Planning and Development Phase

1.1 Scope of GRFMA work

Tendering and Evaluation Phase

1.2.1 Issuing and management of a tender process;
1.2.2 Attendance at Tender Briefing to be conducted if required;
1.2.3 Management of the tender evaluation/s;
1.2.4 Preparation of Tender Evaluation & Recommendation report/s for the GRFMA consideration; and
1.2.5 Notifying successful and unsuccessful tenders of evaluation outcomes.

Contracting Phase

1.3.1 Negotiating with successful tenderer; and
1.3.2 Drafting contract/s for services.

Post Project Phase

1.4.1 De-briefing unsuccessful tenders as required;
1.4.2 Conducting a post-Project briefing with GRFMA; and
1.4.3 Procurement Closeout

On the basis that the GRFMA does not have in house expertise to facilitate the scope of services as offered by LGA Procurement it is considered the proposal is a suitable offer.

GRFMA 2020/2021 Budget allocations provide funds of $77,650 for works associated with the Low Level Outlet Pipe and Dam Baffle Replacement.

It is likely the full scope of repairs considered will exceed the 2020/2021 budget allocation and it is suggested that tenders (if proceeded with) be required to identify full costs and expenses with hourly rates and numbers of hours located to each repair component within their submission.

This would provide a triage approach in considering priority repairs with current 2020/2021 GRFMA budget allocation.

Should there be any outstanding repairs costs they could be then considered in the 2021/2022 GRFMA Budget deliberation. See attached for a copy of the scope of required repairs.

Maintenance Flood Mitigation Scheme - Maintenance Contractors Budget

Budgeted maintenance and operations of the scheme during 2020 to 2021 include:

Item	**Budget $**	**Allocation $**	**Notes**
GRFMA 20/21 Budget allocation	**50,000**		
Dam Emergency Management Plan		Nil	EO Project Management costs in consultancy budget
Revegetation program around land associated with the Bruce Eastick North Para Flood Mitigation Dam		5,000	Stage 2
Routine Scheduled inspections of land associated with the Dam		Nil	EO inspection costs in consultancy budget
Repairs and Maintenance - New signs/Screens for LLOP and HLOP		15,000	
Contingency for LLPO and Stilling Basin repair costs following into 2021		30,000	Repair program still to be determined
Carry over of unspent funds maintenance funds (LLPO and Stilling Basin repair)	**47,650**	47,650	Repair program still to be determined
Total Budget	**97,650**		
		97,650	Total Indicative costs

GRFMA Procurement and Operations Policy extract:

9.00 Tenders and Quotations

General Principles

9.01 Contracts for supply of goods, rendering of service or construction of work may only be let after complying with this Policy.

9.10 Contracts exceeding $100,000

9.11 Subject to the Local Government Act or any other Act or Law and these procedures, where the value or estimated value of a contract for the supply of goods, the rendering of a service or construction of works exceeds $100,000 tenders shall be called and the procedure be followed and in connection with the calling of such tenders shall, with all necessary adaptations, be in accordance with this policy.

9.20 Contracts exceeding $20,000 but not exceeding $100,000

9.21 Subject to the Local Government Act or any other Act or Law and these procedures, where the value or estimated value of a contract for supply of goods, the rendering of a service or the construction of work exceeds $20,000 but does not exceed $100,000, quotations in writing shall be invited so as to ensure a reasonable measure of competition, and the most advantageous quotation received, having regard to quality, suitability and other relevant considerations, shall be accepted.

9.22 The Executive Officer may approve in the case of an emergency or for any other extraordinary cause (particulars of which emergency or other cause shall be indicated in the approval) that this requirement be set aside in the particular case and may substitute alternative arrangements. All such approvals under this Clause must be reported in full to the next meeting of the Board.

9.30 Contracts not exceeding $20,000

9.31 Subject to the Local Government Act and any other Act or Law and these procedures, where the value or estimated value of a contract for the supply of goods, rendering of a service of the construction of works does not exceed $20,000, written quotations shall be obtained so as to ensure a reasonable measure of competition and the most advantageous quotation received having regard to value for money, quality, suitability and other relevant considerations, shall be accepted.

Particulars of those quotations shall be recorded appropriately.

Gawler River Floodplain Management Authority

Bruce Eastick North Para Flood Mitigation Dam Repair Scope

Introduction

The Gawler River Floodplain Management Authority (GRFMA) is seeking tender of services for a body of work to undertake repairs as identified in the Bruce Eastick Dam Low Level Outlet Pipe Inspection Site Inspection Report 12/03/2018 and the Bruce Eastick Dam Baffle Replacement Design Report 3/4/2020

Background

The Bruce Eastick North Para Flood Mitigation Dam (North Para Dam), constructed in 2007, is a roller compacted concrete dam located on the North Para River approximately 5 kilometres upstream of Gawler with a catchment area of 1,080 km².

The dam was designed as a dry detention basin to provide attenuation during flooding events. The dam attenuates river flows by temporarily storing floodwater, restricting flows past the dam through a single low-level outlet pipe (LLOP) and twin high-level outlet pipes (HLOP's) before overtopping the crest of the main dam and ultimately the higher secondary spillway

The dam is predominantly dry through out the year until sufficient rainfall occurs in the upstream catchment to facilitate flow of the North Para. During normal river flows, water flows into the LLOP inlet chamber via an upstream 600 mm diameter concrete pipe.

Rainfall and flows within the creeks and rivers of the Gawler River catchment, and water levels at the upstream face of the North Para Dam, are monitored in real time with telemetry by the Bureau of Meteorology (BOM).

Key Information

- Dam Capacity (Primary Spillway Crest) (ML) 9,498
- Primary Spillway Crest (m AHD) 82.5
- Secondary Spillway Crest (m AHD) 84.0
- Dam crest (m AHD) 85.0 (top of parapet wall)
- Type Roller compacted concrete
- Height (m) 30.1
- Crest Length (m) 226.0
- Primary Spillway Length 150 m long
- Secondary Spillway Length 200 m long
- Low Level Uncontrolled Outlet One 2.1 meter diameter (55.5 m AHD invert) pipe
- High level Uncontrolled Outlets Two 1.8 m (69.9 m AHD invert) pipes

In 2018 /19 the GRFMA commissioned a consultant engineer (SMEC) to undertake inspection reports on condition of selected Dam infrastructure relating to the Low Level Discharge Pipe and Inlet Chamber and Concrete Baffle Blocks in the stilling Basin.

Low Level Outlet Pipe and Inlet Chamber

The 26 metre length, 2.1 metre diameter Low Level Outlet Pipe (LLOP) is located at the base of the main dam, allowing the passage of the river base flow from the upstream to downstream sides. The LLOP is formed of a 12mm wall thickness mild steel pipe in two sections, with a bellmouth entrance. The internal face and edges of the pipe are painted with Jotun Marathon, a two-pack epoxy protective coating reinforced with flaked glass minerals.

