



Tips for preparing an Integrated Water Strategy

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Obligations for Managers of Land or Infrastructure (OMLI).



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Environment Protection Act 2017

OBLIGATIONS OF MANAGERS OF LAND OR INFRASTRUCTURE
(URBAN STORMWATER MANAGEMENT AND
ON-SITE WASTEWATER MANAGEMENT)

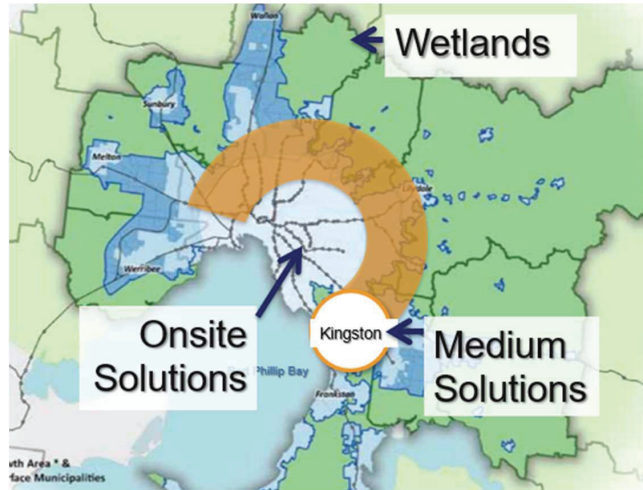
- On 7 May 2024 the EPA Act 2017 changed.
- You need to prepare/update your IWM & report every 5 years
- clearwatervic.com.au – search OMLI faqs”
<https://www.clearwatervic.com.au/user-data/resource-files/urban-stormwater-management-omli-faqs.pdf>



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Can I Copy an IWM Strategy?

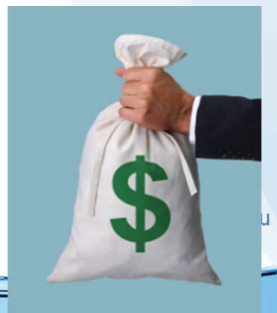
1. Are you Rural or Urban?
2. Where are you located?
Inner city, Middle ring, or Growth area?



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Can I Copy an IWM Strategy?

1. Are you Rural or Urban?
2. Where are you located?
Inner city, Middle ring, or Growth area?
3. How much data do you have?
4. How supportive are your
Teams & Community?
5. Show me the Money!



Preparing a Good Consultant's Brief

1. Be Clear & Reasonable - Fluffy Factor
2. Deciding on the Task Scope!
Data Collection, Modelling, Consultation,
Report Writing.
3. Allow \$ for Unknown Work
4. Start with your IWM catchment measures
But be Careful !!!!!!!!!!!



