

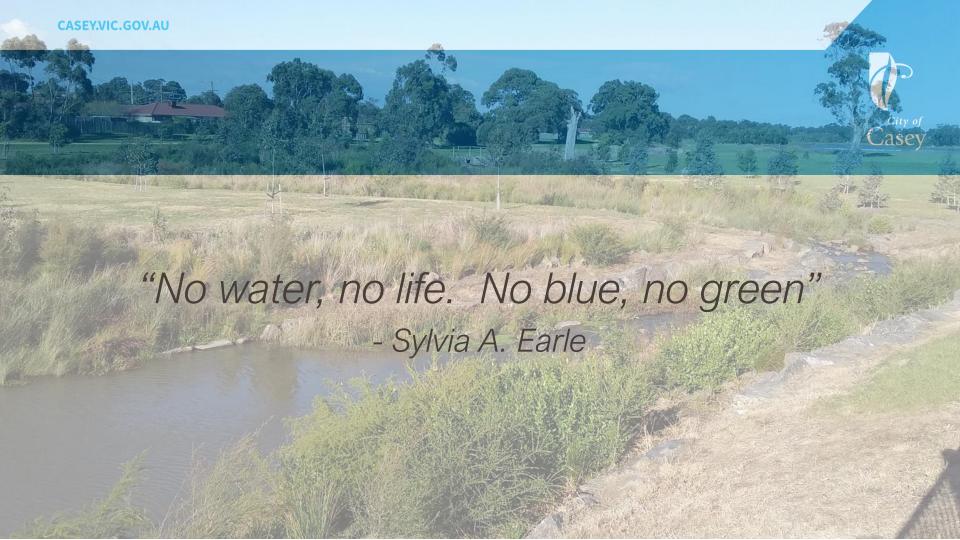
Healthy Waterways Strategy: How does it fit in current context?

28 May 2020

Daniel Fokkens

Team Leader Subdivision and Development Engineering





Agenda

- » Vision & Objectives
- » Issues & Opportunities
- » Case Studies
- » Summary



Alignment of Vision and Objectives



"Healthy and valued waterways are integrated with the broader landscape, and enhance life and liveability. They connect diverse and thriving communities of plants and animals; provide amenity to urban and rural areas, and engage communities with their environment; and are managed sustainability to enhance environmental, social, cultural and economic values"

Casey: A City that sustainably plans and manages growth while protecting its diverse

landscape

Knox: We value our natural and built environment

Moreland: Enhance liveability, affordability and sustainability by guiding growth, and excellence in

urban design and development

Kingston: Our sustainable green environment with accessible open spaces

Manningham: Reduce our Environmental Impact and Adapt to Climate Change



HWS: Issues and Opportunities

HWS Issues

- » Urbanisation
- » Climate Change

Actions

- » Harvest
 - Infiltrate

Opportunities

- Ability toImplement
 - » Targets
 - » Funding
 - » Enforceability
 - Practicality

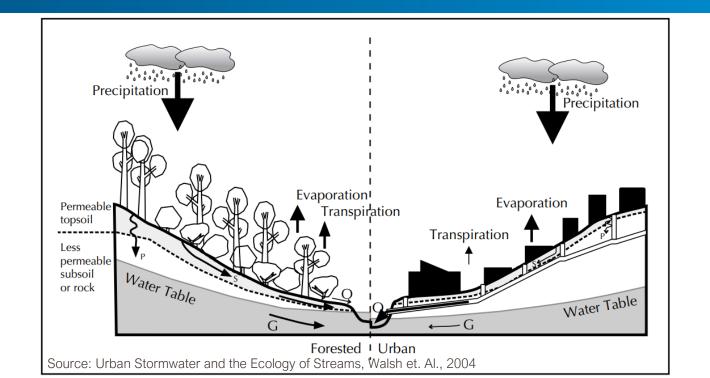
Funding

Enforceability

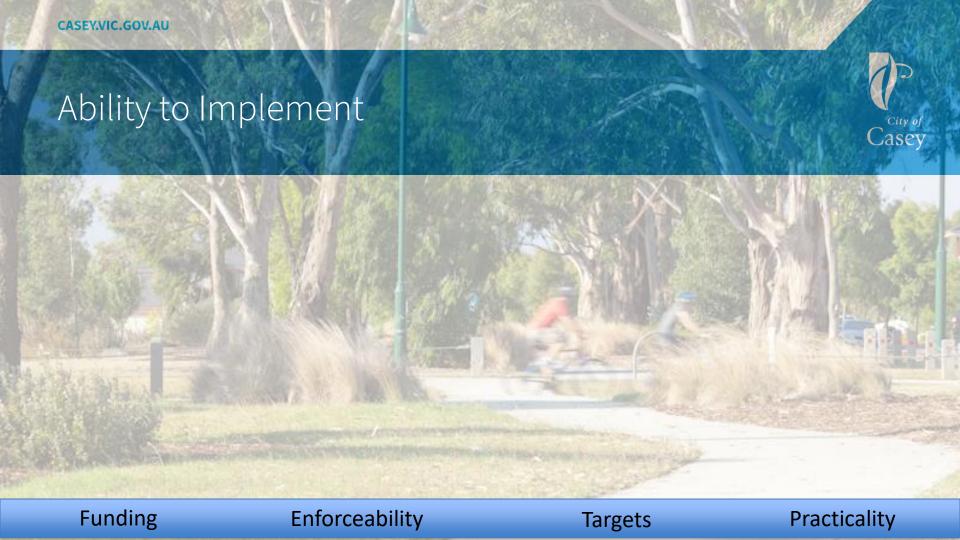
Targets

Practicality

Urbanisation







Funding



- » Rates
- » Grants
- » Developer contributions (e.g. Kingston)
- » Developer Services Scheme
- » Developer Works (Planning)