The LLOP inlet chamber is located at the upstream face of the main dam. The inlet chamber is 2.3 metres deep and will normally be filled with water. The inlet chamber does not have an internal access ladder, and upstream access to the chamber is prevented by safety railing around its perimeter. During normal river flows, water flows into the LLOP inlet chamber via an upstream 600 mm diameter concrete pipe. During flood flows, water flows into the chamber via the top opening.

Stilling basin and baffle blocks

The stilling basin is located at the base of the main dam at its downstream side. The primary purpose of the stilling basin is to provide energy dissipation to floodwaters flowing out of the LLOP, before the water flows back into the North Para River. The secondary purpose of the stilling basin is to collect floodwaters flowing over the crest of the Main Dam.

The energy from floodwaters flowing at high velocity out of the LLOP is dissipated by twenty-two concrete baffle blocks, each two metres high by one metre square. The nine baffle blocks directly downstream of the LLOP outlet have stainless steel plates fitted to their upstream faces. During normal river flows, the water depth in the stilling basin may be approximately 1.8 to 2.0 metres. During flooding, the water depth may exceed several metres.

Summary of Findings and Recommendations of the Reports noted:

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Outlet Pipe coating

Inspection of the Low level Outlet Pipe(LLOP) revealed the following defects of the epoxy coating (inside coating) is compromised and needs patching repair as soon as practically possible:

- Bubbles formed underneath the epoxy film
- Scratches due to debris travelling through the pipe
- Total and spot failure of the epoxy at some locations leading to corrosion and pitting of base material
- Damaged epoxy at the weld line location, leading to pitting of the weld
- The thickness of the steel pipe is exposed at both upstream and downstream ends and corrosion of the base material has started.

The Dam Operation and maintenance Manual (O&M Manual) recommends using Jotun Marathon or approved equivalent as per manufacturers specifications.

However, based on the wide spread of the defects, local patching of the epoxy coating might not be time/cost effective, as such the Report encourages the principal to investigate full replacement of the epoxy coating.

Full replacement of the epoxy coating can be performed using more efficient sandblasting and coating equipment which is expected to lead to shorter execution timeframe and better quality of the epoxy coating. In this case International Interline 975 as per SA Water TS15 and Interline

982 primer was recommended. The primer will enable a more robust coating outcome. International Interline 975 is potable water approved so has no downstream water quality impacts.

Inlet Chamber Wall Concrete Delamination
Hammer impact tests on the inlet chamber surfaces proved concrete delamination around the inlet pipe which needs to be repaired to minimize reinforcement exposure to the elements. This delaminated section needs to be removed and reinstated using BASF MasterEmaco S 5400CI or similar in accordance with the product specification.

It's also recommended to patch the porous concrete surfaces and chipped corners
Damaged Handrail around inlet chamber
Handrails around the inlet chamber are damaged and/or missing and need to be reinstated. Also missing/Damaged grout underside of the base plates should be reinstated.

Damaged Concrete blocks in downstream stilling basin
Four of the existing Concrete blocks which were located at the downstream stilling basin have been dislocated due to failure of their anchorage into the concrete floor of the stilling basin.

A new design (Bruce Eastick Dam Baffle Replacement Design Report 3/4/2020) has been prepared for construction and replacement of the four baffle blocks (and subject to inspection a further one for total of five may be required)

Body of work to undertake repairs as identified in the Bruce Eastick Dam Low Level Outlet Pipe Inspection Site Inspection Report 12/03/2018 and the Bruce Eastick Dam Baffle Replacement Design Report 3/4/2020

Methodology

Access to the area must not be undertaken until the upstream water level has receded below the level of the top of the LLOP inlet chamber (57.3 m AHD).

The North Para and Dam are predominantly dry through out the year (water level below 57.3 m AHD) until sufficient rainfall occurs in the upstream catchment to facilitate flow of the North Para.

Subject to prevailing weather condition's, establishment of a suitable water barrier around the upstream entrance of the inlet chamber, may be required to provide a dry work environment so that the work can be carried out safely.

The LLOP inlet chamber, LLOP and stilling basin is to be dewatered (drained) by temporarily blocking the entrance of the 600 mm pipe into the upstream inlet chamber, placing a drop gate into the outlet of the stilling basin and then pumping out.

A suitable drop gate mechanism will be required to be manufactured by the contractor.
See appendix - As Built Drawing RCC023 for specifications of Drop gate.

The drop gate is to remain the property of the GRFMA.

The floor of the stilling basin is to be desludged (removal of shale, mud and ooze) to facilitate access to and subsequent placement/reinstatement of the concrete blocks(baffles)

Tenders should include details of how the sludge is to be removed, ie detail how the material will be collected from the stilling basin floor and then removed outside of the stilling basin.

Material removed from the stilling basin may be deposited on-site.

Defects of the Low level Outlet Pipe (LLOP) are to be rectified with full replacement of the existing epoxy coating with International Interline 975 as per SA Water TS15 and Interline 982 primer.

See appendix - As Built Drawing RCC012 and RCC022 , RCC025 for specifications of the LLOP and stilling basin.

Removal and replacement of existing internal surface coating of the lower level outlet pipe

The existing coating is to be fully removed from the internal surface of the LLOP to facilitate a clean application of the new coating of Interline 975 in accordance with SA Water TS 15 - Protection of Steelwork in Immersed Conditions.I.e

A stripe coat shall be applied by brush to all welds and edges. Application of interline 975 shall be by airless spray.

The surface is to be primed with Interline 982 to 15-25 microns (0.5-1.0 mils) dry film thickness before oxidation occurs

All surfaces to be coated shall be dry abrasive blast cleaned to the class specified in accordance with AS 1627.4.

Additionally, abrasive materials shall:
1. Be free from contamination, and
2. Contain less than 100 milligrams per kilogram of sodium chloride and contain less than 30 milligrams per kilogram of copper

See appendix for SA Water TS 15 - Protection of Steelwork in Immersed Conditions document.

