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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 4th March 2024*
Water Sample collected   27th February 2024 Analysis complete 4th March 2024
Sample collected by Emily Leach   Samples received chilled 27th February 2024

RESULTS - GLEN INNES - 27th February 2024

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

Parameter			EPA Limit 90th %ile	Units	Method
Ammonia NH_3-N	1.38		2.0	mg L^{-1}	APHA 4500-NH_3 C
Biochemical Oxygen Demand (5 days)	3.2		10	mg L^{-1}	APHA 5210 B
Elect. conductivity (EC)	719			uS cm^{-1}	APHA 2510 B
Faecal Coliforms	4		200	cfu/ 100 mL	Membrane Filter APHA 9222 D
NO_2 and NO_3 -N	2.32			mg L^{-1}	APHA 4110 B
Oil & Grease	<2		2	mg L^{-1}	USEPA 1664
pH	7.45		6.8-8.5	pH units	APHA 4500-H^+ B
Soluble Reactive P (SRP)	0.06			mg L^{-1}	APHA 4110 B
Total phosphorus	0.19		0.3	mg L^{-1}	APHA 4500 P E
TKN - N	2.6			mg L^{-1}	APHA 4500-N_{org} C
TN	4.7		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									
FEBRUARY 2024	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride
Glen Innes-27FEB24	mg/L 67.8	mg/L 15.2	mg/L 25.0	mg/L 27.9	2.2	mg/L 173	mg/L 26.7	mg/L 482	mg/L 88	mg/L 125

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