HIGHBURY AQUEDUCT
DRAFT MASTERPLAN

18th February 2013

PROJECT OVERVIEW

The Highbury Aqueduct Reserve land was purchased by the Minister of Planning from SA Water following its decommissioning as an overland channel delivering water from The River Torrens to the Hope Valley Reservoir.

Responsibility for its maintenance and ongoing management rests with the Department of Environment, Water and Natural Resources. Funding from the Minister of Planning is being used to undertake the works necessary to develop the land as a public reserve.

In consultation with the surrounding community and the City of Tea Tree Gully the State Government has engaged consultants to prepare a Master Plan to guide the future development of the reserve as a place for community recreation in a natural environment.

OBJECTIVES

Community Access

Objective 1:
Open up the Highbury Aqueduct Land to provide physical access and improve visual access for the local community.

Recreation

Objective 2:
Provide a range of spaces that accommodate informal active recreation, social activities and peaceful reflection.

Community Participation

Objective 3:
Provide diverse opportunities for members of the local community to participate in developing, managing and maintaining the Park.

Vegetation Management

Objective 4:
Develop, manage and maintain vegetation within the park to contribute to biodiversity, visual amenity and safety.

Stormwater Management

Objective 5:
Address existing stormwater management issues and introduce innovative water sensitive design approaches to support effective stormwater management in the future.

Connection

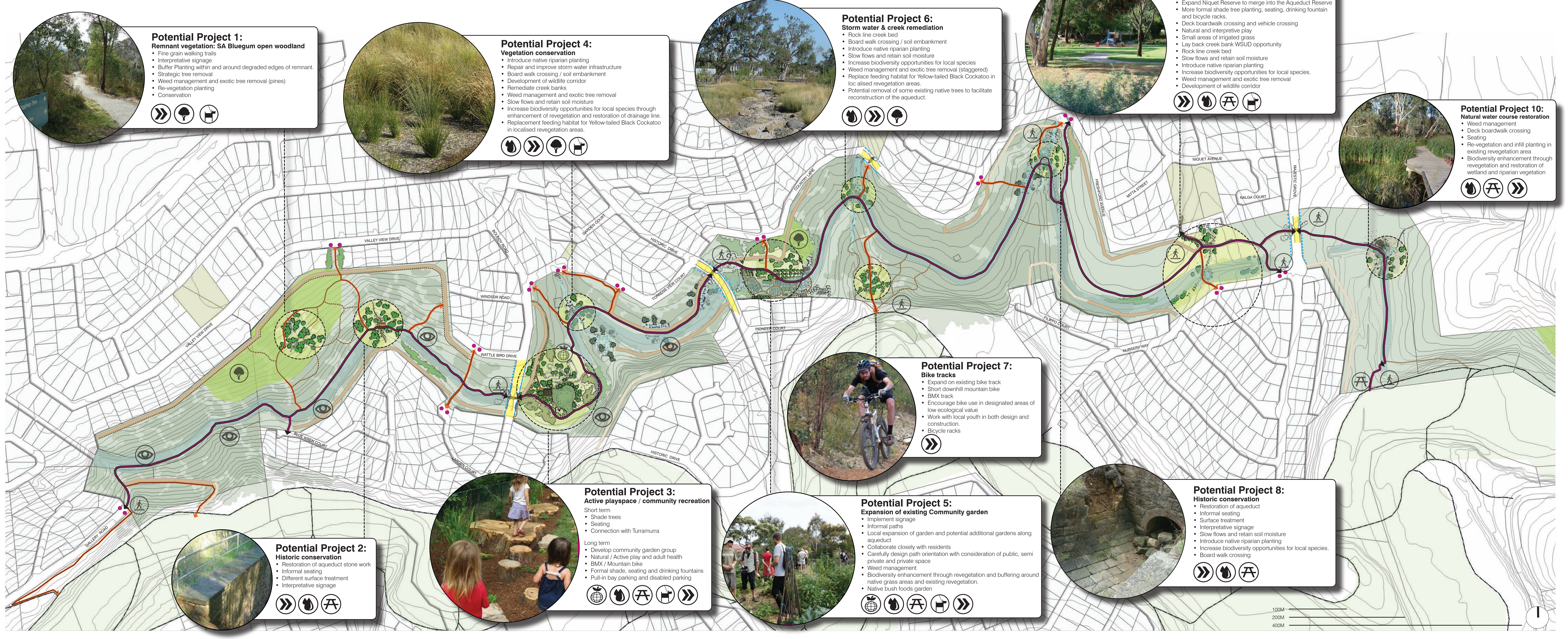
Objective 6:
Provide new links that increase people's opportunities to walk or cycle to work, school or recreation facilities.

Risk Management

Objective 7:
Design to reduce risk and enable efficient maintenance.

Heritage

Objective 8 :
Identify, protect and interpret natural, cultural and built heritage features.



