

# Murray Darling Association Inc.

admin@mda.asn.au  
www.mda.asn.au  
T (03) 5480 3805  
ABN: 64 636 490 493

1/250 Anstruther  
Street  
P.O. Box 1268  
Echuca, Vic 3564

## Region 7 Ordinary Meeting No 117 MINUTES

### *Indigenous Acknowledgement*

*"The Murray Darling Association acknowledges the traditional owners of this land and the waters on which we meet"*

Meeting opened at 6:51pm

#### 1. WELCOME

Mayor Jillian Whittaker, City of Campbelltown

#### 2. ATTENDANCE

##### 2.1 Present:

- Cr Andrew Tilley, City of Mitcham
- Cr John Kennedy OAM, Campbelltown City Council
- Dr Tim Johnson, City of Mitcham
- Ms Deana Mildren (via Zoom), Murray Darling Basin Authority
- Cr Therese Britton – La Salle, Campbelltown City Council
- Mr Gary Goland, Individual Member
- Ms Pauline Frost, Life Member
- Ms Lynda Yates, Individual Member
- Mr Peter Shepherd
- Cr Robin Coleman, City of Tea Tree Gully
- Mr Thornton Harfield, City of Tea Tree Gully

##### 2.2 Apologies:

- Mayor Heather Holmes-Ross, City of Mitcham
- Mr Peter Bice, Adelaide Hills Council
- Mr Stephen Coppins
- Cr Lyn Petrie, City of Tea Tree Gully

#### 3. CHAIRMAN'S OPENING

*The Chair asked members to pause for a moments silence in honor of Cr Peter Jamieson who was a valued member of Region 7 and the Murray Darling Association as well as a friend to many of our members.*

#### 4. DECLARATION OF INTERESTS

Nil

#### 5. MINUTES

MOVED Cr Kennedy

That the Minutes of Meeting No 116 of Adelaide Metro Region 7 held on Thursday 17 June 2021 be confirmed.

SECONDED Mr Goland

CARRIED

**6. MURRAY DARLING ASSOCIATION BOARD MINUTES**

Minutes of the Ordinary Meetings of the Board can be viewed by clicking on the following link.

[Minutes of the Ordinary Meetings of the MDA Board](#)

**7. REPORTS FROM THE CEO**

Reports from the CEO can be viewed by clicking on the following link.

[Chief Executive Officer Reports](#)

Emma joined the meeting to give a verbal update and took questions from the committee. Topics discussed included: Range of opportunities to review structural governance, review of regional boundaries, upcoming delivery of leadership program in South Australia scheduled for October – this will be Emma’s last trip in her role to the state as she has tendered her resignation, new CEO timeline is onboarding in November (Black Adder and Associates doing recruitment process)

**8. PRESENTATIONS**

**8.1 Ms Deana Mildren**

Regional Engagement Officer, Lower Murray, Murray-Darling Basin Authority

*Update from the Murray Darling Basin Authority including water in storage, Menindee Lakes, SDL Compliance Report and Webinars. (presentation included with minutes)*

**8.1 Dr Tim Johnson**

Sustainable Infrastructure Engineer, City of Mitcham

*Benefits of Water Sensitive Urban Design and Green Engineering. (presentation included with minutes)*

**8.3 Mr Walter Iasiello**

Acting Special Projects and Properties, Campbelltown City Council

Campbelltown Recycled Storm Water Scheme (presentation included with the minutes)

**9. OTHER BUSINESS**

**10. NEXT MEETING**

The next meeting of the MDA Region 7 will be held on Thursday 18 November 2021 at the City of Port Adelaide Enfield, commencing at 6.30 pm.

Future meeting location flagged as being Waite Abortorium / Urrbrae Wetlands

**11. CLOSE**

The meeting closed at 9:36pm

*The Murray Darling Association acknowledges and thanks the City of Campbelltown for its support in hosting this meeting of Region 7.*

# MDA Region 7

**Deana Mildren**  
Regional Engagement



Australian Government



---

# Acknowledgement of Country

The Murray–Darling Basin Authority (MDBA) pays respect to the Traditional Owners and their Nations of the Murray–Darling Basin.

We acknowledge their deep cultural, social, environmental, spiritual and economic connection to their lands and waters.

The MDBA understands the need for recognition of Traditional Owner knowledge and cultural values in natural resource management, associated with the Basin.



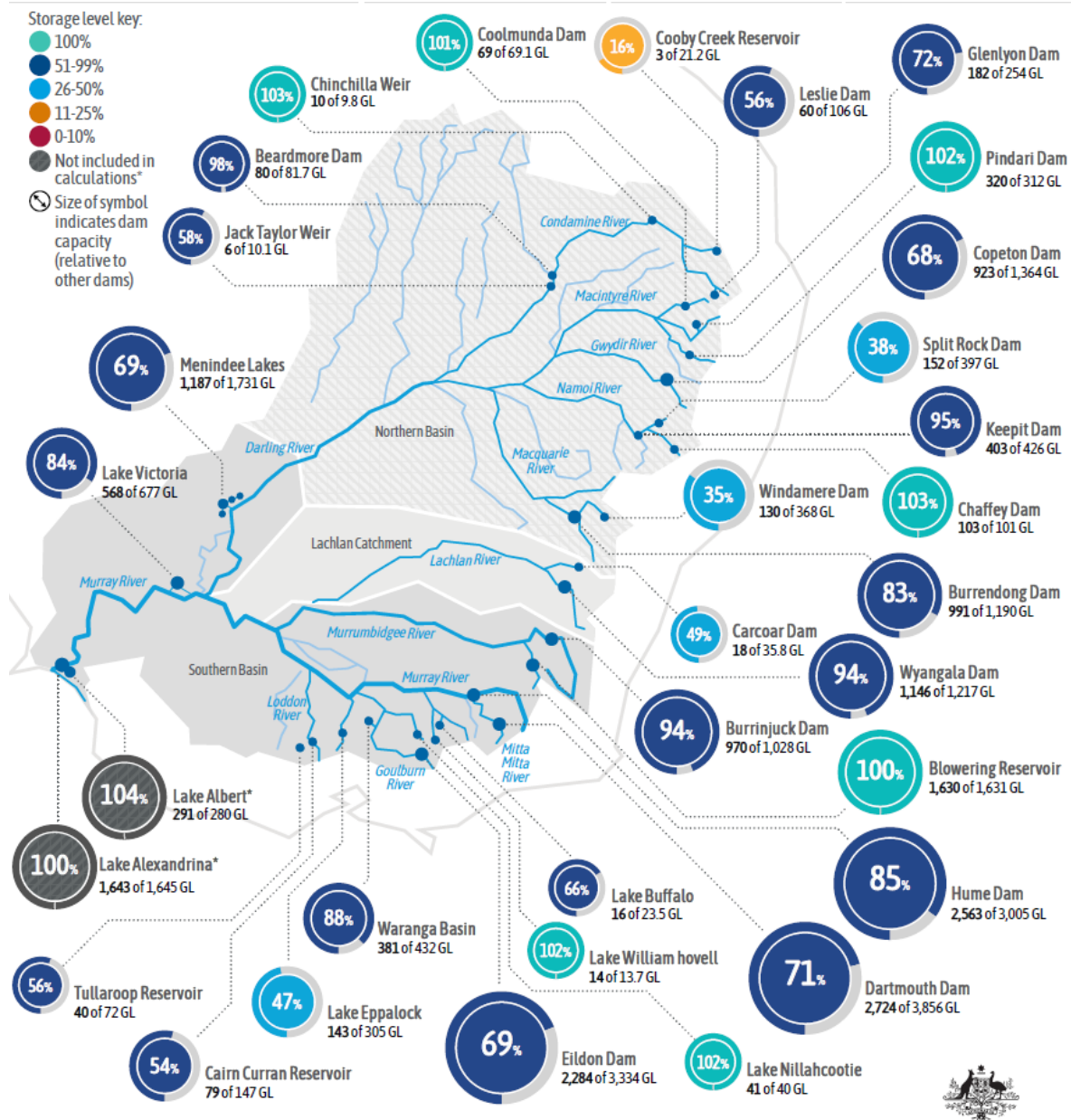
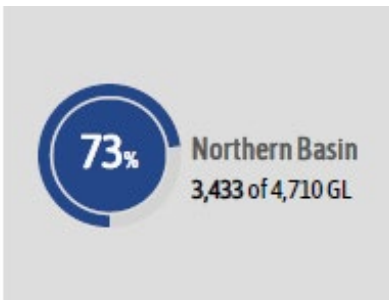
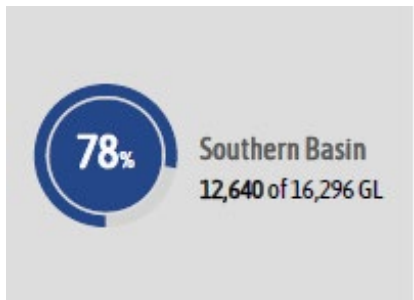
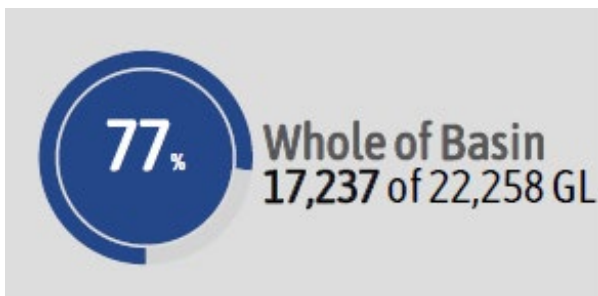


