

Date: Thursday, 24 February 2022

Time: 9:00AM – 11:00AM

Location: Hotel Theodore, Microsoft teams

Attendees:

Chair: Daryl Conway (DC) (Operations Manager Biloela)

Representing customers: Ian Becker, Andrew French, Greg Hutchinson, Mitch Anderson, Kirk Anderson

Sunwater representatives: Manesh Magan (MM) (Customer Engagement Lead), Melissa Waghorn (MW) (Customer Accounts & Compliance Manager), Marian Hart (MJH) (Yield & Planning Manager), Michael Hughes (MGH) (Principal Water Resources Engineer), Rachel Jensen (RJ) (Design Flood Manager), Lucas Hughes (LH) (Flood Engineer), Emily Caleo (EC) (Customer Experience Support)

Guests: Scott Stevens (Department of Regional Development, Manufacturing & Water)

Apologies: Scott Becker, Simon Green, Terri Boyce, Michael Murray, Ashlea Fitzpatrick

Minutes:

| Agenda items | | |
|--------------|--|-----------|
| Item no. | item | Presenter |
| 1 | MEETING OPEN | DC |
| 2 | MOURA OFF-STREAM STORAGE | RJ, LH |
| 3 | DAWSON VALLEY OPTIONS STUDY | MGH |
| 4 | DAWSON VALLEY CARRYOVER & TEMPORARY TRADING | MW |
| 5 | QUEENSLAND WATER MARKET OPTIMISATION PROJECT | MM |
| 6 | GENERAL BUSINESS | DC |
| 7 | MEETING CLOSE | DC |

address: Green Square North, Level 9, 515 St Pauls Terrace,

Fortitude Valley, Queensland 4006

post: PO Box 15536, City East, Queensland 4002

ACN: 131 034 985

telephone:

+617 3120 0000

email:

CustomerEngagement@Sunwater.com.au

facsimile:

+61 7 3036 6482

sunwater.com.au

1. MEETING OPEN

[Agenda item 1]

- Introductions completed for Sunwater staff on Microsoft Teams
- Customer Advisory Committee (CAC) member apologies
- Confirmation of meeting minutes from previous meeting
 - Guidance of where meeting minutes are published on [Sunwater online](#)

2. Moura Off-Stream storage

[Agenda item 2]

- Sunwater presented from [slide pack](#)

2.1. Moura Off-Stream storage

[Agenda item 2 additional points]

- Sunwater advised that a storage reduction is not a feasible option at it does not change the referable status of the dam.

2.2. Questions and feedback

[Agenda item 2 further information]

- Questions and feedback from the CAC
 - The CAC queried the accuracy of the modelling and noted that it appears to vary from other historical modelling. Historical data would suggest that crest failure is extremely unlikely to happen outside of the modelling considered.
 - Sunwater advised that it is legislative requirement to do the modelling on the worst-case scenario. Although historic data may suggest that this failure event is highly unlikely, should be there a greater rainfall event in the future, past the dam crest level, a quick failure would look different to anything seen historically. Sunwater has a legal requirement to assess the worst-case scenario for deciding the people at risk.
 - Where did the Sunwater obtain the data for modelling?
 - Sunwater confirmed that the data was gathered externally, using LiDAR technology.
 - What is the accuracy of the LiDAR measurement data?
 - Sunwater to confirm the accuracy of the data as a post meeting note.
 - Sunwater acknowledged that changes to vegetation and cropping practices may change the impact of this data.
 - The CAC noted that more ground truthing should be completed before the modelling can be considered appropriately accurate.
 - The CAC noted that the flow pattern on Saleyards Road would go through a runner.
 - Has erosion along the bank been considered?
 - Sunwater confirmed that erosion along the embankment was a factored in.
 - How does a 1.2m crest failure occur over the dam wall?
 - Sunwater advised that this depth would be measured across ground. The scenario modelled is dam crest failure at Moura.
 - What is the level of rainfall required for the Dam Crest failure to occur?
 - Sunwater noted that it would need to be more than the historic rainfall. BOM asses the max probable maximum precipitation (PMP). Sunwater to advise the volume as a post meeting note.

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- The CAC queried if it would be suitable to construct culverts to negate population at risk?
 - Sunwater advised that in the quick flood event, the flood wave would be too significant for culverts.
- What defines populations at risk?
 - A depth of water greater than 300ml at the house location/a place where people sleep. Sunwater to include Population at Risk survey and collate a response.
- The CAC gave feedback that it may be feasible to redirect the water and run it back into the river.
- If the dam wall was heightened and storage level increased, would this change the referable dam status?
 - Sunwater advised that this won't change the risk as it would not negate sunny day dam crest failure from the airgap in the case of a quick flow event.
- The CAC requested mapping for rainfall if the dam was not there.
 - Sunwater is able to consider this and will collate a response.
- What is the time of failure/definition of a quick flow event?
 - Six hours for time of failure if the water starts to spill over the dam crest.
- What is the capacity of spillway in the rain event?
 - Sunwater to collate a response.
- The CAC noted that a storage reduction doesn't seem suitable option. It is possible to improve drains and levees that don't change natural water flow.
 - Sunwater to test that in the model by making a formed channel.