The Inlet Chamber Wall Concrete Delamination
The Inlet Chamber Wall Concrete Delamination section(as identified in to be removed and reinstated using BASF MasterEmaco S 5400CI or similar in accordance with the product specification. Appropriate patching of the porous concrete surfaces and chipped corners is also required. See Appendix Bruce Eastick Dam Low Level Outlet Pipe Inspection Report 12/3/18, Figure 10,

Damaged Handrail around inlet chamber
Damaged and/or missing handrails around the inlet chamber to be reinstated. Missing/Damaged grout underside of the base plates to be reinstated. See appendix - Bruce Eastick Dam Low Level Outlet Pipe Inspection Report 12/3/18 Figure 10, and As Built Design drawing RCC 026

Gawler River Floodplain Management Authority

Bruce Eastick North Para Flood Mitigation Dam Repair Scope

Damaged Concrete blocks in downstream stilling basin

Construction and replacement of four of the existing Concrete blocks which were located at the downstream stilling basin (and subject to inspection a further one for total of five may be required)

A new design has been prepared to enable effective integration of the baffle block with the stilling basin floor and foundation with a combination of measures:

- Exposing the top reinforcement within the floor slab to enable integration of block reinforcement; aims to provide some tie between the impact block and the slab reinforcement, and to deepen and strengthen the cold joint interface between new and existing concrete to limit dynamic hydraulic pressure at the interface.
- Cored “shallow” dowel bars into the floor slab to resist shear forces; aims to achieve effective shear connection and mobilise the mass of the floor slab (at least locally).
- Ground anchors into the rock foundation to engage greater anchoring mass and reduce stress/reliance on the floor slab itself; due to uncertainties relating to the base slab reinforcement (top layer only or top and bottom) and extent of RCC placed in floor excavation. This assumes the foundations were excavated at least to moderately weathered rock.

In addition to the structural requirements, the anchorage of the stainless steel plate to the face of the block has been enhanced.The proposed design arrangement is provided in Appendix - Bruce Eastick Dam Baffle Replacement Design Report 3/4/2020 .

Dam location photographs

Gawler River Floodplain Management Authority

Bruce Eastick North Para Flood Mitigation Dam Repair Scope

NOTE: Appendix attachments to be facilitated at time of preparation of request for Tender documents

Agenda Item:	**8.7**
Committee:	**Board**
Meeting Date:	**11 February 2021**
Title:	**Bruce Eastick North Para Flood Mitigation Dam - Safety Emergency Plan**

Recommendation:

That the GRFMA receives the report.

GRFMA resolution 20/90 provides:

That the GRFMA

1. *Adopts the Bruce Eastick North Para Flood Mitigation Dam Safety Emergency Plan; and*
2. *Receives a further report addressing the next level detail required to implement the plan and relevant operations.*

Following completion of the Bruce Eastick North Para Flood Mitigation Dam Safety Emergency Plan a summary document titled *Emergency Hazard Plan Summary, Bruce Eastick North Para Flood Mitigation Dam (BENPFM Dam)* has been prepared.

The document provides a consolidated action approach to management of an emergency riverine flooding of the North Para or signs of imminent dam failure of the Bruce Eastick North Para Flood Mitigation Dam.

The document contains identification of:

- Key triggers for alert and operation mode;
- GRFMA tasks and roles;
- Emergency contact details;
- Operational notifications and actions.

See attached for a copy of the *Emergency Hazard Plan Summary, Bruce Eastick North Para Flood Mitigation Dam (BENPFM Dam).*

The Bruce Eastick North Para Flood Mitigation Dam Safety Emergency Plan and the Emergency Hazard Plan Summary will now be distributed to relevant State Government Authorities and constituent councils to assist in coordination of any hazard event that might occur.

See Table 1 below for details of the distribution list.

The SES is the control agency for the state's emergency service response for:

- Extreme weather, including heatwave and extreme storm
- Flood
- Search and rescue (structure) (in conjunction with the MFS).

Table 1 Distribution List – Bruce Eastick North Para Flood Mitigation Dam Safety Emergency Plan and the Emergency Hazard Plan Summary

Organisation	**Position**
South Australian State Emergency Service	Manager Community Resilience
Department for Environment and Water	Manager Flood Management
Gawler River Floodplain Management Authority	Executive Officer
Local Government Functional Support Group	Operations Manager
South Australian Police	Chief Inspector Officer in Charge OR Emergency Management Coordinator
Barossa ZEMC	Chairperson
Northern Adelaide ZEMC	Chairperson
Adelaide Hills, Fleurieu and Kangaroo Island ZEMC	Chairperson
Adelaide Hills Council	Manager Waste and Emergency Management
Adelaide Plains Council	General Manager – Infrastructure and Environment
The Barossa Council	Director Works and Engineering
Town of Gawler	Operations Manager
Light Regional Council	General Manager – Infrastructure and Environment
City of Playford	Senior Manager City Operations

Local Government and Emergency Management.

Local Government plays a fundamental role in emergency management due to their strong relationship with their local community networks and knowledge of locally available resources. Where powers exist, local governments have responsibilities, in partnership with respective state and territory governments, to contribute to the safety of wellbeing of their communities by participating in the local emergency management.

Local Government generally have a role to play in the areas of prevention and preparedness in the event of an emergency incident are usually along aside the response agencies and returning the community to normality.

Each council has an obligation to support the sector as a whole.

This is achieved and facilitated by the Local Government Function Support Group (LGFSG) that is led by the Local Government Association where needed. Zone Emergency Support Teams (ZEST) will be established across the metropolitan and regional areas for the purpose of councils collectively joining their knowledge, skills and experience to support the lead emergency service agency in responding to the emergency.

Emergency Hazard Plan Summary
Bruce Eastick North Para Flood Mitigation Dam
(BENPFM Dam)

Event

Riverine flooding of the North Para River

Signs of imminent dam failure of the Bruce Eastick North Para Flood Mitigation Dam.

Triggers for Alert Mode

Severe Weather Warning, Flood Warning or Flood Watch for the Gawler River

Triggers for Operations Mode

The key upstream water level gauges relevant to anticipate inflows for the Bruce Eastick Dam are:

- North Para at Nuriootpa (M023357)
- North Para at Yaldara (A5050502)

The water level gauge North Para at the Bruce Eastick Flood Mitigation Dam (M023141) is located at the dam site and is the basis for trigger in this document.

The BoM issue SMS alerts to representatives of the following warning of impending flooding:

- The Barossa Council
- Town of Gawler
- Playford Council
- Adelaide Plains Council
- The Gawler River Floodplain Management Authority

The Local Government Functional Support Group will also notify councils via email or phone call to nominated Council Commanders if flooding is anticipated.

1	High Level Outlet Pipes BENPFM Dam engaged. Water Level (m AHD) 69.9 mtr Gauge - M023141
2	Any signs of erosion, seepage, cracking, slippage or signs of obstruction to Dam Structure are observed

GRFMA Tasks / Roles

• Monitor BOM website/FloodMon • Update constituent councils	• Precautionary maintenance • Personnel availability for the forecast event

Emergency Contacts

LGFSG State Duty Officer	08 8120 1720
SAPOL State Emergency Centre Operations Manager	0411 478 161
SES State Duty Officer	08 884106695
Town of Gawler	08 85229211
Light Regional Council	0433 878 208
The Barossa Council	O8 85638444
City of Playford	08 8256 0333
Adelaide Plains Council	

Notes

The Bruce Eastick North Para Flood Mitigation Dam Dam Safety Emergency Plan provides further information if required,

Access to the Dam site is restricted - Authorization is required.

