



BOARD AGENDA & REPORTS

Telecommunications Special Meeting of the Adelaide Park Lands Authority

Thursday 18 June 2020
at 5:30 pm

The Adelaide Park Lands Authority was established by the *Adelaide Park Lands Act 2005 (SA)* as a subsidiary of the City of Adelaide under the provisions of the *Local Government Act 1999 (SA)*.

As part of the Park Lands governance framework the Adelaide Park Lands Authority is the principle advisory body to the City of Adelaide and the South Australian State Government on Park Lands matters.

The Authority provides guidance around the use of and improvement to the Adelaide Park Lands through the development of the Adelaide Park Lands Management Strategy 2015 – 2025, which can be found [here](#) .

Membership	The Lord Mayor; and 4 other members appointed by the Council; and 5 members appointed by the Minister.
Quorum	6
Presiding Member	The Right Honourable the Lord Mayor Sandy Verschoor,
Deputy Presiding Member	Ms Kirsteen Mackay,
Board Members	Ms Allison Bretones, Mr Rob Brookman AM Ms Jessica Davies-Huynh, Mr Stephen Forbes, Councillor Alexander Hyde (Deputy Lord Mayor), Ms Stephanie Johnston, Mr Craig Wilkins and Mr Ben Willsmore.
Proxy Board Members	Councillor Anne Moran (for Councillor Alexander Hyde) Professor Emeritus Damien Mugavin (for Ms Stephanie Johnston)

1. Acknowledgement of Country

At the opening of the Special Board Meeting, the Board member presiding will state:

'Adelaide Park Lands Authority acknowledges that we are meeting on traditional Country of the Kurna people of the Adelaide Plains and pays respect to Elders past and present. We recognise and respect their cultural heritage, beliefs and relationship with the land. We acknowledge that they are of continuing importance to the Kurna people living today.

And we also extend that respect to other Aboriginal Language Groups and other First Nations who are present today.'

2. Apologies

Nil

3. Report for the consideration of the Board

3.1 Brown Hill and Keswick Creeks Stormwater Management Project (South Park Lands) [2018/02437]
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The Brown Hill and Keswick Creeks Stormwater Board's project management and design team will provide a brief presentation on the project and be available to discuss and answer questions.

4. Closure

Brown Hill & Keswick Creek Stormwater Project (South Park Lands)

ITEM 3.1 18/06/2020
Adelaide Park Lands Authority

Program Contact:

Matthew Morrissey, AD
Infrastructure 82037462

2018/02437
Public

Approving Officer:

Klinton Devenish, Director Place

EXECUTIVE SUMMARY

The Brown Hill and Keswick Creeks Stormwater Board (Board) is seeking to provide an update on the design of stormwater management works proposed for the South Park Lands – Victoria Park/Pakapakanthi (Park 16) and Blue Gum Park/Kurangga (Park 20) – as part of the Brown Hill Keswick Creek Stormwater Management Plan (SMP) and to seek the support of the Adelaide Park Lands Authority (the Authority) for the proposed works.

Members of the Board's project management and design team will provide a brief presentation on the project and be available to discuss and answer questions in relation to this matter.

RECOMMENDATION

THAT THE ADELAIDE PARK LANDS AUTHORITY ADVISES COUNCIL:

That the Adelaide Park Lands Authority:

1. Notes the Brown Hill and Keswick Creeks Stormwater Board's stakeholder engagement report on the design proposal for stormwater management works proposed for Victoria Park / Pakapakanthi (Park 16) and Blue Gum Park / Kurangga (Park 20) as provided in Attachment A to Item 3.1 on the Agenda for the Special meeting of the Board of the Adelaide Park Lands Authority held on 18 June 2020.
2. Supports the implementation of the design proposal for the stormwater management works in Victoria Park / Pakapakanthi (Park 16) as shown in Attachment B to Item 3.1 on the Agenda for the Special meeting of the Board of the Adelaide Park Lands Authority held on 18 June 2020.
3. Supports the implementation of the design proposal for the stormwater management works in Blue Gum Park / Kurangga (Park 20) as shown in Attachment C to Item 3.1 on the Agenda for the Special meeting of the Board of the Adelaide Park Lands Authority held on 18 June 2020.
4. Supports the removal of two regulated trees, 31 unregulated or exempt trees and a grove of White Poplar trees in Victoria Park / Pakapakanthi (Park 16), as shown in Attachment D to Item 3.1 on the Agenda for the Special meeting of the Board of the Adelaide Park Lands Authority held on 18 June 2020.
5. Supports the removal of two regulated and two significant trees as well as 83 unregulated or exempt trees from Blue Gum Park / Kurangga (Park 20), as shown in Attachment E to Item 3.1 on the Agenda for the Special meeting of the Board of the Adelaide Park Lands Authority held on 18 June 2020.
6. Notes the proposed planting of over 120 new trees in Victoria Park / Pakapakanthi (Park 16) and 40 in Blue Gum Park / Kurangga (Park 20) as part of the project.
7. Supports the use of part of Victoria Park / Pakapakanthi (Park 16) as generally shown in Attachment F to Item 3.1 on the Agenda for the Special meeting of the Board of the Adelaide Park Lands Authority held on 18 June 2020 as a temporary soil stockpile and soil sorting facility for the duration of the works.
8. Notes that the location and shape of the proposed temporary soil stockpile and soil sorting facility, as generally shown in Attachment F to Item 3.1 on the Agenda for the Special meeting of the Board of the Adelaide Park Lands Authority held on 18 June 2020, is indicative and subject to finalisation pending discussions with organisers of events such as the Superloop Adelaide 500.
9. Recommends that the Brown Hill and Keswick Creeks Stormwater project team works with Kurna community representatives to ensure that Kurna cultural heritage for the Victoria Park / Pakapakanthi (Park 16) and Blue Gum Park/Kurangga (Park 20) site is clearly recognised and incorporated in the native vegetation, interpretative signage and any artworks associated with the project.

IMPLICATIONS AND FINANCIALS

<p>Adelaide Park Lands Management Strategy</p>	<p>The Adelaide Park Lands Management Strategy (APLMS) contains objectives to ensure that the Park Lands are resilient in adapting to a changing climate, enhancing biodiversity and sustaining the quality of user experiences.</p> <p>The SMP work align with Strategy 4.2 of the APLMS - <i>Enhance the ecological health of Park Lands Watercourses</i> and the following related actions:</p> <ul style="list-style-type: none"> • <i>Minimise the impact of stormwater runoff on Park Lands watercourses while reducing food risk.</i> • <i>Improve the ecological condition of all Park Lands watercourses.</i> • <i>Create wetlands and ephemeral stormwater detention basins to enhance the visual, recreational and biodiversity amenity of the Park Lands creeks.</i> • <i>Re-establish self-sustaining, healthy aquatic ecosystems through revegetation with native aquatic plants and riparian revegetation in all Park Lands watercourses.</i> • <i>Re-imagine watercourses and wetlands in the Park Lands to enhance their value to biodiversity protection and informal recreation and provide interpretation to raise public awareness of their importance to sustaining the City environment.</i> <p>The APLMS identifies the following as key moves for the Victoria Park Precinct:</p> <ul style="list-style-type: none"> • <i>Develop significant wetlands with associated interpretation, boardwalks and other recreation opportunities, as part of a greater stormwater management plan. Restore the creek line immediately upstream and downstream as part of the works.</i> • <i>Provide improvements to the creek network generally, enabling better access and addressing water quality and stormwater management requirements.</i> <p>In addition, the following ‘future move’ was also identified in the APLMS:</p> <p>Victoria Park/Pakapakanthi</p> <p><i>Enhanced woodlands in the south of the park will draw people into a revitalised medium hub incorporating wetlands, interpretive and education facilities, boardwalks and a range of nature play and recreation opportunities linked to the rehabilitated creek that traverses the length of the southern Park Lands. As a crucial element of the Brown Hill Keswick Creek Stormwater Management Project, these wetlands and creek lines will be expanded and beautified to raise public awareness of their importance in greening the City and contributing to its carbon neutrality.</i></p>
<p>Policy</p>	<p>City of Adelaide Strategic Plan</p> <ul style="list-style-type: none"> • Green – Enhance biodiversity in the Park Lands and strengthen their role in achieving a carbon neutral city. • Green – Improve the ecological value of watercourses and biodiversity in the Park Lands • Liveable – Work with neighbouring councils and the State Government to enhance the facilities, attractions, landscapes and movement networks in the Park Lands to meet the needs and experiences of growing high-density communities in and near the City. <p>Integrated Biodiversity Management Plan 2018-2023</p> <ul style="list-style-type: none"> • Action 1.6: Seek opportunities to use watercourses and stormwater channels to enhance ecological connectivity within the Park Lands and with neighbouring areas; and • Action 3.2: Provide diverse opportunities for people to interact with nature in the Park Lands.
<p>Consultation</p>	<p>Extensive community consultation on development of the SMP was undertaken by the five catchment councils (Cities of Adelaide, Burnside, Mitcham, Unley and West Torrens) between 2011 and 2105.</p> <p>Public consultation on concept designs commenced on 4 June 2019 and ended on 5 July 2019. The consultation process included direct engagement with key stakeholders along with an advert in the City Messenger and signage erected on both sites. The outcomes of the community engagement are documents in Attachment A. Stakeholder engagement is continuing as part of the project’s delivery</p>

Resource	The Brown Hill and Keswick Creeks Stormwater Management Board – a regional subsidiary formed pursuant to section 43 of the <i>Local Government Act 1999</i> by the five constituent councils (Cities of Adelaide, Burnside, Mitcham, Unley and West Torrens).
Risk / Legal / Legislative	A flood event with a 100-year average recurrence interval (100-year ARI. Equivalent to a 1% Annual Exceedance Probability (AEP)) is estimated to affect over 2,000 properties and result in \$122M damages across the Brown Hill Keswick Creek (BHKC) catchment.
Opportunities	<p>The SMP also identifies important environmental and community benefits, including:</p> <ul style="list-style-type: none"> • Improved quality of stormwater discharge into marine receiving waters; • Beneficial re-use of stormwater, particularly for greening of urban open space areas; • Creek rehabilitation and protection of biodiversity; and • Improved recreational amenity in open space areas traversed by watercourses. <p>The Board's planned works for Victoria Park / Pakapakanthi (Park 16) and Blue Gum Park / Kurangga (Park 20) will compliment Council's South Park Lands Creek Rehabilitation Master Plan works which are being undertaken on the section of creek between Victoria Park / Pakapakanthi (Park 16) and Blue Gum Park / Kurangga (Park 20).</p>
19/20 Council Budget Allocation	Council has made a budget provision of \$650,000 for 2019/20 as its contribution towards the capital works and administrative costs associated with the overall SMP project.
Proposed Council 20/21 Budget Allocation	<p>\$530,000 budget provision for 2020/21 as Council's contribution towards the Board's capital and operating costs associated with the wider Brown Hill Keswick Creek Stormwater Project (value to be confirmed - subject to Council's 2020/2021 Integrated Business Plan and Budget process)</p> <p><u>Note on the Board's long-term funding arrangements:</u></p> <p><i>The Stormwater Management Authority are committed to funding 50% of the estimated \$140m overall investment required to deliver the multi-year program of works identified in the Stormwater Management Plan. As bound by the Board's Charter, the remaining 50% is to be funded by the Board's Constituent Councils, with the split in costs being apportioned as follows;</i></p> <ul style="list-style-type: none"> • City of Adelaide: 8% • City of Mitcham: 10% • City of Burnside: 12% • City of Unley: 21% • City of West Torrens: 49% <p><i>The operational and maintenance costs incurred by the Board is split equally, with each Constituent Council contributing 20% of the costs.</i></p>
Life of Project, Service, Initiative or (Expectancy of) Asset	50 – 100 years
19/20 Budget Reconsideration (if applicable)	Not as a result of this report
Ongoing Costs (eg maintenance cost)	Maintenance and management costs will be apportioned equally (20%) to each catchment council.
Other Funding Sources	The State Government has committed 50% of the \$140M estimated cost, or \$70M, of implementing the SMP over a 20-year period. The constituent councils will continue to engage with the Commonwealth Government to seek additional funds.

DISCUSSION

Project Background

1. The Stormwater Management Authority (SMA) exercised its power under Schedule 1A of the *Local Government Act 1999* (the Act) to order the five (5) catchment councils (Cities of Adelaide, Burnside, Mitcham, Unley and West Torrens) to develop a Stormwater Management Plan (SMP) for the BHKC catchment.
2. The main objective of the SMP is to reduce the impact of flooding from principal watercourses of the catchment (Brown Hill, Keswick, Parklands and Glen Osmond Creeks) for rain events up to a 100 year average recurrence interval (ARI) (equivalent to a storm with a 1% annual exceedance probability (AEP)). This includes reduction of the peak flows in Park Lands Creek to reduce the flooding risk to the mainly residential areas downstream of Greenhill Road as well as areas bordering the Park Lands.
3. The SMP identifies a number of discrete infrastructure projects to be carried out across the five council areas of the catchment, including stormwater detention facilities in the South Park Lands (Victoria Park / Pakapakanthi (Park 16) and Blue Gum Park / Kurangga (Park 20)).
4. Council has been provided with briefing sessions and reports on the development of the SMP over several years, culminating in a final report on proposed SMP works approved by Council on 22 September 2016.
5. The SMP was submitted to the SMA for approval in March 2016 and subsequently gazetted in March 2017.
6. In February 2017, the then Government of South Australia offered funding assistance to the project totalling 50% of the \$140M estimated cost (\$70M) over a twenty-year (20) period, which the five councils accepted.
7. A condition of the SMP approval by the SMA was that the five (5) catchment councils establish a regional subsidiary (a body corporate owned by the five councils) within 12 months.
8. The regional subsidiary known as the Brown Hill and Keswick Creeks Stormwater Board (Board) was gazetted on 28 February 2018, in terms of a charter prepared by the five constituent councils and approved by the Minister for Local Government with the principal purpose of the Board being to implement the SMP.
9. Tonkin, in collaboration with DesignFlow and Taylor Cullity Lethlean, were engaged in 2018 to complete the final design. Design development was progressed to an appropriate stage for community and stakeholder engagement. On 24 January 2019, concept designs were presented to APLA and notification of the Board's intent to undertake community consultation was provided.
10. In late June/ early July 2019, the Board undertook community and stakeholder consultation on the design intent and its impacts on the Park Lands and surrounding activities (including Adelaide Superloop 500, Australian International 3 Day Event, City Tree Climb and Club de Petanque D'Adelaide). The outcomes of that consultation are presented in **Attachment A**.
11. In addition, the Board has engaged Kurna community representatives and conducted an onsite meeting and walkover of both Victoria Park / Pakapakanthi (Park 16) and Blue Gum Park / Kurangga (Park 20) to discuss the planned works. The Board will continue to engage with Kurna representatives.
12. Following consultation feedback, the Board has progressed the designs for the proposed works in the Park Lands to a further level of detail, taking on board feedback from the community and stakeholders, where appropriate.

Planned Works - Overview and Key Benefits

13. The scope of works in the South Park Lands includes the establishment of stormwater detention facilities and associated drainage works within Victoria Park / Pakapakanthi (Park 16) and Blue Gum Park / Kurangga (Park 20). These proposed stormwater management works will reduce peak flows in the South Park Lands Creek which flows through the City of Adelaide and the City of Unley into Keswick Creek downstream.
14. The stormwater management works will reduce the likelihood of flooding to the South Park Lands and adjacent roads such as South Terrace and Hutt Street/Road as well as properties in downstream locations in the City of Unley. An inundation map is provided at the following link (Link 1 view [here](#)). It shows the anticipated extent and depth of flooding for a 1% Annual Exceedance Probability (AEP) event, which has a 1% likelihood of occurrence in any given year, once the designed works are built.
15. Overall, the project will result in a nett tree gain and support positive biodiversity, cultural, educational, recreational and habitat outcomes and opportunities.

16. The project includes several recreational benefits including walking trails around the wetland, maintaining the connectivity of the existing path networks, opportunities for community interaction with the creek and wetland, mounding / seating adjacent sporting fields and points of interest at intersections with shared Park Lands pedestrian and bicycle pathways.
17. The project provides for several community educational benefits with opportunities for interpretive signage explaining creek management outcomes and plants which have Aboriginal heritage value, water quality benefits and aquatic fauna.

