

## Analysis of Water Sample

Client Glen Innes Severn Council,

Glen Innes Sewage Treatment Works

Report 4<sup>th</sup> December 2023

Water Sample collected 28<sup>th</sup> November 2023 Analysis complete 4<sup>th</sup> December 2023

Sample collected by Emily Leach

Samples received chilled 28<sup>th</sup> November 2023

## RESULTS - GLEN INNES - 28<sup>th</sup> November 2023

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

Parameter			EPA Limit 90 <sup>th</sup> %ile	Units	Method
Ammonia NH <sub>3</sub> -N	1.62		2.0	mg L <sup>-1</sup>	APHA 4500-NH <sub>3</sub> C
Biochemical Oxygen Demand (5 days)	7.0		10	mg L <sup>-1</sup>	APHA 5210 B
Elect. conductivity (EC)	723			uS cm <sup>-1</sup>	APHA 2510 B
Faecal Coliforms	5		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO <sub>2</sub> and NO <sub>3</sub> -N	2.27			mg L <sup>-1</sup>	APHA 4110 B
Oil & Grease	<2		2	mg L <sup>-1</sup>	USEPA 1664
pH	7.44		6.8-8.5	pH units	APHA 4500-H <sup>+</sup> B
Soluble Reactive P (SRP)	0.13			mg L <sup>-1</sup>	APHA 4110 B
Total phosphorus	0.42	Elevated	0.3	mg L <sup>-1</sup>	APHA 4500 P E
TKN - N	4.0			mg L <sup>-1</sup>	APHA 4500-N <sub>org</sub> C
TN	6.3		10	mg L <sup>-1</sup>	TKN + NO <sub>2</sub> +NO <sub>3</sub>
Total suspended solids TSS	15		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										
	Na	K	Mg	Ca	SAR	Hardnes	Sulphur	TDS	Alkalinity	Chloride
Glen Innes- 28NOV23	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
	71.4	15.4	27.8	29.4	2.3	188	27.4	484	140	105

