


# Harvesting, storage and use of stormwater: an alternative with multiple benefits



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INTERNATIONAL  
WATERCENTRE



# Brisbane – geography and population



Population projected to grow by ~38% by 2036 from ~2.4m to ~3.3m (source: QLD Gov't. Statistician's Office)

# Drought and water security



**Purtell Park 2007**

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**Scale = 1:2,500**

Metres 50 100

**Location:**  
 6,982,418  
 400,040  
 6,981,888

**Date:** Mar 20, 2012  
**User:** 081 690

## YOUR GUIDE TO EFFICIENT GARDEN IRRIGATION

Even in our variable climate, our gardens can flourish through wise water use. Efficient irrigation is now a way of life and will ensure we can maintain the balance of beautiful gardens and sustainable water use. All it takes is a little planning by getting to know your garden's requirements, choosing the right plants and mulches and using water-efficient products.

Make sure you understand how to comply with the efficient irrigation guidelines.

**Brisbane Water Commission**  
 Securing our water, Taps Blue.

## YOUR GUIDE TO TURNING ON THE WATER SAVINGS AROUND YOUR HOME.

# TARGET 140

Level 5 bucketing hours

Your Street Number	Time	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Odd numbered	4pm - 7pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Even or unnumbered	7pm - 10pm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**Queensland Government**

# A significantly altered catchment



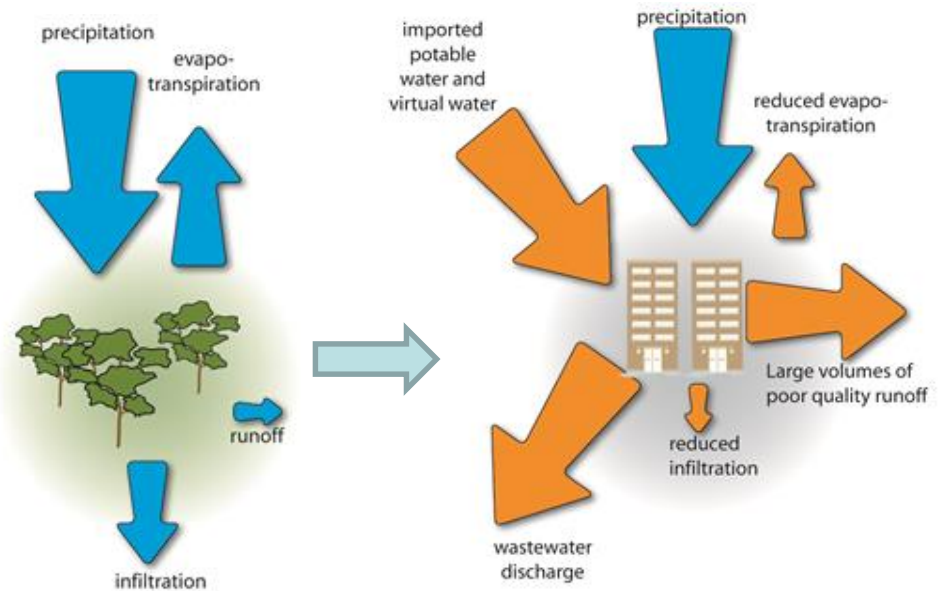
1917



2016

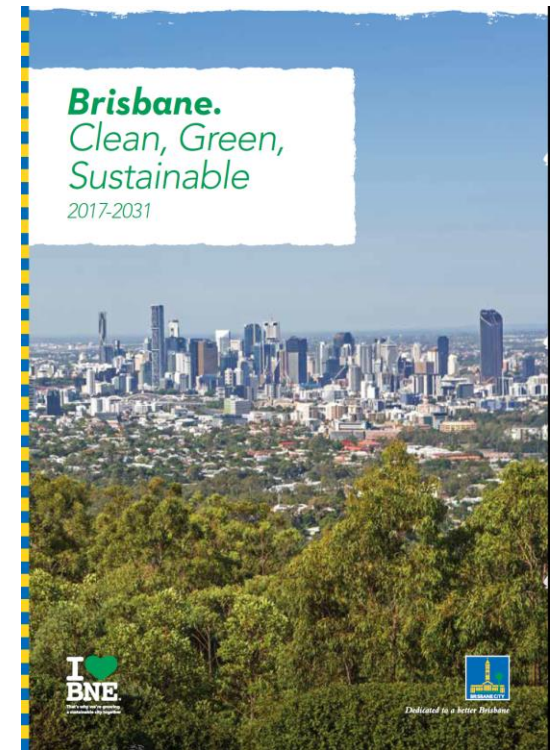
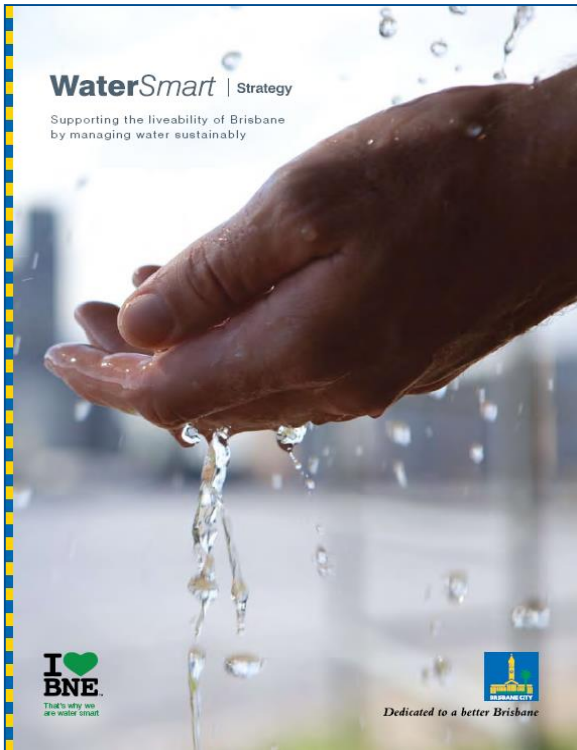