Potential Project 1:
Remnant vegetation: SA Bluegum open woodland
- Fine grain walking trails
- Interpretative signage
- Buffer Planting within and around degraded edges of remnant.
- Strategic tree removal
- Weed management and exotic tree removal (pines)
- Re-vegetation planting
- Conservation

Potential Project 2:
Historic conservation
- Restoration of aqueduct stone work
- Informal seating
- Different surface treatment
- Interpretative signage

Potential Project 3:
Active playspace / community recreation

Short term
- Shade trees
- Seating
- Connection with Turramurra

Long term
- Develop community garden group
- Natural / Active play and adult health
- BMX / Mountain bike
- Formal shade, seating and drinking fountains
- Pull-in bay parking and disabled parking

Potential Project 4:
Vegetation conservation
- Introduce native riparian planting
- Repair and improve storm water infrastructure
- Board walk crossing / soil embankment
- Development of wildlife corridor
- Remediate creek banks
- Weed management and exotic tree removal
- Slow flows and retain soil moisture
- Increase biodiversity opportunities for local species through enhancement of revegetation and restoration of drainage line.
- Replacement feeding habitat for Yellow-tailed Black Cockatoo in localised revegetation areas.

Potential Project 5:
Expansion of existing Community garden
- Implement signage
- Informal paths
- Local expansion of garden and potential additional gardens along aqueduct
- Collaborate closely with residents
- Carefully design path orientation with consideration of public, semi private and private space
- Weed management
- Biodiversity enhancement through revegetation and buffering around native grass areas and existing revegetation.
- Native bush foods garden

Potential Project 6:
Storm water & creek remediation
- Rock line creek bed
- Board walk crossing / soil embankment
- Introduce native riparian planting
- Slow flows and retain soil moisture
- Increase biodiversity opportunities for local species
- Weed management and exotic tree removal (staggered)
- Replace feeding habitat for Yellow-tailed Black Cockatoo in loc alised revegetation areas.
- Potential removal of some existing native trees to facilitate reconstruction of the aqueduct.

Potential Project 7:
Bike tracks
- Expand on existing bike track
- Short downhill mountain bike
- BMX track
- Encourage bike use in designated areas of low ecological value
- Work with local youth in both design and construction.
- Bicycle racks

Potential Project 8:
Historic conservation
- Restoration of aqueduct
- Informal seating
- Surface treatment
- Interpretative signage
- Slow flows and retain soil moisture
- Introduce native riparian planting
- Increase biodiversity opportunities for local species.
- Board walk crossing

Potential Project 9:
Expand reserve to connect with aqueduct reserve
- Strong pathway connections to Niquet Reserve
- Expand Niquet Reserve to merge into the Aqueduct Reserve
- More formal shade tree planting, seating, drinking fountain and bicycle racks.
- Deck boardwalk crossing and vehicle crossing
- Natural and interpretive play
- Small areas of irrigated grass
- Lay back creek bank WSUD opportunity
- Rock line creek bed
- Slow flows and retain soil moisture
- Introduce native riparian planting
- Increase biodiversity opportunities for local species.
- Weed management and exotic tree removal
- Development of wildlife corridor

Potential Project 10:
Natural water course restoration
- Weed management
- Deck boardwalk crossing
- Seating
- Re-vegetation and infill planting in existing revegetation area
- Biodiversity enhancement through revegetation and restoration of wetland and riparian vegetation

Legend
- Interpretive Signage
- Wayfinding Signage
- Seating
- WSUD (Water Sensitive Urban Design)
- Remnant Vegetation
- New Community Gardens
- Viewpoints
- Dogs on Leash
- Major Path Shared Use Cycling and Walking
- Minor Track
- Access Track
- Existing Fire / Maintenance Track
- New/Extension to Fire / Maintenance Track
- Steps
- Remnant Vegetation
- Screening Vegetation
- Traffic Calming / Bollards/Pinch Points
- Aqueduct
- Bollards
- Railing fences
- Connection

TRAFFIC CALMING · WAYFINDING SIGNAGE · INFORMATIONAL SIGNAGE · SHELTER · RUBBISH BINS · SEATING · BOARDWALKS · STEPS · WALKWAYS · NATURAL WALKWAYS · BOLLARDS · BRIDGE · BICYCLE FACILITIES · SEATING

BACKGROUND RESEARCH

Maintenance

Priority
- HIGH WEED MANAGEMENT
- LOW WEED MANAGEMENT
- MEDIUM WEED MANAGEMENT
- STAGED TREE MANAGEMENT, PRUNES AND REMOVALS
- NEW FIRE TRACKS / MAINTENANCE ACCESS

Stormwater

- POTENTIAL PROJECT/AREAS
- CHANNEL DISCHARGE LOCATION POINTS
- STORMWATER INFRASTRUCTURE
- CATCHMENT 01
- CATCHMENT 02
- CATCHMENT 03
- CATCHMENT 04
- CATCHMENT 05
- CATCHMENT 06
- CATCHMENT 07
- CATCHMENT 08
- CATCHMENT 09
- CATCHMENT 10
- CATCHMENT 11
- CATCHMENT 12
- CATCHMENT 13
- CATCHMENT 14

Ecology

Vegetation_Association
- COMMUNITY INFORMAL GARDEN
- EUCALYPTUS CAMALDULENSIS VAR. CAMALDULENSIS (RIVER RED GUM) RIPARIAN OPEN WOOLAND
- EUCALYPTUS LEUCOXYLON (SOUTH AUSTRALIAN BLUE GUM) WOODLAND
- NATIVE GRASSLAND
- REVEGETATION
- PHRAGMITES AUSTRALIS (COMMON REED) GRASSLAND
- PINUS HALEPENSIS (ALEPPO PINE) WOODLAND
- HIGHBURY_AQUEDUCT_REMNANT_VEGETATION_AREAS

Fire

- MINOR FIRE TRACK
- SERVICE TRACK
- ASSET ZONE
- BUFFER ZONE