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IWM Forums



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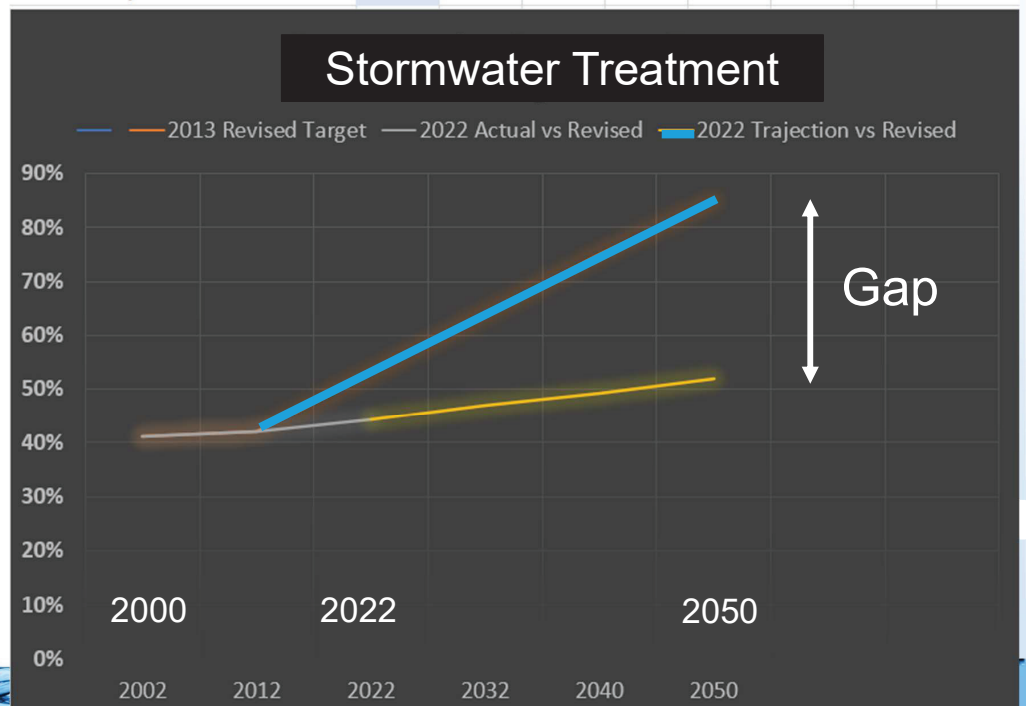
IWM Forum - Measures & Targets

Strategic outcome	Leading measure	Desired 2030 target	Desired 2050 target
1. Safe, secure and affordable water supplies in an uncertain future	1.1a. Residential water use in litres per person per day. 155 l/p/d is a well-recognised campaign supported by Melbourne Water and South East Water but currently under review. <i>Aligns with Kingston Action Ref No. K1a.</i>	State Driven 139 L/p/day	State Driven 129 L/p/day
	1.2b. GL/year of alternative water sources that substitutes potable mains water supply <i>Aligns with Kingston Actions Ref No. K1b & K1c.</i>	State Driven 1007 ML/year in Kingston 11 GL/yr in Region	State Driven 150 GL/y in 2019 estimate of 6 GL/yr in Region
2. Effective and affordable wastewater system	2.1a. ML/year of recycled water delivered to customers <i>Aligns with Kingston Action Ref No. K1b.</i>	85 GL/yr in Region	\$408 million in Region
3. Existing and future flood risks are managed to maximise outcomes for the community	3.1: Dollar (\$) reduction in Annual Average Damage (AAD) delivered by flood management initiatives <i>Aligns with Kingston Action Ref No. K3a.</i>	\$9-64 million in Region	\$408 million in Region
	3.3: Percent of projects that cross-consider IWM and flood mitigation opportunities as part of their design <i>Aligns with Kingston Action Ref No. K4c.</i>	To be confirmed	100%
4. Healthy and valued waterways and marine environments	4.1: ML/year of mean annual runoff volume reduction <i>To be developed.</i>	1547 ML/year in Kingston	2535 ML/year in Kingston



Model BAS vs Potential Projects

Treatment in Kg/yr of TN	2002	2012	2022	2032	2040	2050
2013 Revised Target	41%	42%	53%	64%	75%	85%
2022 Actual vs Revised	41%	42%	44%			
2022 Trajectory vs Revised			44%	47%	49%	52%



IWM Forum's Priority Actions

Dandenong STRATEGIC DIRECTIONS STATEMENT SEPTEMBER 2018 outlines 35 priority actions, with the City Kingston referenced as a collaborative partner in the following 9 projects:

Project	Description
Moorabbin Reserve Stormwater Harvesting	<p>Action 4: As part of the City of Kingston's Stormwater Master Planning, this reserve was identified as a potential location for a bio-retention system treating a 259 ha catchment and providing more than 4ML/yr of water for sports ground irrigation.</p> <p>This project explores funding opportunities to enable detailed design and implementation.</p>
Recycled Water to the Dingley Green Wedge	<p>Action 6: A unique opportunity exists to lay a recycled water pipeline, or 'purple pipe', along the 6.4 km length of the Mordialloc Freeway works to provide recycled water infrastructure to Kingston's Green Wedge. The area is home to market gardens, golf courses and parklands, with potential for open space in future to host the Hawthorn Football Club.</p> <p>The proposed purple pipe could be extended north into Clayton to meet the needs of the Monash National Employment Cluster and new Clayton Business Park residential development planned by the Victorian Planning Authority.</p> <p>This project investigates the cost-effectiveness of different infrastructure options and the demand for recycled water in the area.</p>



