

<b>Name of wastewater treatment plant</b>	Upper South Creek Advanced Water Recycling Centre
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System Summary	Projected			
	2021	2026	2036	2046
Upper South Creek AWRC ADWF (ML/d)	N/A	17.0	46.0	71.0
Upper South Creek AWRC load (EP <sub>CO<sub>2</sub></sub> )	N/A	112,000	306,000	473,000

Treatment capacity constraints for 2022 – 2036	Estimated year of exceedance
No existing dedicated wastewater treatment facility. Existing interim servicing schemes will be exceeded by 2026.	2026

Summary of servicing strategy for 2022 – 2036
Existing growth wastewater catchments are being serviced by interim servicing at Liverpool and West Camden WRP's. It is forecast that interim servicing at these plants will need to cease in 2026 to ensure servicing capacity is available for their dedicated catchments. A new treatment facility to be online now to receive the interim serviced flows and provide ongoing dedicated treatment to those catchment and other adjacent growth catchments. Treated effluent is proposed to be transferred to the Nepean River for disposal. To manage environmental impact, advanced treated is proposed to facilitate very low nutrient contribution to the river. Brine from reverse osmosis process will be discharged to the Malabar System at Liverpool, for ocean discharge via Malabar WWTP.

Anticipated augmentation and upgrades for 2020 – 2030			
Year commissioned	Description	Approximate capital cost (\$M)	Impact on servicing capacity
2024	Advanced wastewater treatment facility; effluent transfer scheme to Nepean River; brine disposal transfer to Liverpool.	81.5	Servicing for interim serviced population at existing facilities
2032	Advanced wastewater treatment facility; effluent transfer scheme to Nepean River; brine disposal transfer to Liverpool.	918	future population beyond 2030.

Further investigations
Currently in Concept Design phase.