---

# Today's presentation

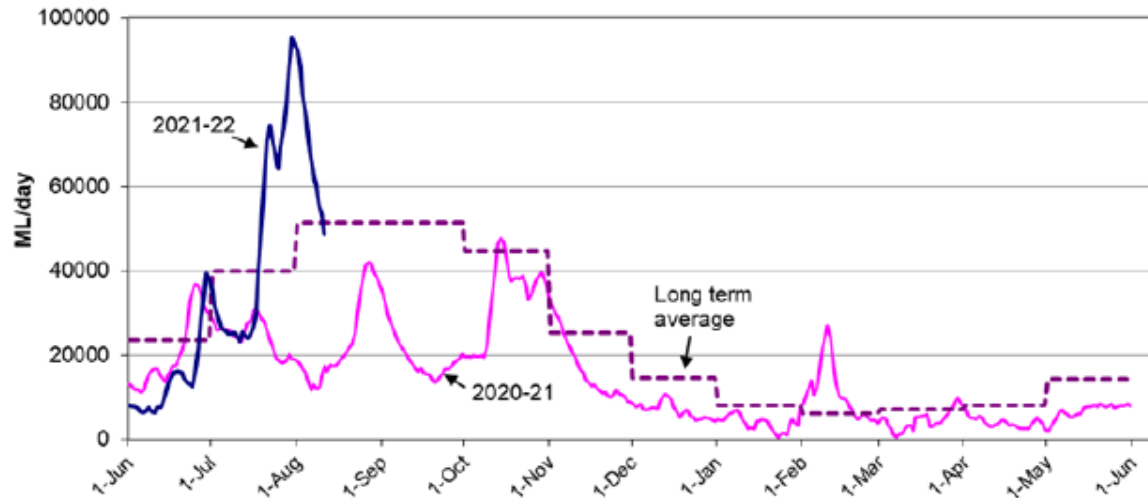
- Water in Storage
- Menindee Lakes
- SDL Compliance Report
- Webinars

# Water in Storages

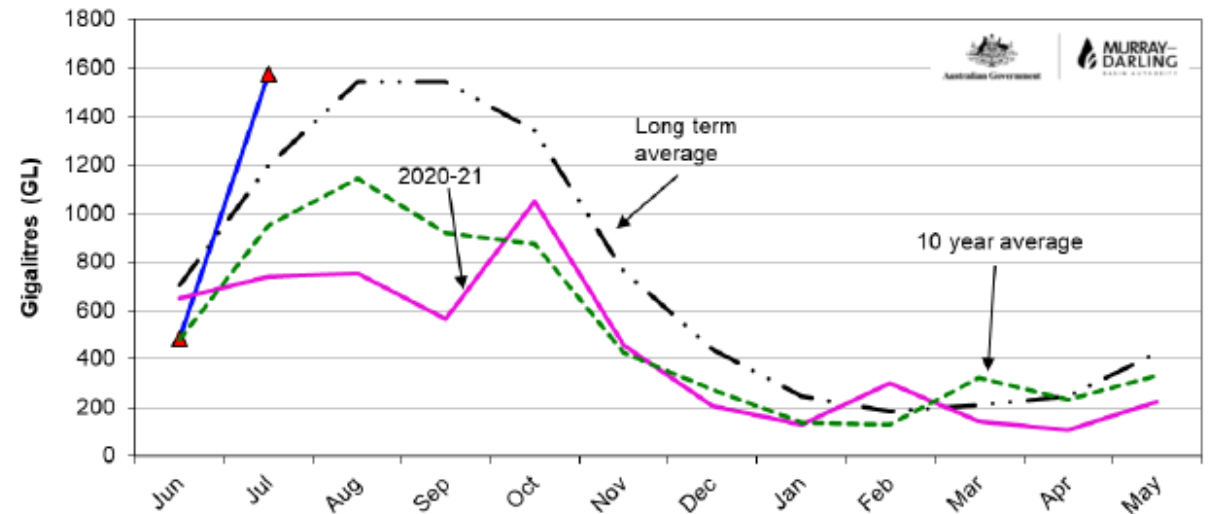


# Murray System Inflows

Murray System Daily Inflows (excl. Snowy, Darling, inter-valley trade and environmental inflows) - 5 day rolling average



Murray System Monthly Inflows (excl. Snowy, Darling, inter-valley trade and environmental inflows)





---

# Reporting on Basin Plan SDLs

## 19/20 – *First Real Report*

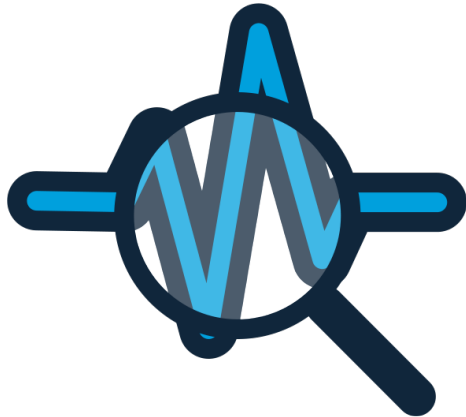


- Sustainable Diversion Limits (SDLs) are how much water, on average, can be used in the Basin by towns, communities, industries and farmers/irrigators.
- Basin states are required to keep within the Basin Plan limits in applying their water management frameworks.
- Assessments made under the bilateral agreements with the Basin states, where WRPs were not accredited by 1 July 2019.
- Actual Take vs Permitted take in each SDL Unit



---

# What did we find?



- Strong compliance (97%) with the Basin Plan across all states.
- Of the 109 SDL resource units, 106 were within the allowable limits.
- 3 areas reported water use *above* the limits
  - Barwon-Darling (surface water)
  - Upper Macquarie Alluvium (groundwater)
  - Lower Murrumbidgee Deep Alluvium (groundwater)

---

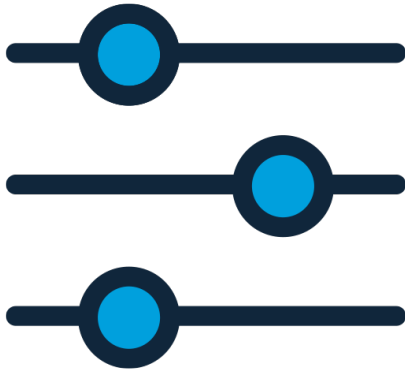
# What does it mean?



- 2019/20 is the first year of SDL accounts and in our reporting we have identified and have acted on exceedance of SDLs.
- These findings aren't about individual breaches in water use. (State's role to monitor and act on individuals)

---

# What happens next?



The MDBA has agreed with NSW that in the Barwon-Darling :

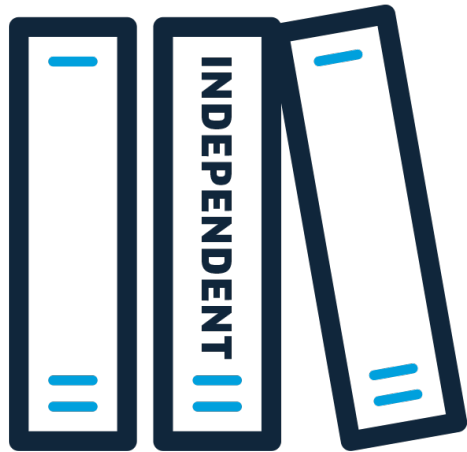
- modelling needs updating, to provide confidence in the water-take numbers.