BENPFM Dam Hazard Summary

Operational floods notifications and actions

Alert BoM issues a Flood Watch or Flood Warning for the Gawler River	Any precautionary maintenance to be conducted if safe to do so before rain commences, including clearance of trash racks, removal of obstructions in outlet pipes	
	Monitor rainfall and streamflow activity on the BOM or Floodmon websites	
	GRFMA to confirm personnel availability for the forecast event	
	Establish the flow of information between the GRFMA, councils, SES and LGFSG if appropriate	
	Advice Notification GRFMA to advise SA SES on dam condition, contact person and communication method in advance of forecast rainfall	
Operations Flows likely to impact downstream communities	Level 1 **High level outlet pipes flows commence**	• GRFMA to undertake dam inspection including assessment of dam wall and recording of water level twice per day • GRFMA to monitor rainfall and streamflow on BoM / FloodMon website **Refer to Table 8 of this document if any signs of erosion, seepage, cracking, slippage or signs of obstruction are observed.** **Advice Notification** GRFMA to provide information/intelligence to relevant structures including the Zone Emergency Support Team, SES State Control Centre or State Emergency Centre Notify SES when dam discharge commences via high level outlet pipes for downstream community notification purposes*
	Level 2 **Primary spillway flow commences**	As above and: • Dam water level monitoring increases to two hourly if safe • Dam wall inspection twice per day (in line with SA Water DSEP) • Site access may begin to be impaired Prevent any unauthorised access to dam site by contacting SAPOL if necessary.
		Advice Notification Notify SES when primary spillway flows commence*

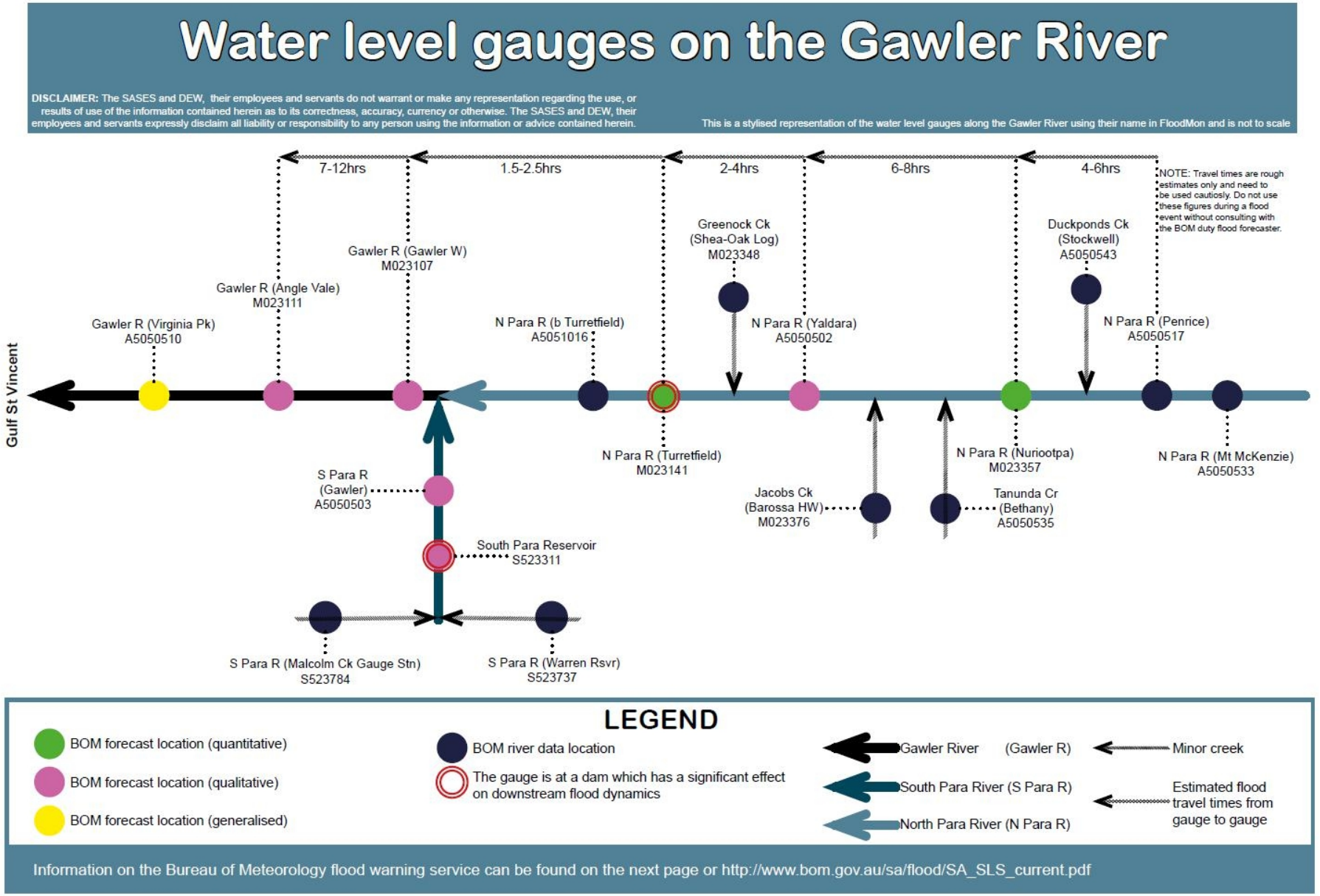
	Level 3 **Secondary spillway flow commences**	If safe to do so, commence continuous on-site monitoring of dam situation. If unsafe, evacuate to higher ground - monitoring of dam may cease as conditions become more dangerous. **WARNING NOTIFICATION** URGENTLY notify SES when conditions are no longer safe to monitor flows at the dam site or when secondary spillway flows commence*
	Level 4 **Dam Crest Flood**	If safe to do so, continuous monitoring of dam situation continues. If unsafe, evacuate site. **WARNING NOTIFICATION** URGENTLY notify SES when Dam Crest Flood is imminent. Provide information and intelligence including flood maps and PAR for this scenario (refer Bruce Eastick North Para Flood Mitigation Dam Dam Safety Emergency Plan).
Restore	Lake levels continue to recede, dropping below high level outlets	Undertake actions required after flooding as identified in *Appendix D: Bruce Eastick North Para River Flood Control Dam Operations and Maintenance Manual* Organise and undertake any necessary site repair to the dam, access road works or site in conjunction with a qualified dams engineer. Complete final reports, capturing of costs, damages and supporting documentation and incident journals Review emergency event and effectiveness of response Prepare report for submission to GRFMA **Advice Notification** Notify SA SES when waters have begun to recede and conditions are abating at dam site. Inform status of dam.