Planned Works - Victoria Park / Pakapakanthi (Park 16)

18. A wetland is proposed at the southern end of Victoria Park / Pakapakanthi (Park 16) which includes areas of permanent water, areas that become inundated during “normal” flows and a broader area that will only become inundated during a large flood event. The wetlands incorporate mounding (‘berms’) up to 2.9 m high in some areas on the western, northern and south eastern sections of the site to help contain water during a flood event. The works will also include a range of features that facilitate recreational use of the area such as footpaths and walking trails that connect to the existing pathways, dedicated viewing areas, board walks and steppingstones for an “adventurous crossing of the water” and picnic areas.
19. A plan summarising the planned Park 16 works is provided as **Attachment B**.

Park 16 Temporary Stockpile Area

20. To construct the Park 16 wetland, a large stockpile area is required to enable proper soil material management. The soil profile in the project area is typically made of poor surface fills (some of which is contaminated), overlaying low-medium strength clays and deeper higher strength clays. The construction of the wetlands typically requires some disposal of the fill materials and re-use of the clays to construct the engineered bunds and mounds, as well as using the higher strength clays for the wetland’s clay liner, to retain water within the wetland.
21. The excavation requires some 130,000m³ of soil to be excavated and sorted, making this project challenging and complex with respect to soil management (i.e. excavation, hauling, stockpiling, sorting, classifying and reuse or disposal). Given the size of the wetland and footprint area it takes up in the South Park Lands, the project site is quite constrained with respect to the available construction working area with very little room to stockpile large amounts of soil for sorting and classifying.
22. To enable a cost-effective approach to the construction of the wetlands and management of the soils, a large stockpile area in the order of approximately 62,500m² (say 250m x 250m) is required adjacent the construction site. The Project has identified the existing grassed area to the north-east of the proposed wetlands as a suitable location for the stockpile site. This area is shown in **Attachment F**. Other areas nearby are widely used for sports and events, and unlikely to be available in any one time during the year to suit the project timeline. The stockpile site is expected to be in place for much of the project duration and towards the latter part of construction the area will be remediated to its former condition.

Interface with Victoria Park / Pakapakanthi (Park 16) Community Events

23. A key component to the construction of the project and establishment of the stockpile site is its relationship to community events which are held in Victoria Park / Pakapakanthi (Park 16) in late 2020 and early 2021. These events include the 3 Day International Horse Trials, Polo, Super Loop 500, Bloody Long Walk and Adelaide Motorsport Festival. The 3 Day International Horse Trials was recently cancelled due to the impacts from COVID-19 and Adelaide Motorsport Festival will not proceed in 2020 due to funding constraints.
24. The project team recently met with the remaining event organisers (Polo, Super Loop 500, Bloody Long Walk) to discuss the project in more detail. The discussions were positive with all organisers appreciating the challenges of the project’s construction and the need for the stockpile area, as well as the need to co-exist in the area south of the Victoria Park Racecourse. The parties are continuing discussions with a view to working through the detailed logistics between the establishment of the stockpile site and holding of the event.

Planned works - Blue Gum Park / Kurangga (Park 20)

25. The works in Blue Gum Park / Kurangga (Park 20) involve the construction of a low-level mound generally in an east-west direction (typically up to 1m high) and the realignment of the existing creeks in the southern section of the park. This section of the existing creek is in very poor condition, and the red gums that line the creek are vulnerable due to erosion.
26. The mounds will be constructed to the south and west of the existing playing fields and will stretch for a total distance of approximately 600 m. New open channels will bring together other existing drainage channels and the Park Lands Creek to a common point behind the mound (northern side) which will enable controlled

flows to be discharged under Greenhill Road and downstream. The existing shared use paths will be re-constructed to suit the new layout and the new drainage works will enable part of the existing creek alignment to be abandoned and backfilled with a porous material so that some flow of water can continue along the old alignment to support tree health.

27. A plan summarising the planned Park 20 works is provided as **Attachment C**.

Tree Climb - Blue Gum Park / Kurangga (Park 20)

28. The Tree Climb business is located within the project area and likely to be affected both by the design and during the construction of the works. The creation of the berm (continuous east-west mound) and new pathway will require subtle modifications for access to/from the Tree Climb kiosk. During construction, the works will be staged in such a way to manage the impacts on Tree Climb with respect to their business operations and preserving patronage access. This will involve staging construction in such way whereby areas of work will be 'fenced off' to ensure a clear separation between the work zones and public. Special purpose temporary pedestrian pathways and way-finding signage will also be used to ensure the various parts of the Tree climb routes can still be easily accessed and navigated.
29. The owners of Tree Climb have been engaged several times recently to discuss the proposed design and construction. These discussions will continue as part of the project's overall engagement.

Biodiversity and Environmental Management

30. The proposed works will provide the following benefits to the community:
- 30.1. Considers public safety in the vicinity of the wetland and creek through gentle batter slopes complimented by vegetation planting. Barriers are provided near steep slopes.
 - 30.2. Significant improvements to biodiversity through protection of existing plants and the introduction of a diverse range of suitable native species, including species of local provenance, along the creek corridor specifically suitable for the area. The footprint of the proposed works sits within a Key Biodiversity Area (KBA 1) under Council's *Integrated Biodiversity Management Plan 2018-2023*. KBA 1 comprises a Grey Box/ SA Blue Gum woodland vegetation community. The proposed wetland aligns with the conservation and management requirements for KBA 1.
 - 30.3. The KBA 1 also provides habitat for the Chequered Copper Butterfly (the area directly north of the wetland's edge). Consultation between Butterfly Conservation SA, Tonkin and CoA has determined that there will be minimal impact to the butterfly population if an agreed boundary is adhered to. It has also been agreed that the planting of local provenance specimens of the butterfly's larval food plant, *Oxalis perenanns* (native sorrel) will occur and maintenance actions will include dethatching of exotic grass.
 - 30.4. Environment Management Plans will be prepared to ensure that the construction and maintenance of the wetland will not negatively impact the KBA, with specific protections for the Chequered Copper Butterfly and the Management Agreement area (a joint management agreement between the CoA and the Minister for Environment and Water - (Link 2 view [here](#)) which contains a remnant of *Environment Protection and Biodiversity Conservation Act 1999* (Commonwealth) listed Grey Box Woodlands and Derived Native Grasslands. Tree protection zones will also be established under the EMP.
 - 30.5. The works will support Aboriginal cultural and heritage values in the South Park Lands through revegetation which will include plants which have Aboriginal heritage value such as for food, basketry and medicinal purposes.

Tree Removals – General

31. The design has been developed with a view to minimising tree removals wherever possible whilst working within many constraints. For instance, works within Park 20 will incorporate creek realignment and the use of underground culverts to protect, as far as is reasonably practicable, trees in the vicinity of the works. In Park 16, constraints to the available detention basin/wetland area include Beaumont Road to the west, Playing fields, an important remnant vegetation management zone and large Butterfly Conservation Zone to the north and the existing creek line and many large native gum trees to the South, all of which have been avoided.
32. Whilst the design has aimed to minimise the impact on trees, it will be necessary to remove several trees in both Park 16 and Park 20 to achieve the overall stormwater detention capacity and desired project outcomes.

33. Council, at the meeting of 13 April 2004 instructed that:

“That the removal of any significant tree, palm or group of more than 10 trees in the Park Lands or Squares or on Streets, by the administration or any contractor appointed by the administration, be brought before Council for approval.”

34. Removal of Regulated and Significant trees will require Development Approval.

Tree Removals – Park 16

35. The trees proposed for removal within Park 16 are shown on the tree removal plan in **Attachment D** and can generally be classified into 3 categories;
- 35.1. Two regulated trees have been identified for removal - for details on these trees, refer to tree ID Numbers 61 and 68 in the Arborist report (Link 3 view [here](#)).
 - 35.2. 31 less mature, unregulated or exempt trees which are scattered at various positions around the footprint of the works have been identified as requiring removal. Of these 31 trees, 19 are less than 5m tall and as such have not been included in the Arborist report or given individual ID numbers. Their locations, however, are shown on the tree removal plan.
 - 35.3. A grove of approximately 60 White Poplar trees, planted in the 1950s on the northern bank of the creek must be removed to accommodate the detention basin/wetlands. These trees are classified as exotic species (woody weeds) which, in accordance with the *Development Regulations 2008*, are exempt from requiring Development Approval for their removal, regardless of size. White Poplars pose an issue for natural resource management as their dense growth is capable of blocking and diverting natural watercourses which can in turn lead to localised erosion and flooding. Their ability to produce root systems that stem deeply and spread freely, combined with reproduction mainly via the spread of suckers results in difficult eradication of these plants.

To the south of the grove of Poplars is a dense background of native gum trees, both mature specimens and younger trees, so the removal of the Poplars will not have a major effect on the visual landscape except to reveal this stand of native trees. Illegal camping and littering within the grove of Poplars has been problematic over the years.

Tree Removals – Park 20

36. The trees proposed for removal within Park 20 are shown on the tree removal plans in **Attachment E** and can also be classified into 3 general categories;
- 36.1. Within Park 20, two regulated and two significant trees have been identified for removal – for details on these trees, refer to tree ID Numbers 19, 95, 96 and 108 in the Arborist report (Link 4 view [here](#)).
 - 36.2. Additionally, it is necessary to remove 83 less mature, unregulated or exempt trees from various locations within Park 20 to achieve the target outcomes of the project. Of these 83 trees, 26 are less than 5m tall and as such have not been included in the Arborist report or given individual ID numbers. Their locations, however, are shown on the tree removal plans.
 - 36.3. Of the 83 trees mentioned above, approximately 20 are Poplar trees that generally line the existing open creek channel to the south of Park 20. They have been identified as being necessary to remove in order to accommodate a new section of improved creek channel. The existing culvert under Greenhill Road in this location is a constraint that restricts options in this area, necessitating the removal of these trees. These trees are classified as exotic species (woody weeds) which, in accordance with the *Development Regulations 2008*, are exempt from requiring Development Approval for their removal, regardless of size.

New vegetation

37. Across both Parks 16 and 20, The design incorporates planting 167 native species trees (45 litre or 25 litre pot sizes depending on species) and over 124,000 new plants. The location, number and species of trees to be planted will be cognisant of the environment landscape and will be consistent with relevant Council strategy documents including the Park Lands Management Strategy. All planting will align with the Management Plan – Victoria Park / Pakapakanthi Remnant Vegetation (Link 5 view [here](#)), which states that *“the adjacent revegetation area south of the (fenced remnant vegetation) site will be managed to complement the ecological objectives of this Plan.”* The project will result in a nett tree gain. It should be noted that it will take time for the planted vegetation to develop and mature to achieve the planned aesthetic outcome.

Next Steps and Timeline

38. Tendering for the project's construction is proposed to commence in June 2020 (following completion of the design) and with construction targeted to commence in September 2020. The construction duration is expected to be in the order of 12 months with a significant amount of the work being conducted in the drier months of October 2020 through to April 2021 when weather conditions are more favourable for bulk earthworks. Landscaping will follow in April through June 2021, during cooler conditions, thereby allowing maximum opportunity for the plant establishment phase. The project is also investigating opportunities to conduct 'early works' such as pipe and culvert installations over the months of July/August particularly in Park 20 which is an off-peak time of year for Tree Climb thereby reducing the extent of works and impacts on them during the main works later on in the year.
39. The Board will soon be seeking Council's approval for the proposed works to proceed, as required by the Board's Charter and as the custodian/landlord of the South Park Lands.
40. In parallel to seeking Council approval, the Board will be progressing development approval applications prior to the works commencing.

ATTACHMENTS

Attachment A – Engagement Summary Report – Proposed works in the South Park Lands (Report prepared by URPS)

Attachment B – Plan showing planned Park 16 scope of works

Attachment C – Plan showing planned Park 20 scope of works

Attachment D – Plan showing planned Park 16 tree removals

Attachment E – Plan showing planned Park 20 tree removals

Attachment F – Plan showing planned Park 16 temporary soil stockpile site

- END OF REPORT -



Brown Hill Keswick Creek Stormwater Project
September 2019

Engagement Summary Report
Proposed works in the South Park Lands

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Item 3.1 - Attachment A



Summary Engagement Report

September 2019

Lead consultant	URPS
Prepared for	Brown Hill Keswick Creek Stormwater Project
Consultant Project Manager	Nicole Halsey, Director Suite 12/154 Fullarton Road (cnr Alexandra Ave) Rose Park, SA 5067 Tel: (08) 8333 7999 Email: nicole@urps.com.au

Document history and status

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V1	18.7.19	Z. Hambour	N. Halsey	Initiation of report
V2	23.07.19	Z. Hambour		With initial edits from client
V3	24.09.19	Z. Hambour		Final for release

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Item 3.1 - Attachment A



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Item 3.1 - Attachment A



1.0 Introduction

As part of the works necessary to manage stormwater, mitigate serious flood risks and help safeguard properties across the catchment, the Brown Hill Keswick Creek Stormwater Project is seeking to:

- Construct a wetland at the southern end of Victoria Park/ Pakapakanthi (Park 16)
- Undertake channel works and create low-level mounding in Blue Gum Park/ Kurangga (Park 20).

To assist in finalising the design work for both of these initiatives the project engaged with stakeholders and the community.

This report provides a summary of this engagement including the process used to engage and feedback received. It should be noted that regarding the proposed wetland at Victoria Park/ Pakapakanthi (Park 16) a number of engagement processes have been undertaken and reported on since that contributed to the development of the final concept design.

The feedback received will be used to finalise the designs for both locations ready for any necessary approval processes.

1.1 What were the objectives of the engagement?

The objectives of the engagement were to:

- Communicate about the proposed works at Victoria Park/ Pakapakanthi (Park 16) and Blue Gum Park/ Kurangga (Park 20)
- Provide the opportunity and a point of contact for seeking clarification, asking questions and providing feedback about the proposed works.

1.2 Key lines of enquiry

The engagement addressed the following lines of enquiry with community and stakeholders:

- What was liked about the proposed works
- What wasn't liked about the proposed works
- Overall levels of support for the proposed works
- Any other comments.



2.0 How was the engagement undertaken?

The engagement opened on Tuesday 4 June 2019 and closed at 5pm on Friday 5 July 2019. The engagement sought feedback via an online feedback form however some responses were received via email or phone calls. A copy of the form is provided at Appendix A.

2.1 How was the engagement promoted?

To maximise participation in the engagement, it was promoted through the following avenues:

- Signage located throughout Victoria Park/ Pakapakanthi (Park 16) and Blue Gum Park/ Kurangga (Park 20) (refer Appendix B)
- A public advertisement placed in the City Messenger on 5 June 2019 (refer Appendix C)
- Direct mail/email to identified stakeholders inviting feedback and providing a direct link to information brochures summarising the proposed works (refer Appendix D)
- A project webpage on the Brown Hill Keswick Creek Stormwater project website
- A project webpage on City of Adelaide's Your Say website where people could view information brochures and see how to provide feedback.

Two information brochures were prepared summarising the proposed works in Park 16 and Park 20 (refer Appendix E). These brochures provided:

- Information about what is proposed including concept designs
- Responses to 'frequently asked questions'
- Invitation to complete the online feedback form
- Contact details for more information
- A summary of next steps.

2.2 Who participated in the engagement?

In total 30 responses were received as follows:

- Twenty-five online feedback responses were completed (Appendix F)
- Three written submissions were received (Appendix G)
- Two phone call responses were documented (Appendix G)

For those who completed the online survey, eight were from the City of Adelaide and seventeen were from other areas of Adelaide. Fourteen respondents reported that they "live near the South Park Lands".



3.0 Summary of feedback received

This section of the report summarises the feedback received on the proposed works at Victoria Park/ Pakapakanthi (Park 16) and Blue Gum Park/ Kurangga (Park 20). Verbatim comments received through the online feedback form and written responses and a summary of phone call responses can be viewed in Attachments E and F.