Further, the MDBA has informed NSW :

- the roll-out of new meters needs to be completed, so the total level of take can be properly measured
- the draft water resource plan must be adhered to (until the final plan is accredited and operational).

---

# Next steps for NSW



NSW will:

- publish information about compliance with their state limits
- enforce improvements in Barwon-Darling metering and recalibration.
- Immediate assessment of the long-term average annual extraction limit – results to be provided to MDBA shortly
- Modifying the Barwon-Darling annual permitted take model
- They will provide an update on the groundwater use trends in 2 Groundwater SDL Units

---

# Compliance going forward



- MDBA Office of Compliance has moved to the Inspector General for Water Compliance, the IGWC will be responsible for SDL compliance.
- The MDBA will continue to do SDL accounting.



# Webinars

- Capacity issues in the River Murray
- Water quality in the Basin
- Menindee Lakes
- Murray-Darling Basin Agreement
- Northern Basin activities

[Webinars | Murray-Darling Basin Authority](https://www.mdba.gov.au/webinars)  
([mdba.gov.au](https://www.mdba.gov.au))



# Thankyou

## Deana Mildren

SA Regional Engagement

[Deana.Mildren@mdba.gov.au](mailto:Deana.Mildren@mdba.gov.au)

Ph: 0437 047 123



Australian Government



# acting locally, thinking globally

Murray-Darling Association meeting 19 August 2021

Presented by the City of Mitcham



CITY OF  
MITCHAM



**Urrbrae Wetland**

# Green Engineering & Water Sensitive Urban Design

- *TREENET Inlets*
- *soakage trenches*
- *permeable paving*



CITY OF  
MITCHAM



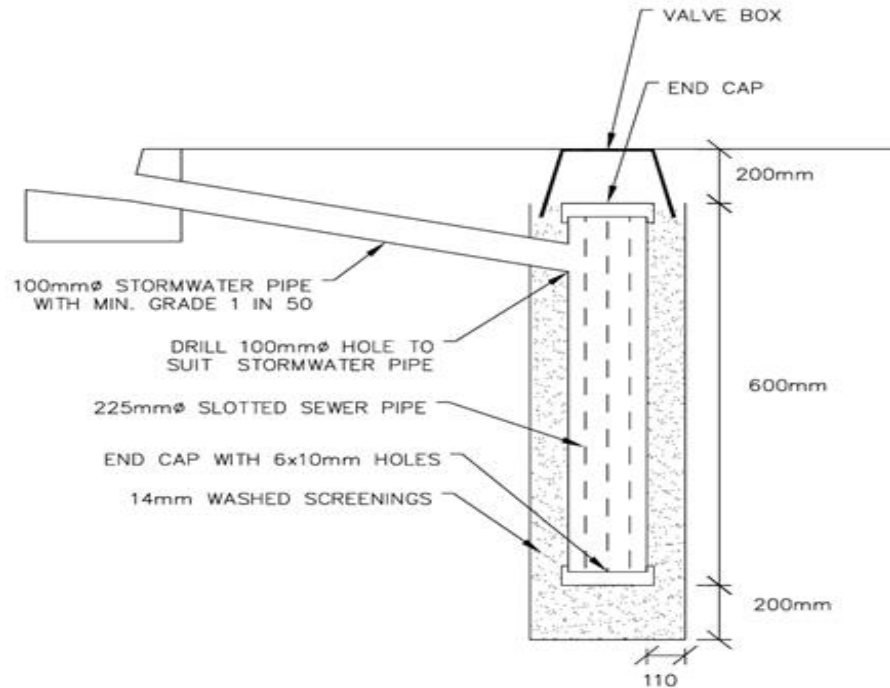




45961



# TREENET Inlet







Sussex Terrace

King Edward Avenue

Bowllia Avenue

Garwood Street

Jeffrey Street

Hale Avenue

Bernard Street

Abbotshall Road

Street

Crow

# How much stormwater do TREENET Inlets harvest?

2017

93 TREENET Inlets installed

Rainfall: 80,060 m<sup>3</sup>

Inlets retained 407 m<sup>3</sup>

Average capture per inlet: 4500 litres

2018

181 TREENET Inlets installed

Rainfall: 57,090 m<sup>3</sup>

Inlets retained 330 m<sup>3</sup>

Average capture per inlet: 1800 litres

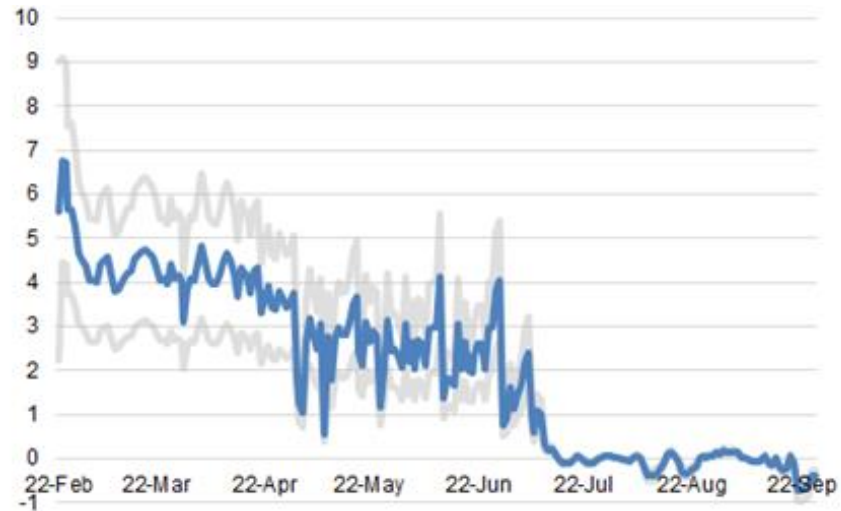
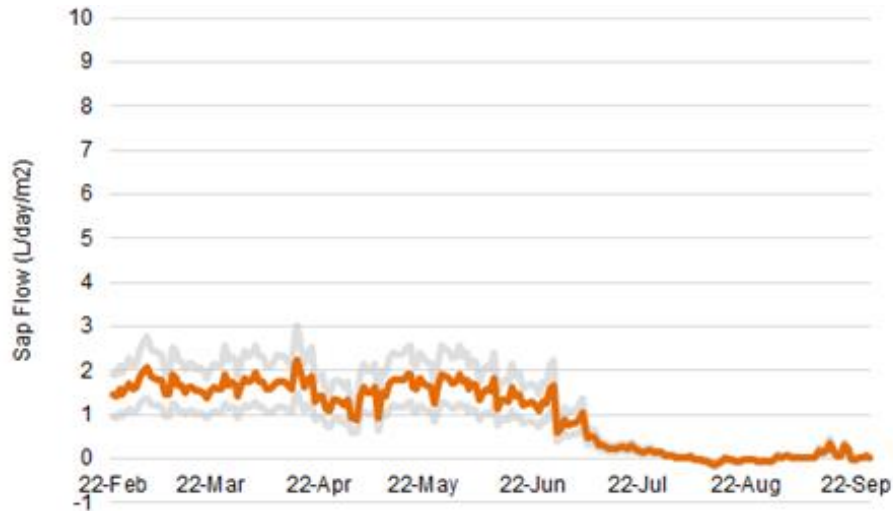
Shahzad, H. 2020. Catchment Hydrology – Before and After WSUD Treatments. *Proceedings of TREENET 21<sup>st</sup> National Street Tree Symposium*, Adelaide South Australia, September 4 - 28











