

Phone Office/Lab (02) 6775 1157  
 ABN: 72 212 385 096  
 email: [lanfaxlabs@bigpond.com.au](mailto:lanfaxlabs@bigpond.com.au)  
 Website: [http:// www.lanfaxlabs.net](http://www.lanfaxlabs.net)  
 Lab address: 493 Old Inverell Road  
 Postal: PO Box 4690 Armidale NSW 2350  
 Director: Dr Robert Patterson CPSS,  
 Soil Scientists and Environmental Engineers



Quality Assurance and Quality Control by Approved Methods

## Analysis of Water Sample

Client Glen Innes Severn Council,

Glen Innes Sewage Treatment Works

Report 14<sup>th</sup> April 2025

Water Sample collected 8<sup>th</sup> April 2025 Analysis complete 14<sup>th</sup> April 2025

Sample collected by Emily Leach

Samples received chilled 25<sup>th</sup> March 2025

## RESULTS - GLEN INNES - 8<sup>th</sup> April 2025

mg L<sup>-1</sup> = part per million)

Parameter			EPA Limit 90 <sup>th</sup> %ile	Units	Method
Ammonia NH <sub>3</sub> -N	0.52		2.0	mg L <sup>-1</sup>	APHA 4500-NH <sub>3</sub> C
Biochemical Oxygen Demand (5 days)	5.0		10	mg L <sup>-1</sup>	APHA 5210 B
Elect. conductivity (EC)	468			uS cm <sup>-1</sup>	APHA 2510 B
Faecal Coliforms	88		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO <sub>2</sub> and NO <sub>3</sub> -N	8.79	Elevated		mg L <sup>-1</sup>	APHA 4110 B
Oil & Grease	<2		2	mg L <sup>-1</sup>	USEPA 1664
pH	7.28		6.8-8.5	pH units	APHA 4500-H <sup>+</sup> B
Soluble Reactive P (SRP)	0.02			mg L <sup>-1</sup>	APHA 4110 B
Total phosphorus	0.20		0.3	mg L <sup>-1</sup>	APHA 4500 P E
TKN - N	0.7			mg L <sup>-1</sup>	APHA 4500-N <sub>org</sub> C
TN	9.5	Elevated	10	mg L <sup>-1</sup>	TKN + NO <sub>2</sub> +NO <sub>3</sub>
Total suspended solids TSS	10		15	mg L <sup>-1</sup>	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										
APRIL 2025	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
Glen Innes-08APR2	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
	51.2	8.1	20.0	25.3	1.8	146	30.7	314	80	33



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