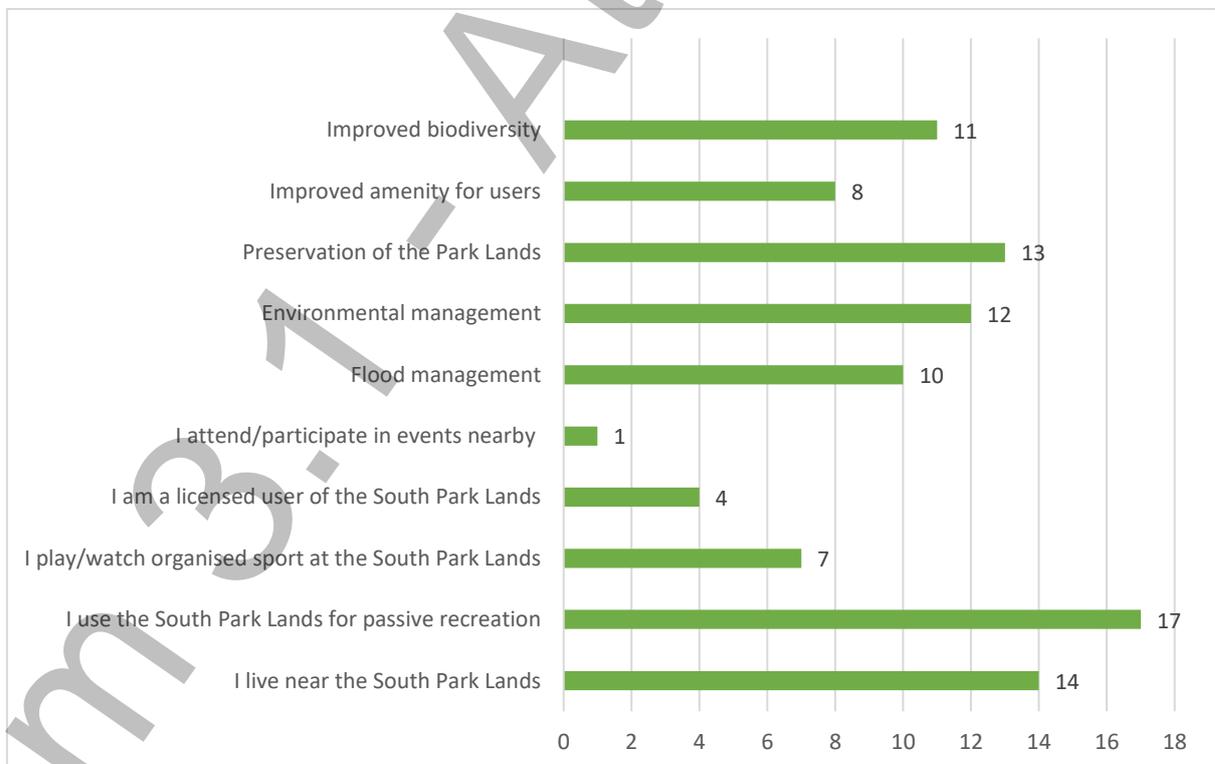
The feedback received via the written submissions and phone calls has been analysed and reported on together with the online feedback form results because the content of the extra submissions can be aligned to the lines of enquiry of the online feedback form.

3.1 Nature of interest in the South Park Lands

Figure 1 shows the nature of online survey respondents' interest in the South Park Lands¹.

The majority of the 25 respondents use the South Parklands for passive recreation (17) and many live near them (14). Around half of the respondents had an interest in the environmental management (12), biodiversity (11), preservation (13) or flood management (10) of the Park Lands. Four respondents were a licenced user of the of the South Park Lands and 7 played or watched sport there.

Figure 1 Nature of interest in the South Park Lands (25 respondents. Respondents could choose more than one interest)



¹ Note respondents could select more than one interest



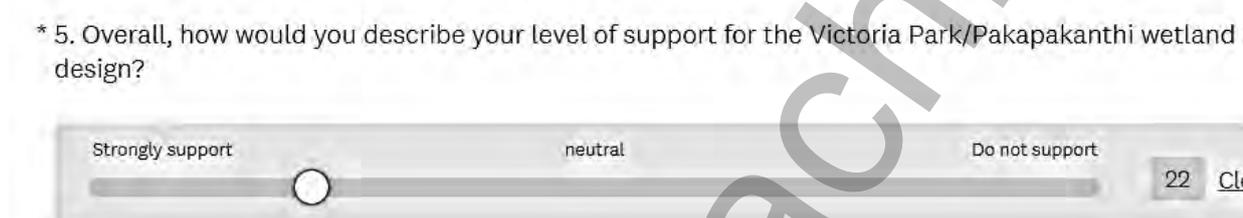
3.2 Proposed wetland design at Victoria Park/ Pakapakanthi (Park 16)?

3.2.1 Level of support for the proposed wetlands design

The online feedback form asked respondents to describe their overall level of support for the proposed wetland design using a sliding scale ranging from strongly support (score of 0), through to neutral (score of 50) through to do not support (score of 100).

Most respondents support the wetland design with the average level of support overall being scored at 22.32 out of 100 (Figure 2).

Figure 2 Level of support for wetlands proposed design



3.2.2 What was liked about the proposed wetlands design?

One of the strongest areas of support for the proposed wetland design related to the planting of native vegetation, restoration of biodiversity, the environmental value of the wetlands and the retention of native trees. Examples of respondent's comments that reflect this view include:

- > *Biodiversity and mixed land use*
- > *The wetlands*
- > *Design incorporates improving biodiversity and improving environmental health*
- > *The wetlands, incorporating biodiversity of plant life and community accessibility.*

Another strong area of support was that respondents liked the look of the plan or thought the design was well thought out, for example:

- > *The overall design we believe is good and we're delighted that, at long last, this is happening!*
- > *Aesthetically pleasing*
- > *It is interesting, diverse, completely enticing*
- > *Environmentally friendly, appealing design.*

Many respondents also valued the flood management and mitigation aspects of the design, for example:

- > *I like that it will change according to the season/weather and that flooding will be embraced as a natural and necessary part of the annual cycle of the creek*
- > *Reducing the flooding risk will be great for the suburbs*
- > *Stormwater improvements*
- > *Use of the space to improve environmental water management.*



Respondents also appreciated that the plan acknowledged and encouraged community use such as dog walking and sport, for example:

- > *The incorporation of public space*
- > *It will provide another recreational area for locals and people who use the parkland on a regular basis*
- > *Retention of running track and mounding to create interest and protection of sports fields from flooding, the adventure crossing, picnic areas, 1:40 viewing platform, bird hide*
- > *The ability to walk my dog in a beautiful environment.*

Some respondents valued the contribution of paths in the design and the interesting “terrain” created by varying forms, heights and surface, for example:

- > *2m footpaths, retention of most paths*
- > *It has good aesthetics and there are ample walking tracks*
- > *Variety of terrain and habitats.*

3.2.3 What wasn't liked about the proposed wetlands design?

In general, few concerns were raised relative to the positive feedback received.

The strongest area of concern for respondents was the removal of trees, in particular if any significant native trees were to be removed. Some wanted more detail about which trees specifically would be removed. For example:

- > *I think its really important to maintain the taller trees at the southern end of Victoria Park*
- > *Removal of trees (native)*
- > *The plans do not show which trees are to be removed. I am totally opposed to the removal of significant native vegetation species.*

A few concerns were raised in relation to whether the design would limit access to particular users (eg. Parkrun, dog walkers etc), for example:

- > *Potential encroachment on parkrun course*
- > *I don't see anything that immediately jumps out as addressing any changes to how the park is currently used ie for dog walking. A change to that would be my only concern*
- > *Assuming that there is no impact on sporting fields*
- > *Displaces the only model aircraft zone available to general public in the whole of the Adelaide Park Lands.*

A few concerns were also raised relating to the potential impacts of construction work required in general and in relation to native plants and animals specifically, for example:

- > *Large scale – will have construction impacts*
- > *(we) would like to draw your attention to the possible presence of native grasses and groundcover species in the area which may be impacted by the earthworks/construction of the wetland. We would advocate for their translocation into recipient sites, wherever possible*
- > *No mention of existing wildlife and how these species will be mitigated with removal of large trees (eg. nesting boxes for birds, possums, bats etc to replace lost hollows).*



Areas of concern raised by two or less respondents included:

- The potential of mosquitos or the pools drying up
- The accessibility of the wetland design for people with mobility issues could be improved. In particular the stairs on the eastern side and addressing the challenge of getting from Beaumont Road car park to the accessible viewing area on eastern side
- The need to regulate parking in the proposed car park to enable adequate supply for wetland visitors
- One concern about drowning risks
- One response that the whole approach was an illegal use of the Park Lands.

Some suggestions were made about other aspects that could be included in the wetlands design such as:

- A bird hide
- Toilets
- A path around the outside of the wetland
- Educational features about indigenous culture or biodiversity.

3.3 Proposed channel works and low-level mounding in Blue Gum Park/Kurangga (Park 20)

3.3.1 Level of support for the proposed channel works and low-level mounding

The online feedback form asked respondents to describe their overall level of support for the proposed channel works and low-level mounding using a sliding scale ranging from strongly support (score of 0), through to neutral (score of 50) through to do not support (score of 100).

Most respondents support the channel works and low-level mounding with the average level of support overall being scored at 23.72 out of 100 (Figure 3). This score is almost the same level of support to that for the wetland design at Victoria Park/ Pakapakanthi (Park 16).

Figure 3 Level of support for channel works and low-level mounding

8. Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?



3.3.2 What was liked about the proposed channel works and low-level mounding?

One of the strongest areas of support for the proposed channel works and low-level mounding related to the planting of native vegetation and restoration of creek lines, for example:

- > *Tree planting and footpaths*
- > *I like that the creek will be rehabilitated like other areas of the creek...I also like how the design considers the wellbeing of the existing red gums*
- > *Repair erosion in the existing creek*
- > *Replacing open areas not being used for recreation with new habitat, and improving existing creek*
- > *More trees being planted*

Another strong area of support was that respondents liked the look of the plan or thought the design was well thought out and made valuable use of underutilised space, for example:

- > *Looks excellent and environmentally friendly. It all appears well thought out*
- > *Great way to utilise a somewhat under-utilised space*
- > *The variety of terrain. Mounds and meandering channels better than flat straight lines*

Respondents also liked that the design supported existing users and recreational/community use, for example:

- > *Tree Climb facilities seem unaffected*
- > *... appreciates the flood mitigation works adjacent to the SPHTC and the existing ovals under our lease as well as the connection of paths in that area for community use*
- > *...minimal impact on existing park recreational use*



Some respondents valued the contribution of paths in the design, for example:

- > *It will be nice to walk/ride through the park on an elevation. Provides good demarcation between area*
- > *... as well as the connection of paths in that area for community use*

A few respondents also valued the flood management and mitigation aspects of the design, for example:

- > *It is a good design that will restore nature and reduce flooding*
- > *Flood management outcomes, low-level impact on the Park Lands overall...*

3.3.3 What wasn't liked about the proposed channel works and low-level mounding?

In general, few concerns were raised relative to the positive feedback received.

A few concerns/suggestions were raised relating to the establishment of, or impacts on, native plants and animals, for example:

- > *Not enough native planting*
- > *Lack of short-term mitigation for removal of existing trees (eg. provision of nest boxes, food resources)*
- > *(we) would like to draw your attention to the possible presence of native grasses and groundcover species in the area which may be impacted by the earthworks/construction of the wetland. We would advocate for their translocation into recipient sites, wherever possible*
- > *Concept plan does not detail many of the other benefits which would be provided by the new watercourse channels including biodiversity, water quality, habitat, indigenous culture, education...*

Two concerns were raised relating to public safety:

- *We look forward to the path in Kurangga being upgraded as part of the proposed works. However, we are concerned about the idea of putting that path on a 1m high mound, especially for those riding at night*
- *No dislikes, but it would be of interest to know risk mitigation strategies regarding people access and potential hazards during a 'flood' or overflowing of the channel. Are there plans to enclose the space or is it designed to prevent slips, falls and hazards?*

Two respondents had concerns relating to potential impacts on existing facilities

- > *We are concerned that low-level mounding will contain water lying to the existing oval to the north*
- > *Not clear how the creek will be designed and if the banks are laid back, will this have any impact on existing facilities?*

The same respondent as for the wetland design commented that the proposal was an illegal use of the Park Lands.



3.4 Anything else they would like the project to know?

Most respondents did not provide additional feedback relating to anything else they would like the project to know. Where they did this feedback reemphasised points from their feedback or suggested other actions. Points raised included:

- Commendation of the plans
- Desire to see other creeks in the Park Lands restored
- Desire for trash racks to be installed upstream of the Park Lands and on Parklands Creek where it crosses King William
- Wanting to ensure that the parkrun course would be maintained or that consultation would happen with its shifting
- Wanting dog walking to be maintained into the future
- Integration with future works on the BMX track and Tree Climb facilities
- Access for businesses and users during construction
- Desire for more bins
- Wanting to ensure that the cycle connection through Park 20 is maintained (looks a little steep in concept plan)
- Short term solutions to mitigate the loss of hollow bearing trees and food plants for native animals.

3.5 Interest in information session

The online feedback from also asked for respondents interest in attending an information session about the proposed works if one was to be held. Of the 25 respondents, 19 indicated they would be interested in attending an information session.

Appendix A – Online feedback form

Item 3.1 - Attachment A

As part of the works necessary to manage stormwater, mitigate serious flood risks and help safeguard properties across the catchment, the Brown Hill and Keswick Creeks Stormwater Board is seeking to:

- construct a wetland at the southern end of Victoria Park/ Pakapakanthi (Park 16)
- undertake channel works and create low level mounding in Blue Gum Park/Kurangga (Park 20)

To assist in finalising the design work for both of these initiatives the project is engaging with stakeholders and the community.

For further information about the proposed wetland and its design view the Victoria Park/ Pakapakanthi (Park 16) Information Brochure.

For further information about the proposed works in Blue Gum Park/Kurangga (Park 20) view the Blue Gum Park/Kurangga (Park 20) Information Brochure.

* 1. Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

* 2. What is the main nature of your interest in the South Park Lands?

- | | |
|---|---|
| <input type="checkbox"/> I live near the South Park Lands | <input type="checkbox"/> Flood management |
| <input type="checkbox"/> I use the South Park Lands for passive recreation (eg walking, jogging, dog walking) | <input type="checkbox"/> Environmental management |
| <input type="checkbox"/> I play/watch organised sport at the South Park Lands | <input type="checkbox"/> Preservation of the Park Lands |
| <input type="checkbox"/> I am a licensed user of the South Park Lands | <input type="checkbox"/> Improved amenity for users |
| <input type="checkbox"/> I attend/participate in events nearby (eg Three Day Event, Adelaide 500) | <input type="checkbox"/> Improved biodiversity |

Other (please specify)

3. What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

4. Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

* 5. Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

Strongly support neutral Do not support

6. What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

7. Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

* 8. Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

Strongly support Neutral Do not support

9. Is there anything else you would like us to know?

* 10. If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

- Yes
 No

If yes, please enter your email address

As part of the works necessary to manage stormwater, mitigate serious flood risks and help safeguard properties across the catchment, the Brown Hill and Keswick Creeks Stormwater Board is seeking to:

- construct a wetland at the southern end of Victoria Park/ Pakapakanthi (Park 16)
- undertake channel works and create low level mounding in Blue Gum Park/Kurangga (Park 20)

To assist in finalising the design work for both of these initiatives the project is engaging with stakeholders and the community.

For further information about the proposed wetland and its design view the Victoria Park/ Pakapakanthi (Park 16) Information Brochure.

For further information about the proposed works in Blue Gum Park/Kurangga (Park 20) view the Blue Gum Park/Kurangga (Park 20) Information Brochure.

* 11. Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

* 12. What is the main nature of your interest in the South Park Lands?

- | | |
|---|---|
| <input type="checkbox"/> I live near the South Park Lands | <input type="checkbox"/> Flood management |
| <input type="checkbox"/> I use the South Park Lands for passive recreation (eg walking, jogging, dog walking) | <input type="checkbox"/> Environmental management |
| <input type="checkbox"/> I play/watch organised sport at the South Park Lands | <input type="checkbox"/> Preservation of the Park Lands |
| <input type="checkbox"/> I am a licensed user of the South Park Lands | <input type="checkbox"/> Improved amenity for users |
| <input type="checkbox"/> I attend/participate in events nearby (eg Three Day Event, Adelaide 500) | <input type="checkbox"/> Improved biodiversity |

Other (please specify)

13. What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

14. Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

* 15. Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

Strongly support neutral Do not support

16. What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

17. Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

* 18. Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Strongly support Neutral Do not support

19. Is there anything else you would like us to know?

* 20. If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

- Yes
- No

If yes, please enter your email address



Appendix B – Promotional signage

Have your say!