Gawler River Schematic

A schematic of the Gawler catchment is provided below (State Emergency Service, 2017). The dam is shown in the centre as a green circle with red outline: N Para R (Turretfield) M023141. Figure 2. shows relevant gauging stations in the North and South Para Rivers and their junction at Gawler to form the Gawler River. The schematic provides estimated travel times between gauges and the clarifies the warnings issued at

different locations.

Gawler River Flood Management Authority



Agenda Item:	**8.8**
Committee:	**Board**
Meeting Date:	**11 February 2021**
Title:	**Inquiry into the Stormwater Management Authority**

Recommendation:

That the GRFMA endorses the 7/01/2021 submission provided to the Statutory Authorities Review Committee regarding the inquiry into the Stormwater Management Authority.

The Statutory Authorities Review Committee has initiated an inquiry inquire into the Stormwater Management Authority, with particular reference to:

i. the functions of the Stormwater Management Authority pursuant to Schedule 1A of the Local Government Act 1999 (SA);
ii. the effectiveness of the Stormwater Management Authority in carrying out its functions, including the application of the Stormwater Management Fund; and
iii. any other matters relevant to the operations of the Stormwater Management Authority.

The GRFMA was invited to provide a submission by 29/1/2021.

Following consultation with the GRFMA Chair, Mr Ian Baldwin, the Executive Officer provided a submission to the Statutory Authorities Review Committee on 7/1/2021.

See attached for a copy of the submission.

Gawler River Floodplain Management Authority
266 Seacombe Road, Seacliff Park, SA 5049
Telephone: 0407717368 Email: davidehitchcock@bigpond.com
Website: www.gawler.sa.gov.au/grfma

14/1/2021

Statutory Authorities Review Committee
Parliament of South Australia
C/- Committee Secretary, Mr Peter Dimopoulos

via email SARC@parliament.sa.gov.au

Dear Peter,

Inquiry into the Stormwater Management Authority.

Thank you for the invitation from the Statutory Authorities Review Committee inviting submission to the Inquiry into the Storm Water Management Authority.

Please find attached the submission from the Gawler River Floodplain Management Authority.

Should you require any further information please contact davidehitchcock@bigpond.com

Yours Sincerely

David Hitchcock

Executive Officer

GRFMA Submission - Inquiry into the Stormwater Management Authority.

Inquiry into the Stormwater Management Authority.

Submission by the Gawler River Floodplain Management Authority(GRFMA).

Inquiry Terms Of Reference.

That the Statutory Authorities Review Committee inquire into and report on the Stormwater Management Authority, with particular reference to:

(i) the functions of the Stormwater Management Authority pursuant to Schedule 1A of the Local Government Act 1999 (SA);

(ii) the effectiveness of the Stormwater Management Authority in carrying out its functions, including the application of the Stormwater Management Fund; and

(iii) any other matters relevant to the operations of the Stormwater Management Authority.

Gawler River Floodplain Management Authority (GRFMA).

The Gawler River Floodplain Management Authority (GRFMA) is established as a regional subsidiary pursuant to section 43 and Schedule 2 of the Local Government Act 1999.

The Authority has been established for the purpose of coordinating the planning, construction, operation and maintenance of flood mitigation infrastructure for the Gawler River, and for the following functions:

- to raise finance for the purpose of developing, managing and operating and maintaining works approved by the Board;
- to provide a forum for the discussion and consideration of topics relating to the Constituent Council's obligations and responsibilities in relation to management of flooding of the Gawler River; t
- to advocate on behalf of the Constituent Councils and their communities where required to State and Federal Governments for legislative policy changes on matters related to flood mitigation and management and associated land use planning with Gawler River flood mitigation;
- to facilitate sustainable outcomes to ensure a proper balance between economic, social, environmental, and cultural consideration; and
- to provide advice as appropriate to the Constituent Councils in relation to development applications relevant to the Authority's roles and functions.

Constituent councils are : Adelaide Hills Council, Adelaide Plains Council, The Barossa Council, Town of Gawler, Light Reginal Council, City of Playford

The Gawler River flows in a westerly direction across the Northern Adelaide Plains from the confluence of the North Para and South Para Rivers just downstream of Gawler Township, to the Gulf St Vincent at Port Gawler.

The Gawler River has been subject to major flooding on average once in every 10 years over the past 160 years.

The district surrounding the river produces cereal crops and sheep for both meat and wool, as well as market gardens, almond orchards and vineyards.

It is now well recognised as the largest protected cropping region in Australia with over 1000 hectares of greenhouse production, and continues to expand by 100 hectares per year. PIRSA estimates that Gross Food Revenue from the region is approximately $1.1 billion.

The upstream catchment, which includes the Barossa Valley and Adelaide Hills, is substantial, with an area in excess of 1,000 square kilometres.

Key strategic flood mitigation initiatives implemented by the GRFMA include:

- Construction of the flood control Dam on the North Para (Bruce Eastick North Para Flood Mitigation Dam) in 2007.
- Facilitated Gawler River Open Space Strategy 2008.
- Modification of the South Para Reservoir Dam and spillway in 2012.
- Extensive flood mapping and hydrology reports facilitated.
- Completed the Gawler River 2016 Flood Review which recommended:

    1. River and levee maintenance should be the responsibility of a single authority that has the necessary resources and access rights to maintain the river in good condition from a flood conveyance as well as biodiversity perspective.
    2. River Condition and levee repair works should be undertaken as a matter of high priority.
    3. The GRFMA proceed with developing concept designs for the establishment of a Northern Floodway, in addition to the construction of a new river levee system.

The GRFMA is now advocating for delivery of the Lower Gawler River Northern Floodway Project ($40 Million). A Stormwater Management Plan, specifically for the Gawler River water course is also being facilitated.

Raising of the Bruce Eastick North Para Flood Mitigation Dam ($40 - $90 Million), located above Gawler, has been identified as the next most important flood mitigation initiative following completion of the Lower Gawler River Northern Floodway Project.

In seeking to establish funding partnerships to facilitate flood mitigation initiatives it is quite apparent that stormwater and flood management authorities do not have adequate resourcing to plan, establish and manage flood control assets to meet the desired level of service.

In South Australia, local government is regarded as being responsible for stormwater management and for its funding. The Stormwater Management Agreement at clause 3.5 notes that collaboration between State and Local Government is essential for the effective management of stormwater. Under the Agreement, the South Australian Government is providing funding of $4m per annum, indexed to cpi, from 2006/07 to 2036/37. For 2020/21 the amount is $5.6m.

Clearly the current methodology and limited funding allocation is inadequate to meet the substantial stormwater management infrastructure investment required.

Indeed the gap between available resources and that required is significant and appears to be widening. Many of the benefits of flood management manifest at a State or even Commonwealth level, yet significant funding from these sources is rare.