Sap flow data February to September 2019

Left (orange) shows indicative flow without TREENET Inlet

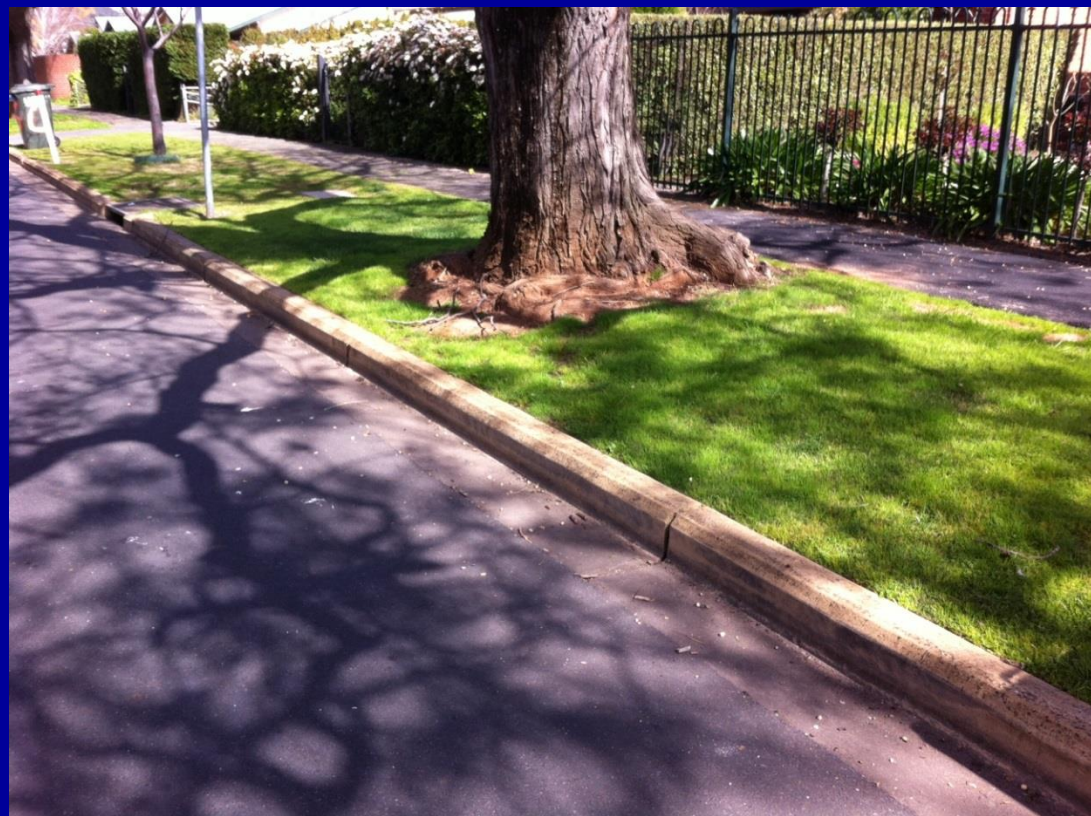
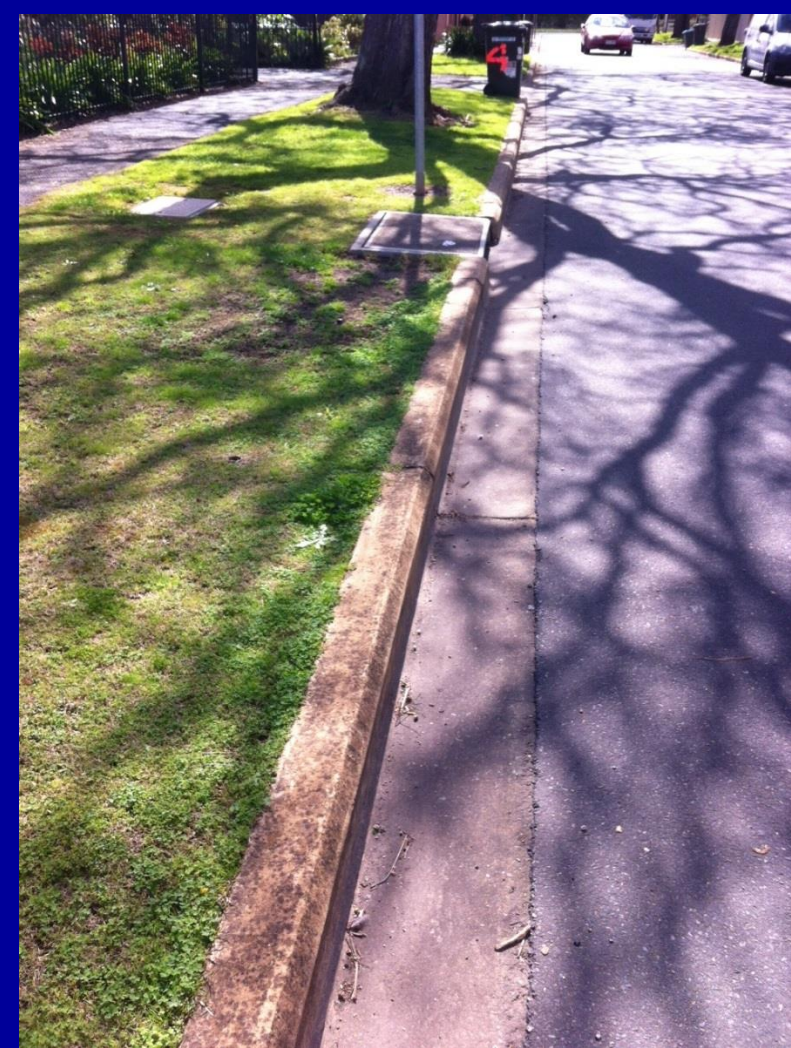
Right (blue) shows indicative sap flow with TREENET Inlet

Source: Gleeson, Xanthia, 2019. *Impacts of enhanced storm water infiltration on urban Melia azedarach functioning in dry season*. Thesis for the degree of Bachelor of Science (Honours) – Environment. Flinders University

- In the street with TREENET Inlets, water use during summer by mature trees was 29% higher than in the street without inlets
- Photosynthesis was 94% higher in saplings in the street with inlets
- Sapling trunk diameter growth was 25% greater in the street with inlets
- Sapling height growth was 50% greater in the street with inlets

Gleeson, X. 2020. *Impacts of enhanced storm water infiltration on urban Melia azedarach functioning in dry season. Proceedings of TREENET 21<sup>st</sup> National Street Tree Symposium, Adelaide South Australia, September 4 - 28*