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Stormwater Treatment by Assets

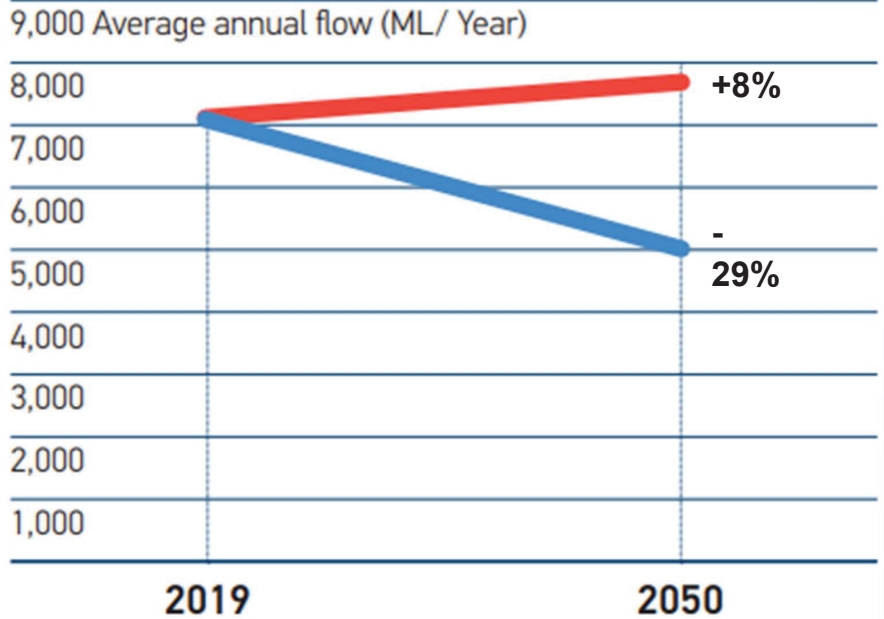
IWM Asset Type	2024	2050	
Large Wetlands	49%	54%	+5%
Streetscape Rain Gardens	2%	4%	+2%
Council's large bio-retention	7%	14%	+7%
Private rain water tanks	3%	8%	+5%
Private Golf Course Dams	7%	6%	-1%
Total	68%	80%	



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Forecast Climate Change Flowrate



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Selling the Message

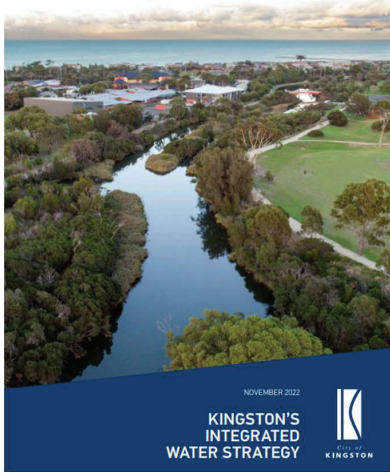
- ✓ Local Community & Business
- ✓ Local Developers
- ✓ Local Council
- ✓ Regional Approach



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Local Community

Our Local Water Ways



? What action can I take as a community member?

- ✓ Monitor water usage on your water bill and aim for below 155 litres per person per day.
- ✓ Buy water-efficient shower heads, toilets, washing machines and dishwashers.
- ✓ Choose Australian native plants that are drought tolerant and need less water.
- ✓ Ask a plumber if your rainwater tank can be connected to your toilet or laundry.



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Questions?



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