1914



Source: Hoban and Wong (2006)

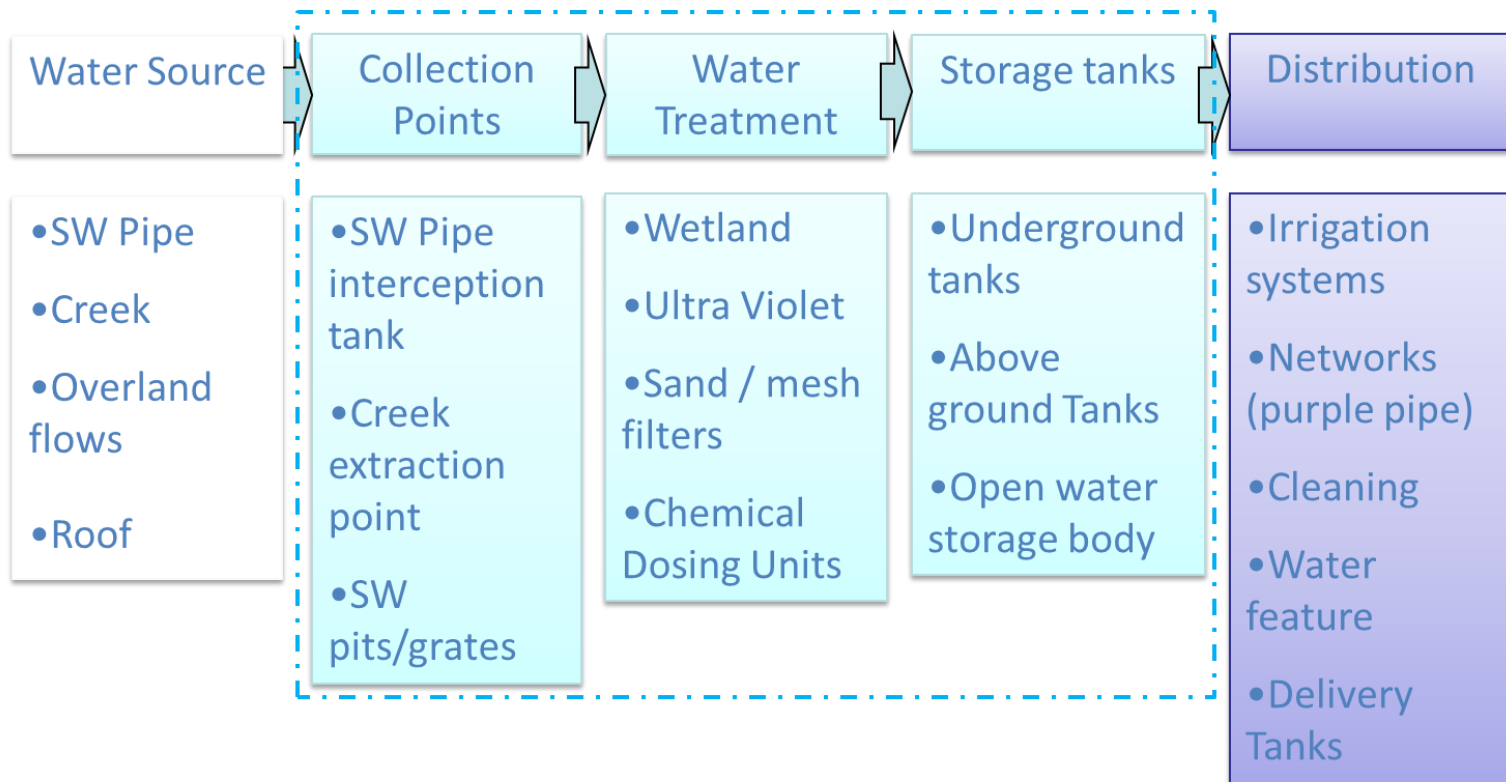
# Integrated water strategy and planning