As part of the works necessary to manage stormwater, mitigate serious flood risks and help safeguard properties across the catchment, the Brown Hill and Keswick Creeks Stormwater Board is seeking to:

- construct a wetland at the southern end of Victoria Park/ Pakapakanthi (Park 16)
- undertake channel works and create low level mounding in Blue Gum Park/Kurangga (Park 20)

To view the full information brochure and provide your feedback, complete the online feedback form at www.bhkcstormwater.com.au





Appendix C – Messenger advertisement

Have your say!

As part of the works necessary to manage stormwater, mitigate serious flood risks and help safeguard properties across the catchment, the Brown Hill and Keswick Creeks Stormwater Board is seeking to:

- construct a wetland at the southern end of Victoria Park/ Pakapakanthi (Park 16)
- undertake channel works and create low level mounding in Blue Gum Park/Kurangga (Park 20)

To view the full information brochure and provide your feedback, complete the online feedback form at www.bhkcstormwater.com.au



Consultation closes
5pm Friday 5 July 2019

Brown Hill Keswick Creek
STORMWATER PROJECT



Appendix D – Stakeholder letter



03 June 2019

[Redacted]

To whom it may concern,

Re: Brown Hill Keswick Creek Stormwater Project - South Park Lands

As an important stakeholder with an interest in the City of Adelaide Park Lands, I write to inform you that public consultation is due to commence on project works in the South Park Lands. Two initiatives are proposed for the South Park Lands as part of the implementation of the Project's broader stormwater management plan for the catchment. These works comprise:

- Construction of a wetland at the southern end of Victoria Park/ Pakapakanthi (Park 16)
- Undertaking channel works and creating low level mounding in Blue Gum Park/ Kurangga (Park 20)

These works are necessary to manage stormwater, mitigate serious flood risks and help safeguard properties across the catchment.

Please find attached two information brochures which explain what is proposed for Victoria Park/ Pakapakanthi (Park 16) and Blue Gum Park/ Kurangga (Park 20) and provide answers to a number of Frequently Asked Questions. Information relating to the project works and an online feedback form are also available on the project website www.bhkcstormwater.com.au

Should you have additional questions which are not covered in the information brochures or would like to discuss, please do not hesitate to contact the undersigned and I would be pleased to assist.

Kind Regards,

Peta Mantzarapis
Project Director

[Redacted]

Appendix E – Information brochures

Item 3.1 - Attachment A

Kurangga (Park 20) Plan

Design Focus

- Connected pathways
- Utilisation of existing assets incl. existing significant trees
- Maintaining sightlines and visual engagement
- Floodwater retention

Keys

-  Existing trees to be retained
 -  Proposed new trees
 -  Lawn
 -  Existing Oval
 -  Existing Tennis Courts
 -  Existing Petanque Court
 -  Tree Climb Centre & Structures
 -  Mound with Asphalt Shared Use Path on Top
 -  New Alignment of Park Lands Creek
 -  New Creek Convergence & Basin
 -  Backfilled Existing Creek
 -  Backfilled Section of Park Lands Creek (with Sub-Surface Drain)
- North 1:2000 @ A3

*To provide your feedback
on the proposed works,
complete the online feedback
form at
www.bhkcstormwater.com.au*

What do you think of the proposed stormwater management works in Blue Gum Park/Kurangga (Park 20) ?

The Brown Hill and Keswick Creeks Stormwater Board is seeking to undertake works in Blue Gum Park/Kurangga (Park 20) as part of the broader Brown Hill Keswick Creek Stormwater Project.

What is the Brown Hill Keswick Creek Stormwater Project?

Brown Hill, Keswick, Glen Osmond and Park Lands Creeks are important drainage watercourses in metropolitan Adelaide. The creeks have a history of flooding and a low standard of flood protection, and therefore a relatively high flood risk.

Their combined catchment is mainly contained within the local government areas of Adelaide, Burnside, Mitcham, Unley and West Torrens which are home to more than 200,000 residents.

The Brown Hill Keswick Creek Stormwater Project is a collaborative undertaking between the catchment councils to develop and implement a Stormwater Management Plan (SMP) to mitigate serious flood risks and help safeguard properties across the catchment.

Stormwater management works in Blue Gum Park/Kurangga (Park 20)

What is proposed for Blue Gum Park/Kurangga (Park 20)?

The works in Blue Gum Park/Kurangga (Park 20) involve the construction of a low-level mound (typically less than 1 metre high) and the realignment of existing creek lines in the southern section of the park. The mound will be constructed to the south and west of the existing playing fields and will stretch for a total distance of approximately 600 metres. A shared use path will be constructed on top of the mound.

The channel works will bring together two existing channels and Park Lands Creek to the north of the mound, with a single channel stretching from the mound to the crossing point of Park Lands Creek under Greenhill Road.

The works mean that the section of Park Lands Creek currently populated with red gums can be rehabilitated to support tree health. This section of the creek is in very poor condition, and the red gums are vulnerable due to erosion. The proposed works will enable this part of the creek to be 'abandoned' and backfilled with a porous material so that some flow of water can continue along the old creek alignment for the benefit of the trees.

Will there be any impact on existing users?

While there is not expected to be any longer-term impact on existing users of the space, there will be some restrictions on use of the area during the construction period. Any implications relating to specific users will be managed on a case by case basis.

How will the works help manage flooding issues?

Downstream of the convergence of the two channels and Park Lands Creek a culvert under the new mound will restrict the peak flows, limiting the outflows of water from Park 20. When flows exceed the capacity of the culvert, water will build up behind the mound and temporarily inundate parts of Park 20.

Will any trees be removed to undertake the works?

Minimising the impact of the works on existing trees within Park 20 has been a focus during the design development. While the design aims to minimise tree impacts it is not possible to avoid all of the trees and the removal of a number of trees within Park 20 will be required as part of the works.

As part of the design development a full arboreal assessment has been undertaken for all of the trees in the vicinity of the works.

The number of trees to be removed is not yet defined. The project will include the planting of new trees and will result in a net tree gain in Park 20.

What's next?

Feedback on the proposed works closes at 5pm Friday 5 July 2019

To provide your feedback, complete the online feedback form at www.bhkcstormwater.com.au.

Once all feedback has been considered, the design will be finalised and the necessary approvals for construction obtained. It is anticipated that construction will commence in 2020.

1800 934 325 info@bhkcstormwater.com.au

What do you think of the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

The Brown Hill and Keswick Creeks Stormwater Board is seeking to construct a wetland at the southern end of Victoria Park/ Pakapakanthi (Park 16).

The wetland is part of the broader Brown Hill Keswick Creek Stormwater Project and aims to reduce the peak flows in Park Lands Creek. Flows from this creek enter the City of Unley via a culvert under Greenhill Road.

In addition to contributing to the management of flooding in Park Lands Creek and downstream residential areas, the wetland will deliver a range of benefits including improving water quality, enhancing

the biodiversity of the area and creating amenity for park users, such as spaces to picnic, rest and watch sport.

The design for the wetland has been developed with regard to feedback from previous consultation processes.

To assist in finalising the design ready for the approval and construction process, the project is engaging with stakeholders and the community.

To provide your feedback on the wetland design, complete the online feedback form at www.bhkcstormwater.com.au

Victoria Park/ Pakapakanthi (Park 16) wetland

What is the Brown Hill Keswick Creek Stormwater Project?

Brown Hill, Keswick, Glen Osmond and Park Lands Creeks are important drainage watercourses in metropolitan Adelaide. The creeks have a history of flooding and a low standard of flood protection, and therefore a relatively high flood risk.

Their combined catchment is mainly contained within the local government areas of Adelaide, Burnside, Mitcham, Unley and West Torrens which are home to more than 200,000 residents.

The Brown Hill Keswick Creek Stormwater Project is a collaborative undertaking between the catchment councils to develop and implement a Stormwater Management Plan (SMP) to mitigate serious flood risks and help safeguard properties across the catchment.

What is proposed for Victoria Park/Pakapakanthi (Park 16)?

A wetland is proposed at the southern end of Victoria Park/Pakapakanthi (Park 16). The wetland will include areas of permanent water, areas that become inundated during 'normal' flows and a broader area that will only become inundated during a large flood event.

The wetland will include a range of features that facilitate recreational use of the area such as footpaths and walking trails that connect to the existing path network, dedicated native grassland meadows for butterfly habitat, board walks and viewing platforms, stepping stones for an 'adventurous crossing of the water' and picnic areas .

The design incorporates mounding ("berms") on the western, northern and south eastern sections of the site to help contain water during a flood event. The existing running track will be retained with the southern section of the track realigned slightly such that it is on

top of the northern mound, providing views over the sports fields to the north and the wetland to the south. There will be a shared used path on the top of the western mound. The mounding will be up to 2.9 metres in some locations.

How will the wetland help manage flooding issues?

The wetland is one of a number of discrete infrastructure projects that was identified by the Brown Hill Keswick Creek Catchment Stormwater Management Plan. The wetland and associated infrastructure will contribute to a reduction in flows in Park Lands Creek which joins with Glen Osmond Creek in Unley to form Keswick Creek. A second, complementary project is planned for Blue Gum Park/Kurangga (Park 20) (refer separate information brochure).

A culvert near the intersection of Fullarton Road and Greenhill Road discharges flows from the Burnside Council area into Park Lands Creek. There are additional inflows into the creek from City of Adelaide drainage systems along the length of the creek through the Park Lands, prior to discharging into the City of Unley via a culvert under Greenhill Road.

During high flow events the wetland and mounds will provide temporary detention storage. The wetland will reduce peak flows in Park Lands Creek during high flow events by as much as 55%. This, combined with the works proposed in Blue Gum Park/Kurangga (Park 20) , will contribute to a reduction in flows entering the City of Unley under Greenhill Road, thereby reducing the flooding risk to the mainly residential areas downstream.

Will there be any impact on existing users?

Given the nature of the wetland development, there may be a longer-term impact on some existing users of this space. Further, there will be restrictions on use of



the area during the construction period. Any implications relating to specific users will be managed on a case by case basis.

What benefits will the wetland deliver?

The primary function of the wetland is to reduce the flood risk, however the wetland will also deliver a range of other benefits including:

- Retention and enhancement of the existing butterfly habitat
- Improved biodiversity through diversification of plant and animal species
- Improved amenity and recreational facilities for park users
- Enhanced natural environment through improved

tree health along the creek line and removal of weed species

- Treatment of stormwater and improved water quality entering downstream receiving waters

What about mosquitoes?

Mosquitoes are generally not a problem in well-designed urban wetlands. Wetland designs incorporate deep pools of permanent water that provide a habitat for mosquito predators and this has been found to keep the mosquitoes at bay.



How will safety near the wetland be managed?

The wetland will be designed to ensure the safety of all users while encouraging close access to the water. The design will follow best practice design methods that help keep the users of the space safe. Measures such as gentle batters at the edges, incorporating safety benches and using thick vegetation to discourage entry at some locations will all be used for the wetland to avoid fencing.

Where people are encouraged to have direct access to the water, such as via viewing platforms and boardwalks over open water, kick rails and hand rails will be used.

Will any trees be removed to build the wetland?

One of the key considerations of the design optimisation process that has occurred since 2012 has been to minimise tree removal. A full arboreal assessment of trees in the vicinity of the works has been undertaken and the current concept only requires the removal of two significant native trees.

The existing stand of poplar trees on the northern bank of Park Lands creek will be removed. Poplars are a weed species and are not indigenous to the area.

The project will result in a net tree gain in Victoria Park/Pakapakanthi (Park 16).

What's next?

Development of the stormwater management plan and identification of recommended works has been many years in the making. Works specific to this wetland commenced in 2009 with a feasibility study and consultation. Extensive consultation, site investigations and design development have occurred since this time.

Feedback on the wetland design closes at 5pm Friday 5 July 2019

To provide your feedback, complete the online feedback form at www.bhkcstormwater.com.au.

Once all feedback has been considered, the design will be finalised and the necessary approvals for construction obtained.

It is anticipated that construction of the wetland will commence in 2020.



1800 934 325



info@bhkcstormwater.com.au



Appendix F – Online feedback form responses

Item 3.1 - Attachment A

Stormwater Management in the South Park Lands

#1

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Tuesday, June 04, 2019 11:30:04 AM
Last Modified: Tuesday, June 04, 2019 11:55:55 AM
Time Spent: 00:25:51
IP Address: 138.44.192.91

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

Adelaide

5000

Q2 What is the main nature of your interest in the South Park Lands?

I am a licensed user of the South Park Lands

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

NA

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

NA

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

50

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

The school appreciates the flood mitigation works adjacent to the SPHTC and the existing ovals under our lease as well as the connection of paths in that area for community use.

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

We are concerned that the low level mounding will contain water lying to the existing oval to the north. The grounds naturally drain in a south to south westerly direction

The existing pathway was raised several years ago and has resulted in extensive water pooling to the south west and southern sides to the existing oval. Consideration is needed to allow that area to drain...installation of grated sump with connecting pipe to creek or westwards towards Peacock Road area.

Stormwater Management in the South Park Lands

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? 1

Q9 Is there anything else you would like us to know?

The school's request is not only in the schools interest. We welcome the community use of Park 20 as well and wish to retain the amenity of the area and to maximise it's use as much as possible. The Board is commended for initiating this action.

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,

If yes, please enter your email address :

[REDACTED]

Stormwater Management in the South Park Lands

#2

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Monday, June 10, 2019 3:59:56 PM
Last Modified: Monday, June 10, 2019 4:07:15 PM
Time Spent: 00:07:19
IP Address: 1.124.110.176

Page 1

Q1 Tell us about you

Name

[REDACTED]

Organisation you are representing (if not applicable enter n/a) **N/A**

Suburb **Adelaide**

Post code **5000**

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands

I play/watch organised sport at the South Park Lands

Preservation of the Park Lands

I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Biodiversity and mixed land use

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

I think it is really important to maintain the taller trees at the Southern end of Victoria Park (as they create a block to busy traffic noise). I also hope this won't impact on the dog offlead areas currently in Victoria Park, as the space is well-suited and well-used for that purpose.

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

47

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Neutral

Stormwater Management in the South Park Lands

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

No

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

50

Q9 Is there anything else you would like us to know?

Respondent skipped this question

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

No

Stormwater Management in the South Park Lands

#3

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Monday, June 10, 2019 4:37:55 PM
Last Modified: Monday, June 10, 2019 4:49:38 PM
Time Spent: 00:11:43
IP Address: 101.173.26.251

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

n/a

goodwood

5034

Q2 What is the main nature of your interest in the South Park Lands?

Preservation of the Park Lands

I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Other (please specify):

Retain billabong at Eastern end of creek, it's home to frogs(one of the last areas) and ducks!

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

aesthetically pleasing, removal of poplar trees

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

removal of trees (native)

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

34

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

tree planting and footpaths.

Stormwater Management in the South Park Lands

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

Not enough native planting

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

35

Q9 Is there anything else you would like us to know?

More bins

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,
If yes, please enter your email address :



Item 3.1 - Attachment A

Stormwater Management in the South Park Lands

#4

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Thursday, June 13, 2019 12:31:01 PM
Last Modified: Thursday, June 13, 2019 12:42:58 PM
Time Spent: 00:11:57
IP Address: 192.43.227.18

Page 1

Q1 Tell us about you

Name

[REDACTED]

Organisation you are representing (if not applicable enter n/a)

n/a

Suburb

Unley

Post code

5061

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands ,

Environmental management,

Preservation of the Park Lands ,

Improved biodiversity ,

I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Flood management

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

I like that it will change according to the season/weather and that flooding will be embraced as a natural and necessary part of the annual cycle of the creek.

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

No

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

0

Stormwater Management in the South Park Lands

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

I like that the creek will be rehabilitated like the other areas of the creek, e.g. the one near the new playground to the east. I also like how the design considers the wellbeing of the existing red gums.

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

No

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

0

Q9 Is there anything else you would like us to know?

The shared use path in Park 20 is used regularly by morning commuters on bikes (myself included) who ride from the intersection of KW/Greenhill Rds and to the crossing of Unley Rd to Park 19. I hope that this connection will be maintained! (Some of the angles of the path to follow this route look a little steep on the concept plan)

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,

If yes, please enter your email address :

[REDACTED]

Stormwater Management in the South Park Lands

#5

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Thursday, June 13, 2019 2:23:09 PM
Last Modified: Thursday, June 13, 2019 2:32:25 PM
Time Spent: 00:09:16
IP Address: 14.2.91.218

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

Pakapakanthi parkrun

Lightsview

5085

Q2 What is the main nature of your interest in the South Park Lands?

