

Meeting Title: Marsha Reserve Masterplan Working Group - Meeting 02
Project Title: Marsha Reserve Wastewater Pump Station
Date: 4 September 2023
Time: 7:00 – 9:45pm
Location: Jubilee Community Centre

Invitees:

Group member	Role	Present	Proxy
Elliot St Claire	Site neighbour	Apology	
Graham Gibbs	Site neighbour	Apology	
Joanna Henderson	Site neighbour	Yes	
Michelle Perry	Site neighbour	Yes	
Rose Morton	Tea Tree Gully CWMS Action Group and Marsha Drive resident	Yes	
Sarah Linton	Site neighbour	Yes	
Scott Brien	Site neighbour	Apology	
Trevor Camac	Site neighbour	Yes	
Cr Jessica Hawkvelt	Council elected member	Apology	Ryan McMahon, CEO
Cr Lucas Jones	Council elected member	Yes	
Greg Salmon	Manager Project Management Office, City of Tea Tree Gully	Apology	Ryan McMahon, CEO
Olivia Savvas MP	Member for Newland	Yes	
Emma Goldsworthy	Manager, Capital Delivery, SA Water	Yes	

1. WELCOME AND APOLOGIES

The meeting opened with Steve Dangerfield providing an acknowledgement of country. Apologies were:

- Elliot St Claire
- Graham Gibbs
- Cr Jessica Hawkvelt
- Greg Salmon.

Ryan McMahon attended as proxy for Cr Jessica Hawkvelt and Greg Salmon.

2. ACCEPTANCE OF MINUTES FROM PREVIOUS MEETING

- Minutes from the previous meeting were issued and accepted by the group as a true record of the meeting with the following addendum to be added:
- If a tree is removed, it does not necessarily need to be replaced with like for like, but rather any new planting be consistent with the City of Tea Tree Gully's biodiversity policy. In this regard every effort should be made to minimise the park area taken up by the pump station to minimise the extent

to which healthy trees in particular need to be removed. Amended minutes including the addendum will be issued as a final copy to the group made public via SA Water's Water Talks website.

3. BUSINESS ARISING FROM PREVIOUS MINUTES

Maintenance regularity

- Preventative maintenance would be conducted during business hours (9am to 5pm. Monday to Friday)
- SA Water will consider whether it is possible for the operators to provide advance notice of regular maintenance to residents prior to it occurring.

Visiting similar pump stations

- Cinnamon Avenue in St Agnes is similar in flow with a single pump operating and Group Members were encouraged to visit it, noting that the size of the pump station at Marsha Reserve will be slightly larger in size than the one at Cinnamon Avenue as Cinnamon Avenue is older. **Action: Advise on the age of the pump station at Cinnamon Avenue.**
- A question was asked as to whether the pump station at Maxley reserve on Golden Way is a better comparison, as it is located next to residences. **Action: Advise on the pump station at Maxley Reserve.**
- A question was asked as to whether SA Water has received complaints regarding other wastewater pump stations. **Action: SA Water to advise on the number and nature of the complaints received regarding wastewater pumpstations.**

Wastewater flooding

- Discussion was had about pipe widths and capacity, and the holding capacity of the pump station. **Action: Provide further information about wastewater overflows relative to the proposed WWPS at Marsha Reserve.**

4. TERMS OF REFERENCE

- Proposed changes to the Terms of Reference were discussed and agreed. With no other changes other than those presented the Terms of Reference will be distributed as a final copy. **Action: distribute final TOR.**
- A follow up question was asked as to who is considered a neighbour in section 6.2 and the group agreed all residents who are members of the group are considered to be neighbours.

5. KEY ISSUES AND SUCCESS FACTORS – DISCUSSION AND CONFIRMATION

Key issues

- **Action: Broad Community Objective – add that amenity improvements are also to be made to the Park**
- **Action: Safety - add casual surveillance and fencing interfaces should be considered.**

Success factors

- These factors should include expansion for future demand should it be required.

- Another success factor should be added with the heading of Sustainability, which will be linked to the maintenance objective and consider Council's biodiversity plan, local play space and minimising the amount of traversal areas.
- A question was asked about budget – this will be a matter for discussion between Council and SA Water. It is intended to have conversations about capital and operational costs in parallel with the development of the concept plan for the park to ensure that what is proposed can be delivered by the parties.
- A point was made about the residents valuing the playground and not wanting to lose it to the pump station and having to wait a substantial time for Council to build another one. The intention is to develop a concept plan for the park that can be effectively delivered by the parties in a timely manner.

6. NOISE AND ODOUR

Odour

- A Green Dome will be used to mitigate odour at the pump station at Marsha Reserve and therefore air that is expelled via the dome is expected to have less than 0.0002 parts per million of H₂S which is non detectable. The Green Dome uses carbon absorption technology, which absorbs odour-causing compounds from the air and has proven to be effective on pump stations of this type.
- During maintenance, when the sealed lid to the wet well is removed, it is expected that odour from the pump station will be easily noticeable.

