



Stormwater Fundamentals Series

- Stormwater pollution in the 'real world'

Ocean Protect webinar by Fotos Melaisis, Daniel Rider & Brad Dalrymple
28 August 2024

An aerial photograph showing a sandy beach on the left, with waves breaking onto the shore. The water is a deep blue-green color, and the waves are white and foamy. The beach is light-colored sand with some green vegetation on the far left.

**Starts at
12:30pm AEST**

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🕒 All info at www.oceanprotect.com.au/webinars

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Upcoming event

- TASMANIAN - STORMWATER SYMPOSIUM

**HOTEL GRAND CHANCELLOR HOBART
20th NOVEMBER 2024 | 8:30AM - 5PM**

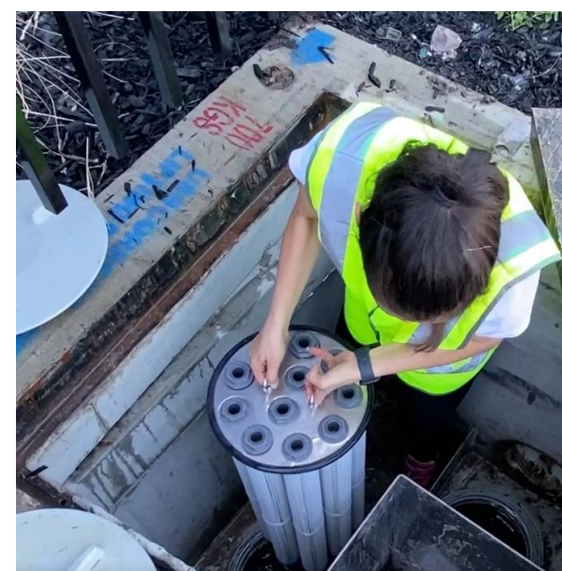


Derwent
Estuary
Program

OCEAN
PROJECT

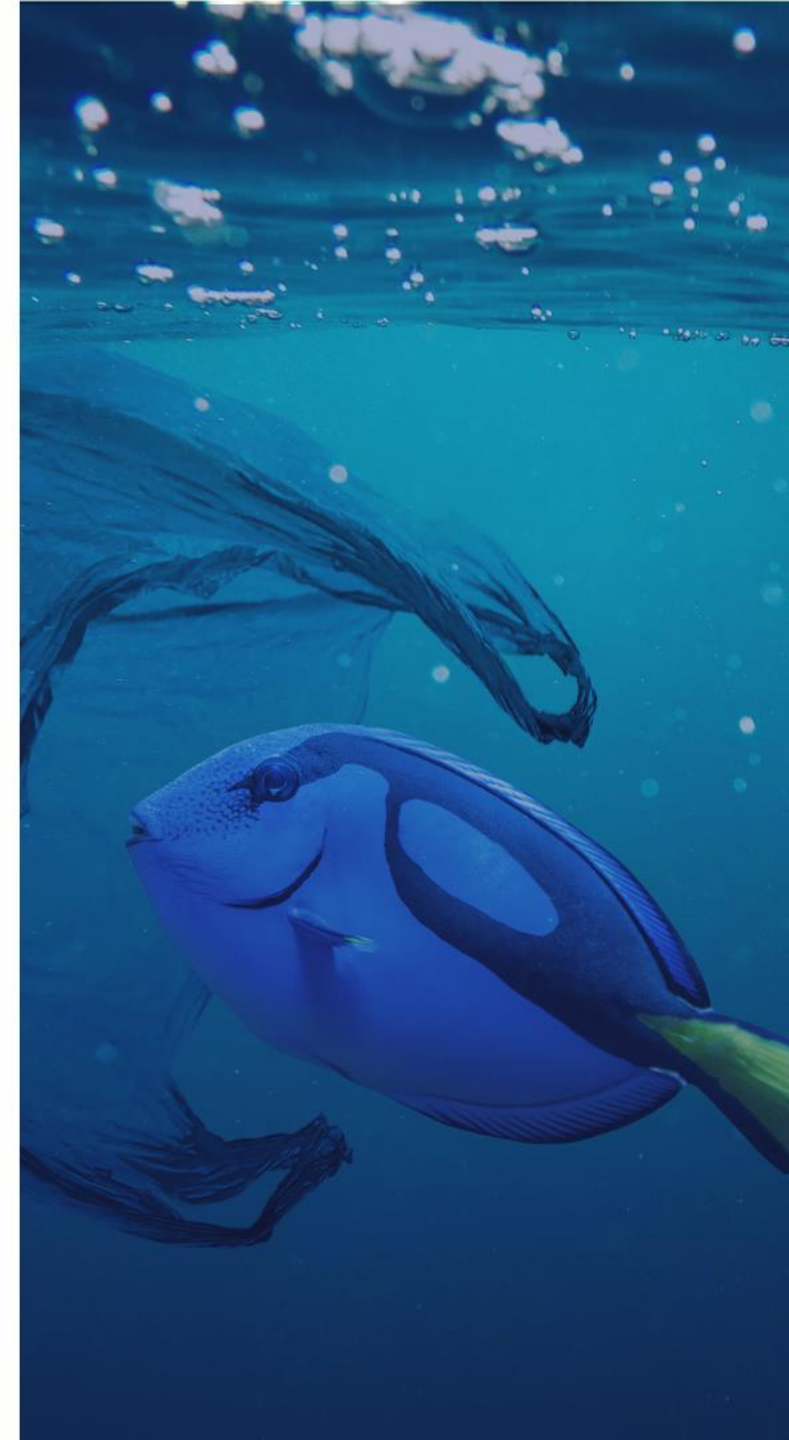


Conflict of interest declaration



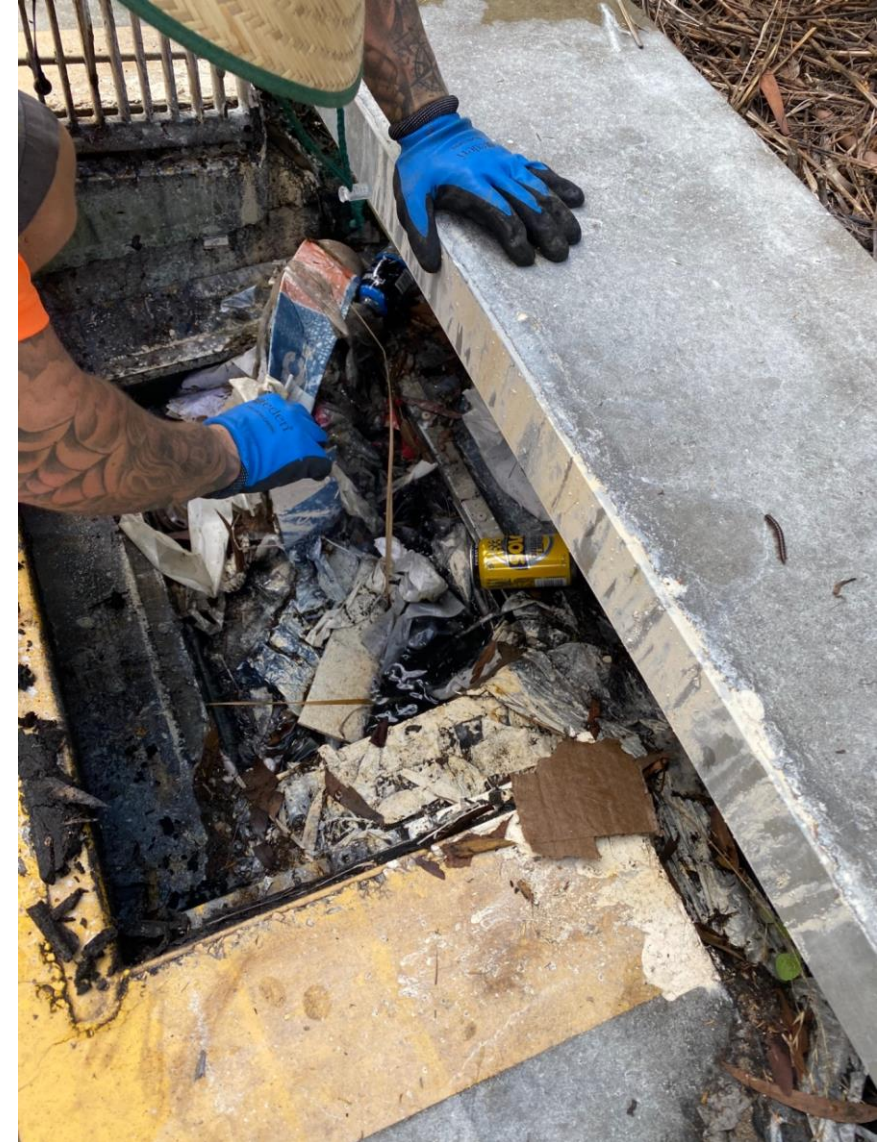
Reminders

- ④ Please put any questions in the 'Q&A' panel
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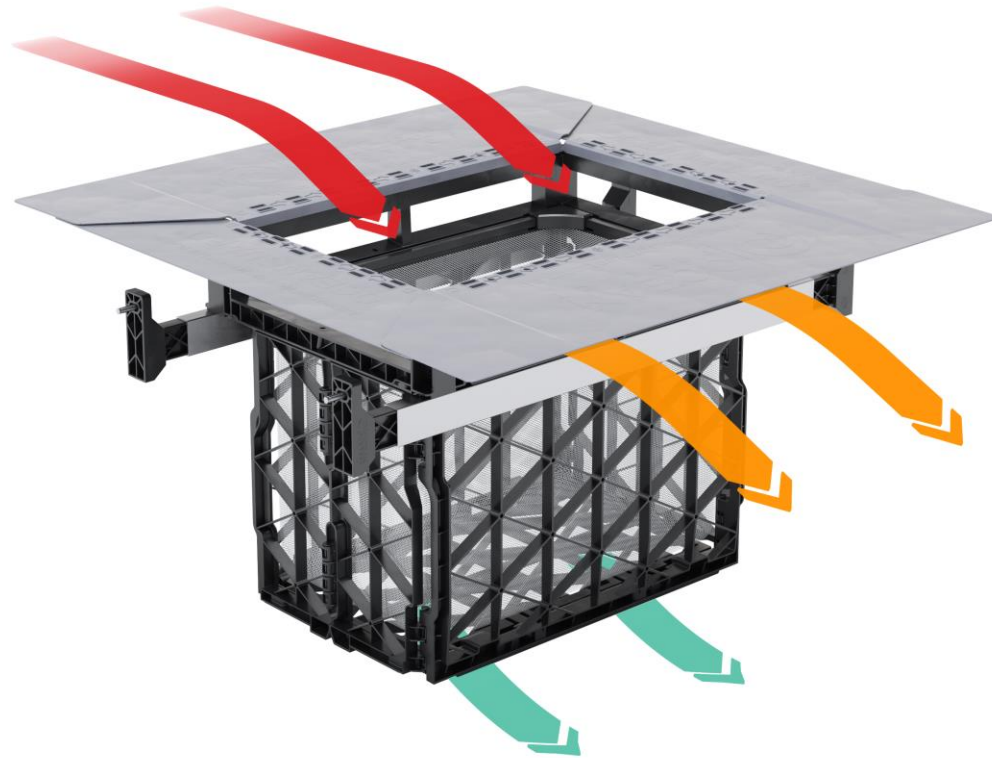


Ocean Protect

- © Ocean Protect have:
 - Installed >65,000 assets
 - Captures >9,800 kg of pollution per day
 - Captured >19.5 million kg of pollution to date



Gully Pit Inserts









CARTON PICK HEADER LABEL

Coca-Cola

Coca-Cola







What is being captured?

8 Gully pit
baskets in
Western Sydney

~2720m² urban
road catchment

5 months
(2019)

