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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 14<sup>th</sup> February 2023 Water Sample collected* 7<sup>th</sup> February 2023 Analysis complete 14<sup>th</sup> February 2023 *Sample collected by* Pramod Lamsal Samples received chilled 7<sup>th</sup> February 2023

| Parameter                              |       | Units               | Method                         |  |
|--|-------|---------------------|--------------------------------|--|
| Ammonia NH <sub>3</sub> -N             | 0.33  | mg L <sup>-1</sup>  | APHA 4500-NH <sub>3</sub> C    |  |
| Biochemical Oxygen<br>Demand (5 days)  | 10    | mg L <sup>-1</sup>  | APHA 5210 B                    |  |
| Elect. conductivity (EC)               | 437   | uS cm <sup>-1</sup> | APHA 2510 B                    |  |
| Faecal Coliforms                       | 5     | cfu/<br>100 mL      | Membrane Filter<br>APHA 9222 D |  |
| NO <sub>2</sub> and NO <sub>3</sub> -N | 1.83  | mg L <sup>-1</sup>  | APHA 4110 B                    |  |
| Oil & Grease                           | <2    | mg L <sup>-1</sup>  | USEPA 1664                     |  |
| рН                                     | 7.78  | pH units            | APHA $4500-H^+B$               |  |
| Soluble Reactive P (SRP)               | 0.089 | mg L <sup>-1</sup>  | APHA 4110 B                    |  |
| Total phosphorus                       | 0.28  | mg L <sup>-1</sup>  | APHA 4500 P E                  |  |
| TKN - N                                | 5.1   | mg L <sup>-1</sup>  | APHA 4500-N <sub>org</sub> C   |  |
| TN                                     | 6.9   | mg L <sup>-1</sup>  | $TKN + NO_2 + NO_3$            |  |
| Total suspended solids TSS             | 10    | mg L <sup>-1</sup>  | APHA 2540 D                    |  |
|  |       |                     |                                |  |

## **RESULTS - GLEN INNES - 7th February 2023**

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 Inn      | ir - ele | ementa |      | 3. K. |     |          |         |      |            |          |
|---------------|----------|--------|------|-------|-----|----------|---------|------|------------|----------|
| FEBRUARY 2023 | Na       | ĸ      | Mg   | Ca    | SAR | Hardness | Sulphur | TDS  | Alkalinity | Chloride |
| Glen Innes-   | mg/L     | mg/L   | mg/L | mg/L  | 1   | mg/L     | mg/L    | mg/L | mg/L       | mg/L     |
| 07FEB23       | 65.0     | 16.3   | 26.2 | 33.7  | 2.0 | 192      | 23.7    | 462  | 148        | 107      |



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