I am a licensed user of the South Park Lands

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

the incorporation of public space

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

no

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

1

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Respondent skipped this question

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

Respondent skipped this question

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

0

Stormwater Management in the South Park Lands

Q9 Is there anything else you would like us to know?

The current Pakapakanthi parkrun 5km course utilises a significant portion of the trails in the southern section of the park. While it is understood that disruptions are inevitable, early advice and ongoing liaison with the event team [REDACTED] would be much appreciated.

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,
If yes, please enter your email address :

[REDACTED]

Item 3.1 - Attachment A

Stormwater Management in the South Park Lands

#6

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Friday, June 14, 2019 10:01:28 AM
Last Modified: Friday, June 14, 2019 10:05:58 AM
Time Spent: 00:04:30
IP Address: 103.232.209.163

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

N/A

Suburb

Unley

Post code

5061

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands

I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Flood management

Other (please specify):

My home is located adjacent Parklands Creek

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

The wetlands

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

No

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

0

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

It will be nice to walk/ride through the park on an elevation. Provides a good demarcation between areas.

Stormwater Management in the South Park Lands

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

No

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

0

Q9 Is there anything else you would like us to know?

No

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,

If yes, please enter your email address :

[REDACTED]

Stormwater Management in the South Park Lands

#7

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Friday, June 14, 2019 10:43:13 AM
Last Modified: Friday, June 14, 2019 10:54:28 AM
Time Spent: 00:11:15
IP Address: 103.232.209.163

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

N/A

Unley

5061

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands

Preservation of the Park Lands

Improved biodiversity

I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

The wetland design will be great for a couple of reasons: it will provide another recreational area for locals and people who use parkland on regular basis; reducing the flooding risk will be great for the suburbs.

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

No

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

2

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

It is a good design that will restore nature and reduce flooding.

Stormwater Management in the South Park Lands

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

No

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

1

Q9 Is there anything else you would like us to know?

No

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,

If yes, please enter your email address :

[REDACTED]

Stormwater Management in the South Park Lands

#8

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Friday, June 14, 2019 4:18:41 PM
Last Modified: Friday, June 14, 2019 4:29:44 PM
Time Spent: 00:11:03
IP Address: 61.68.31.194

Page 1

Q1 Tell us about you

Name [REDACTED]
 Organisation you are representing (if not applicable enter n/a) n/a
 Suburb **Norwood**
 Post code **5067**

Q2 What is the main nature of your interest in the South Park Lands?
 I live near the South Park Lands ,
 I play/watch organised sport at the South Park Lands ,
 Improved amenity for users ,
 I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

2m footpaths, retention of most other paths

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Potential encroachment on parkrun course

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design? **70**

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

No opinion

Stormwater Management in the South Park Lands

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

No opinion

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? **50**

Q9 Is there anything else you would like us to know?

It would be good to know that the Pakapakanthi parkrun course is to be accommodated and/or improved as part of these works.

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands? **No**

Stormwater Management in the South Park Lands

#9

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Saturday, June 15, 2019 5:23:11 AM
Last Modified: Saturday, June 15, 2019 5:30:51 AM
Time Spent: 00:07:40
IP Address: 121.45.113.130

Page 1

Q1 Tell us about you

Name [REDACTED]
 Organisation you are representing (if not applicable enter n/a) N/a
 Suburb Parkside
 Post code 5063

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands ,
 I play/watch organised sport at the South Park Lands ,
 I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)
 ,
 Other (please specify):
 Parkrun

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Stormwater improvements

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Large scale - will have construction impacts

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

51

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Repair erosion in existing creek

Stormwater Management in the South Park Lands

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

Not sure

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? **50**

Q9 Is there anything else you would like us to know?

Info brochures hard to read. Difficult to work out where works are proposed. No location plan. Hard to identify existing features on drawings. Very concerned about access during construction especially pakapakanthi Parkrun Saturday mornings

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands? **No**

Stormwater Management in the South Park Lands

#10

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Monday, June 17, 2019 11:24:58 AM
Last Modified: Monday, June 17, 2019 11:33:03 AM
Time Spent: 00:08:05
IP Address: 103.209.191.80

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

[REDACTED]
City of Adelaide (Sport & Recreation)

Adelaide**5000****Q2 What is the main nature of your interest in the South Park Lands?**

I live near the South Park Lands ,

I play/watch organised sport at the South Park Lands ,

I am a licensed user of the South Park Lands ,

I attend/participate in events nearby (eg Three Day Event, Adelaide 500)

Environmental management,

Preservation of the Park Lands ,

Improved amenity for users ,

Improved biodiversity ,

I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Flood management ,

Other (please specify):

Managing all forms of recreation, maximising sport and recreation opportunities

Stormwater Management in the South Park Lands

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

retention of running track and mounding to create interest and protection of sports fields from flooding, the adventure crossing, picnic areas, 1:40 viewing platform, bird hide

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

- stairs proposed on eastern side (point 15) – difficult for accessibility - use universal design principles
- looks like it will be difficult for people with mobility issues to get from the parking on Beaumont Rd to the accessible viewing area on the eastern side – this needs to be further considered as closest accessible parking will be on western side
- assuming that there is no impact on the sporting fields
- this displaces the only model aircraft zone available to the general public in the whole of the Adelaide Park Lands. It is the only zone that is outside of the restrictions placed by CASA and the flightpath for Adelaide Airport.

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design? 9

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Tree Climb facilities seem unaffected (although note concern about central building and how a raised path will interact with this facility)

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

Not clear how the creek will be designed and if banks are laid back, will this have any impact on existing facilities?

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? 5

Q9 Is there anything else you would like us to know?

Would like to catch up to discuss integration with the BMX Master Plan in Kurranga and other CoA recreation and sport impacts at a later date.

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands? No

Stormwater Management in the South Park Lands

#11

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Monday, June 17, 2019 8:12:33 PM
Last Modified: Monday, June 17, 2019 8:27:46 PM
Time Spent: 00:15:13
IP Address: 58.104.233.186

Page 1

Q1 Tell us about you

Name [REDACTED]
Organisation you are representing (if not applicable enter n/a) n/a
Suburb Adelaide
Post code 5000

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands ,
 I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)
 ,
 Flood management

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

use of the space to improve environmental water management

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

i think it wont include the part of the park that currently floods . this area is near but not included in your design. you need to work out how to incorporate the water that flows through this area, and nothing in your plan mentions this.

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

15

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

sorry but your design brochure is too hard to read to determine where the works will be undertaken.

Stormwater Management in the South Park Lands

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

cant read map in the brochure

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

51

Q9 Is there anything else you would like us to know?

what will the wetlands do regarding the corrella population which is currently out of control? Will it attract even more of them? How will you manage the risk of drowning of small children? this wetland is very close to residential areas whereas i don't think the Salisbury wetland is. What happens if there is drought-does it become a mosquito infested mud plain?

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,

If yes, please enter your email address :

[REDACTED]

Stormwater Management in the South Park Lands

#12

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Tuesday, June 18, 2019 9:58:09 AM
Last Modified: Tuesday, June 18, 2019 10:22:28 AM
Time Spent: 00:24:19
IP Address: 129.127.105.114

Page 1

Q1 Tell us about you

Name [REDACTED]
Organisation you are representing (if not applicable enter n/a) n/a
Suburb Unley
Post code 5061

Q2 What is the main nature of your interest in the South Park Lands?
 I live near the South Park Lands ,
 I play/watch organised sport at the South Park Lands ,
 Environmental management,
 Preservation of the Park Lands ,
 Improved biodiversity ,
 I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)
 ,
 Flood management

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Design incorporates improving biodiversity and environmental health

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

No mention of existing wildlife and how impacts on these species will be mitigated with removal of large trees (eg. nesting boxes for birds, possums, bats etc to replace lost hollows)

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design? **10**

Stormwater Management in the South Park Lands

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Replacing open areas not being used for recreation with new habitat, and improving existing creek

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

Lack of short-term mitigation for removal of large existing trees (eg. provision of nesting boxes, food resources)

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? **20**

Q9 Is there anything else you would like us to know?

The trees lining the path along the northern boundary of the plan harbour an extraordinary amount of bird and animal life, as they are the only hollows in the area. It is crucial that these trees are kept, otherwise biodiversity would be lost.

While trees will be planted to replace removed trees, this will take decades to mitigate their loss. There should be more short-term options, such as adding nesting boxes of all sizes (I frequently see owls, micro-bats, possums, lorikeets, rosellas, galahs, and kookaburras, all of which need new homes) and quick-growing, nectar and seed-producing plants to provide short-term solutions for existing wildlife.

I live 500m away from the park and use it multiple times a day (walking to work, bird-watching and sports). I fully support the plan and am excited to see the product. BUT, I hope the wildlife that we share the space with already are considered, as they are crucial to improving the overall health of the system.

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,

If yes, please enter your email address :

[REDACTED]

Stormwater Management in the South Park Lands

#13

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Wednesday, June 19, 2019 7:55:35 AM
Last Modified: Wednesday, June 19, 2019 8:04:58 AM
Time Spent: 00:09:23
IP Address: 49.178.32.200

Page 1

Q1 Tell us about you

Name [REDACTED]
 Organisation you are representing (if not applicable enter n/a) n/a
 Suburb Daw Park
 Post code 5041

Q2 What is the main nature of your interest in the South Park Lands?

Environmental management,
 Preservation of the Park Lands,
 Improved biodiversity,
 I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

the wetlands, incorporating biodiversity of plant life and community accessibility

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

there needs to be public toilets

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design? 0

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

more trees being planted

Stormwater Management in the South Park Lands

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

no

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

50

Q9 Is there anything else you would like us to know?

no

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,
If yes, please enter your email address :

[Redacted]

Item 3.1 - Attachment A

Stormwater Management in the South Park Lands

#14

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Wednesday, June 19, 2019 8:53:44 AM
Last Modified: Wednesday, June 19, 2019 8:59:57 AM
Time Spent: 00:06:13
IP Address: 58.174.179.26

Page 1

Q1 Tell us about you

Name [REDACTED]
Organisation you are representing (if not applicable enter n/a) n/a
Suburb goodwood
Post code 5034

Q2 What is the main nature of your interest in the South Park Lands?

I play/watch organised sport at the South Park Lands
 Environmental management,
 Preservation of the Park Lands
 Improved amenity for users
 Improved biodiversity
 I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)
 Flood management

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

It is interesting, diverse, completely enticing. And it helps flood control. ? helps replenish the aquifers

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

nothing at all.

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

0

Stormwater Management in the South Park Lands

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)? Respondent skipped this question

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? Respondent skipped this question

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? 1

Q9 Is there anything else you would like us to know? Respondent skipped this question

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands? Yes,
If yes, please enter your email address :
[REDACTED]

Stormwater Management in the South Park Lands

#15

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Wednesday, June 19, 2019 4:55:26 PM
Last Modified: Wednesday, June 19, 2019 5:07:50 PM
Time Spent: 00:12:24
IP Address: 123.136.53.47

Page 1

Q1 Tell us about you

Name [REDACTED]
Organisation you are representing (if not applicable enter n/a) N/A
Suburb Adelaide
Post code 5000

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands ,
 Environmental management,
 Preservation of the Park Lands ,
 Improved amenity for users ,
 Improved biodiversity ,
 I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)
 ,
 Flood management

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

It's overall design we believe is good and we're delighted that, at long last, this is happening! We've been waiting years since it was first mooted.

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

No .. unless you can make it bigger.

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

0

Stormwater Management in the South Park Lands

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Overall design.

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

No.

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? 0

Q9 Is there anything else you would like us to know?

Just that we will look forward to the remaining creek area west of the bridge near the South Tce Croquet Club being finished. Something of a challenge here due to the magnificent gum trees which, hopefully, will remain. Well done Council on the great work that has been done in this creek area recently. What a difference!

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands? Yes,
If yes, please enter your email address : 

Stormwater Management in the South Park Lands

#16

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Thursday, June 20, 2019 11:28:14 AM
Last Modified: Thursday, June 20, 2019 11:36:23 AM
Time Spent: 00:08:09
IP Address: 1.125.104.67

Page 1

Q1 Tell us about you

Name [REDACTED]
Organisation you are representing (if not applicable enter n/a) n/a
Suburb Hackney
Post code 5069

Q2 What is the main nature of your interest in the South Park Lands? Environmental management

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

It has good aesthetics and there are ample walking trails

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Is the viewing platform the only place to view? Could there be a birdhide as well?

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design? 1

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Looks excellent and environmentally friendly

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

It all appears well thought out

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? 0

Stormwater Management in the South Park Lands

Q9 Is there anything else you would like us to know?

Respondent skipped this question

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

No

Item 3.1 - Attachment A

Stormwater Management in the South Park Lands

#17

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Tuesday, June 25, 2019 2:06:14 PM
Last Modified: Tuesday, June 25, 2019 2:11:24 PM
Time Spent: 00:05:10
IP Address: 101.166.164.90

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

n/a

Dulwich

5065

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands

I play/watch organised sport at the South Park Lands

Preservation of the Park Lands

Improved amenity for users

I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Respondent skipped this question

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

The plans do not show which trees are to be removed. I am totally opposed to the removal of significant native vegetation species. This detention basin is unlikely to have water year round, so trees may survive inundation. Why not leave them and find out? I would also like to see a walking path around the perimeter of the wetland.

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

37

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Nothing in particular

Stormwater Management in the South Park Lands

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

No

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

51

Q9 Is there anything else you would like us to know?

No

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,

If yes, please enter your email address :

[REDACTED]

Stormwater Management in the South Park Lands

#18

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Wednesday, June 26, 2019 2:31:17 PM
Last Modified: Wednesday, June 26, 2019 2:35:22 PM
Time Spent: 00:04:05
IP Address: 49.178.66.84

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

N/a

St Georges

5064

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands

I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Ability to walk my dog off lead in a beautiful environment

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

I don't see anything that immediately jumps out as addressing any changes to how the park is currently used ie for dog walking. A change to that would be my only concern

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

18

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Great way to utilise a somewhat under-utilised natural space

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

N/a

Stormwater Management in the South Park Lands

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? **16**

Q9 Is there anything else you would like us to know?

So long as people like myself can continue to walk our dogs off lead around the park, I have no objections. If that changes, there will be a large volume of complaints as you would be taking away one of the few places we can walk our dogs in freedom

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands? **No**

Stormwater Management in the South Park Lands

#19

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Thursday, June 27, 2019 2:52:11 PM
Last Modified: Thursday, June 27, 2019 2:58:04 PM
Time Spent: 00:05:53
IP Address: 59.167.92.7

Page 1

Q1 Tell us about you

Name [REDACTED]
Organisation you are representing (if not applicable enter n/a) n/a
Suburb leabrook
Post code 5068

Q2 What is the main nature of your interest in the South Park Lands?

Environmental management,
 Improved amenity for users ,
 Improved biodiversity

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

environmental friendly, appealing design

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

no

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

0

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

environmental friendly and effective use of available land

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

no

Stormwater Management in the South Park Lands

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? 0

Q9 Is there anything else you would like us to know?

The more we can make the parkland more user friendly, the more attractive and environmental sound the better. Parts of it during summer are a desolate unattractive dust bowl. The wetlands are a positive use of excess water which would normally simply flow through drains to the sea.

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,

If yes, please enter your email address :

[REDACTED]

Stormwater Management in the South Park Lands

#20

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Monday, July 01, 2019 11:44:19 AM
Last Modified: Monday, July 01, 2019 11:50:41 AM
Time Spent: 00:06:22
IP Address: 61.68.181.252

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

n/a

parkside

5063

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands

Environmental management,

Preservation of the Park Lands

Improved amenity for users

Improved biodiversity

I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Flood management

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

variety of terrain and habitats

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

no

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

0

Stormwater Management in the South Park Lands

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

As I said above, the variety of terrain. Mounds and meandering channels better the flat straight lines.

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

no

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

1

Q9 Is there anything else you would like us to know?

n/a

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,
If yes, please enter your email address :

[Redacted]

Item 3.1 - Attachment A

Stormwater Management in the South Park Lands

#21

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Tuesday, July 02, 2019 11:40:01 AM
Last Modified: Tuesday, July 02, 2019 12:03:20 PM
Time Spent: 00:23:19
IP Address: 36.255.48.185

Page 1

Q1 Tell us about you

Name [REDACTED]
Organisation you are representing (if not applicable enter n/a) [REDACTED]
Suburb Adelaide
Post code 5000

Q2 What is the main nature of your interest in the South Park Lands?

