

Phone Office/Lab (02) 6775 1157  
 ABN: 72 212 385 096  
 email: [lanfaxlabs@bigpond.com.au](mailto:lanfaxlabs@bigpond.com.au)  
 Website: <http://www.lanfaxlabs.com.au>  
 Lab address: 493 Old Inverell Road  
 Postal: PO Box 4690 Armidale NSW 2350  
 Director: Dr Robert Patterson CPSS,  
 Soil Scientists and Environmental Engineers



Quality Assurance and Quality Control by Approved Methods

## Analysis of Water Sample

Client Glen Innes Severn Council,  
 Glen Innes Sewage Treatment Works Report 9<sup>th</sup> December 2024  
 Water Sample collected 3<sup>rd</sup> December 2024 Analysis complete 9<sup>th</sup> December 2024  
 Sample collected by Emily Leach Samples received chilled 3<sup>rd</sup> December 2024

## RESULTS - GLEN INNES - 3<sup>rd</sup> December 2024

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

| Parameter                              |       |  | EPA Limit<br>90 <sup>th</sup> %ile | Units               | Method                                 |
|--|-------|--|------------------------------------|---------------------|--|
| Ammonia NH <sub>3</sub> -N             | 1.19  |  | 2.0                                | mg L <sup>-1</sup>  | APHA 4500-NH <sub>3</sub> C            |
| Biochemical Oxygen Demand<br>(5 days)  | 4.2   |  | 10                                 | mg L <sup>-1</sup>  | APHA 5210 B                            |
| Elect. conductivity (EC)               | 692   |  |                                    | uS cm <sup>-1</sup> | APHA 2510 B                            |
| Faecal Coliforms                       | 6     |  | 200                                | cfu/<br>100 mL      | Membrane Filter<br>APHA 9222 D         |
| NO <sub>2</sub> and NO <sub>3</sub> -N | 2.07  |  |                                    | mg L <sup>-1</sup>  | APHA 4110 B                            |
| Oil & Grease                           | 2     |  | 2                                  | mg L <sup>-1</sup>  | USEPA 1664                             |
| pH                                     | 7.15  |  | 6.8-8.5                            | pH units            | APHA 4500-H <sup>+</sup> B             |
| Soluble Reactive P (SRP)               | 0.014 |  |                                    | mg L <sup>-1</sup>  | APHA 4110 B                            |
| Total phosphorus                       | 0.140 |  | 0.3                                | mg L <sup>-1</sup>  | APHA 4500 P E                          |
| TKN - N                                | 3.2   |  |                                    | mg L <sup>-1</sup>  | APHA 4500-N <sub>org</sub> C           |
| TN                                     | 5.3   |  | 10                                 | mg L <sup>-1</sup>  | TKN + NO <sub>2</sub> +NO <sub>3</sub> |
| Total suspended solids TSS             | 5     |  | 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 Weir - elemental analysis |      |      |      |      |     |          |         |      |            |          |
|--------------------------------------|------|------|------|------|-----|----------|---------|------|------------|----------|
| December 2024                        | Na   | K    | Mg   | Ca   | SAR | Hardness | Sulphur | TDS  | Alkalinity | Chloride |
| Glen Innes -<br>03DEC24              | mg/L | mg/L | mg/L | mg/L |     | mg/L     | mg/L    | mg/L | mg/L       | mg/L     |
|                                      | 69.8 | 17.4 | 23.9 | 28.6 | 2.3 | 170      | 60.5    | 464  | 80         | 61       |



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