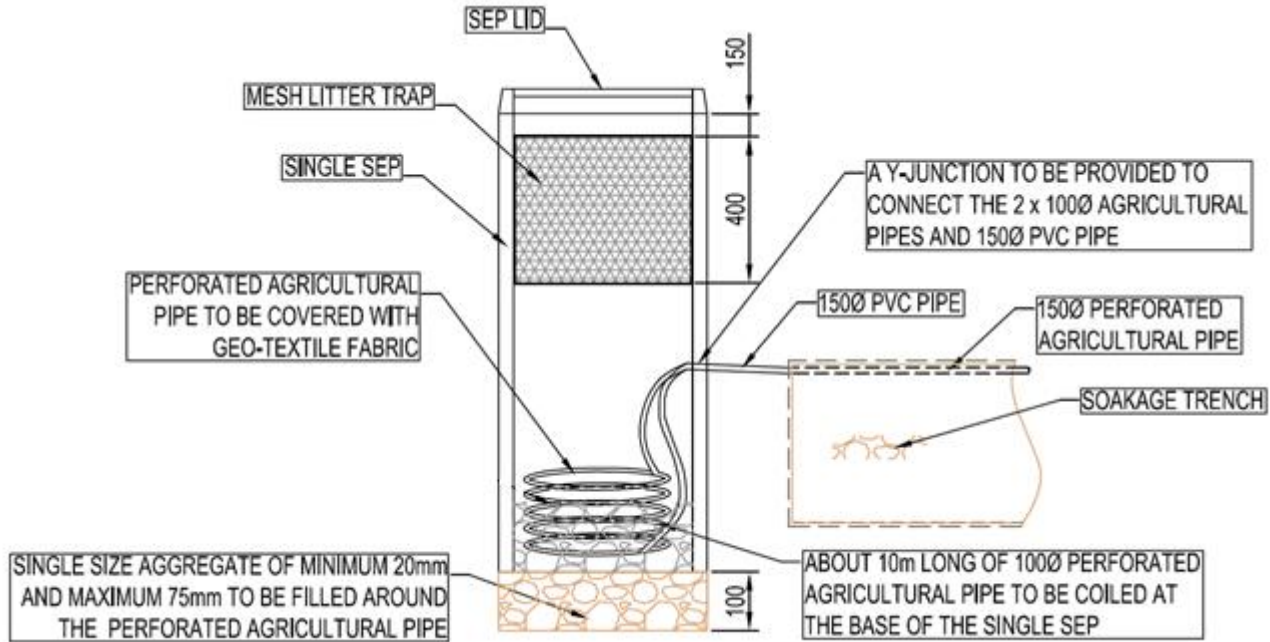


August 2019





Dorset Avenue, Colonel Light Gardens  
April 2008







March 2019





Strand Reserve

15-92

15-20

16-37

17-53

49-91

38

43-44

33-90

27-53

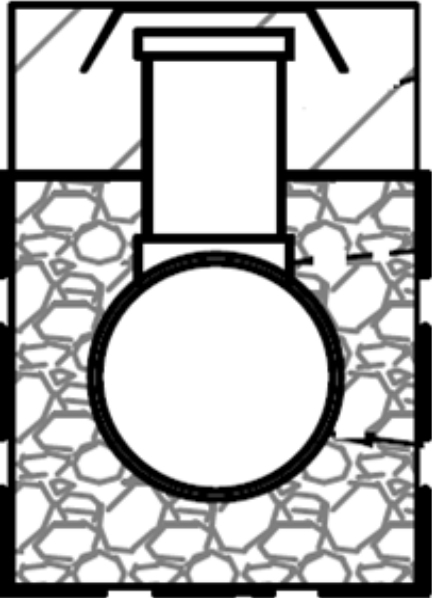
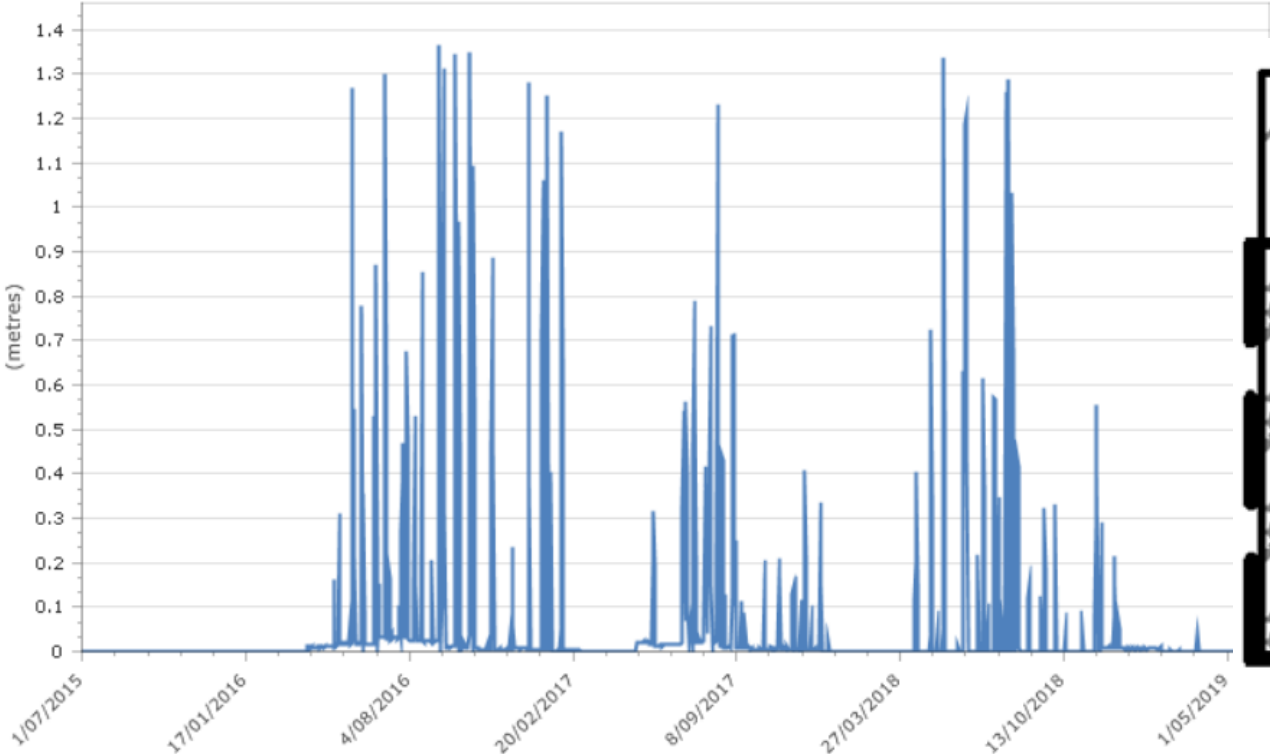
39-27

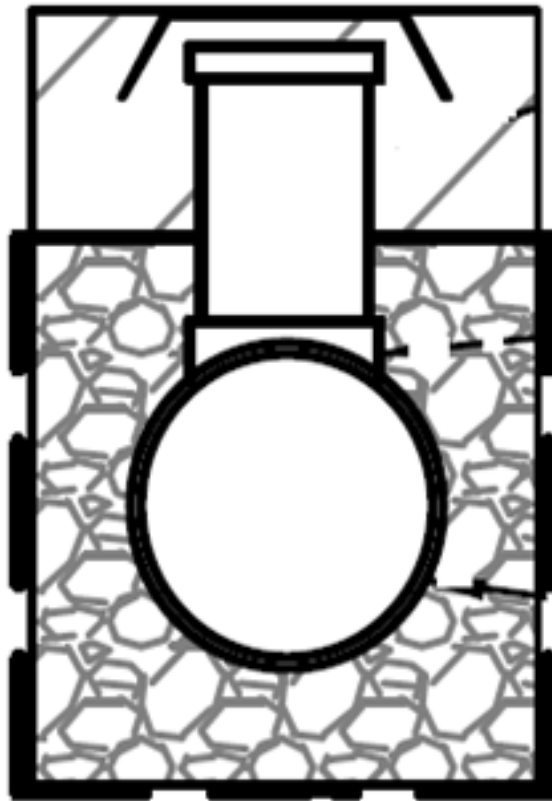
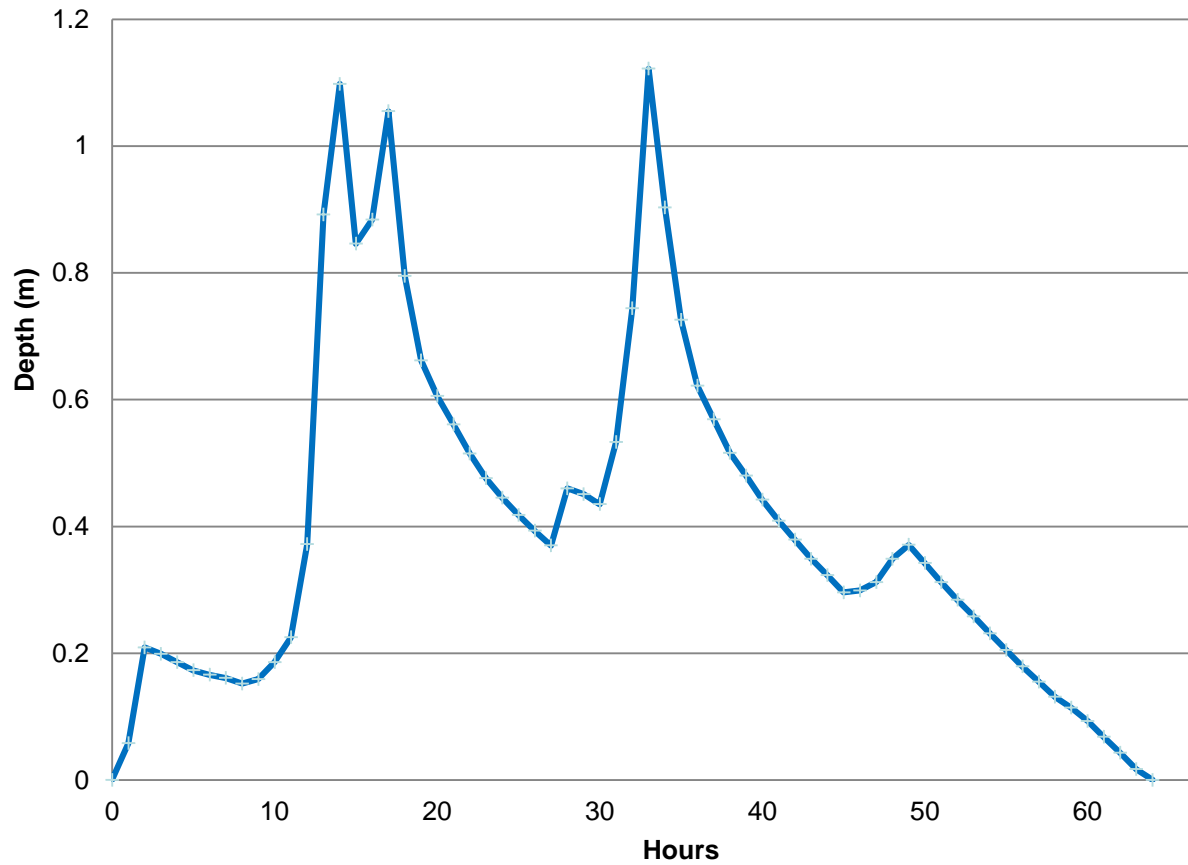
44-01





