

## PROJECT OVERVIEW

# RAINWATER HARVESTING TANK

Under sports oval



**INSTALLER:** ALL WASTE SOLUTIONS  
**PROJECT:** THE SCOTCH COLLEGE STAGE 2  
**SYSTEM:** 3.0 MEGA LITRE RAINWATER HARVESTING TANK  
**LOCATION:** HAWTHORN, MELBOURNE AUSTRALIA

In October 2009 a 3.0 million litre Ausdrain EnviroModule2 rainwater harvesting tank was installed under the football oval at The Scotch College in Melbourne. This was the second Ausdrain tank to be installed at the school that now has up to 5.4 million litres of underground rainwater storage.

The tank measures 26m x 90m x 1.35m and collects runoff from approximately 3 hectares including both overland and roof areas. Stormwater is collected via 450mm and 300mm diameter pipes that divert water to the tank. A P2009 CDS Litter trap treats the water at 100 litres per second prior to entering the tank. If the tank surcharges, there are 4 150mm diameter overflow pipes that discharge to a pump well which then pumps 90 litres per second to a creek outfall.

The tank was excavated to a depth of 2.25m and approximately 10 000 m<sup>3</sup> of loose dirt was excavated with 75% of this disposed off site. The sides and ends of the tank were backfilled with 300mm of cement stabilized 6% sand slurry forming a protective barrier between the tank and existing clay wall. The backfill to the top of the tank consisted of 300mm of crushed rock, followed by 400mm of clay and 150mm of topsoil.

A 25 litre/ second suction pump with an 80mm outlet transfers water to an underground sprinkler system. The water is used to irrigate 2 sports ovals each requiring 80 000 Litres per watering. The tank was installed in 12 weeks minimizing the disruption to the schools sporting activities.