

Analysis of Water Sample

Client Glen Innes Severn Council,
 Glen Innes Sewage Treatment Works Report 17th March 2025
 Water Sample collected 11th March 2025 Analysis complete 17th March 2025
 Sample collected by Emily Leach Samples received chilled 11th March 2025

RESULTS - GLEN INNES - 11th March 2025

mg L⁻¹ = part per million)

Parameter			EPA Limit 90 th %ile	Units	Method
Ammonia NH ₃ -N	0.36		2.0	mg L ⁻¹	APHA 4500-NH ₃ C
Biochemical Oxygen Demand (5 days)	5.2		10	mg L ⁻¹	APHA 5210 B
Elect. conductivity (EC)	417			uS cm ⁻¹	APHA 2510 B
Faecal Coliforms	15		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO ₂ and NO ₃ -N	1.84			mg L ⁻¹	APHA 4110 B
Oil & Grease	<2		2	mg L ⁻¹	USEPA 1664
pH	7.28		6.8-8.5	pH units	APHA 4500-H ⁺ B
Soluble Reactive P (SRP)	0.13			mg L ⁻¹	APHA 4110 B
Total phosphorus	0.14		0.3	mg L ⁻¹	APHA 4500 P E
TKN - N	1.4			mg L ⁻¹	APHA 4500-N _{org} C
TN	2.9		10	mg L ⁻¹	TKN + NO ₂ +NO ₃
Total suspended solids TSS	10		15	mg L ⁻¹	APHA 2540 D

0<.0.x = measured but reading below detection level

Reference: APHA (2005) *Standard Methods for the Examination of Water and Wastewater*. 21st Edition 2005.

Comments. Please note the Lower detection limit under USEPA 1664 is 2 mg/L for Oil & Grease

Glen Innes STP - elemental analysis										
MARCH 2025	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
Glen	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
Innes-11MAR25	48.8	8.0	14.5	21.4	2.0	113	34.6	279	65	31

Note: Many of these values are atypical of the usual results. Indicates dilution from some clean source., could it be a lot of rainfall on the treatment ponds?

