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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 23rd September 2024*
Water Sample collected 17th September 2024 Analysis complete 23rd September 2024
Sample collected by Emily Leach Samples received chilled 17th September 2024

RESULTS - GLEN INNES - 17th September 2024

mg L^{-1} = part per million)

Parameter			EPA Limit 90th %ile	*Units*	*Method*
Ammonia NH_3-N	1.05		2.0	mg L^{-1}	APHA 4500-NH_3 C
Biochemical Oxygen Demand (5 days)	4.9		10	mg L^{-1}	APHA 5210 B
Elect. conductivity (EC)	696			uS cm^{-1}	APHA 2510 B
Faecal Coliforms	2		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO_2 and NO_3 -N	2.65			mg L^{-1}	APHA 4110 B
Oil & Grease	<2		2	mg L^{-1}	USEPA 1664
pH	7.20		6.8-8.5	pH units	APHA 4500-H^+ B
Soluble Reactive P (SRP)	0.06			mg L^{-1}	APHA 4110 B
Total phosphorus	0.09		0.3	mg L^{-1}	APHA 4500 P E
TKN - N	2.5			mg L^{-1}	APHA 4500-N_{org} C
TN	4.9		10	mg L^{-1}	TKN + NO_2+NO_3
Total suspended solids TSS	8		15	mg L^{-1}	APHA 2540 D

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										
SEPTEMBER 2024	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
Glen	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L
Innes-17SEP24	67.6	15.7	25.4	30.7	2.2	181	58.7	466	86	56