I am a licensed user of the South Park Lands

Other (please specify):

[REDACTED]

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Not applicable to our business

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Not applicable to our business

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

50

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

The keen interest to preserve the biodiversity and revegetation as a result of filling in existing waterways, and the consideration of existing businesses and park features.

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

No dislikes, but it would be of interest to know risk mitigation strategies regarding people access and potential hazards during a 'flood' or overflowing of the channel. Are there plans to enclose the space or is it designed to prevent slips, falls and hazards?

Stormwater Management in the South Park Lands

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? **20**

Q9 Is there anything else you would like us to know?

Our business is highly supportive and encouraging for the works to occur. The logistics of the construction and access to the site during the works are a little vague in the information provided. As a leaseholder in Park 20 working with the City of Adelaide, I propose a meeting to understand the potential impact to our business and operations during the construction phase and there is potential to leverage site works to plan site improvements of our own. This includes the removal of trees. We need to be able to work with the project to support and maintain the functions and success of [REDACTED] during the preparation, construction and post-works.

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,
If yes, please enter your email address :

[REDACTED]

Stormwater Management in the South Park Lands

#22

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Tuesday, July 02, 2019 2:13:13 PM
Last Modified: Tuesday, July 02, 2019 2:26:34 PM
Time Spent: 00:13:21
IP Address: 101.177.197.46

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

Mile End

5031

Q2 What is the main nature of your interest in the South Park Lands?

Environmental management,

Flood management,

Other (please specify):

[REDACTED] is located adjacent to Park Lands Creek and was flooded in 2016 and 2 retaining walls had to be replaced. The church garden was completely washed away.

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

It will slow down and reduce the peak flow in Park Lands Creek. It will capture excess silt and waste and will reduce the level of silt and rubbish in Park Lands Creek and therefore help to improve the environmental health of the creek.

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

no

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

0

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Respondent skipped this question

Stormwater Management in the South Park Lands

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? **Respondent skipped this question**

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? **31**

Q9 Is there anything else you would like us to know?

[REDACTED] community is regularly cleaning out the portion of Park Lands Creek adjacent to the church. We would like to have a rubbish sock attached to the creek where it comes under King William Rd to reduce the massive volume of rubbish and plastic waste that enters the Park Lands creek there. we would also like to know if our group can get any support for our rehabilitation of the riparian zone of the creek. Is there any information provided to people whose properties back onto or drain into Park Lands creek to assist with management for environmental outcomes?

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands? **Yes,**
If yes, please enter your email address :
[REDACTED]

Stormwater Management in the South Park Lands

#23

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Thursday, July 04, 2019 9:34:06 AM
Last Modified: Thursday, July 04, 2019 11:45:37 AM
Time Spent: 02:11:31
IP Address: 150.101.96.190

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

Hindmarsh

5007

Q2 What is the main nature of your interest in the South Park Lands?

Environmental management,

Preservation of the Park
LandsImproved
biodiversityOther (please
specify):Conservation of the remaining native biodiversity of
Parklands, and restoration where possible.**Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?**

It is encouraging that there has been a focus on retaining native trees in the design of this wetland. Despite this, it is disappointing that two significant native trees will be removed.

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

[REDACTED] would like to draw your attention to the possible presence of native grasses and groundcover species in the area which may be impacted by earthworks/construction for the wetland. We would advocate for their translocation into recipient sites, wherever possible.

A biodiversity survey of the Parklands in 2003 identified the presence of flora of state and regional conservation significance and we would refer you to this work for further details:

Long, M. (2003). A Biodiversity Survey of the Adelaide Park Lands, South Australia in 2003 (Department for Environment and Heritage, South Australia).

Stormwater Management in the South Park Lands

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design? 51

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

It is encouraging that there has been a focus on retaining native trees in the design of this mound and creek realignment, although it is difficult to provide further comment since the number of trees to be removed it yet to be determined.

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

██████████ would like to draw your attention to the possible presence of native grasses and groundcover species in the area which may be impacted by earthworks/construction for the wetland. We would advocate for their translocation into recipient sites, wherever possible.

A biodiversity survey of the Parklands in 2003 identified the presence of flora of state and regional conservation significance and we would refer you to this work for further details:

Long, M. (2003). A Biodiversity Survey of the Adelaide Park Lands, South Australia in 2003 (Department for Environment and Heritage, South Australia).

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? 50

Q9 Is there anything else you would like us to know? Respondent skipped this question

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands? Yes,
If yes, please enter your email address :
██████████

Stormwater Management in the South Park Lands

#24

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Friday, July 05, 2019 12:25:00 PM
Last Modified: Friday, July 05, 2019 3:06:25 PM
Time Spent: 02:41:25
IP Address: 203.6.146.34

Page 1

Q1 Tell us about you

Name

Organisation you are representing (if not applicable enter n/a)

Suburb

Post code

Adelaide

5000

Q2 What is the main nature of your interest in the South Park Lands?

Environmental management,

Preservation of the Park
LandsImproved amenity for
usersImproved
biodiversityFlood
managementOther (please
specify):Have been involved in developing the BHKC SMP over a
10 year period while working in Local Government**Q3** What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Proposed wetland is an excellent approach to contributing flood management outcomes in the Keswick Creek catchment and delivering multiple environmental and community outcomes to the Park Lands as required in Victoria Park Master Plan (2012). I particularly support the concept plan in minimising wetland footprint and soil excavation, retaining existing native trees while removing exotic trees and weeds, protecting the chequered copper butterfly habitat and native grasses, and the design focus on connection, accessibility, experience, recreation through boardwalks, stepping stones, amphitheatre, viewing mounds/platforms, recreational amenities. The concept plan does a great job of offering the community a new destination as well as enhancing existing recreational assets (oval, running track, walking paths, bicycle shared use path, dog obedience). The proposed wetland will be viewed in time as a quality community asset rather than just a water quality and flood mitigation facility.

Stormwater Management in the South Park Lands

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

Wetlands in urban areas are at significant risk to sediment and litter loading as well as accidental chemical spill. There doesn't seem to be any gross pollutant and sediment interception components of the concept plan. Are there any opportunities to create some flood out areas within the existing woodland area to retain water in the local environment from the parallel watercourse. The concept plan does not refer to any indigenous culture (plants used for food / medicine) or education (water quality, ecology, biodiversity, flood protection) opportunities. The original Victoria Park Master Plan (2012) incorporated an interpretive centre for this purpose. Will there be any opportunity to re-use some of the wetland water given that the wetland will likely improve water quality to a usable standard.

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design? **12**

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Flood management outcomes, low level environmental impact on the Park Lands overall (1 metre high mound / little excavation) and minimal impact on existing Park recreation use, backfilled section of Parklands Creek "9" will irrigate and protect many of the existing river red gums already at risk due to channel erosion around root zones, solution protects existing infrastructure and avoids relocation of the sewer trunk main, maintains and improves accessibility.

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

Concept plan does not detail many of the other benefits which could be provided by the new watercourse channels including biodiversity, water quality, habitat, indigenous culture (plants used for food / medicine), education (watercourses / flooding) and recreational opportunities which complement existing activities (brmx, tree climb, petanque, tennis, Pulteney Grammar Ovals)

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? **10**

Q9 Is there anything else you would like us to know?

Concept designs for Park 16 and Park 20 are an excellent approach in contributing flood management outcomes for the broader Keswick Creek catchment while minimizing impact on the existing Park Lands and providing a number of significant environmental and social benefits to the Adelaide community.

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,
If yes, please enter your email address :

[REDACTED]

Stormwater Management in the South Park Lands

#25

COMPLETE

Collector: Web Link 1 (Web Link)
Started: Friday, July 05, 2019 2:33:28 PM
Last Modified: Friday, July 05, 2019 3:27:59 PM
Time Spent: 00:54:31
IP Address: 150.101.100.140

Page 1

Q1 Tell us about you

Name [REDACTED]
 Organisation you are representing (if not applicable enter n/a) [REDACTED]
 Suburb **Adelaide**
 Post code **5000**

Q2 What is the main nature of your interest in the South Park Lands?

I live near the South Park Lands,
I use the South Park Lands for passive recreation (eg walking, jogging, dog walking)

Other (please specify):

[REDACTED] (along with other inhabitants of the City of Adelaide), and having locus standi pursuant to the EPBC Act for the Adelaide Park Lands and City Layout National Heritage Place.

Q3 What do you like most about the design for the Victoria Park/Pakapakanthi (Park 16) wetland?

There is nothing to "like". The design is purports to intend misappropriation of the Adelaide Park, contrary to the terms of the Adelaide Park Trust. It represents and implicit breach of trust and breach of fiduciary duty, and proposes illegitimate and further unlawful destruction and environmental damage to the South Park Lands.

Q4 Is there anything you don't like about the proposed design for the Victoria Park/Pakapakanthi (Park 16) wetland?

The design is illegitimate, unlawful and ultra vires, proposing an unconscionable and reprehensible misappropriation and alienation of the South Park Lands.

Q5 Overall, how would you describe your level of support for the Victoria Park/Pakapakanthi wetland design?

100

Stormwater Management in the South Park Lands

Q6 What do you like most about the design for channel works and low level mounding in Blue Gum Park/Kurranga (Park 20)?

Nothing, it is entirely reprehensible, illegitimate, unlawful, and unconscionable.

Q7 Is there anything you don't like about the design for channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)?

In so far as it relates to the Adelaide Park Lands, the design, and project, is unlawful, and unconscionable.

As the BHKCS Project Office and its agents, contractors and consultants have been *repeatedly* advised *for *many years* not only in several previous consultation processes).

Q8 Overall, how would you describe your level of support for the channel works and low level mounding in Blue Gum Park/Kurangga (Park 20)? 100

Stormwater Management in the South Park Lands

Q9 Is there anything else you would like us to know?

1. Please notify me, forthwith, of the compensation calculated as due & payable for the proposed works in the South Park Lands, Adelaide Park Lands?
2. Please provide a copy of the Natural & Cultural Heritage Dilapidation Study and Conservation Management Plan(s) prepared by independent experts PRIOR to the proposed design being prepared, which MUST NECESSARILY inform and guide and restrain and confine ANY proposed works for a National Heritage Place also identified as a potential World Heritage Site (identified by independent experts as having the potential to meet 3 or 4 WH criteria) and State Heritage Area (meeting several criteria).
3. Please provide me with a copy of this submission, and an extension date by which attachments and further information can be submitted a reasonable length of time after the Project responds and provides information not supplied by the YourSay site.

The consultation process is flawed as the Project has not been contactable / accessible, and was carried out inequitably, that is denying equitable access to members of the public without, or with limited, internet access:

- 3.1. advertised 1800 phone number has not been attended (not answered) and goes to a message machine, and there has been no response.
- 3.2 the consultation failed to provide for submission by hardcopy to an office address, or for alternatives other than the "online" submission form.
- 3.3 the consultation webpage (ACC YourSay) failed to provide a contact person (name, phone number, etc)
- 3.4 the consultation web page (ACC YourSay) failed to provide a BHKCSP Office address
- 3.5 the link to the project did not provide a page with any office address details
- 3.6 the link to the project website failed to provide a contact person (name, phone number)
- 3.7 the link to the project website failed to provide a BHKCSP Office address
- 3.8 Adelaide City Council project staff number (from previous consultation) was not contactable
- 3.9 ACC information staff stated council staff said the consultation closed years ago.

Background

I note that the estimated acquisition costings of private property along other sections of the watercourse in other Councils was previously published by the project.

The Adelaide Park Lands is similarly NOT owned by the Adelaide City Council NOR by the Government, NOR by the BHKCSP or any of its member councils.

The Adelaide Park, including the South Park Lands, is Trust Property, and the land is subject to a Purpose Trust, or constructive or implied Trust.

As the Adelaide City Council and State Government have been *repeatedly* provided with copies of the proof of purchase of the Adelaide Park Lands, in FEE SIMPLE ABSOLUTE, and representations AGAINST the proposed stormwater works have been repeatedly made to the Project, it beggars belief that the BHKCSW project design STILL proposes unlawful and illegitimate damage to the Adelaide Park Trust Property, ultra vires, in breach of trust laws, property laws and in what appears to me to be a totally morally bankrupt manner that misinforms the public about the environmental vandalism that the project proposes and entails. Destroying remnant or natural landscapes (albeit requiring some restoration due to past abuse) is unacceptable. Further additional deliberate & wilful destruction of the ephemeral stream basis, falsely alleging "environmental" benefit, or improvement is ludicrous.

The project proposes to lay waste to the natural landscape of the Adelaide Park Lands - PRIVATE TRUST PROPERTY dedicated for passive recreation, contrary to South Australian law.

Stormwater Management in the South Park Lands

Q10 If one was to be held, would you be interested in attending an information session about the stormwater management initiatives proposed for the South Park Lands?

Yes,
If yes, please enter your email address :

[Redacted email address]

Item 3.1 - Attachment A



Appendix G – Written submissions and phone call summaries

Item 3.1 - Attachment A

Written submissions

Dear Peta

Thanks for the opportunity to comment. I hope you don't mind my commenting by email. I had a look at the online feedback form, but it doesn't seem designed for those whose interest is based on cycling for transport.

There are several routes through the Park Lands that are important for people who ride for transport purposes. This includes Beaumont Road, which doesn't seem to be impacted by the proposed works, and the path that parallels Greenhill Road in Kurangga, which is.

The latter is used by people riding between the eastern and southern suburbs. They mainly use the Park Lands Trail, but abandoning it when it diverts northwest toward South Terrace in Kurangga.

We look forward to the path in Kurangga being upgraded as part of the proposed works. However we are concerned about the idea of putting that path on a 1m high mound, especially for those riding at night.

This part of the Park Lands is not lit, and riding in this location is already hazardous without good quality lights. Putting the path on a mound will of course increase the hazard unless measures are taken to mitigate this.

The wider the mound, the less the hazard. We suggest a verge at least 1m either side of the path.

Also lighting would should be installed, ideally to match the standard of that on the path east of Unley Road that leads to Marshmallow Playground.

Failing this, solar powered cat eyes to mark the edges and retro-reflective line marking to mark the centre should be installed. (Both were trialled on the River Torrens Linear Path, just west of the Hackney Bridge. We can provide you with more information about this trial in case it has slipped from the ACC's corporate memory.)

We note that diagram portraying the proposed works is conceptual only, and so cannot be expected to indicate the sort of detail that we might be interested in. This includes how the path will join the path that runs north-south on the western side of the tennis courts. The current alignments used to join the two paths provide the appropriate turning circles for bicycles and we would like to see these retained.

Regards

[Redacted signature block]

Hi Peta,

Thanks for sending this through to us. Given the level of detail presented in the information brochures, there isn't any comments we have at this time. However as always we would be keen to work with you as this project develops.

I have a staff member returning next week after 9 months leave, [REDACTED] who has a strong stormwater management planning and projects background and knows the BHKC project quite well. It might be useful for you two to meet at some stage, and should we be able to be of any assistance as this project develops [REDACTED] will be a great contact.

Regards,

[REDACTED]
[REDACTED]
[REDACTED]

[REDACTED]

3 July 2019

The Brown Hill Keswick Creek Stormwater Management Project Team
PO Box 124
UNLEY SA 5061

[REDACTED] **SUBMISSION ON THE
BROWN HILL KESWICK CREEK STORMWATER MANAGEMENT PROJECT**

This submission addresses the proposal to construct a wetland at the southern end of Victoria Park (Park 16) and stormwater management works in Blue Gum Park/Kurangga (Park 20) as part of the Brown Hill Keswick Creek Stormwater Management Project.

Attached is a [REDACTED] submission that was submitted on 18th May 2011 on the proposed works in the south Park Lands.

While some of the issues that were raised in that letter, such as the poplar trees and removal of native trees, are addressed in the current documentation for these works [REDACTED] has the following comments regarding the project.

Unlike the Brown Hill and Keswick Creeks, where runoff from the western slopes of the Mount Lofty Ranges is able to dilute contaminated runoff into these creeks from urban areas, the Park Lands Creek inflow is almost entirely from urban runoff. [REDACTED] is of the view that trash racks should be installed upstream of the Park Lands to assist in preventing solid waste from entering the Park Lands Creek. However the water that enters the Park Lands Creek will still contain considerable suspended and dissolved contaminants.