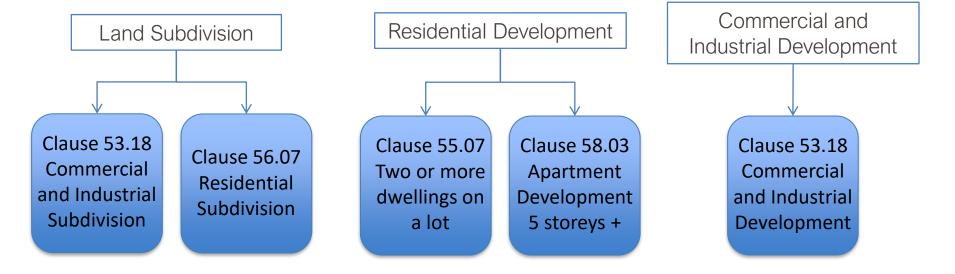
Enforceability: Guiding Documents





Planning Requirements





Funding

Enforceability

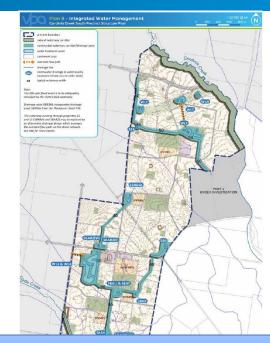
Targets

Practicality

Case Study 1: Regional Stormwater Harvesting



- » New PSP area
- » 5 developers
- » Recycled water mandated
- » IWM Planning requirement
- » Western Port Catchment
- » HWS Priority area No
- » Developer Services Scheme Yes



Stormwater Management Drivers

- » PSP requirement
- » Planning Scheme Objective
- » HWS targets
- » IWM Forum Objectives



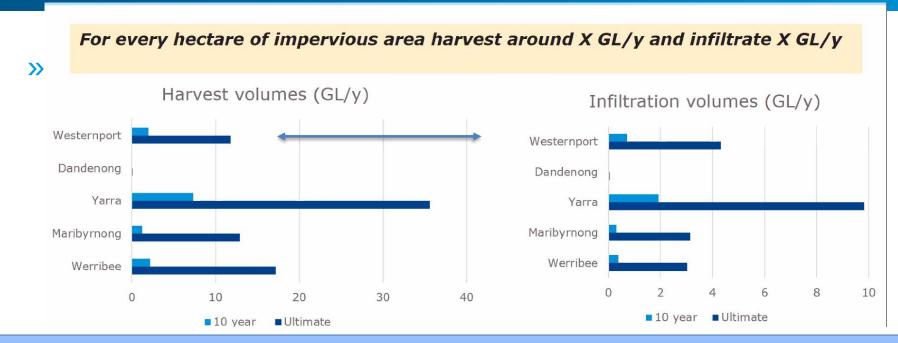






Targets





Funding

Enforceability

Targets

Practicality

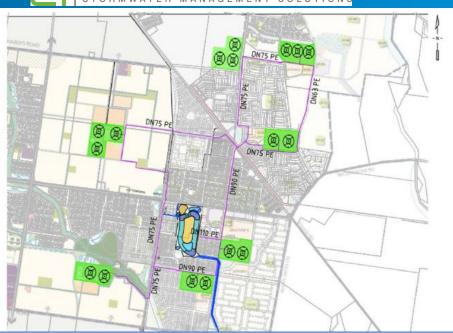
The Proposal





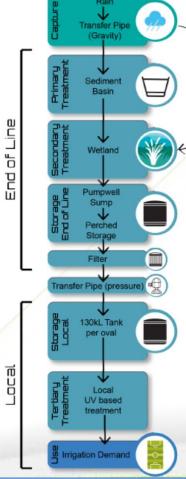


- » Irrigate 17 ovals
- » 100% reliability
- » 120ML/yr harvested



Comparison with HWS targets

	HWS Target	PSP area	Muddy Gates Project	% Target
Harvesting	5.5ML/Ha/yr	2,798ML/yr	123ML/yr	12%
Infiltration	1.9ML/Ha/yr	967ML/yr	NA	NA



City of Casey

Project Benefit

Item	Outcome
HWS Targets met	HWS – Partial
Funding	Capex - Not secured Opex - not secured
Enforceable	Partial – planning scheme
Practical	Yes

Funding Enforceability Targets Practicality

Casey Study 2: Residential Development





- » Infill development
- » Dandenong Catchment
- » Recycled water No
- » IWM Planning requirement
- » HWS Priority area No
- » Biodiversity sensitive area
- » Developer Services Scheme Yes



Stormwater Management Drivers

- » PSP requirement
- » Planning Scheme Objective
- » HWS targets
- » IWM Forum Objectives









Results Summary





- » Fit for purpose water supplied to each dwelling
- » 80% reliability of supply
- » 7ML/yr harvested
- » 26% reduction in flow



Summary



- » Opportunities
 - » Funding
 - » Enforceability
 - » Achievable targets
 - » Practical Solutions
- » Commitment to deliver improved health and wellbeing benefits to community
- » Partnership approach





Contact Details

Daniel Fokkens: dfokkens@casey.vic.gov.au