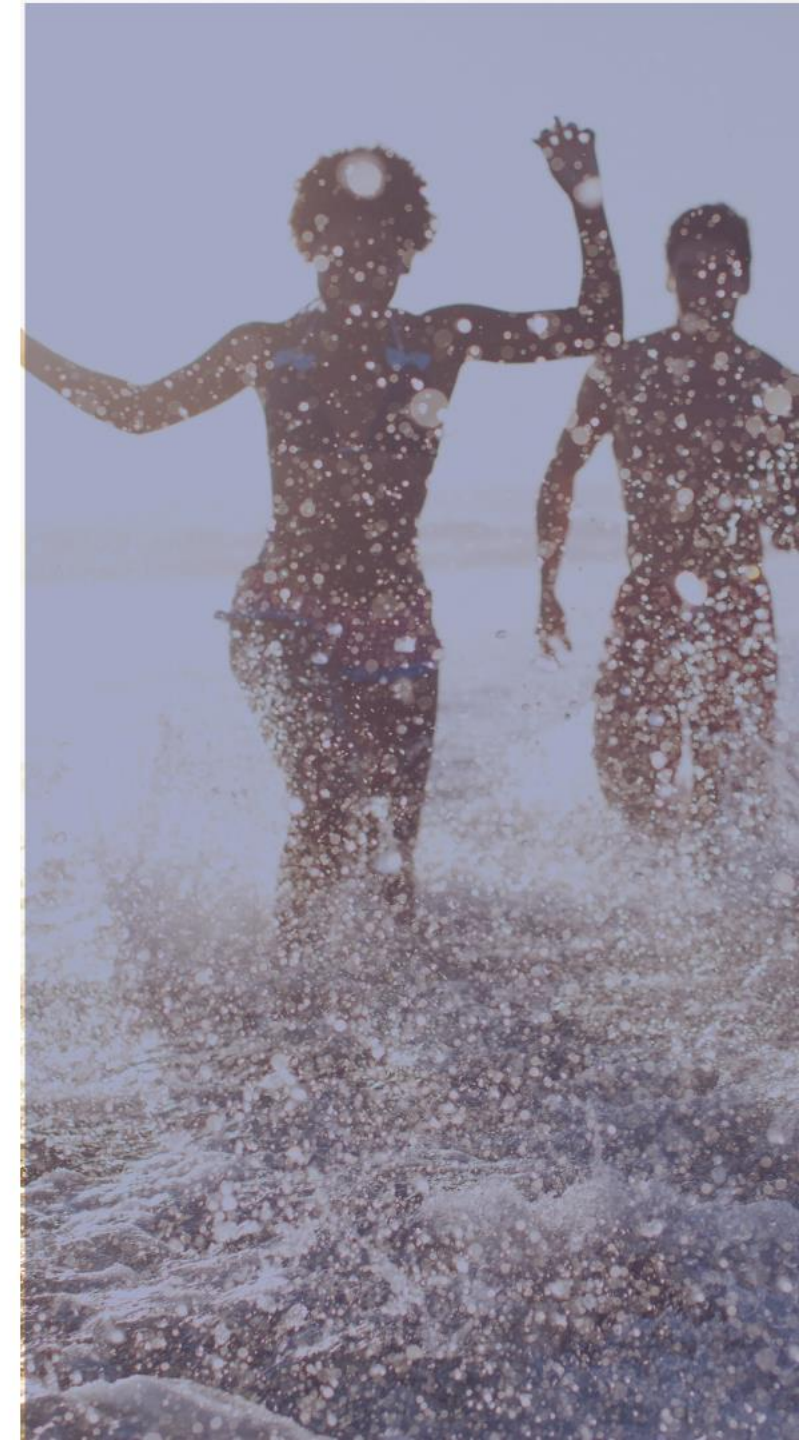
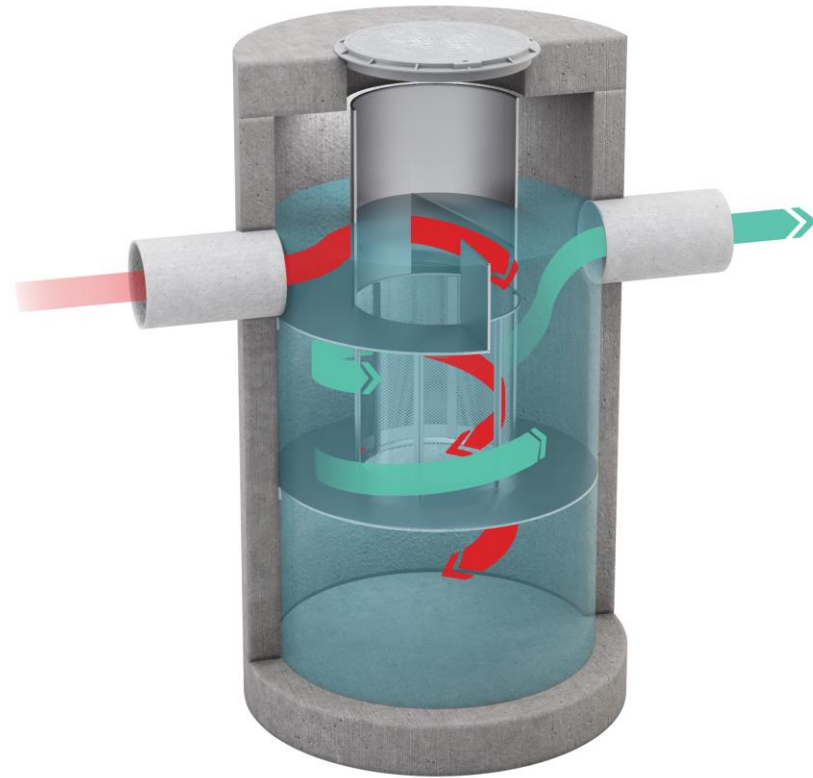
850 bits of plastic, including:

- ⦿ 228 cigarette butts
- ⦿ 88 plastic drink lids
- ⦿ 44 cans
- ⦿ 22 plastic cups
- ⦿ 21 plastic straws