The Strand Res Well 1 - W5040091  
Water Level (metres)

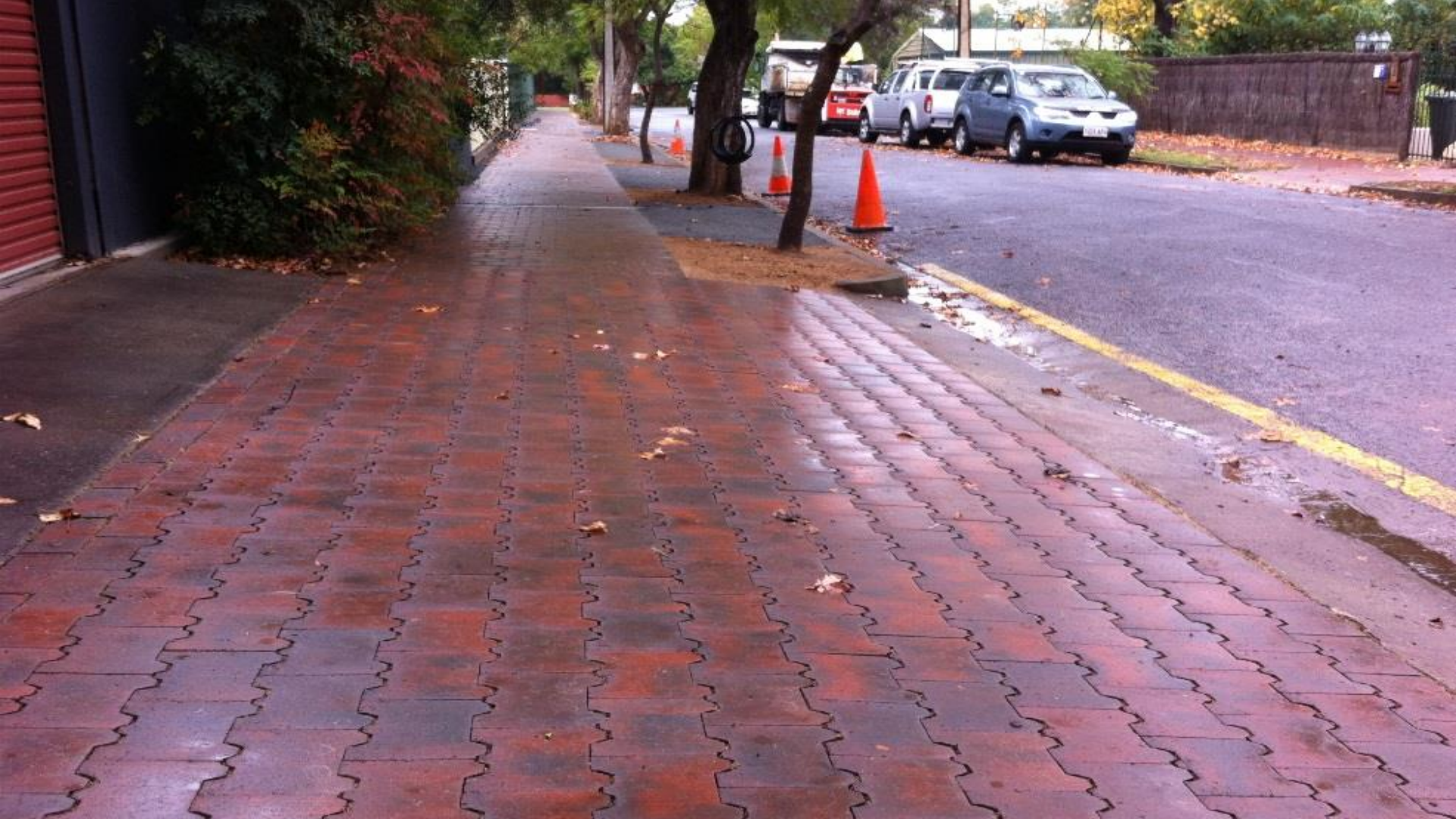




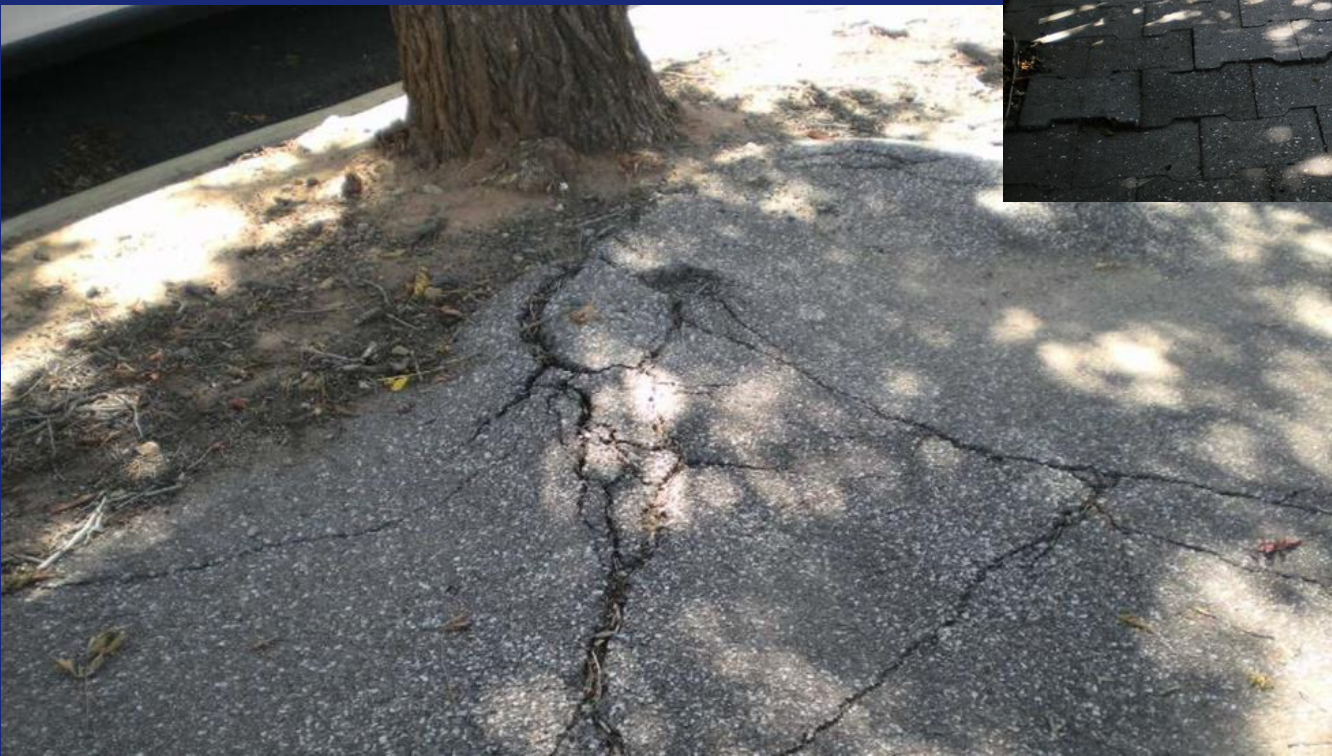
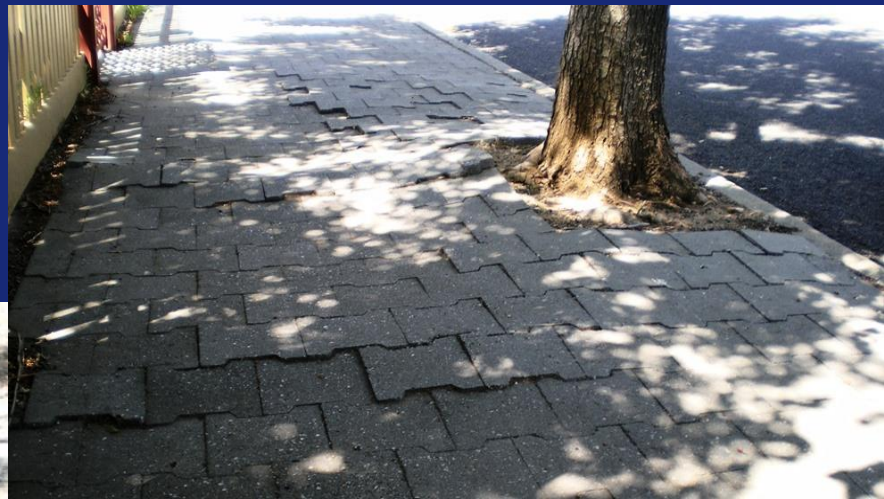
























