

Our Reference: WS180387

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Attention: Kenny Lim

ENGINEERS

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DEVELOPMENT
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Dear Sir

**Re: Rainwater Harvesting and Reuse for Proposed Santa Sophia
Catholic College, Box Hill**

Rainwater harvesting and reuse for the proposed Santa Sophia Catholic College was not included in the design for the following reasons:

- a) The proposed school is part of the development known as "The Gables" and the subdivision catchment of Box Hill North which includes the construction of two detention basins, bio-retention systems and a permanent reservoir for environmental purposes and community benefit. It is therefore important to discharge all rainwater from site to stormwater infrastructure, to maintain environmental rainwater flows to the downstream reservoir.
- b) A recycled water supply is being provided to the site by Flow Systems, for non-potable purposes such as toilet flushing, landscape irrigation and general area wash down. Recycled water is produced by treating sewage waste from "The Gables" community to Grade A water quality level.
- c) Flow Systems' "Notice of Requirements" nominates that if rainwater reuse is to be implemented, that it must be separated from the recycled water supply system, thus requiring additional tanks, pumps, filters, piping and complex valving and controls.
- d) The current design also includes the following water-saving initiatives:
 - Low impact (below surface level) irrigation reticulation;
 - Metering of water supplies including hot water metering; and
 - Recycling of fire services test water.

Yours faithfully,
ACOR Consultants Pty Ltd



Robert Gruber
Principal