Noise

- With submersible pump stations of the size to be installed at Marsha Reserve, the pump noise is generally not noticeable at the surface. What is usually heard when standing up close to the pump station is the flow of wastewater into the wet well (sounding very much like a rushing waterfall). This is very much the case with the WWPS at Cinnamon Avenue. The flow of wastewater however at Cinnamon Avenue could barely be noticed at 10 metres away from the WWPS when inspected by Steve and Emma prior to the meeting.
- SA Water undertook background noise testing at three locations at in the vicinity of Marsha Reserve from the 16 December 2022 to the 23 December 2022 to identify average noise levels during the day and at night. Discussion was had as to whether this was an appropriate time of year to do the testing and reflective of the general activity occurring in the area given the lead up to Christmas. **Action: SA Water to investigate whether background testing can be undertaken in September / October to be compared with the December 2022 background noise monitoring in order to ensure an accurate baseline. Post WWPS installation, SA Water to consider further noise monitoring to ensure the WWPS operates within the requirements of the legislation.**
- Further discussion was had with respect to the expected noise from the WWPS and whether it would be able to be heard above background. **Action: Obtain a noise measurement for the WWPS at Cinnamon Avenue and research any specifications for the Marsha Street Pump Station that might provide an understanding of the noise anticipated from the pump station when constructed and operating (this includes accounting for the pump operating below water in a sealed concrete chamber).**

- A question was asked as to whether the noise takes into account elevation, as residents living above the park can hear daily use noise on a regular basis. To understand whether this is likely to be an issue, the anticipated noise levels from the operating pump station at various distances from the location of the pump station will need to be understood.
- It was asked whether the ESCOSA / EPA / SA Health regulation rules and conditions that cover spills / noise / odour / service continuity could be provided to the group. **Action: Relevant legislation and guidelines covering WWPS such as that to be installed at Marsha Reserve to be researched and provided to those interested.**

7. ACCESS REQUIREMENTS

- The size of maintenance trucks was discussed. Smaller trucks cannot be used for all maintenance activities, as a full-sized truck will likely be needed at times which is capable of carrying all maintenance equipment including a spare pump and crane.
- It was asked whether electrical needs to be next to the wet well or if this can they be separated at distance. **Action: Determine distances that plant and equipment can be separated so as to provide options with respect to park placement.** A resident commented that they had been told that a much larger maintenance truck than that which has been described would be required if the pump station was to be located at the back of Marsha Reserve as the crane due to the wet well needing to be much deeper. It is understood that the maximum size truck required, even if the WWPS is located at the rear of Marsha Reserve needs to be slightly deeper is the same as that which has been previously presented – 12.5 metres. **Action: Confirm if the wet well needs to be deeper at the rear of the reserve requiring a larger truck for maintenance purposes.**

8. OPEN SPACE POLICY REQUIREMENTS – CITY OF TEA TREE GULLY

- Council clarified that under the open space policy, basic parks do not have any equipment or facilities whereas moderate parks might have irrigation, grass, and/or a picnic shelter. Verdant Reserve, Morrow Court Wynn Vale is an example of a similar park. There are no toilets or barbeques but it has sealed footpaths.
- It was requested that access and inclusion be added to the objectives of the group in relation to any facilities that might be considered. **Action: Access and inclusion in relation to park upgrade be added to success factors.**

9. TREE HEALTH REPORT AND STATUS

- The group was provided information about what defines a regulated tree, a significant tree, the tree protection zone and the structural root zone.
- The group was shown the arborist report prepared for the trees on Marsha Reserve.
- A resident noted that one tree that was identified as low value by the arborist is a regular home to nesting lorikeets and to koalas. Landskap noted this and clarified that these kinds of uses were examined by the arborist so wildlife must not have been present in the tree at the time.
- This work will become important when considering design options and locations for the WWPS.

10. SCREENING OPTIONS AND IDEAS

- A series of screening options was presented to the group.

- A question regarding maintenance and who will be responsible for what elements was asked. Steve responded that at this early stage everything was on the table and that this would be an important discussion which would need to occur in due course with Council and SA Water. Key elements associated with access and operation of the pump station infrastructure however would be the responsibility of S Water.
- Council asked that further research be performed in relation to the local area to ensure that the masterplan reflects the unique history of the area in which Marsha Reserve is located. **Action: History of the area to be considered when developing design ideas and feature elements for the reserve.**

11. WASTEWATER PUMP STATION – LOCATION OPTIONS DISCUSSION

The group was asked to consider several factors in determining their preferred locations for the pump station, including:

- The creek
- Topography
- High value trees
- Existing infrastructure

Access A resident commented that the creek shown on plan was not a creek, rather it is an area where water has accumulated. Council said they would check whether it's a drainage reserve for overflow. **Action: Council to advise on the status of the creek/drainage reserve at the back of the Marsha Reserve.**

Each resident in the group was then given the opportunity to identify their top two preferences for the location of the pump station at Marsha Reserve by placing two different coloured dots – blue representing their preferred choice and orange their second preference. Discussion regarding the outcomes of this exercise to occur at the next meeting.