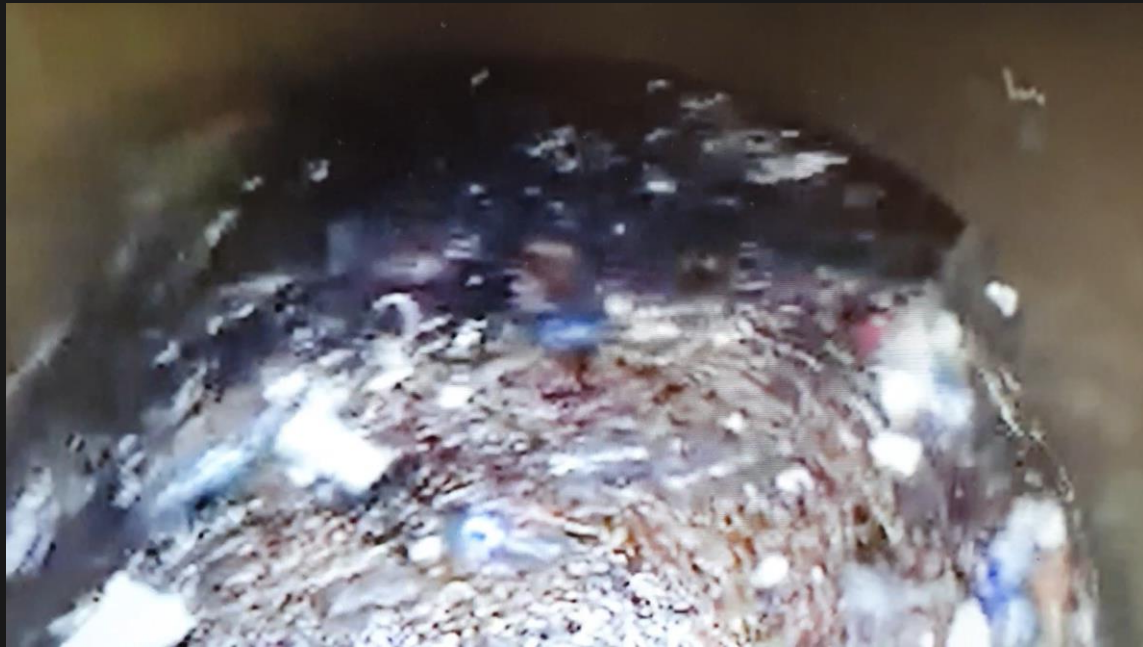
130kg of sediment



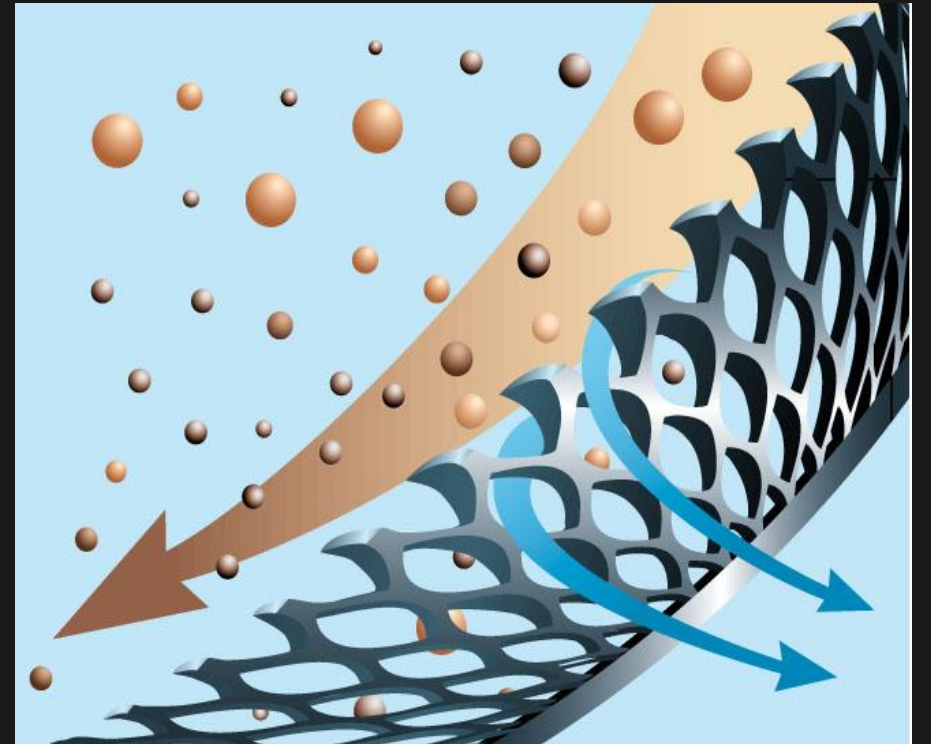
Gross Pollutant Traps (GPTs)