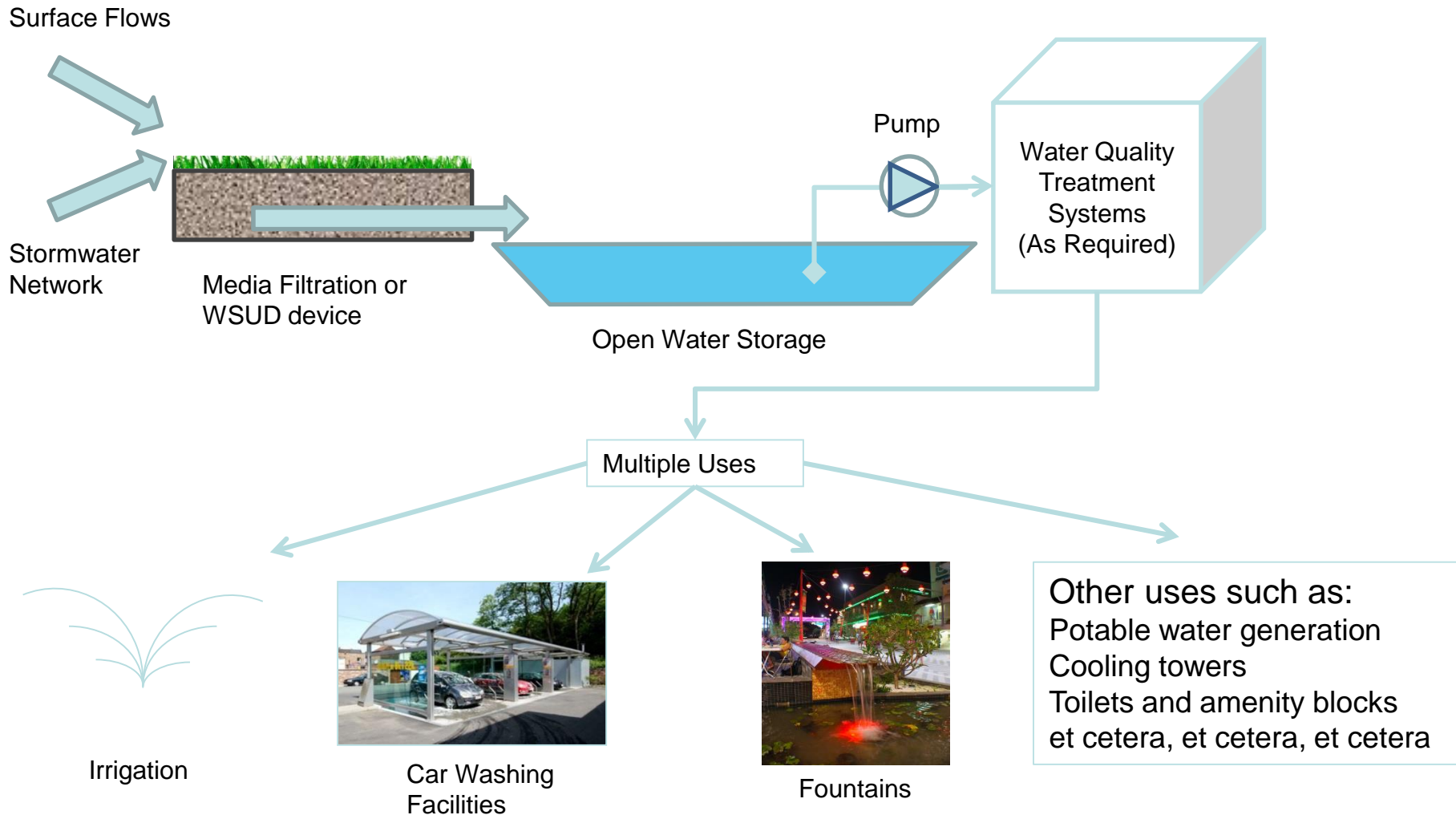
Goals include – (1) A water smart community, (2) a well-designed subtropical city, (3) a healthy river and bay, (4) sustainable water use and (5) active preparation for flooding. The strategies and plans set clear goals, outcomes and actions for Council, partners and the community to deliver on sustainable water management into the future.