12. NEXT MEETING

The next meeting was scheduled to take place on site at Marsha Reserve, but it was decided to arrange a standard meeting at an indoor venue to further explore and lock in a preferred and second choice location for the WWPS before meeting on site to identify issues and opportunities.

Next meeting: 7:00pm Monday 18 September 2023.

ACTION REGISTER

	Action	Responsible	Dated raised	Date due	Status
1	Members to review draft TOR and refer any requested changes to Andrea to update and re-issue.	All	21/08/23	10 days	Closed
2	Meeting minutes and copy of presentation to be provided to working group	TSA	21/08/23	31/08/23	Closed
3	SA Water to provide more information at the next meeting regarding odour	SA Water	21/08/23	ASAP	Closed

Minutes.

4	SA Water to provide more information at the next meeting regarding noise	SA Water	21/08/23	Ongoing	Open
5	Maintenance regularity and truck size requirements – while it is understood that worse case a 12.5 metre truck with integrated crane needs to attend site, is it possible to explore other options and configurations whereby smaller vehicles and cranes can be used as this will impact access design	SA Water	21/08/23	ASAP	Closed
6	Size of WWPS footprint relative to the overall size of the reserve	Landskap, Council and SA Water	21/08/23	Ongoing	Open
7	Arborist report to be presented at next meeting	Landskap	21/08/23	04/09/2023	Closed
8	Minutes from meeting 1 to be placed on the Water Talks website	TSA/SA Water	4/9/23	ASAP	Open
9	Final TOR to be distributed and placed on Water Talks website	TSA/SA Water	4/9/23	ASAP	Open
10	Determine whether advance notice of maintenance can be provided to residents	SA Water	4/9/23	ASAP	Open
11	Determine whether further baseline noise levels can be measured in the vicinity of Marsha Reserve and also once the pump station is installed	SA Water	4/9/23	ASAP	Open
12	Obtain a noise measurement for the WWPS at Cinnamon Avenue and research any specifications for the Marsha Street Pump Station that might provide an understanding of the noise anticipated from the pump station when constructed and operating (this includes accounting for the pump operating below water in a sealed concrete chamber).	TSA/Landskap/SA Water	4/9/23	ASAP	Open
13	ESCOSA / EPA / SA Health regulation rules and conditions that cover spills / noise / odour / service continuity to be provided	TSA	4/9/23	ASAP	Open
14	Determine whether Maxley reserve on Golden Way is a better pump station comparison than Cinnamon Ave	TSA	4/9/23	ASAP	Open
15	Perform a search on their customer feedback system in relation to past complaints about pump stations	SA Water	4/9/23	ASAP	Open
16	History of the area to be considered when developing design ideas and feature elements for the reserve.	Landskap	4/9/23	As part of draft masterplan	Open

18	Confirm if the wet well needs to be deeper at the rear of the reserve requiring a larger truck for maintenance purposes.	SA Water	4/9/23	ASAP	Open
19	Explain policy in relation to connecting a generator to the pump station in the event of a power outage	SA Water	4/9/23	ASAP	Open
20	Provide further information about wastewater overflows and preventative maintenance relative to the proposed WWPS at Marsha Reserve.	SA Water	4/9/23	ASAP	Open
21	Explain what constitutes 'extreme circumstances' in the case of wastewater flooding	SA Water	4/9/23	ASAP	Open
22	Provide further information about what the odour units are for emptying a septic tank as opposed to pump station maintenance	SA Water	4/9/23	ASAP	Open
23	Explain whether Green Domes constantly expel air	SA Water	4/9/23	ASAP	Open
24	Provide further information on what makes up the 175sqm footprint in addition to the access area	SA Water	4/9/23	ASAP	Open
25	Further information to be provided about what portion of the infrastructure will be screened	SA Water/TSA/Landskap	4/9/23	Ongoing	Open
26	Advise on the age of the pump station at Cinnamon Avenue	SA Water	4/9/23	ASAP	Open
27	Project Issues – with respect to the broad community objective which sits above the issues list, add that amenity improvements are also to be made to the Park	TSA	4/9/23	ASAP	Open
28	Success factors - Safety - add casual surveillance and fencing interfaces should be considered.	TSA	4/9/23	ASAP	Open
29	Success Factors - Access and inclusion in relation to park upgrade be added to success factors.	TSA	4/9/23	ASAP	Open
30	Determine distances that plant and equipment can be separated so as to provide options with respect to park placement.	SA Water	4/9/23	ASAP	Open
31	Council to advise on the status of the creek/drainage reserve at the back of the Marsha Reserve.	Council	4/9/23	ASAP	Open