[REDACTED] understands that the prime purpose of the Glenside detention basin, just upstream of the proposed wetlands, together with the proposed wetlands and the inundation of Park 20 in times of high flows is to reduce the peak of high stormwater flows by filling and then slowly emptying after the flow of stormwater has subsided. Under these circumstances the water would not remain in the basins long enough for the settlement of suspended solids and natural removal of contaminants as it is assumed that the water in all three areas would drain some days after receiving the storm water with the exception of the deep pools in the proposed wetlands.

[REDACTED] supports the concept of the proposed wetlands but is concerned that the water in the deep pools has the potential to contain significant contaminants. Also as flows in the Park Lands Creek rely solely upon stormwater from urban area stormwater drains it could be many months when there is no flow into the wetlands. [REDACTED] therefore questions what is to prevent these pools becoming stagnant and eventually drying up? Also under these circumstances, while deep pools of clean water may not be a haven for mosquitoes stagnant shallow pools may be.

The section of the Park Lands Creek adjacent to proposed wet lands is currently overgrown and in an unkept condition. It is hoped that remedial work on this section of the creek will be undertaken as part of the wetlands project. In addition the lower part the geotextile lining in the rehabilitated section of the creek just downstream of the proposed wetlands has been washed away. [REDACTED] questions if this is a suitable lining in a waterway where there is potential for turbulent fast flowing water.

Also as raised in [REDACTED] letter of 18th May 2011 there will need to be restricted parking in the proposed car park to ensure that it is available to visitors to the wetlands and is not used for all day parking.

A response to the issues raised above would be appreciated.

Regards

[REDACTED]

18 May 2011

South Park Lands Stormwater
C/o City of Unley
PO Box 1,
Unley SA 5061

**RE: [REDACTED] COMMENTS ON
PROPOSED BROWN HILL KESWICK CREEK STORMWATER PROJECT**

The [REDACTED] has reviewed the proposals for the Brown Hill Keswick Creek Project and provides the following comments which focus on the works that are proposed to be undertaken in the Adelaide Park Lands.

Victoria Park Wetlands

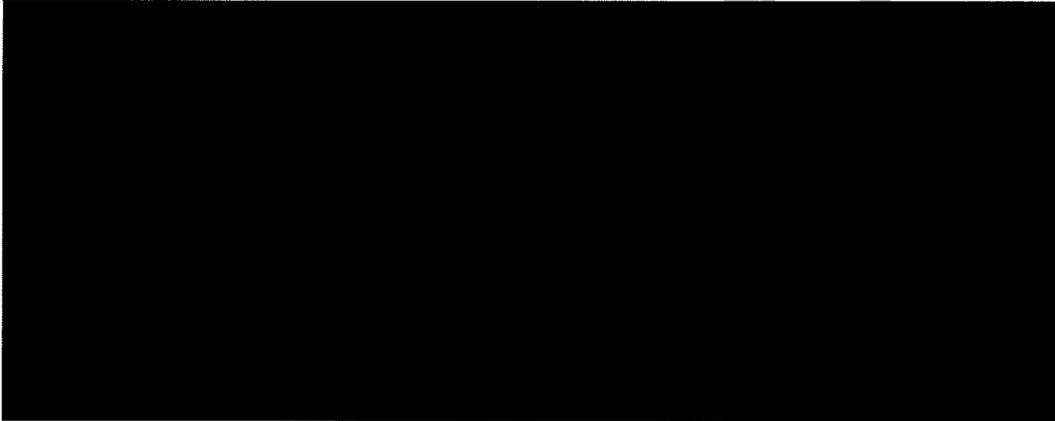
- [REDACTED] is of the view that these proposed wetlands have the potential to become a popular interpretive attraction for native vegetation and local wildlife however this will be very much dependent upon their design and ongoing maintenance and operation.
- While it is understood that stormwater will be diverted through these wetlands under high flow conditions it is considered that water will also need to be diverted into the wetlands under small flow conditions to ensure that water is maintained within the wetlands.
- Because of the long dry Adelaide summers, unless there is a means of replenishing the water during this period, it is envisaged that the wetlands could dry out completely. Under these circumstances will the small pools of water present a mosquito problem to local residents?
- Attachment 1 shows three areas of trees in the proposed wetlands area. From the plan in the March 2011 Project Update pamphlet it appears that the young trees along the northern bank of the creek (C) will be unaffected by the wetlands however there is a concern that those in areas A & B may be affected.
- There will need to be monitored restricted parking in the proposed car park (6) to ensure that it is not used for all day parking.

Park 20 Inundation

- Attachment 1 shows a row of poplar trees along a waterway (D). While native gum trees can survive short term inundation of water as will occur in Park 20 are poplar trees also able to tolerate such inundation?
- There is a concern that the flood control mound will involve the removal of trees. Is it possible to construct this mound so that it does not involve the removal of trees. Also will this mound be constructed so that it looks as though it is part of the natural landscape?

█ would also appreciate the opportunity to comment on the detailed designs for this project once they have been completed.

Kind Regards



**SUBMISSION—BROWN HILL KESWICK CREEK STORMWATER PROJECT
ATTACHMENT 1**



- A - Significant trees
- B - Large area of mainly deciduous trees (some dead)
- C - Recently planted young trees
- D - Row of poplar trees along waterway

Phone call records

Hi Nicole,

I'm preparing this email as a record of a phone enquiry I had today regarding South Park Lands public consultation. [REDACTED] is a long-term Eastwood resident and regular user of the South Park Lands. He has been attempting to provide feedback via our online form but was having trouble accessing the site (not being very familiar with using the internet). I offered to take [REDACTED] comments over the phone and he was appreciative.

[REDACTED] noted that:

- The south eastern portion of the South Park Lands is quite overgrown and unkempt and he thinks the wetland is a great idea and will look fantastic once done. He is looking forward to this area being cleaned up.
- He likes all of the new works that have taken place in the park lands – new bridge, new pathways etc
- There are bitumen paths that have been constructed near the new bridge up towards South Tce and while he likes it, it is too narrow for pedestrians and cyclists to share and needs to be widened. It has also become inundated with water and Council maintenance vehicles have been driving over it so it is becoming uneven in areas. These paths also need proper signage to encourage shared use between pedestrians and cyclists.
- New trees have been planted along the creek edge with posts and webbing installed to protect them from the wind. The webbing has broken down and there is now no protection for the new plantings.
- Elm Avenue is fantastic and a lovely place to walk but it really needs a sealed pathway through it and is in need of a cleanup.

I advised [REDACTED] that most of these comments relate to City of Adelaide works rather than works associated with the BHKC Stormwater Project but I undertook to pass his comments onto Council. We had a general chat and he thanked me for my time.

Kind Regards,

Hi Olivia,

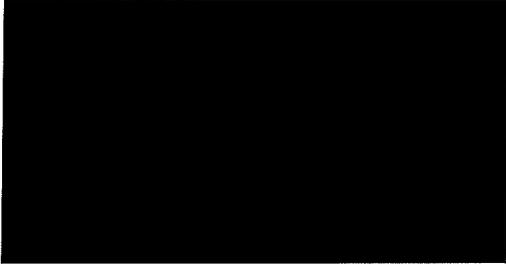
I have had a call from [REDACTED] (for my reference) - with some questions about the alignment of paths through Park 20 in particular [REDACTED] has queried whether the existing pathways are to be retained in addition to the newly created mound with shared use path on top.

My understanding is that the new mound with shared use path on top will follow (but not exactly mirror) one of the existing paths and that other paths in Park 20 would be unaffected. I have marked in blue on the attached plan the existing pathway that I believe will be replaced by the new mound with shared use path on top. I have also marked in red the pathways that are of most interest to Ian. It seems that a small area of Ian's route would now be on the new shared use path but the majority of the alignment he is concerned with will remain unchanged.

Can you have a look at the attached and let me know whether my understanding is correct?

█ spoke very positively about both the Vic Park and Park 20 proposals overall, along with other recent works by City of Adelaide, and thinks they'll be great for the South Park Lands

Thanking you,



Item 3.1 - Attachment A

Intentionally left blank

Item 3.1 - Attachment A

Legend

- Pathways
- Mounding & landscape
- Existing creek line
- Wetland
- New retaining wall
- New tree



South Park Lands
Victoria Park /
Pakapakanthi (Park 16)

Adelaide Park Lands Authority - Special Board Meeting - Agenda - 18 June 2020

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Brown Hill Keswick Creek
STORMWATER PROJECT

106
South Park Lands
Blue Gum Park /
Kurangga (Park 20)



Legend

- Pathways
- Mounding
- Existing creek
- Existing creek line to be backfilled
- New tree
- New retaining wall
- New culvert
- New open creek channel

Typical Cross Section A

shared-use pathway

open creek channel

shared-use pathway

Adelaide Park Lands Authority - Special Board Meeting - Agenda - 18 June 2020

Elevated mound (up to 1.0m)

PEACOCK ROAD

New shared-use paths (connect to existing)

Harris Oval

New bridge crossing

New open creek channels

BMX Track

UNLEY ROAD

New culvert

New shared-use pathways

Tennis Courts

New culvert

Tree Climb

Existing creek to remain

Retaining Wall (up to 0.5m high)

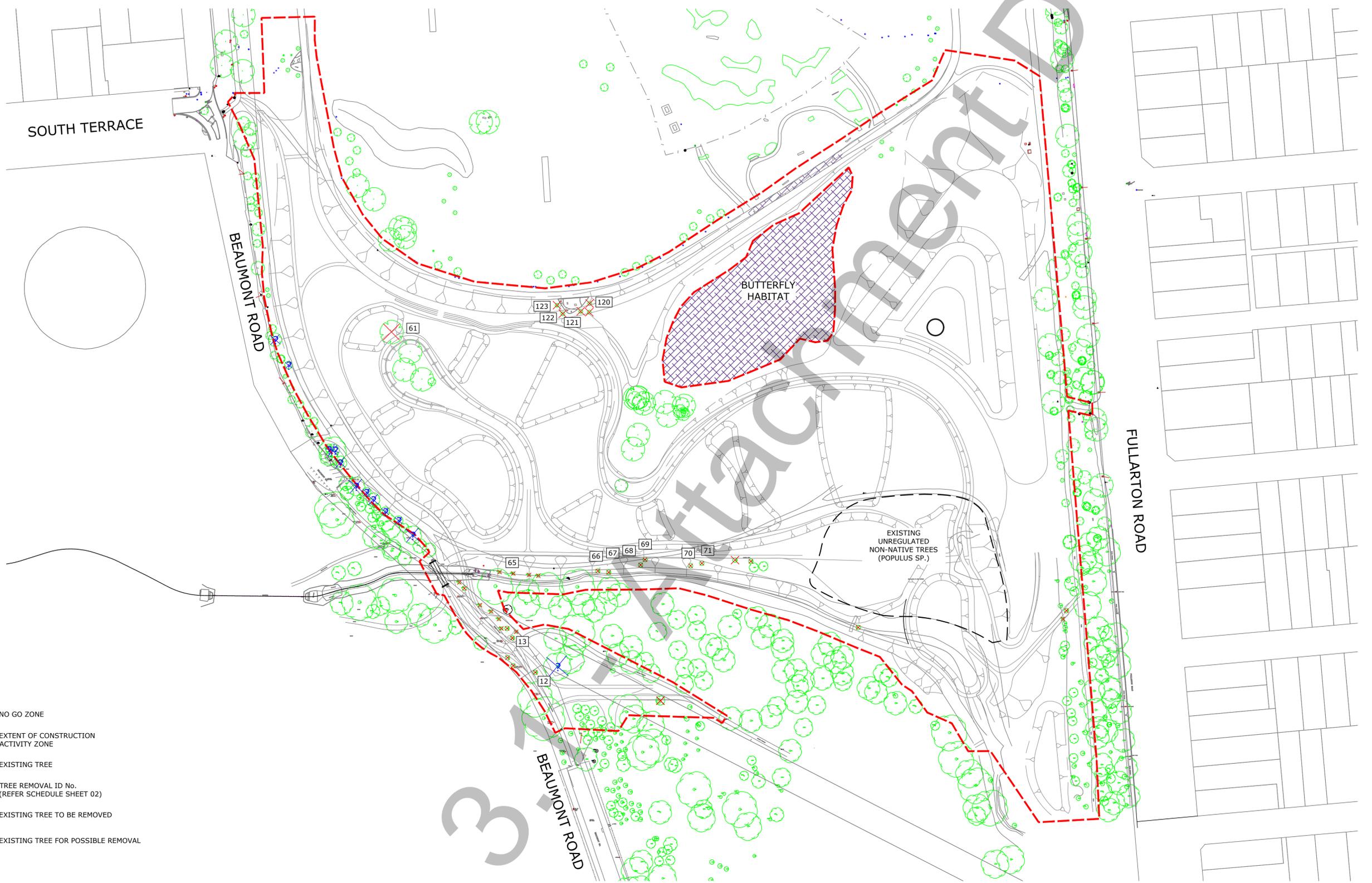
Club De Pétanque D'Adelaide

Adelaide Hockey Club

New pipe to connect to existing pipes at Greenhill Road

Existing creeks to be backfilled

GREENHILL ROAD

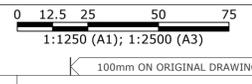


LEGEND:

-  NO GO ZONE
-  EXTENT OF CONSTRUCTION ACTIVITY ZONE
-  EXISTING TREE
-  TREE REMOVAL ID No. (REFER SCHEDULE SHEET 02)
-  EXISTING TREE TO BE REMOVED
-  EXISTING TREE FOR POSSIBLE REMOVAL

PUBLIC UTILITIES:
 THE SERVICES SHOWN ARE DERIVED FROM PLANS OBTAINED FROM THE RELEVANT SERVICE AUTHORITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE WITH THE RELEVANT SERVICE AUTHORITIES FOR CONFIRMATION OF SERVICES AND THEIR LOCATION BEFORE EXCAVATION WORK COMMENCES.

THIS DRAWING IS TO BE VIEWED IN COLOUR AS SOME FEATURES / SYMBOLS ARE DIFFERENTIATED BY COLOUR. DRAWING NOT TO BE RELIED ON IF PRINTED IN GREYSCALE.



SHEET SIZE
A1

COORDS: MGA94 ZONE 54
 DATUM: ALL LEVELS TO A.H.D.
 SCALE: 1:1250
 SURVEYED BY OTHERS
 SURVEY DATE:
 APPROVED / PROJECT LEADER
 O. OLIVER



T.C.L
 TAYLOR.CULLITY.LETHLEAN



NOT FOR CONSTRUCTION

BROWN HILL KESWICK CREEK STORMWATER PROJECT
SOUTH PARK LANDS STORMWATER MANAGEMENT
VICTORIA PARK/PAKAPAKANTHI (PARK 16) WETLAND
TREE REMOVAL PLAN

REV	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.
C	100% DESIGN (IFT) REVIEW REISSUE	20.05.20	OO	MR
C	100% DESIGN (IFT) REVIEW	15.05.20	OO	MR

FILENAME:	PROJECT NUMBER	DRAWING NUMBER	REVISION
20171694_P16_21_APLA.DWG	20171694	030	C

TREE REMOVAL SCHEDULE

ID	EASTING	NORTHING	Botanic Name	Tree Retention Rating	Legislative Status	TPZ (m)
12	282636.885	6131236.258	Eucalyptus cladocalyx	Moderate	Unregulated	2.64
13	282622.191	6131257.448	Eucalyptus odorata	Low	Unregulated	2.16
61	282545.220	6131453.758	Eucalyptus camaldulensis	Important	Regulated	9.48
65	282622.665	6131299.047	Acacia melanoxylon	Moderate	Unregulated	3.48
66	282678.232	6131302.631	Eucalyptus camaldulensis	Moderate	Unregulated	3.36
67	282683.052	6131304.463	Eucalyptus camaldulensis	Low	Unregulated	3.48
68	282704.082	6131304.808	Eucalyptus camaldulensis	High	Regulated	5.88
69	282707.077	6131308.007	Eucalyptus leucoxylon	Moderate	Unregulated	4.92
70	282735.787	6131304.230	Eucalyptus camaldulensis	Moderate	Unregulated	4.08
71	282742.935	6131305.792	Eucalyptus leucoxylon	Moderate	Unregulated	4.08
120	282671.801	6131470.462	Eucalyptus leucoxylon	Low	Unregulated	2.28
121	282666.230	6131464.846	Eucalyptus leucoxylon	Low	Unregulated	2.52
122	282654.825	6131464.303	Eucalyptus leucoxylon	Low	Unregulated	2.40
123	282651.131	6131468.892	Eucalyptus leucoxylon	Low	Unregulated	2.76

SHEET SIZE
A1

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

						COORDS: MGA94 ZONE 54 DATUM: ALL LEVELS TO A.H.D.
						SCALE: N/A
						SURVEYED BY OTHERS SURVEY DATE:
						APPROVED / PROJECT LEADER
C	100% DESIGN (IFT) REVIEW REISSUE	20.05.20	OO	MR		O. OLIVER
C	100% DESIGN (IFT) REVIEW	15.05.20	OO	MR		
REV	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.		