While there have been significant reforms in the institutional arrangements for potable water, wastewater and groundwater in recent decades, the same progress has not been made in relation to stormwater. There is now growing interest in including stormwater along with potable water and wastewater in a broader water cycle management approach.

It is recommended within considerations regarding the Inquiry into the Storm Water Management Authority, that the Statutory Authorities Review Committee further explore and seek pathways to improved institutional and funding arrangements for a broader water cycle management approach that will serve the State into the future.

In consideration of this recommendation the Committee may be interested in Appendix A (attached) which provides extract information, from the recent GRFMA Charter Review Report, *Governance and Funding Review,* prepared by Jeff Tate Consulting following extensive investigation and consultation with the GRFMA and its constituent councils.

Notably:

- Governance Models for Managing Stormwater
- Funding Models for Stormwater
- Current Arrangements for Managing Stormwater in South Australia
- Potential for Reform.

The GRFMA has a continuing interest in stormwater management and is available to discuss this submission further with the Review Committee.

Attach: Appendix A

Appendix A

Selected Extract

GAWLER RIVER FLOODPLAIN MANAGEMENT AUTHORITY REPORT:

GOVERNANCE AND FUNDING REVIEW

Jeff Tate Consulting Pty Ltd, December 2020

GRFMA Submission - Inquiry into the Stormwater Management Authority.

5 GOVERNANCE MODELS FOR MANAGING STORMWATER

Desktop research identified a limited range of governance models for managing stormwater in Australia and internationally as shown in table 2.

Table 2: Governance models for managing stormwater

Model	Notes	Examples
State Government-owned authority/utility	Drainage asset responsibilities under state legislation	Sydney Water, Hunter Water, Melbourne Water, Water Corporation WA, Water UK.
Special purpose legislation		The *South-Western Suburbs Drainage Act 1959* provided authority for the Minister to undertake drainage works to overcome flooding problems and to charge affected Councils for a 50% contribution to the capital and interest costs of the works over a period of 53 years.
Catchment Board	Enabled by separate legislation. Does not own assets. Relies on legislation, collaboration, or funding agreement to action outcomes for others' assets	Catchment/NRM boards in Tasmania and South Australia
Collaborative management across multiple local governments ***(GRFMA model)***	Either as a formal entity with powers enabled by parent councils/local govt legislation, or informally via funding agreement or similar	South Australia, Tasmania
Local government	Own and/or manage the asset within their own jurisdiction	Brisbane City Council, multiple German municipalities, Vienna City of Sydney charge a levy for minor drainage infrastructure notwithstanding their location within a drainage catchment managed by Sydney Water
Local government utility	A utility body on behalf of the local government or consortium of local governments	Common in USA

6 FUNDING MODELS FOR STORMWATER

For this project, there are two aspects of funding to be considered. The first is in relation to the models used by governments to fund their contributions to stormwater infrastructure and the second is in relation to the arrangements that exist between bodies (especially Councils) to determine their shares of the costs.

6.1 Funding by governments

Desktop research identified a limited range of funding methods for managing stormwater in Australia and internationally. In some cases, incentives for changes in behaviour are provided through rebates and credits.

6.1.1 Funding methods

Identified methods of funding are shown in table 3 below.

Table 3: Government funding methods

Method	Based on	Where used	Comments
Ongoing arrangements			
Payments from general revenue	Contributions to stormwater projects and maintenance and operating costs from national, state, or local governments	Common approach in Australia (including South Australia) and other countries	Can be through an ongoing or fixed period funding program or special allocations of funds
Drainage or stormwater charge	Flat charge	Kempsey (NSW)	Introduced in 2017-2018 year at $25 per residential or business property in the urban area ($12.50 per strata unit)
		Sydney Water Rouse Hill Growth Area	Set charge aimed at recovering the cost of infrastructure for a specific area over time; reducing over time as costs are recovered
	Flat charges by land use or property size	Western Canada, Sydney Water, Melbourne Water for special schemes	Differential charges, based on the assumption that certain types of land use have a lesser or greater loading on the system
			In Western Canada, rates reflect zoning and density of development
		Kempsey (NSW)	After 2017-2018 the charge for business properties became $25 per 350sqm
	By valuation	South Australia – NRM/Landscape Board levy	Sometimes criticised because valuation does not necessarily align with loading on the stormwater system
	By valuation and land use	Melbourne Water	
Charge based on area of impervious surfaces	Actual area	Some Councils in USA and Germany	More complex than assumed basis; has benefit of rewarding property owners with lower areas of imperviousness
		Canada – five levels of charges based on ranges of hard surface areas	
		Kempsey (NSW) – commercial properties	
	Average area within a location	Some Councils in USA and Germany	Some legal challenges in USA over use of averages
Charge based on volume of runoff	Charge applies based on a Residential Equivalent Factor – the ratio of runoff volume generated by one	Some Councils in USA	

	acre of land to runoff volume generated by one acre of low-density residential land – more popular in areas with higher home values		
Charge based on water consumption	In Italy, charge varies according to water consumption with 3% added to water bills	Italy, Ecuador	Criticised because water consumption does not align with loading on the system, but may be relevant to integrated water management approaches
One-off arrangements			
Developer contributions	Levied on developers via a development assessment process; limited to growth areas	Germany, Queensland, SA (negotiated), Victoria, New South Wales	PDI Act envisages improved system for developer contributions in SA and pilot currently being undertaken. Difficulties applying contributions to an area where improvements are proposed elsewhere in the network.
Offsets	Used where a developer cannot provide the necessary infrastructure within their site and pay money in lieu to pay for infrastructure elsewhere in the network; limited to greenfield developments and funds the construction of new assets	Melbourne Water	Not unlike Open Space Fund, car park funds etc in SA. Can be difficult to apply due to perceived/actual equity associated with paying for infrastructure elsewhere in the network that may or may not benefit the area from which it is levied

6.1.2 Incentives

Incentives identified in the form of rebates and credits used to change behaviours to achieve financial and/or environmental benefits for the relevant agency are shown in table 4.

Table 4: Rebates and credits

Method	Description	Where used	Comments
Rebates	Rebates are used to complement levies or fees for the adoption of stormwater practices (eg tanks, green roofs, onsite detention) that: • reduce volumes OR • improve water quality	Germany; some local governments in USA and Canada	

Credits	Credits given to entities that take on maintenance responsibilities	Parts of USA	Some credit systems have been criticised for offering so much discount that the amount of fee leftover is not enough to meet the stormwater infrastructure needs of the area
	Some US cities run a stormwater credit trading program allowing the sale and purchase of credits based on location, type and vulnerability of the stream used to offset ongoing fees	Parts of USA	

6.2 Sharing the costs between organisations

There is also a limited range of cost sharing arrangements between Councils and other bodies as shown in table 5.

