

# PROJECT CASE STUDY



## SUMMARY

Rocla Water Quality P.A.D prepared an alternative, cost effective, stormwater treatment strategy using the Rocla CDS® GPT and the enviss™ sentinel Stormwater Filtration System arranged as a treatment train. Darebin City Council set water quality objectives to reduce TSS by 80% and TN & TP by 45%. A proprietary modular above ground bio-retention system requiring pumps was originally specified.

## DESCRIPTION

The proposed development incorporated commercial, residential and shopping precincts yielding a broad range of potential pollutants. A treatment train approach using CDS® units and enviss™ sentinel pits allow removal of gross pollutants, fine and course sediment, phosphorous, nitrogen and heavy metals.

The CDS® units were required to do the “heavy lifting” whereby the GP, and much of the TSS and associated oil and metals, were removed to ensure the enviss™ sentinel pit was not encumbered with a high maintenance burden.

The proprietary software envissDT™ was used to establish the enviss™ filter area, and overall treatment train outcomes confirmed using MUSIC.

Maintenance frequencies were increased slightly due to the decision to provide pre-detention for the enviss™ sentinel pits reducing costs overall and improving “whole of life” outcomes.

## PROJECT DETAILS



<b>Location</b>	Plenty Rd, Bundoora VIC.
<b>Client</b>	Gallagher Jeffs (Project Manager)
<b>Consultant</b>	Brian Bird & Associates
<b>Approving Authority</b>	Darebin City Council

## ROCLA PRODUCTS

### Zone 1

- CDS® P1012 GPT with primary & secondary weirs and volute outlet pipe.
- 16 enviss™ sentinel pits with 26m<sup>3</sup> of pre-detention RCBC.

### Zone 2

- 2 x CDS® P0708 GPT's with primary & secondary weirs and volute outlet pipes.
- 11 enviss™ sentinel pits with 16m<sup>3</sup> of above ground landscaped pre-detention.