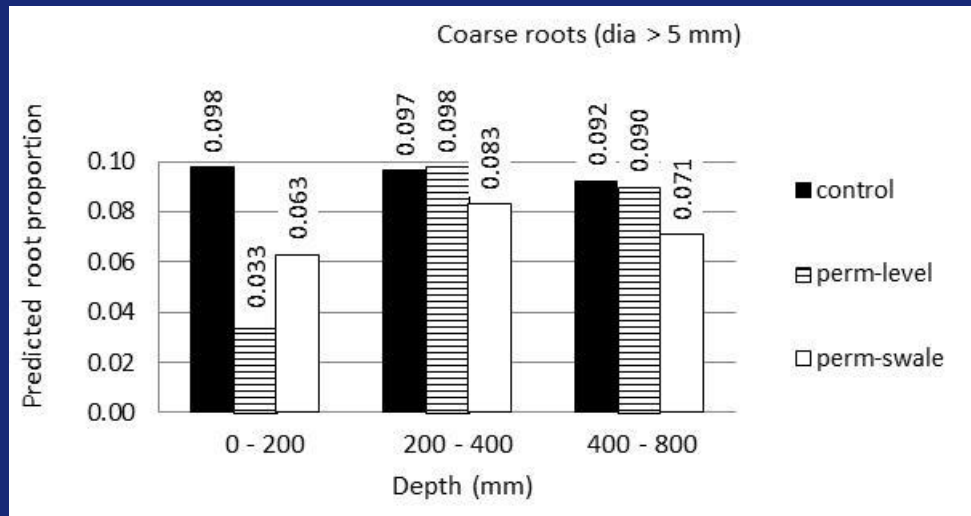


















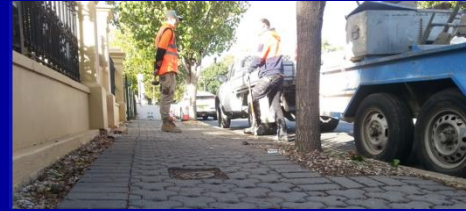




impervious  
paving  
9 years  
after  
construction



Puddles, tripping hazards,  
short tree and pavement life  
cycles



Avoid puddles & hazards,  
enjoy long tree and  
pavement life cycles

pervious  
paving  
10 years  
after  
construction



**Kegworth Road Melrose Park**



Treenet – An Independent Non-P x +

treenet.org

Apps Google Maps Google Scholar SA COVID exposure... COVID-Safe Plan New Tab TCOW login page Home : Ci Anywher... SA Covid Dashboar... Reading list

Home Events Our Supporters Education Research Join Treenet About Us News Login

# GREEN IS THE NEW GOLD



MONEY DOES  
GROW ON TREES

## 22nd National Street Tree Symposium

2<sup>nd</sup> September 2021

[www.treenet.org](http://www.treenet.org)





University of  
South Australia



Government of South Australia

Department for Environment  
and Water



THE UNIVERSITY OF  
MELBOURNE



CITY OF  
MITCHAM

**Thank you**

**...questions?**

**Brookside Road, Springfield**







# Campbelltown Recycled Storm Water Scheme



# Why ?



- increased stormwater harvesting and reuse will increase non-potable water supply,
- reduces the volume of water that needs to be treated to a drinking water quality
- reduces reliance on the Murray
- reduces impacts on the environment through reductions in discharge

# Max Amber Managed Aquifer Recharge

- Harvests water from Fifth Creek
- Current licence is for 50ML
- Irrigates Max Amber Sportfield
- Being Expanded to 100 ML
- Will irrigate Steve Woodcock Sportsfield and Thorndon Park

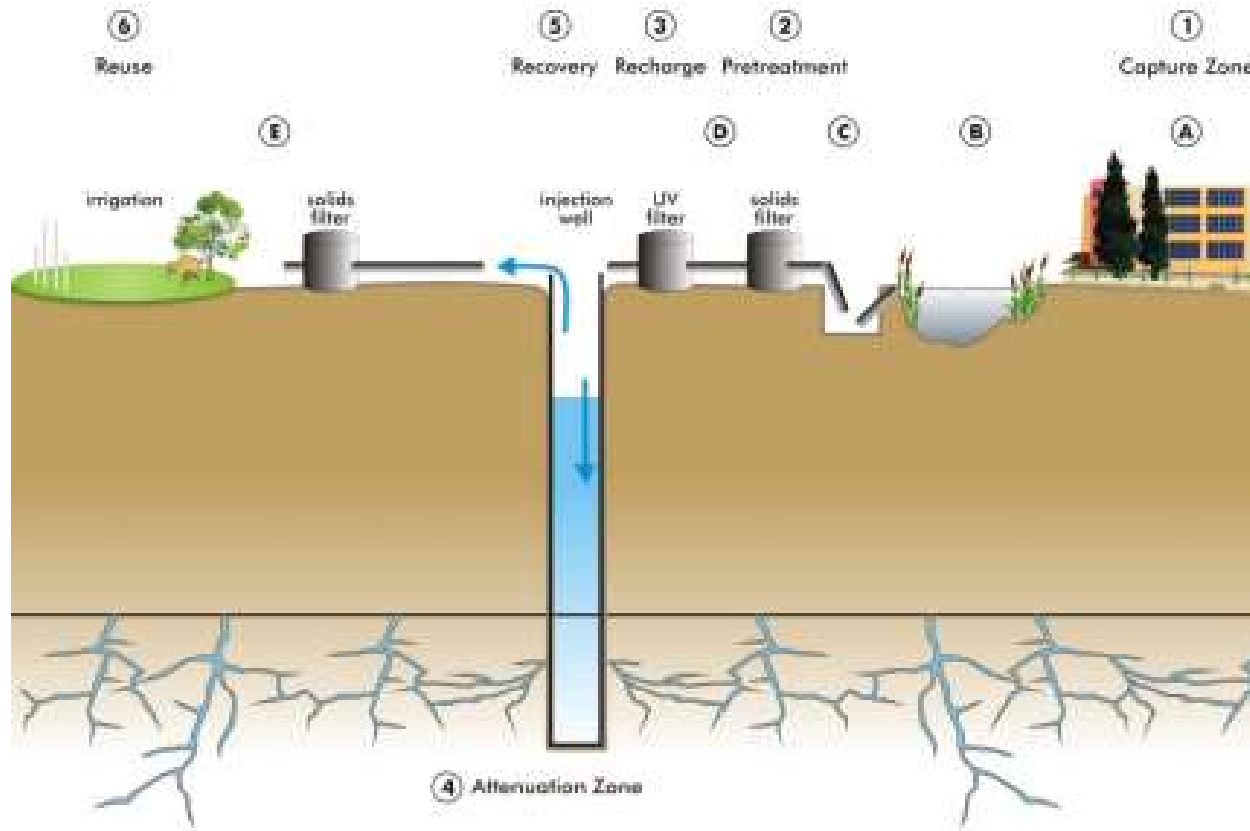


# Catchment Area





# Schematic Layout



©2014 Campbelltown City Council. All rights reserved.