Table 5: Cost sharing arrangements between organisations

Model	Based on	Where used	Comments
Current GRFMA default model – capital, and maintenance	Mix of future costs avoided; catchment area; river length; ability to pay	Unique to GRFMA	Negotiated arrangement, based on subjective assessments by independent consultant
Equal contributions by all Councils		GRFMA – operational costs	
		Brown Hill and Keswick Creek Stormwater Board – for administration and maintenance costs	Negotiated arrangement by the five Constituent Councils
Proportion of benefits received	Council paid for open space benefits; Melbourne Water paid for flood mitigation benefits	Clayton South, Victoria	Reflects multiple objectives approach to managing stormwater
	Costs were apportioned for each element of the project according to the benefit or cost avoided and included: •Increased agricultural value apportioned to agricultural users • Avoided building code costs apportioned to planned new households	Cost allocation methodology developed for the proposed Sunbury Integrated Water Management project by consultants for the Department of Environment, Land, Water and Planning (Victoria)	Complex modelling and calculations required

	Avoided infrastructure costs apportioned to Western Water • Avoided costs of waterway restoration apportioned to Melbourne Water • Cost of nitrogen abatement apportioned to Melbourne Water • Community willingness to pay for reuse of stormwater apportioned to whole of society		
Contributions to flows into the drainage system	Based on impervious areas within each Council area as a proxy for flows	Option referenced in Stormwater Management Plan prepared by Tonkin Consulting for the Torrens Road catchment for the Cities of Charles Sturt and Port Adelaide Enfield	Stated to be "suitable where the costs and the benefits are relatively uniformly distributed across the catchment"
Combination of proportion of flows from each Council area into the stormwater system, and proportion of benefits received by each Council area	Modelling of flows and estimate of benefits received	Option referenced in Stormwater Management Plan prepared by Tonkin Consulting for coastal catchments between Glenelg and Marino for the Cities of Holdfast Bay and Marion	
	Flows (based on impervious areas within each Council area) and future costs avoided by each Council (by reduction in damage in flooding because of the works) both considered in negotiating the funding proportions As above, plus further local benefits factored in such as opportunities for water re-use, and aesthetic and recreational outcomes	Options referenced in Stormwater Management Plan prepared by Tonkin Consulting for the Torrens Road catchment for the Cities of Charles Sturt and Port Adelaide Enfield	

7 CURRENT ARRANGEMENTS FOR MANAGING STORMWATER IN SOUTH AUSTRALIA

In common with other states and internationally, stormwater management in South Australia historically had a focus on flood control and mitigation. The focus has expanded in recent decades to a multi-objective approach that includes water quality, recreational opportunities, environmental assets and harvesting as an alternative source of non-potable water (which also recognised the economic value of stormwater).

With ongoing changes in climate and growth and structure of cities there is now interest in the concept of Integrated Water Cycle Management (IWCM). Under IWCM stormwater is considered within an

integrated approach to urban water management including water supply and wastewater treatment and also considers the interconnections between land and water management.

IWCM is a whole-of-system, multidisciplinary approach that aims to manage the entire urban water cycle by integrating the delivery of water, wastewater and stormwater services to contribute to the full suite of water security, public health, environmental and urban amenity outcomes that the community seeks[1].

7.1 Institutional arrangements

The state governments in Australia have the legislative power to determine arrangements for water management. This has generally led to stormwater management being a local government responsibility. Nationally, the Australian Government has limited legal authority over water resources and has relied on funding and agreements with the states to influence water policy and directions.

In Australia, the responsibility for managing urban stormwater rests mainly with local government. However, State and Territory governments have overall responsibility for land and water use planning and management. A range of government agencies and statutory authorities are involved in waterway and catchment management[2].

The approaches to recovering the costs of stormwater service provision vary between, and even within, jurisdictions, and full cost recovery is not explicitly required. The general approach is for costs to be funded from local council rates. Developer levies are also used. In some jurisdictions, councils have dedicated stormwater levies, but there is limited information on the extent to which these recover the full cost of service provision[3].

In South Australia, Councils are perceived as being responsible for the control and mitigation of flooding largely through s7 of the *Local Government Act 1999* which lists functions of local government:

- *s7(d) to take measures to protect its area from natural and other hazards and to mitigate the effects of such hazards;* and
- *s7(f) to provide infrastructure for its community and for development within its area (including infrastructure that helps to protect any part of the local or broader community from any hazard or other event, or that assists in the management of any area).*

A Stormwater Management Agreement between the South Australian Government and the Local Government Association of South Australia (LGA) was entered into in 2006 and given legislative approval in 2007 through an amendment to the *Local Government Act 1999* as Schedule 1A to the Act. Schedule 1A also provided for the continuation of the Stormwater Management Authority (SMA). The Agreement was revised in 2013 and the *Local Government Act 1999* subsequently amended again.

Principles under the 2013 Stormwater Management Agreement include:

- *(3.3) stormwater should be managed in a total water cycle management context, recognising and taking account of the connectivity of land use with water resources management and opportunities for multi-objective considerations of hazard management, water quality, amenity, and potential harvesting and use at site, precinct, catchment and regional scales;*
- *(3.4) a multi-objective, joint State and Local Government approach should seek to maximise the overall economic, environmental and social benefit of stormwater;*

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[1] Source: Productivity Commission, Integrated Urban Water Management — Why a good idea seems hard to implement.

[2] Source: Environment Australia, Introduction to Urban Stormwater Management in Australia,

[3] Source: Productivity Commission, Integrated Urban Water Management — Why a good idea seems hard to implement.

- *(3.5) collaboration between State and Local Government is essential for the effective management of stormwater, with the conduct of parties to be guided by any existing State-Local Government Relations Agreement that may be in place.*

Stormwater system is defined in clause 1 of the Agreement as:

Stormwater system means any part of a natural watercourse, open channel or underground conduit conveying or intended to convey stormwater or floodwaters whether by gravity or by pumping and includes associated infrastructure such as levees, high level overflow paths, wetlands, detention basins, dams and pumping stations and any other associated infrastructure which is intended to improve the quality of any stormwater or floodwaters conveyed or to utilise as a water resource such stormwater or floodwaters.

The SMA has specific functions under Schedule 1A to the *Local Government Act 1999* including facilitating and coordinating storm water management planning by Councils and a responsibility to issue guidelines for the preparation of such plans. It also has the power to:

- Under Clause 18(1), require a Council or group of Councils:
    - *(a) to prepare a stormwater management plan; or*
    - *(b) to revise an existing stormwater management plan and prepare a replacement stormwater management plan.*
- Serve an order on a Council under Clause 20 (1)(c) to take action *to provide for the management of stormwater by the provision of infrastructure or the performance of any work or to preserve and maintain the proper functioning of any stormwater infrastructure that the council has the care, control and management of.*
- Take the actions required by an order itself and recover the cost if a Council does not comply with the order (Clause 20(4)).

