



Suite 8, Level 2, 56 Church Avenue, Mascot NSW 2020
P.O. Box 6437 Alexandria NSW 2015
ABN: 24 917 388 129
ACN: 150 234 870
T: 02 9669 4311
F: 02 9669 4322

INSYNC SERVICES

P T Y L T D

20120009 SOPA Response

26/06/2013

Capital Corporation Pty Ltd
P.O. Box 6285
BAULKHAM HILLS, NSW 2153

Att: Ms Maria Passafaro

**Re: Axis Development
State Significant Development Application Site 43/44
Australia Avenue, Sydney Olympic Park**

Further to receipt of the Sydney Olympic park Authority letter dated the 7th of June 2013, find below the following responses:

Water Quality (SOPA Comments)

It is indicated that the MUSIC modelling shows reduction in flow and improved water quality above targets based on these methods. However there is little detail about the assumptions and input values used to generate these estimated reductions. The proponent should provide the further information.

Response:

The performance achieved for the two main water treatment devices is as follows;

- Litter / Sediment Control Pit – TSS 40% removal, TN 12 % removal, TP 15% removal Gross Pollutants 90% removal (source - Sydney Catchment Authority)
- Sand Filter – TSS 91% removal, TN 45% removal, TP 82% removal, Gross Pollutants 98% removal (source – Product Manufacturer - ECOSOL)

On-Site Stormwater Detention (SOPA Comments)

The report indicates that in accordance with SOPA's draft stormwater management and water sensitive urban design policy, this site does not require on site detention. As this site is outside the WRAMS catchment area for stormwater harvesting the proponent should, consistent with SOPA's draft policy. "Provide an on-site or other decentralised approach to stormwater quality and quality management, including local collection, treatment and utilisation of stormwater as part of the integrated system"

Response

Quoting from the policy "Provide an on-site or other decentralised approach to stormwater quality and quantity management, including local collection, treatment and utilisation of stormwater as part of an integrated system"

- **Local Collection** – Stage 1 includes a 70,843L rainwater storage tank, Stage 2 includes a 42,100L rainwater storage tank.
- **Treatment** – Both Stage 1 and Stage 2 adopt a three stage stormwater treatment process, including rainwater tank collection and primary gross pollutant screening, a sand filter to remove pollutants from the rainwater tank overflows, and basement Gross Pollutant Traps to remove oil & grease from car park run-off. The MUSIC modelling indicates that all SOPA guidelines in terms of Water Quality are met with these measures.
- **Utilisation** – Recycled water from the rainwater harvesting systems is used throughout both developments for toilet flushing, cooling towers and landscape irrigation. During times when the rainwater tanks are empty, a top up is provided from connection into the SOPA recycled water main system.

Consistent with SOPA's policy basement car parks over ten spaces must include oil & grease trap capable of meeting a discharge concentration <10mg/L of total hydrocarbons.

The pollution control devices (gross pollutant traps) have been indicated on our drawings for both Stage 1 and Stage 2 as attached below. All carpark area drainage has been configured to be treated by these pollution control devices prior to discharge from the site. At this time the actual models of equipment have not been selected due to the contract being on a D&C basis. The requirement for the equipment has however been included, and the SOPA performance standards will be met.