Figure 4: Schematic layout of Fifth Creek MAR scheme-

# Schematic Layout

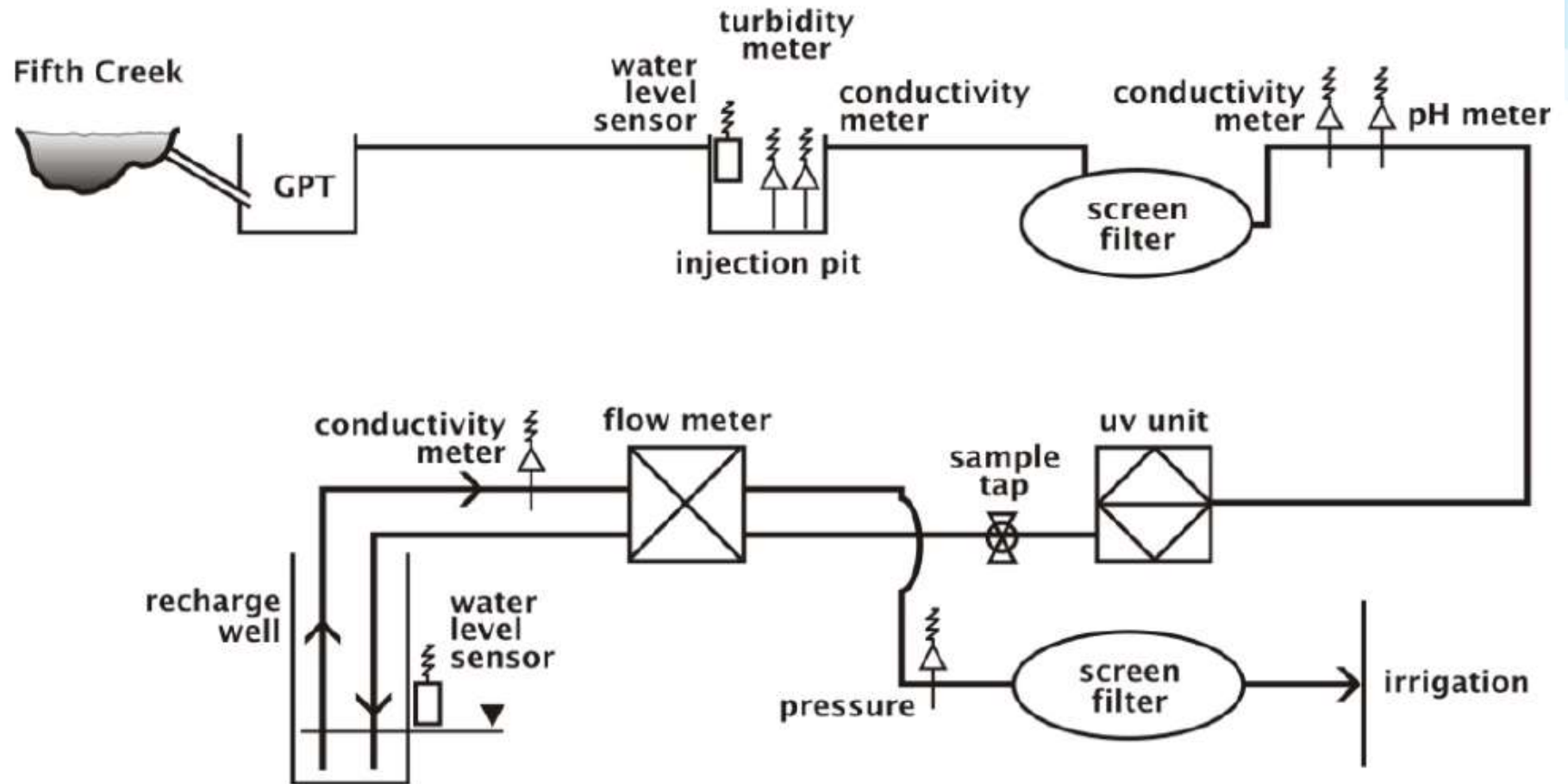


Figure 2: Torrens Valley ASR Scheme Schematic



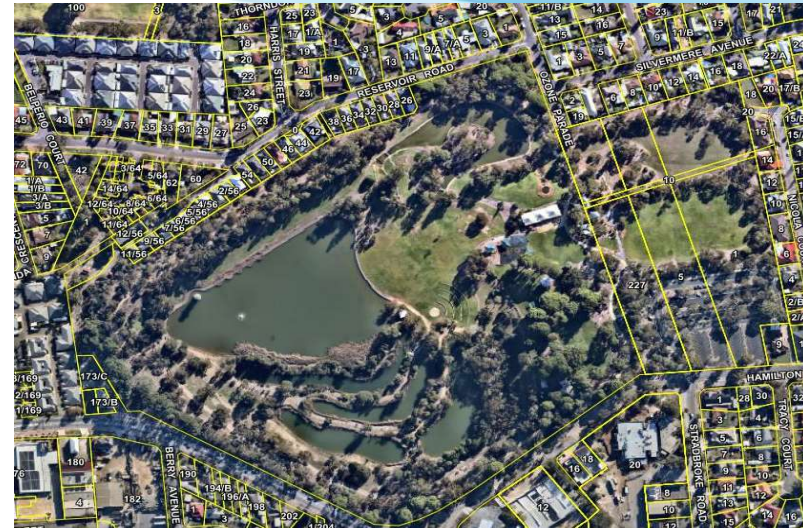
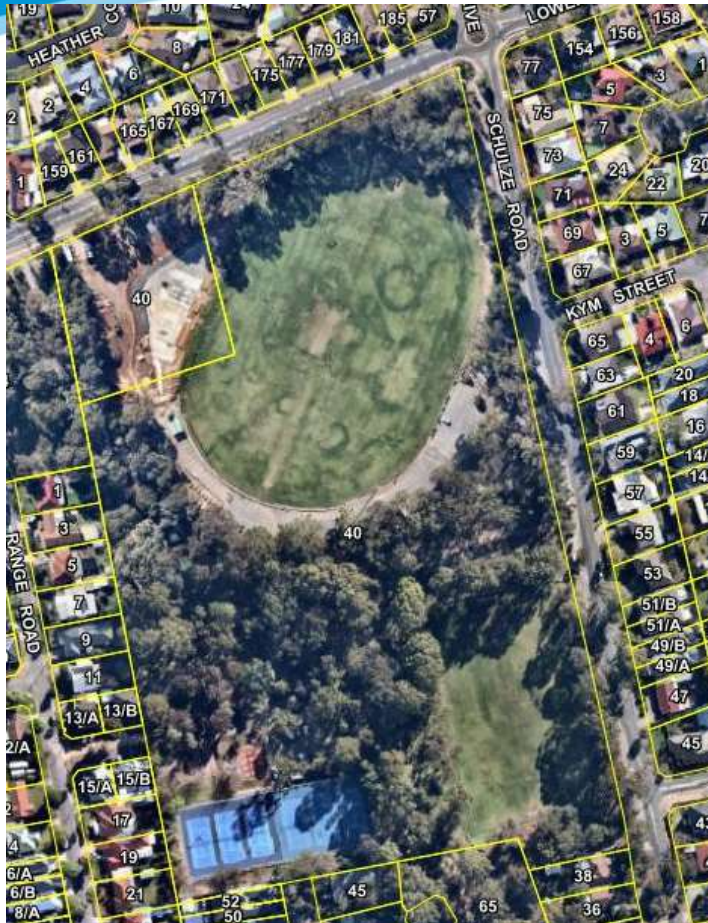
# Pipe line expansion



LOCALITY PLAN  
KTS



# Pipe line expansion





# Regulatory Framework



- EPA Licence for injection specifies water quality criteria
- DEW Authorisation for extraction require a Risk Management Plan
- Landscape Board for Water Course alterations
- ESCOSA Licence if water is sold to third parties

# Questions