Various government agencies administering other South Australian legislation also impact on stormwater management in relation to land use planning, stormwater harvesting, water quality and emergency management. In addition to legislation, there are numerous policy and strategy documents that influence both the direction and detail of stormwater management. The dispersed arrangements for managing stormwater require a high degree of collaboration between agencies.

7.2 Funding

Looking at the three levels of government:

- Local government is perceived as being responsible for funding and managing stormwater. Some contributions for stormwater works are also negotiated by Councils to be paid by property developers when developments would contribute to flooding.
- Under the Stormwater Management Agreement, the South Australian Government is to provide $4m per annum indexed to cpi from 2006/07 to 2036/37 as funding to assist Councils with up to 50% of the costs of stormwater planning and capital works. For 2020/21 the contribution is $5.6m. Natural Resource Management Boards (especially the Adelaide Mt Lofty Ranges NRM Board) formed by the South Australian Government have also made contributions to stormwater programs.
- Funding from the Australian Government has tended to be more spasmodic in response to specific situations

7.3 South Australian Government and Local Government roles

The institutional arrangements are not easy to follow for those who are not actively involved. For the purposes of this report table 6 sets out the respective roles of the South Australian Government and Local Government that underpin the institutional arrangements.

Table 6: Respective roles of SA Government and Local Government in South Australia

Function	Roles	
	South Australian Government	**Local Government**
Regulating	Overall legislative framework, legislation, regulations, codes etc.	Within terms of Development Plans/Design Code (stormwater controls including setting of floor levels, onsite detention/retention, limits on allotment impervious area, limits on dwelling density) Compliance with SA Government legislation, regulations, codes etc.
Funding for flood mitigation - capital	Contributions as negotiated through Stormwater Management Agreement	Perceived to be responsible for funding (Potentially can negotiate with developers for contributions for works outside the land being developed)
Funding for flood mitigation – ongoing maintenance and operation	Limited responsibility (including the operation and maintenance of the Patawalonga Lakes system, West Lakes system and the Sturt River flood control dam and some aspects of the River Torrens main channel)	Perceived to be responsible for funding

8 POTENTIAL FOR REFORM

There has been a strong emphasis on reforms to arrangements for managing water in Australia over the past few decades, especially in relation to the Murray Darling, and to urban water supply and wastewater. The Productivity Commission contrasts the focus given to urban water supply and wastewater services in Australia to the lower level of reform attention given to the management of stormwater:

The current policy and regulatory approach for the delivery of urban water supply and wastewater services has been shaped by more than two decades of reform, ... Key aspects of these reforms focused on:

- *separating policy, standard setting and regulation from service delivery*
- *implementing consumption-based pricing with full cost recovery*
- *delivering water services as efficiently as possible by organisations with a commercial focus*

and the impact in relation to institutional arrangements:

In contrast, the provision of stormwater and drainage services was not included in past water reform policies and the principles of those reforms have not been applied to stormwater management. As such, the policy and regulatory arrangements for the delivery of stormwater services differ markedly to those for water supply and wastewater. The institutional framework is far less clear and the variation between jurisdictions is more marked.[4]

The interest of the Productivity Commission in stormwater management is a positive factor. However, the title of the Commission's recent Paper *Integrated Urban Water Management — Why a good idea seems hard to implement* is instructive in relation to the challenges and barriers it identifies to achieving reform.

[4] Source: Productivity Commission, Integrated Urban Water Management — Why a good idea seems hard to implement.

Stormwater management is a live issue for other states in Australia, including Victoria where arrangements in Melbourne are currently under review through the Melbourne Urban Stormwater Review:

The review of urban stormwater management will help clarify responsibilities between Melbourne Water and local government to ensure our stormwater assets and services:

- *are considered as a water supply resource*
- *support healthy waterways and bay water quality*
- *improve green infrastructure, urban cooling and amenity*
- *contribute to effective flood mitigation*[5].

There is a good argument for institutional reform for managing stormwater in South Australia.

The LGA has also shown interest in reforming the arrangements for managing stormwater and has argued that SA Government funding falls well short of what is required as the scale of capital works involved is beyond the capacity of Councils. Discussions with SA Government officials for this project indicated awareness of shortcomings in stormwater management. There is also a project under way to consider governance arrangements to improve coordination of the Councils and South Australian Government agencies involved in managing the River Torrens.

Broad interest in a matter is a good start to initiate reforms but it is sobering to acknowledge that the problems are longstanding and well-known. It is not a sustainable strategy for the GRFMA to wait for reforms to happen. Instead it can move forward while monitoring and contributing to the debate about reform.

[5] https://www.water.vic.gov.au/liveable/stormwater-review

Agenda Item: 10.1

Committee: Board

Meeting Date: 11 February 2021

Title: Executive Officer Review

Recommendation:

That:

1. **Pursuant to Section 90(2) of the Local Government Act 1999, an Order is made that the public be excluded from attendance at the meeting, with the exception of:**

   - **Observers**

   in order to consider in confidence agenda item 10.1 Executive Officer Review pursuant to Section 90(3)(a)(e) of the Local Government Act 1999 on the basis that:

   (a) information the disclosure of which would involve the unreasonable disclosure of information concerning the personal affairs of any person (living or dead);

   (e) matters affecting the security of the council, members or employees of the council, or council property, or the safety of any person;

   This matter is confidential because the information herein provides information the disclosure of which would involve the unreasonable disclosure of information concerning the personal affairs of the Executive Officer.

2. **On the basis of this information, the principle that meetings of the GRFMA Board should be conducted in a place open to the public has been outweighed in this instance: the Board consider it necessary to consider this matter in confidence.**

Recommendation:

1. **Pursuant to Section 90(2) and Section 91(7) of the Local Government Act 1999, the GRFMA orders that the following aspects of item 10.1 Executive Officer Interim Review be kept confidential in accordance with the GRFMA Boards reasons to deal with this item in confidence pursuant to section 90(3)(a)(e) of the Local Government Act 1999:**
   - **Report for Item 10.1.**
   - **Attachment for item 10.1.**

2. **This order shall operate until reviewed and determined as part of the annual review by the Authority in accordance with Section 91(9)(a) of the Local Government Act 1999.**

At the 10/12/ 020 GRFMA meeting the following resolution was carried:

That the GRFMA:

1. *Requests the Chair, Mr I Baldwin, to facilitate an interim review of the Executive Officer service provision as per Consultancy Agreement (GRFMA Contract: 1/20);*

2. *Be presented with a report on findings of the Review to the February 2021 GRFMA Board meeting.*

The GRFMA Chair has now concluded the review and has facilitated a report on findings for the 11 February 2021 GRFMA Board meeting consideration.

On the basis that the report contains information concerning the personal affairs of the Executive Officer it is recommended this matter be discussed under Confidential.

See Confidential attachment.