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Quality Assurance and Quality Control by Approved Methods

## Analysis of Water Sample

Client Glen Innes Severn Council,

Glen Innes Sewage Treatment Works

Report 7<sup>th</sup> January 2024

Water Sample collected 2<sup>nd</sup> January 2024 Analysis complete 7<sup>th</sup> January 2024

Sample collected by Emily Leach

Samples received chilled 2<sup>nd</sup> January 2024

## RESULTS - GLEN INNES - 2<sup>nd</sup> January 2024

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

Parameter			EPA Limit 90 <sup>th</sup> %ile	Units	Method
Ammonia NH <sub>3</sub> -N	1.57		2.0	mg L <sup>-1</sup>	APHA 4500-NH <sub>3</sub> C
Biochemical Oxygen Demand (5 days)	3.2		10	mg L <sup>-1</sup>	APHA 5210 B
Elect. conductivity (EC)	812			uS cm <sup>-1</sup>	APHA 2510 B
Faecal Coliforms	2		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO <sub>2</sub> and NO <sub>3</sub> -N	3.56			mg L <sup>-1</sup>	APHA 4110 B
Oil & Grease	<2		2	mg L <sup>-1</sup>	USEPA 1664
pH	7.36		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	0.29		0.3	mg L <sup>-1</sup>	APHA 4500 P E
TKN - N	3.1			mg L <sup>-1</sup>	APHA 4500-N <sub>org</sub> C
TN	6.7		10	mg L <sup>-1</sup>	TKN + NO <sub>2</sub> +NO <sub>3</sub>
Total suspended solids TSS	8		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 Weir - elemental analysis

JANUARY 2024	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
Glen Innes -02JAN24	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
	80.9	18.3	29.1	29.8	2.5	194	29.8	544	103	154



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