

Analysis of Water Sample

Client Glen Innes Severn Council,
 Glen Innes Sewage Treatment Works *Report* 10th March 2025
Water Sample collected 4th March 2025 *Analysis complete* 10th March 2025
Sample collected by Emily Leach *Samples received chilled* 4th March 2025

RESULTS - GLEN INNES - 4th March 2025

mg L⁻¹ = part per million)

| Parameter | | | EPA Limit 90 th %ile | Units | Method |
|--|-------|----------|------------------------------------|---------------------|--|
| Ammonia NH ₃ -N | 2.4 | | 2.0 | mg L ⁻¹ | APHA 4500-NH ₃ C |
| Biochemical Oxygen Demand (5 days) | 4.8 | | 10 | mg L ⁻¹ | APHA 5210 B |
| Elect. conductivity (EC) | 782 | | | uS cm ⁻¹ | APHA 2510 B |
| Faecal Coliforms | 180 | | 200 | cfu/ 100 mL | Membrane Filter APHA 9222 D |
| NO ₂ and NO ₃ -N | 3.67 | | | mg L ⁻¹ | APHA 4110 B |
| Oil & Grease | <2 | | 2 | mg L ⁻¹ | USEPA 1664 |
| pH | 7.55 | | 6.8-8.5 | pH units | APHA 4500-H ⁺ B |
| Soluble Reactive P (SRP) | 0.011 | | | mg L ⁻¹ | APHA 4110 B |
| Total phosphorus | 0.32 | elevated | 0.3 | mg L ⁻¹ | APHA 4500 P E |
| TKN - N | 1.7 | | | mg L ⁻¹ | APHA 4500-N _{org} C |
| TN | 5.4 | | 10 | mg L ⁻¹ | TKN + NO ₂ +NO ₃ |
| Total suspended solids TSS | 18 | elevated | 15 | mg L ⁻¹ | 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.

| Glen Innes Weir - elemental analysis | | | | | | | | | | |
|--------------------------------------|------|------|------|------|-----|----------|---------|------|------------|----------|
| MARCH 2025 | Na | K | Mg | Ca | SAR | Hardness | Sulphur | TDS | Alkalinity | Chloride |
| Glen Innes - 04MAR25 | mg/L | mg/L | mg/L | mg/L | | mg/L | mg/L | mg/L | mg/L | mg/L |
| | 89.0 | 18.4 | 26.9 | 35.5 | 2.7 | 199 | 79.1 | 524 | 84 | 61 |

Comments. Please note the Lower detection limit under USEPA 1664 is 2 mg/L for Oil & Grease