# Brisbane's stormwater harvesting program

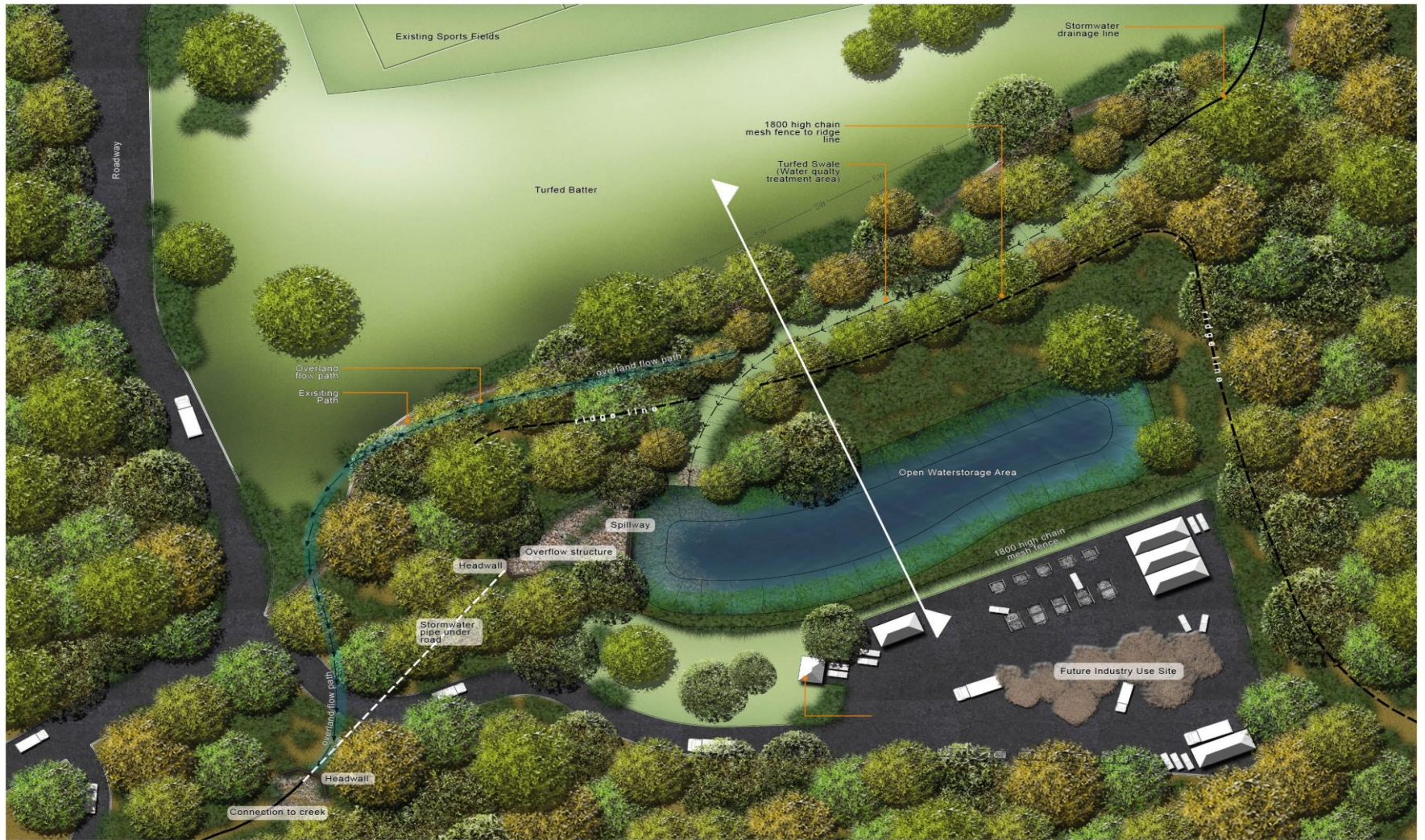
- 26 stormwater harvesting schemes designed and developed between 2007 and 2016 by Brisbane City Council costing \$14.7m
- 400 ML / year of stormwater harvested – open storage, closed storage
- Involving 45 community group partnerships



# Open water storage stormwater harvesting



# Example: White's Hill Reserve, Camp Hill



0m 5 10 20m 40m



# Example: White's Hill Reserve, Camp Hill



# Opportunities and benefits

- Reduced potable water demand through “fit for purpose” water use
- Improved regional water security
- Improved stormwater quality
- Reduced runoff volume and peak
- Habitat creation
- Improved waterway health
- Social amenity improvements – revitalised and usable green space
- Community engagement = ownership
- Investment \$14.7m, savings \$30m