T.C.L
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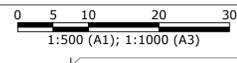
BROWN HILL KESWICK CREEK STORMWATER PROJECT
SOUTH PARK LANDS STORMWATER MANAGEMENT
VICTORIA PARK/PAKAPAKANTHI (PARK 16) WETLAND
TREE REMOVAL SCHEDULE

FILENAME:	PROJECT NUMBER	DRAWING NUMBER	REVISION
20171694_P16_21_APLA.DWG	20171694	031	C

FOR CONTINUATION REFER SHEET 161



- LEGEND:**
- - - EXTENT OF CONSTRUCTION ACTIVITY ZONE
 - CREEK TO BE FILLED, WITH LOW FLOW DRAIN IN INVERT
 - CREEK TO BE FILLED
 - EXISTING TREE
 - ⊗ EXISTING TREE TO BE REMOVED
 - 140 TREE REMOVAL ID No. (REFER SCHEDULE SHEET 03)
 - EXISTING TREE WITH 'TREE CLIMB' STRUCTURE ATTACHED
- EXISTING SERVICES LEGEND**
- OF EXISTING FIBREOPTIC
 - E-OH EXISTING ELECTRICAL OH
 - E-UG EXISTING LV ELECTRICAL UG
 - G EXISTING GAS
 - HVE-UG EXISTING HV ELECTRICAL UG
 - S EXISTING SEWER
 - RM EXISTING SEWER RISIGN MAIN
 - SW EXISTING STORMWATER
 - T EXISTING TELECOM
 - W EXISTING WATER



SHEET SIZE
A1

COORDS: MGA94 ZONE 54
 DATUM: ALL LEVELS TO A.H.D.
 SCALE: 1:500
 SURVEYED: A.C.S.
 SURVEY DATE: SEP 2019
 APPROVED / PROJECT LEADER
 O. OLIVER



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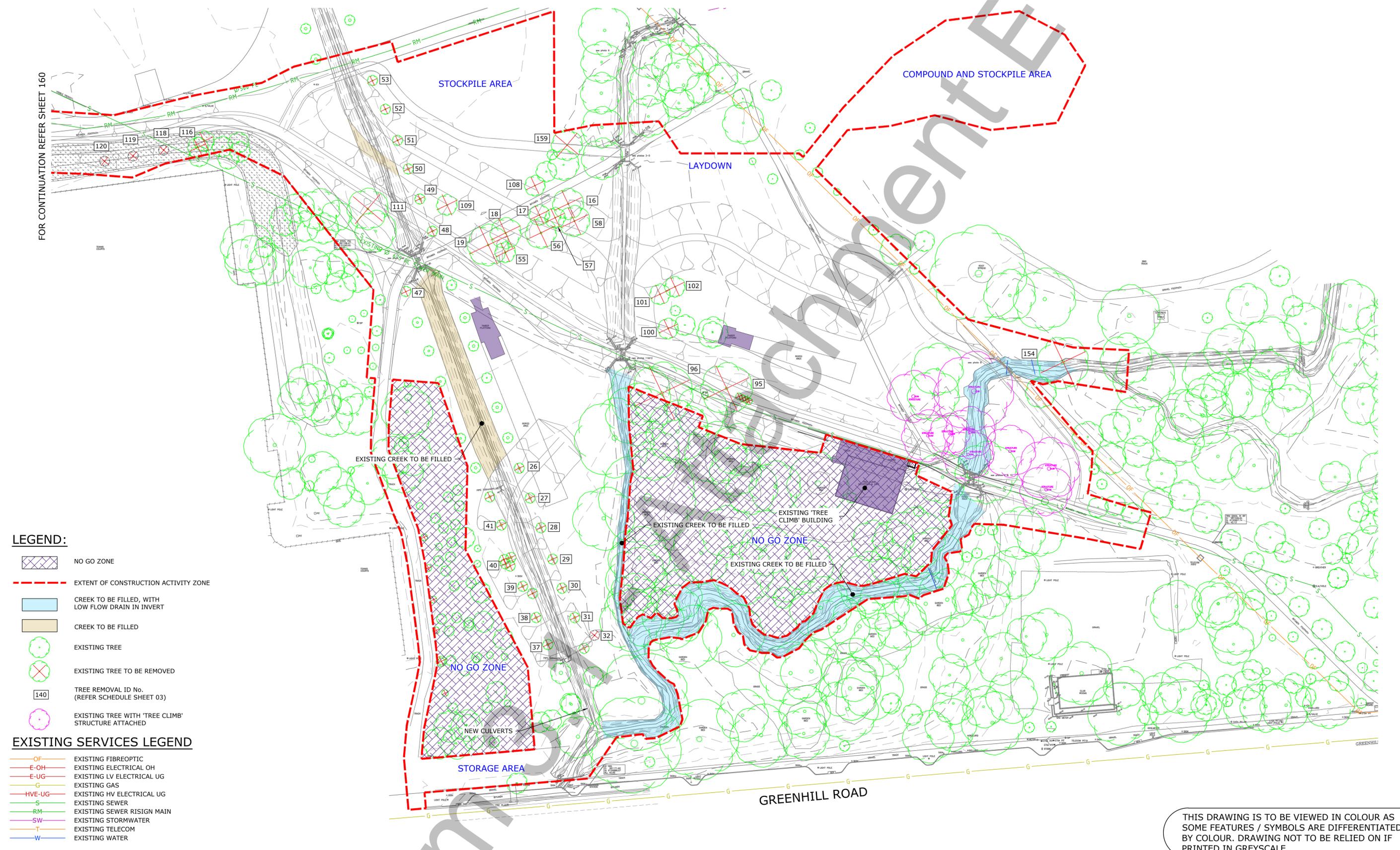
BROWN HILL KESWICK CREEK STORMWATER PROJECT

**SOUTH PARK LANDS STORMWATER MANAGEMENT
 BLUE GUM PARK/KURANGGA (PARK 20) STORAGE
 TREE REMOVAL PLAN 1**

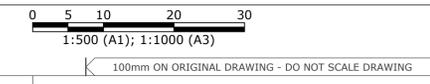
REV	ISSUED FOR INFORMATION ONLY AMENDMENT / REASON FOR ISSUE	DATE	DES.	MR. DWN.
A	ISSUED FOR INFORMATION ONLY	08.05.20	OO	MR

FILENAME:	PROJECT NUMBER	DRAWING NUMBER	REVISION
20171694_P20_20_APLA.DWG	20171694	160	A

FOR CONTINUATION REFER SHEET 160



- LEGEND:**
- NO GO ZONE
 - EXTENT OF CONSTRUCTION ACTIVITY ZONE
 - CREEK TO BE FILLED, WITH LOW FLOW DRAIN IN INVERT
 - CREEK TO BE FILLED
 - EXISTING TREE
 - EXISTING TREE TO BE REMOVED
 - TREE REMOVAL ID No. (REFER SCHEDULE SHEET 03)
 - EXISTING TREE WITH 'TREE CLIMB' STRUCTURE ATTACHED
- EXISTING SERVICES LEGEND**
- OF EXISTING FIBREOPTIC
 - E-OH EXISTING ELECTRICAL OH
 - E-UG EXISTING LV ELECTRICAL UG
 - G EXISTING GAS
 - HVE-UG EXISTING HV ELECTRICAL UG
 - S EXISTING SEWER
 - RM EXISTING SEWER RISIGN MAIN
 - SW EXISTING STORMWATER
 - T EXISTING TELECOM
 - W EXISTING WATER



REV	ISSUED FOR INFORMATION ONLY	08.05.20	OO	MR	APPROVED / PROJECT LEADER
REV	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.	O. OLIVER
A	ISSUED FOR INFORMATION ONLY	08.05.20	OO	MR	APPROVED / PROJECT LEADER
	AMENDMENT / REASON FOR ISSUE	DATE	DES.	DWN.	O. OLIVER

SHEET SIZE
A1

COORDS: MGA94 ZONE 54
DATUM: ALL LEVELS TO A.H.D.
SCALE: 1:500
SURVEYED:A.C.S.
SURVEY DATE:SEP 2019
APPROVED / PROJECT LEADER

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BROWN HILL KESWICK CREEK STORMWATER PROJECT
SOUTH PARK LANDS STORMWATER MANAGEMENT
BLUE GUM PARK/KURANGGA (PARK 20) STORAGE
TREE REMOVAL PLAN 2

FILENAME: 20171694_P20_20_APLA.DWG PROJECT NUMBER 20171694 DRAWING NUMBER 161 REVISION A

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TREE REMOVAL SCHEDULE

ID	Eastings	Northing	Botanic Name	Tree Retention Rating	Legislative Status	TPZ (m)
16	281167.065	6131054.853	Eucalyptus camaldulensis	High	Unregulated	5.64
17	281158.238	6131051.371	Eucalyptus camaldulensis	Moderate	Unregulated	3.84
18	281148.178	6131045.139	Eucalyptus camaldulensis	Important	Unregulated	5.64
19	281141.451	6131043.610	Eucalyptus camaldulensis	Important	Regulated	9.24
26	281151.130	6130979.323	Populus nigra 'Italica'	Low	Unregulated	6.00
27	281154.661	6130971.326	Populus nigra 'Italica'	Low	Unregulated	6.00
28	281157.648	6130962.510	Populus nigra 'Italica'	Low	Unregulated	5.76
29	281160.820	6130955.226	Populus nigra 'Italica'	Low	Exempt	8.52
30	281165.562	6130944.983	Populus nigra 'Italica'	Low	Unregulated	6.48
31	281167.057	6130936.622	Populus nigra 'Italica'	Moderate	Exempt	8.64
32	281173.203	6130931.281	Populus alba	High	Exempt	10.08
37	281158.956	6130928.050	Populus nigra 'Italica'	Low	Exempt	8.52
38	281156.001	6130936.150	Populus nigra 'Italica'	High	Exempt	8.52
39	281154.689	6130945.246	Populus nigra 'Italica'	Low	Unregulated	3.24
40	281149.197	6130952.454	Populus alba	Low	Unregulated	6.00
41	281146.352	6130961.032	Populus nigra 'Italica'	Low	Unregulated	4.44
47	281119.411	6131028.295	Populus nigra 'Italica'	Low	Unregulated	2.40
48	281128.179	6131047.874	Populus nigra 'Italica'	Low	Unregulated	3.72
49	281123.996	6131055.104	Populus nigra 'Italica'	Low	Unregulated	4.20
50	281120.987	6131065.396	Populus nigra 'Italica'	Low	Unregulated	5.52
51	281117.020	6131073.204	Populus nigra 'Italica'	Low	Unregulated	2.76
52	281113.649	6131081.006	Populus nigra 'Italica'	Low	Unregulated	5.16
53	281109.650	6131090.341	Populus nigra 'Italica'	Low	Unregulated	5.52
55	281147.699	6131039.207	Eucalyptus camaldulensis	Important	Unregulated	4.92
56	281160.687	6131045.441	Eucalyptus camaldulensis	Important	Unregulated	6.84
57	281162.232	6131050.361	Eucalyptus camaldulensis	Low	Exempt	2.76
58	281167.766	6131048.928	Eucalyptus camaldulensis	Important	Unregulated	5.40
59	280990.886	6131059.447	Brachychiton populneus	Moderate	Unregulated	5.28
60	280991.192	6131067.757	Brachychiton populneus	Moderate	Unregulated	6.48
61	280989.899	6131077.009	Brachychiton populneus	Low	Unregulated	6.00
62	280982.085	6131071.103	Brachychiton populneus	Low	Unregulated	2.00
63	280981.414	6131079.023	Brachychiton populneus	Low	Unregulated	2.00
64	280983.442	6131061.224	Brachychiton populneus	Moderate	Unregulated	3.24
68	280958.826	6131100.267	Schinus areira	Moderate	Unregulated	7.56
70	280954.725	6131147.338	Callitris gracilis	Moderate	Unregulated	4.20
72	280943.276	6131189.002	Schinus areira	Moderate	Unregulated	5.04
73	280950.623	6131188.326	Schinus areira	Low	Exempt	5.88
79	280890.016	6131264.516	Callitris gracilis	Moderate	Unregulated	3.12
80	280892.279	6131259.835	Callitris gracilis	Low	Unregulated	3.12
95	281211.384	6131002.149	Eucalyptus camaldulensis	Important	Regulated	8.64
96	281192.517	6131001.190	Eucalyptus camaldulensis	Important	Significant	15.00
100	281193.555	6131018.426	Eucalyptus camaldulensis	High	Unregulated	4.44

ID	Eastings	Northing	Botanic Name	Tree Retention Rating	Legislative Status	TPZ (m)
101	281191.773	6131028.360	Eucalyptus camaldulensis	Moderate	Unregulated	4.92
102	281196.075	6131031.078	Eucalyptus camaldulensis	High	Unregulated	6.00
108	281155.771	6131059.892	Eucalyptus camaldulensis	Moderate	Significant	3.96
109	281131.596	6131053.642	Eucalyptus camaldulensis	High	Unregulated	4.92
111	281107.850	6131051.570	Eucalyptus camaldulensis	High	Unregulated	5.88
116	281059.039	6131070.482	Eucalyptus porosa	Low	Unregulated	4.56
118	281050.188	6131069.549	Eucalyptus leucoxylon	Low	Unregulated	3.72
119	281041.653	6131067.873	Eucalyptus leucoxylon	Low	Unregulated	5.04
120	281033.660	6131066.513	Eucalyptus leucoxylon	Low	Unregulated	3.24
126	280967.858	6131094.645	Eucalyptus camaldulensis	Moderate	Unregulated	3.12
138	280896.526	6131252.207	Eucalyptus camaldulensis	Moderate	Unregulated	3.00
139	280890.592	6131248.436	Eucalyptus sideroxylon	Moderate	Unregulated	3.24
140	280898.347	6131245.918	Eucalyptus leucoxylon	Low	Unregulated	2.16
154	281306.579	6131009.493	Eucalyptus camaldulensis	Low	Exempt	11.40
159	281165.763	6131070.684	Eucalyptus camaldulensis	Moderate	Unregulated	6.96
167	280988.111	6131090.738	Brachychiton populneus	Low	Unregulated	2.00
174	280980.920	6131088.548	Brachychiton populneus	Moderate	Unregulated	5.04
177	280950.951	6131136.685	Schinus areira	Low	Unregulated	5.02
179	280946.472	6131142.381	Callitris gracilis	Low	Unregulated	2.29

SHEET SIZE

A1

100mm ON ORIGINAL DRAWING - DO NOT SCALE DRAWING

COORDS: MGA94 ZONE 54
DATUM: ALL LEVELS TO A.H.D.

SCALE: N/A

SURVEYED: A.C.S.
SURVEY DATE: SEP 2019

APPROVED / PROJECT LEADER

O. OLIVER

REV	ISSUED FOR INFORMATION ONLY	DATE	DES.	DWN.
A	AMENDMENT / REASON FOR ISSUE	08.05.20	OO	MR

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NOT FOR CONSTRUCTION

BROWN HILL KESWICK CREEK STORMWATER PROJECT

SOUTH PARK LANDS STORMWATER MANAGEMENT
BLUE GUM PARK/KURANGGA (PARK 20) STORAGE
TREE REMOVAL SCHEDULE

FILENAME:	PROJECT NUMBER	DRAWING NUMBER	REVISION
20171694_P20_20_APLA.DWG	20171694	162	A

C:\USERS\PAUL DAVIES\APPPDATA\LOCAL\TEMP\ACUBLISH_12652\20171694_P20_20_APLA.DWG -P20_TR_03- (08-05-20 9:33:34AM)



112

10m offset from toilet block

10m offset from road

52m from centre of pitch boundary

PROPOSED STOCKPILE AREA

5m offset from vegetation

EAST TERRACE

FULLARTON ROAD



40m

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WETLANDS