Source: Murray Powell



Source: CDS Technologies









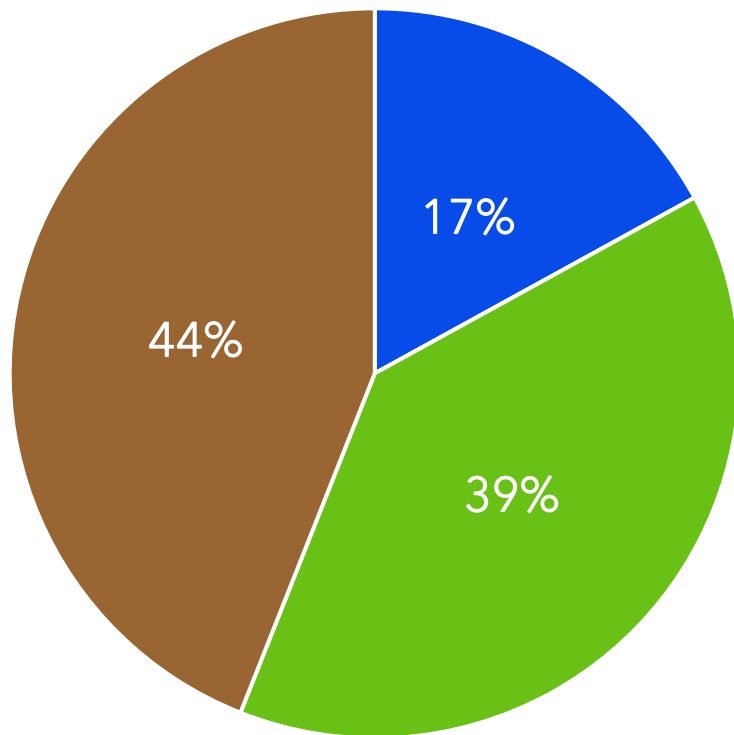
What is being captured?

158 GPTs
in a NSW LGA

1,044 GPT
cleans

35 months
(2014-2016)

