

Analysis of Water Sample

Client Glen Innes Severn Council,

Glen Innes Sewage Treatment Works *Report* 28th November 2022

Water Sample collected 22nd November 2022 *Analysis complete* 28th November 2022

Sample collected by Pramod Lamsal *Samples received chilled* 15th November 2022

RESULTS - Glen Innes 22nd November 2022

mg L⁻¹ = part per million)

Parameter			Licence Limit (90th%ile)	Units	Method
Ammonia NH ₃ -N	1.62		2	mg L ⁻¹	APHA 4500-NH ₃ C
Biochemical Oxygen Demand (5 days)	7.6		10	mg L ⁻¹	APHA 5210 B
Elect. conductivity (EC)	642			uS cm ⁻¹	APHA 2510 B
Faecal Coliforms	<1		200	cfu/100 mL	Membrane Filter APHA 9222 D
NO ₂ and NO ₃ -N	0.68			mg L ⁻¹	APHA 4110 B
Oil & Grease	<2		2	mg L ⁻¹	USEPA 1664
pH	7.20		6.5-8.5	pH units	APHA 4500-H ⁺ B
Soluble Reactive P (SRP)	<0.005			mg L ⁻¹	APHA 4110 B
Total phosphorus	0.63	Elevated	0.3	mg L ⁻¹	APHA 4500 P E
TKN - N	4.8			mg L ⁻¹	APHA 4500-N _{org} C
TN	5.5		10	mg L ⁻¹	TKN + NO ₂ +NO ₃
Total suspended solids TSS	33	elevated	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 Weir - elemental analysis										
NOVEMBER 2022	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
Glen Innes - 22NOV22	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
	64.2	12.7	24.8	32.8	2.1	184	20.0	430	146	108