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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 20th August 2023

Water Sample collected 15th August 2023 Analysis complete 20th August 2023 Sample collected by Emily Leach Samples received chilled 15th August 2023

RESULTS - GLEN INNES - 15th August 2023

Parameter			EPA Limit 90 th %ile	Units	Method
Ammonia NH ₃ -N	4.7	Elevated	2.0	mg L ⁻¹	APHA 4500-NH ₃ C
Biochemical Oxygen Demand (5 days)	5.9		10	mg L ⁻¹	APHA 5210 B
Elect. conductivity (EC)	738			uS cm ⁻¹	APHA 2510 B
Faecal Coliforms	2		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO ₂ and NO ₃ -N	0.95			mg L ⁻¹	APHA 4110 B
Oil & Grease	<2		2	mg L ⁻¹	USEPA 1664
pН	7.67		6.8-8.5	pH units	APHA 4500-H ⁺ B
Soluble Reactive P (SRP)	1.97			mg L ⁻¹	APHA 4110 B
Total phosphorus	2.01	Elevated	0.3	mg L ⁻¹	APHA 4500 P E
TKN - N	8.4			mg L ⁻¹	APHA 4500-N _{org} C
TN	9.3		10	mg L ⁻¹	$TKN + NO_2 + NO_3$
Total suspended solids TSS	5		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										
AUGUST 2023	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
15AUG23	75.5	16.7	29.9	38.0	2.2	218	28.1	494	237	66