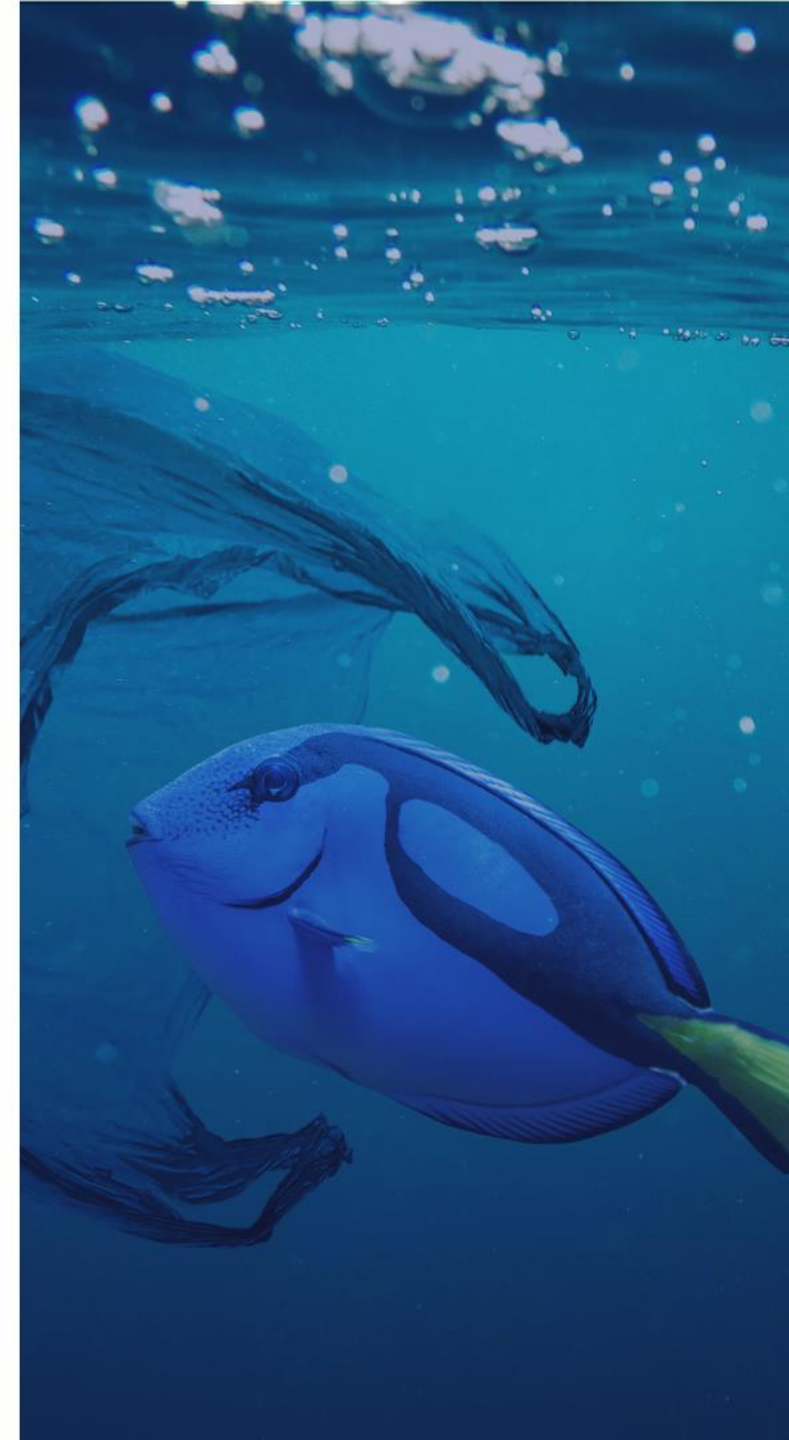
1,693m³
removed



■ Litter
■ Organics
■ Sediment
% by volume



Filter cartridges







Before



After



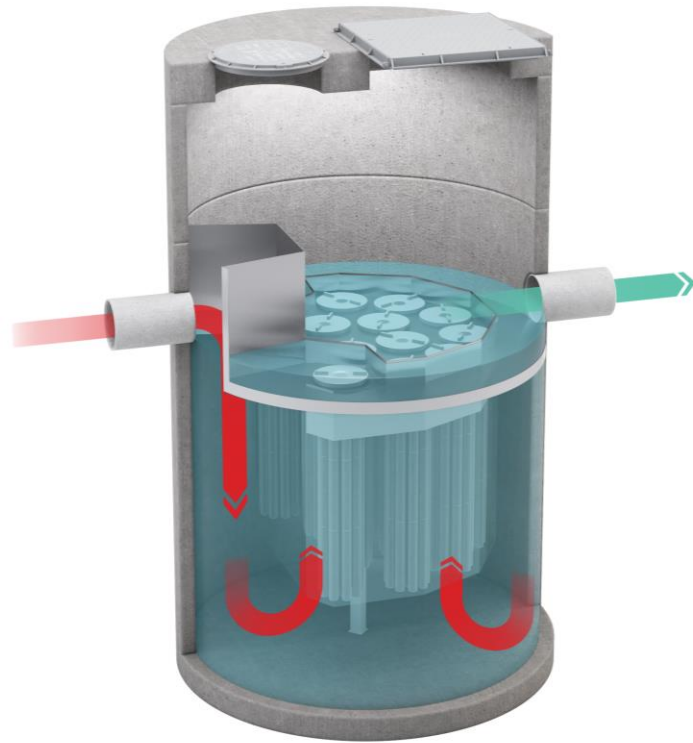








Filter membranes













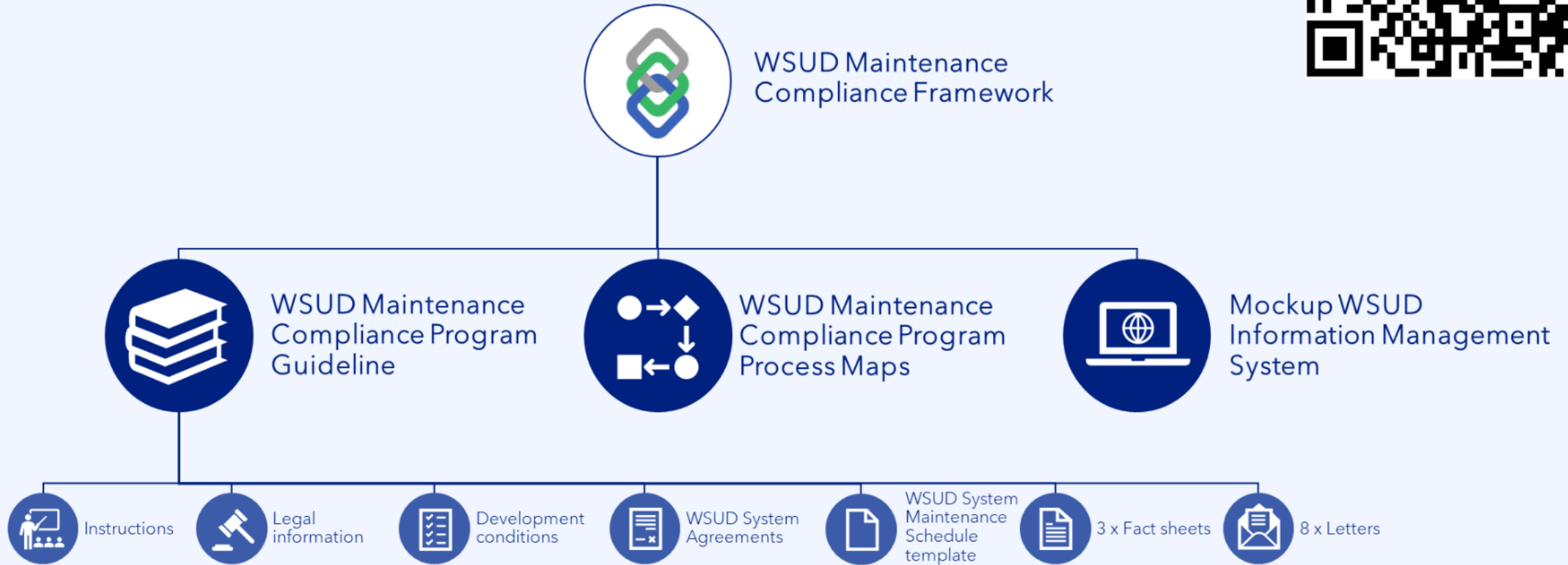


