

Mount Bold Dam Safety Upgrade Reference Group

Project Name	Mount Bold Dam Safety Upgrade					
Date	30/07/2020		Time	6:00pm-7:30pm		
Location	Clarendon Community Hall		Meeting no.	3		
Facilitator	Amelia Laoratana		Note taker	Selene Seet		
Attendance Ab = Absent Ap = Apologies P = Present	Peter Watton, Friends of Scott Creek Conservation Park (FSCCP)	P	Luke Price, Natural Resources Management Board (NRM)	Ap	Adam Schutz, Native Vegetation Branch (DEW)	Ap
	Shaun Thomas, Environmental Protection Agency (EPA)	Ap	Pru Fowles, Clarendon Community Association (CCA)	P	Amelia Hurren, Bush for Life/Trees for Life (BFL/TFL)	P
	Morgan Ellingham, City of Onkaparinga (CoO)	P	Andrew Pow, Old Noarlunga Resident Association (ONCRA)	P	Tim Jury, Nature Conservation Society of SA/Threatened Plant Action Group (NCSSA/TPAG)	Ap
	Merle Simpson, Kaurna Representative	Ap	Eric Von Wielligh, SA Water (SAW)	P	Selene Seet, SA Water (SAW)	P
	Amelia Laoratana, SA Water (SAW)	P	Peter Doumouras, SA Water (SAW)	P		

1 Welcome and introductions

Meeting opened with introductions of attendees and apologies as noted above.

2 Notes and actions from last meeting

Previous meeting summary circulated on 7 July 2020 was accepted without amendment or addition to the record. No other open actions included on the register.

3 Flora and fauna assessments presentation

SA Water Environment Advisor gave a presentation about flora and fauna assessments completed to date for the Dam Safety Upgrade project, including assessment areas, flood inundation impacts, species of conservation significance, environmental approvals, mitigation strategies and significant environmental benefit (SEB) offsets.

A summary of the presentation key points and related questions and discussion is outlined below:

- 23 vegetation communities identified in the surrounds of the dam wall upgrade (including three mixed native/exotic in more disturbed locations)
- 30 vegetation survey sites assessed around the reservoir associated with flood mitigation upstream including nine vegetation communities identified (including one that is Forestry SA pine plantation).

- Temporary upstream inundation levels will vary depending on design and flood event. While there are some difficulties assessing inundation impacts prior to a flood event, current design modelling (up to 1:18AEP flood event at full supply level/FSL) estimates potential impacts up to 4 metres above FSL while additional flood mitigation design option would see an increase of inundation up to around 6 metres.
- A participant asked if SA Water was familiar with the particular fern species which may be impacted in the potential inundation area. SA Water responded that affected species are being considered and this will be looked at later in the presentation.
- A participant asked if inundation assessments were predicted based on various seasons as impacts may be greater during summer (tropical) events. SA Water responded that the flood modelling has focused on more substantial events up to 1 in 100 years, using a qualified consultant. General seasonal yearly events however are not likely to see much change as the full supply level of the spillway will remain the same.
- SA Water further elaborated that the main difference in inundation impacts to vegetation communities is the time it takes for water to drain. This issue will require discussion with the DEW Native Vegetation Branch. SA Water is also engaging with the Seed Conservation Centre at Botanic Gardens, who are looking to help regenerate vulnerable populations of priority species which may be affected.
- A participant asked if the project's hydrology modelling work and downstream impacts to Old Noarlunga had been presented to the Old Noarlunga community. SA Water advised it had met with the Old Noarlunga Community Resident Association (ONCRA) in February 2020 to present high level design and flood mitigation concepts and would look to follow up with a separate meeting to bring them up to speed.
- SA Water noted that no Environment Protection and Biodiversity Conservation (EPBC) Act listed flora species or communities have been identified but eight state listed species were recorded from assessments completed to date. In addition, two vulnerable provisionally listed vegetation communities were found and three EPBC listed fauna species and eight state listed fauna species were identified.
- SA Water also added that experts are also being engaged to input into a risk assessment of desktop listings of species of conservation significance and further planned on-site assessment work. Expert input through T & M Ecologists involve:
 - Reptiles and mammals - Peter Matejcic (Field Naturalist Society and SA Mammal Club) and Dr Tim Milne
 - Birds – Tim Croft and Graham Carpenter
 - Plants - Dan Duval (SA Seed Conservation Centre) and Tim Jury (Threatened Plant Action Group).
- SA Water explained that understorey nodes (more diverse low-growing habit species) used in the Millbrook offset area have been established in clusters across the site to encourage the natural generation of vegetation.
- A participant enquired about areas being identified for revegetation. SA Water advised it was looking at areas upstream of Clarendon Weir, where the landscape is more degraded and has the potential to restore and connect to nearby remnant habitats. It was further queried if these areas were near the old exploratory tunnel (20th century), however SA Water was not familiar with this tunnel but advised this would be followed up.
- The approximate number of hectares affected by temporary flood inundation upstream was queried and SA Water advised that in the worst case design option scenario of 1:100 AEP floods, there would be around 40 hectares of inundation affected for the current preferred option, however would increase to around 60 hectares of inundation for the increased flood mitigation design option.

- A participant commented that many species which grow along the water/river's edge would likely regenerate naturally after time following a period of inundation. SA Water advised species in moist locations are more adaptable however many will not survive if inundated for too long.
- A participant enquired about the clearance area for construction roads and routes. SA Water advised it is believed to be in the vicinity of 20 hectares however more will be known once concept design is finalised and details such as width of roads developed, laydown areas etc. While efforts will be made to minimise impacts to native vegetation, some vegetation removal will be unavoidable given the size of the project. SA Water will implement mitigation strategies.
- As the on-site quarry option was now eliminated partly due to environmental reasons, a participant asked where materials would be sourced from. SA Water advised it was looking at options nearby with a likely source being considered from Kanmantoo. Transportation of materials would therefore need to use public roads with SA Water reviewing constructability advice following information resulting from its dual early contractor involvement (ECI) contract. This means two contractors would be engaged to develop and inform details such as size of roads, traffic routes, concrete batching plants etc. SA Water will look to select the options with the smallest footprint and utilise the design criteria to implement mitigation strategies e.g. at Kangaroo Creek Dam upgrade one of the strategies to minimise environment impacts was to move the concrete batching plant offsite.

4 Next meeting

SA Water asked the group if the evening time was still suitable for most and it was agreed to keep the meeting start time to no later than 6:30pm. The next meeting was proposed to be held in six to eight weeks covering a general update on various aspects of the project.

A participant asked if it was possible to visit the site to view the dam and tunnel. SA Water agreed to arrange a site tour sometime in future.

SA Water thanked participants for their time and attendance at the first face to face meeting and closed the meeting at 7:25pm.

Open Action Items Register

No.	Action	By Whom	Date Raised	Date Due	Status
1.	Circulate 25/6 meeting summary and design and construction project presentation slides	SAW	25/06/20	09/07/20	Completed 7/7/20
2.	Circulate 30/7 meeting summary and flora and fauna assessment presentation slides	SAW	30/7/20	13/8/20	
3.	SA Water to organise separate meeting with ONCRA to present hydrology and flood modelling impacts to Old Noarlunga community	SAW	30/7/20	Next meeting	
4.	SA Water to follow up location of old exploratory 20 th Century tunnel near Clarendon Weir in relation to areas for revegetation	SAW	30/7/20	Next meeting	
5.	SA Water to arrange a site visit to view Mount Bold Reservoir	SAW	30/7/20	TBC	