

<b>Name of wastewater treatment plant</b>	Brooklyn Wastewater Treatment Plant
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System Summary	Projected				
	2026	2031	2036	2046	2056
Brooklyn and CCC ADWF (ML/d)	0.35	0.49	0.49	0.49	0.50
Brooklyn and CCC catchment load (EP <sub>COD</sub> )	2,400	3,312	3,328	3,360	3,391

Treatment capacity constraints for 2022 – 2036	Estimated year of exceedance
No capacity constraints identified for period up to 2030.	N/A

Summary of servicing strategy for 2022 – 2036
<p>Brooklyn WWTP to continue to service Brooklyn and Dangar Island catchments, as well as provide wastewater servicing to adjacent Central Coast Council (CCC) wastewater catchments.</p> <p>Revised growth forecasts performed for the process capability assessment found a lower growth forecast than the previous forecasts.</p> <p>Recent rezoning of land on the northern side of the Hawkesbury River in CCC catchment (previously apart of Gosford City Council) may increase forecasted population and add a significant production of commercial waste to Brooklyn WWTP.</p> <p>No changes to the existing transfer of sludge from Brooklyn to Hornsby Heights for further treatment and disposal.</p> <p>Increased chemical dosing is proposed to address shortfalls in phosphorous removal.</p>

Anticipated augmentation and upgrades for 2022 – 2036			
Year commissioned	Description	Approximate capital cost (\$M)	Impact on servicing capacity
N/A		None identified.	

Further investigations
<p>Ongoing planning investigations associated with the rezoned land on the northern side of the Hawkesbury River in the CCC service area - may trigger amplification of Brooklyn WWTP (due to the increase to commercial and residential waste). Based on current understanding of development application, this rapid growth will exceed expected capacity much sooner than assessed as the high peak loads during weekends and holiday periods could exceed the assessed load thus prematurely exceeding the capacity too. This might require earlier than forecast investment.</p>