**Phone** Office/Lab (02) 6775 1157 ABN: 72 212 385 096

email: <u>lanfaxlabs@bigpond.com.au</u> Website: <u>http:// www.lanfaxlabs.net</u> 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 23<sup>rd</sup> March 2025 Water Sample collected 18<sup>th</sup> March 2025 Analysis complete 23<sup>rd</sup> March 2025 Sample collected by Emily Leach Samples received chilled 18<sup>th</sup> March 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	0.49		2.0	mg L <sup>-1</sup>	АРНА 4500-NH <sub>3</sub> С						
Biochemical Oxygen Demand (5 days)	3.4		10	mg L <sup>-1</sup>	APHA 5210 B						
Elect. conductivity (EC)	688			uS cm <sup>-1</sup>	APHA 2510 B						
Faecal Coliforms	1000	elevated	200	cfu/ 100 mL	Membrane Filter APHA 9222 D						
NO <sub>2</sub> and NO <sub>3</sub> -N	4.18			mg L <sup>-1</sup>	APHA 4110 B						
Oil & Grease	<2		2	mg L <sup>-1</sup>	USEPA 1664						
рН	7.39		6.8-8.5	pH units	APHA 4500-H <sup>+</sup> B						
Soluble Reactive P (SRP)	0.01			mg L <sup>-1</sup>	APHA 4110 B						
Total phosphorus	0.15		0.3	mg L <sup>-1</sup>	APHA 4500 P E						
TKN - N	0.2			mg L <sup>-1</sup>	APHA 4500-N <sub>org</sub> C						
TN	4.4		10	mg L <sup>-1</sup>	$TKN + NO_2 + NO_3$						
Total suspended solids TSS	8		15	mg L <sup>-1</sup>	APHA 2540 D						

## **RESULTS - GLEN INNES - 18th** March 2025

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

**Reference**: APHA (2005) *Standard Meth230ods 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 Innes	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
	-18MAR25	73.3	15.0	24.1	32.4	2.4	180	57.4	461	80	59



Commercial and research laboratory for soil, water and plant analysis. Soil survey and analytical assessments, landscape analysis and plant nutrient relationships, Wastewater and effluent reuse specialists - on-site and decentralised