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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 22<sup>nd</sup> September 2021 Water Sample collected 14<sup>th</sup> September 2021 Analysis complete 22<sup>nd</sup> September 2021 Sample collected by Nicole Wilson Samples received chilled 24<sup>th</sup> August 2021

## **RESULTS - Glen Innes - 14th September 2021**

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

Parameter		Licence Limit (90th%ile)	Units	Method	
Ammonia NH <sub>3</sub> -N	75.3```0.74	2	mg L <sup>-1</sup>	APHA 4500-NH <sub>3</sub> C	
Biochemical Oxygen Demand (5 days)	9.8	10	mg L <sup>-1</sup>	APHA 5210 B	
Elect. conductivity (EC)	629		uS cm <sup>-1</sup>	APHA 2510 B	
Faecal Coliforms	4	200	cfu/ 100 mL	Membrane Filter APHA 9222 D	
NO <sub>2</sub> and NO <sub>3</sub> -N	0.85		mg L <sup>-1</sup>	APHA 4110 B	
Oil & Grease	<2	2	mg L <sup>-1</sup>	USEPA 1664	
pН	7.44	6.5-8.5	pH units	APHA 4500-H <sup>+</sup> B	
Soluble Reactive P (SRP)	0.212		mg L <sup>-1</sup>	APHA 4110 B	
Total phosphorus	1.72	0.3	mg L <sup>-1</sup>	APHA 4500 P E	
TKN - N	6.3		mg L <sup>-1</sup>	APHA 4500-N <sub>org</sub> C	
TN	7.2	10	mg L <sup>-1</sup>	$TKN + NO_2 + NO_3$	
Total suspended solids TSS	50	15	mg L <sup>-1</sup>	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 Weir - elemental analysis													
SEPTEMBER 202	Na	K	Mg	Ca	SAR	Hardness	Sulphur	TDS	Alkalinity	Chloride			
SEPTEMBER	mg/L	mg/L	mg/L	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L			
2021	75.3	13.3	25.3	31.8	2.4	184	22.0	421	127	91			