Take home messages

- ⌚ Stormwater is a valuable resource
- ⌚ Stormwater can be (and typically is) high in pollution
- ⌚ Treatment assets must be:
 - Resilient (to incoming/variable loads)
 - Maintained (e.g. pollution removed)
- ⌚ Maintenance compliance is essential



WSUD MAINTENANCE COMPLIANCE FRAMEWORK





www.oceanprotect.com.au

1300 354 722

THANK YOU

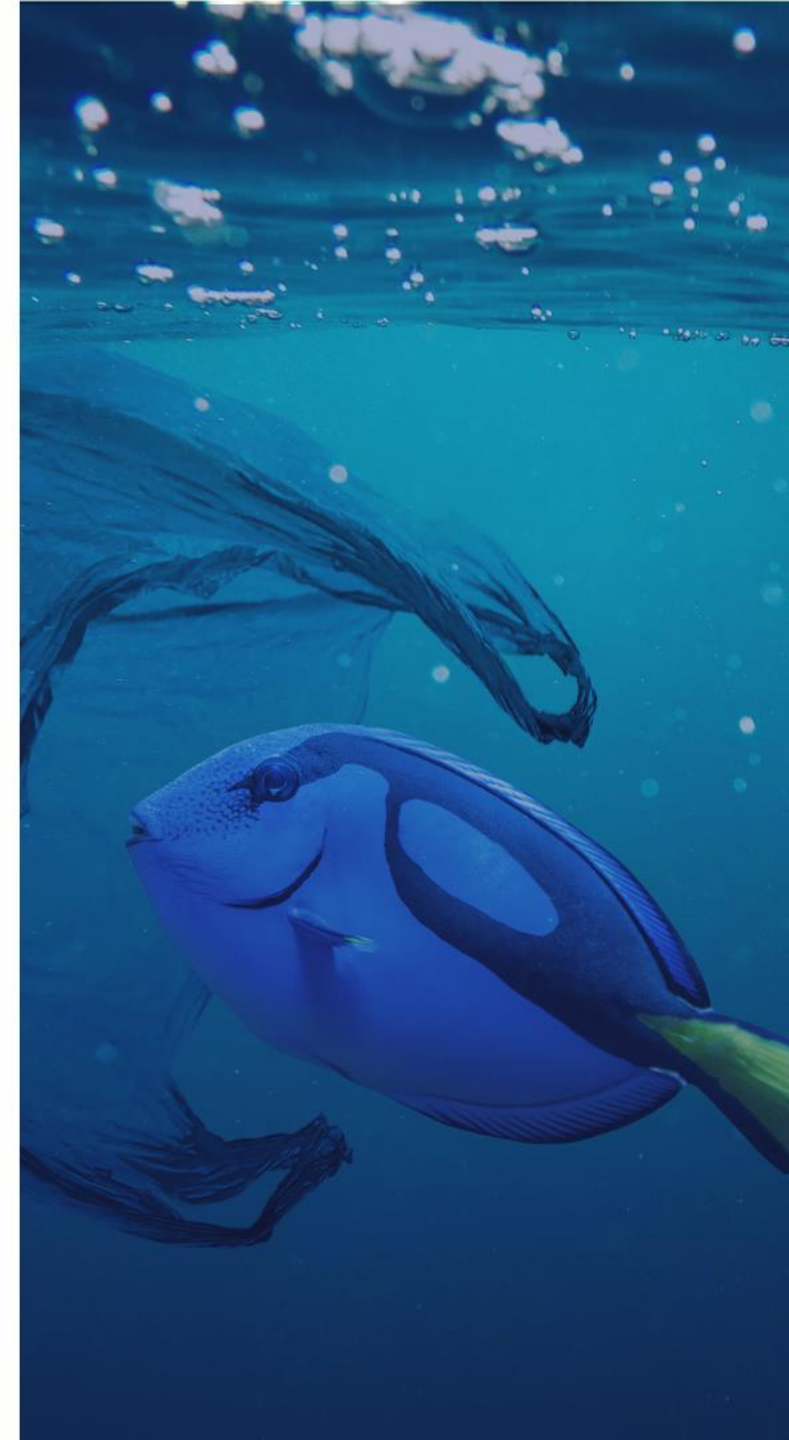
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THANK YOU

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