3. Dawson Valley Options study

[Agenda item 3]

3.1. Dawson Valley Options study

[Agenda item 3 additional points]

- Sunwater presented the following options:
 - Changes to the Water plan after hydrology studies are assessed for the scheme
 - Potential changes to the Orange Creek water sharing rules
 - Realigning the water year to the cropping requirements in the scheme
 - Review of the carryover rules
 - Boolburra waterhole release efficiencies.
- Sunwater advised that work will commence in the coming weeks.
- Sunwater welcomes feedback from the committee in order to develop a report to test each consideration.

3.2. Questions and feedback

[Agenda item 3 further information]

- When will the report conclude?
 - Sunwater advised that the report is proposed to be prepared by the third quarter of 2022.
 - Sunwater confirmed that there will be a consultation engagement if a detailed hydrology study goes ahead.
- What is the proposed date for a water plan review?

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- Sunwater advised that the Fitzroy basin plan is up for consideration this year from the department but no indication as to the date. A review or extension is decided by the minister.
- The CAC requested changes to the operating rules for pumping into the off-stream storages and releases can be made throughout the year.
- Sunwater advised that this need to be tested in the integrated water quantity and quality simulation model (IQQM).
- Is it possible to extend the available usage time for carryover by a couple of months? Giving customers such a short period of time does not encourage responsible use of water.
 - Sunwater is considering this as an option for the scheme.
- The CAC queried if a change to the water year would be impractical?
 - Sunwater confirmed that this consideration was a request from the CAC.
 - Without doing due diligence on the study option, Sunwater can not confirm the best course of action.

4. Dawson Valley Carryover & Temporary Trading

[Agenda item 4]

- Sunwater presented from [slide pack](#)

4.1. Dawson Valley Carryover & Temporary Trading

[Agenda item 4 additional points]

- Sunwater acknowledged that this timing of this year's carryover announcement was insufficient.
- Sunwater advised that carryover is not a product that the system acknowledges can be transferred and therefore it needs to be done manually.
- Allocation water and carryover must be transferred separately to ensure a customer's account doesn't go into breach when carryover is cancelled.

4.2. Questions and feedback

[Agenda item 4 further information]

- The CAC queried what the process would be if they were acting as both the "buyer" and the "seller" in a temporary transfer (TT) between their own water account.
 - Sunwater advised that they would still be required to TT carry and allocation water on separate forms. The difference would be that Sunwater would only be required to have one conversation to confirm understanding.
- The CAC noted that the primary concern was the amount of time they would have between the carryover being announced and the cancelled, to make decisions and submit TT applications for carryover water. A grace period would be preferred until a more suitable, permanent solution could be implemented.

5. Queensland Water Market Optimisation (QWMO) project

[Agenda item 5]

- Sunwater presented from [slide pack](#)

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5.1. QWMO project

[Agenda item 5 additional points]

- Sunwater advised that the data published on the Sunwater website is reliant on customers completing the temporary transfer application forms honestly and providing the correct \$/ML.

5.2. Questions and feedback

[Agenda item 5 further information]

- Questions and feedback from the CAC
 - The CAC provided feedback that the temporary transfer publishing should be update daily, in order to give an accurate interpretation of the value of the water market.

6. General Business

[Agenda item 6]

- Sunwater confirmed that CAC meetings will be held quarterly. Dates will be proposed in advance.
- The CAC would like to be informed of who the project leader is for the Dawson weir. Sunwater will communicate this information when it becomes available. The CAC also wants to know what the consultation with them will look like.

7. Meeting Close

[Meeting close time 10:42AM]

8. Approval and Review

| | |
|----------|--|
| Chair: | Daryl Conway (DC) (Operations Manager Biloela) |
| Minutes: | Emily Caleo (Customer Experience Support) |
| Date: | Thursday, 24 February 2022 |

Post Meeting Notes

| Agenda item | Question from CAC | Sunwaters response |
|-------------|--|--|
| 2.2 | What is the accuracy of the LiDAR measurement data? | Accuracy 0.15m vertical, 0.45m horizontal. METADATA |
| 2.2 | What is the level of rainfall required for the Dam Crest failure to occur? | Rainfall 1 in 2000 AEP, 209mm in 5h, 197mm after losses. The highest historical observed 24-hr rainfall is 173mm (194). |
| 2.2 | What is the capacity of the spillway in the rain event? | Spillway capacity approx. 85 m ³ /s. Then dam embankment begins to overtop, risk of failure. Defined by the DCF (dam crest flood) event, approx. 1 in 2000 annual exceedance probability. |

Action Items

| Agenda item | | Responsible person/s |
|-------------|--|----------------------------|
| 2.2 | Sunwater to arrange for an Operations Supervisor to investigate the properties where there is assumed population at risk. • Include Population at Risk survey | Lucas Hughes/Rachel Jensen |
| 2.2 | Sunwater to provide flood mapping for the natural flooding scenario without dam failure. | Lucas Hughes/Rachel Jensen |
| 2.2 | Sunwater to model and test formed channel. Testing to occur in March and presented during next CAC meeting. | Lucas Hughes/Rachel Jensen |
| 5.2 | Investigate if Temporary Transfer data can be published in real-time. | Manesh Magan |
| 6 | Sunwater to advise the project leader for the Dawson weir. | Sunwater |