

Memo

DATE 26/04/2022
General Manager
Norther Beaches Council
PO BOX 82 Manly
TO NSW 1655 Australia
ATTN Lashta Haidari
PROJECT S210157 Glenaeon Retirement Living - SPS Upgrade Project

The following letter has been prepared in response to a Council referral relating to the Development Application modification for Glenaeon Retirement Village at 207 Forest Way, Belrose

Currently installed pump set is ~30years old, and generates excessive noise.

Newly designed pumps will generate significantly less noise due to different pumpstation configuration and newer pump. The pump substitution will be “like for like” as pumps will be same type and brand. This allows to retain any existing agreement that exists with Sydney Water.

The Emergency Storage volume requirement was increased from 4 hours to 8 hours to allow Village management additional time to perform a repair works or maintenance. Total Emergency Storage volume comprises 48 480litres.

The new Diesel Generator set will provide more than 8 hours of autonomy to address any kind of power interruptions.

The total expected wastewater volume for the proposed development based on following inputs:

- Glenaeon RV buildings, will have 252 ILA units and 51 SA unit. 303 units in total.
- Allowance of 2 Equivalent Persons (EP) per dwelling was made. 606EP was allowed for in further calculations.
- The ILA and SA waste will discharge at rate of 150litres/person/day.

- At a rate 150l/p/d, 606 EPs will generate 90,900litres of effluent.
- Due to operating hours limitations, 90,900litres of effluent will be pumped out within 15 hours, which brings the flow rate to 6,060litres/hour.

Yours faithfully
SCP Consulting Pty Ltd

Vadym Pavlenko
Senior Hydraulic Designer