

SEWER TREATMENT PLANTS - Environmental Compliance

01 April 2022 -31 March 2023

Gulgong Wastewater Treatment Plant
107 Spring Creek Road, Gulgong NSW 2852
Environment Protection Licence: 5808

<http://www.epa.nsw.gov.au/prpoeoapp/>

| Monitoring Point 2 | | pH | EC | TDS (calculated) | TSS | Chlorine total residual | Total Nitrogen | Total Phosphorus | Chlorophyll a | Oil & Grease | BOD | Faecal Coliforms | Report Generated | Comments |
|-------------------------------------|-----------------------|---------|-------|------------------|------|-------------------------|----------------|------------------|---------------|--------------|------|------------------|------------------|---------------------------------------------------------------------------------------------------------|
| Pollutant | | 6.5-9.5 | | | 50 | 1 | 40 | 10 | | 10 | 20 | 1000 | | |
| Limits | | | µs/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/m3 | mg/L | mg/L | CFU/100mL | | |
| Units | | | | | | | | | | | | | | |
| Date sampled | Date results received | | | | | | | | | | | | | |
| 11/04/2022 | 19/04/2022 | 8.9 | 886 | 594 | 3 | <0.2 | 1.0 | 3.18 | 9 | <2 | 2 | 57 | 29/04/2022 | |
| 10/05/2022 | 17/04/2022 | 8.8 | 839 | 562 | 13 | <0.2 | 2.4 | 3.18 | 2 | <2 | <2 | 46 | 17/05/2022 | |
| 7/06/2022 | 14/06/2022 | 8.2 | 862 | 578 | 4 | <0.2 | 2.2 | 2.56 | 15 | <2 | 2 | 3 | 15/06/2022 | |
| 13/07/2022 | 20/07/2022 | 8.3 | 840 | 563 | 6 | <0.2 | 2.3 | 2.13 | 18 | <2 | 2 | 2 | 21/07/2022 | |
| 10/08/2022 | 17/08/2022 | 8.9 | 736 | 493 | 7 | <0.2 | 2.6 | 2.01 | 20 | <2 | 6 | 6 | 18/08/2022 | |
| 13/09/2022 | 26/09/2022 | 9.6 | 796 | 533 | 4 | <0.2 | 1.8 | 1.38 | 19 | <2 | 7 | <1 | 26/09/2022 | Algal activity in pond |
| 18/10/2022 | 24/10/2022 | 9.8 | 756 | 507 | 19 | <0.2 | 1.3 | 1.08 | 10 | <2 | <2 | 73 | 25/10/2022 | NATA accredited sampling staff noted accumulation of algae windward, particularly upon EPA sample point |
| 24/11/2022 | 2/12/2022 | 9.4 | 740 | 496 | 4 | <0.2 | 0.9 | 1.25 | <1 | <2 | <2 | 8 | 2/12/2022 | Sampling delayed by one week due to flooding. Further sampling will stay on initial schedule. |
| 14/12/2022 | 22/12/2022 | 8.6 | 847 | 567 | 5 | <0.2 | 1.7 | 2.73 | 1 | <2 | 4 | 9 | 22/12/2022 | |
| 19/01/2023 | 30/01/2023 | 8.9 | 879 | 589 | 17 | <0.2 | 1.5 | 2.06 | 13 | <2 | 4 | 19 | 3/02/2023 | |
| 16/02/2023 | 23/02/2023 | 9.5 | 874 | 586 | 34 | <0.2 | 2.1 | 1.24 | 33 | <2 | 4 | 1800 | 27/02/2023 | Licence variation on 25/01. New EPA point 5 (discharge) with amended limits. Limits removed on Point 2 |
| 16/03/2023 | 24/03/2023 | 9.6 | 887 | 594 | 28 | <0.2 | 1.6 | 1.02 | 29 | <2 | 11 | 130 | 24/03/2023 | |
| No of samples taken | | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 11 | 12 | 12 | 12 | | |
| Samples/year required by EPA | | 10 | | | 10 | 10 | 10 | 10 | | 10 | 10 | 10 | | |
| Minimum | | 8.2 | 736 | 493 | 3.0 | 0.1 | 0.9 | 1.02 | 1 | 1.0 | 1.0 | 1 | | |
| Average | | 9.0 | 829 | 555 | 12.0 | 0.1 | 1.8 | 1.99 | 15 | 1.0 | 3.8 | 180 | | |
| Maximum | | 9.8 | 887 | 594 | 34 | 0.1 | 2.6 | 3.18 | 33 | 1 | 11 | 1800 | | |
| Samples within limits (%) | | 80 | | | 120 | 120 | 120 | 120 | | 120 | 120 | 110 | | |

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| Monitoring Point 5 | Pollutant | pH | EC | TDS (calculated) | TSS | Chlorine total | Total Nitrogen | Total Phosphorus | Chlorophyll a | Oil & Grease | BOD | Faecal Coliforms | Report Generated | Comments |
| Limits | | 6.5-9.5 | | | 30 | 1 | 15 | 5 | | 10 | 10 | 600 | | |
| Units | | | µs/cm | mg/L | mg/L | mg/L | mg/L | mg/L | mg/m3 | mg/L | mg/L | CFU/100mL | | |
| Date sampled | Date results received | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | |
| 25/01/2023 | | Not discharging | | | | | | | | | | | Licence variation on 25/01. New EPA point 5 (discharge) with amended limits. Limits removed on Point 2 | |
| 16/02/2023 | 23/02/2023 | Not discharging | | | | | | | | | | | 27/02/2023 | |
| 16/03/2023 | 24/03/2023 | Not discharging | | | | | | | | | | | 24/03/2023 | |
| No of samples taken | | 0 | 0 | 0 | 11 | 12 | 0 | 0 | 0 | 11 | 11 | 10 | | |
| Samples/year required by EPA | | 12 | | | 12 | 12 | 12 | 12 | | 12 | 12 | 12 | | |
| Minimum | | 0.0 | 0 | 0 | #NUM! | #NUM! | 0.0 | 0.00 | 0 | #NUM! | #NUM! | #NUM! | | |
| Average | | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | | |
| Maximum | | 0 | 0 | 0 | 0 | 0.0 | 0.0 | 0.00 | 0 | 0 | 0 | 0 | | |
| Samples within limits (%) | | #DIV/0! | | | 0 | 0 | #DIV/0! | #DIV/0! | | 0 | 0 | 0 | | |

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| Gulgong Wastewater Treatment Plant 107 Spring Creek Road, Gulgong NSW 2852 Environment Protection Licence: 5808 http://www.epa.nsw.gov.au/prpoeoapp/ | | Report generated: 8 November 2022 | | | | | | | | |
| Monitoring Point 4 Pollutant | | Site no and depth | Exchangeabl e Calcium | Exchang. Magnesium | Exchang. Sodium | Salinity | pH (CaCl2) | Total Nitrogen | Total Phosphorus | Sodium Adsorptio |
| Units | | | mg/Kg | mg/Kg | mg/Kg | mg/Kg | | mg/Kg | mg/Kg | |
| Date sampled | Date results received | | | | | | | | | |
| 27/10/2022 | 8/11/2022 | Site 1 0-20cm | 1820 | 588 | 69 | 101 | 5.9 | 1370 | 517 | 2.16 |
| 27/10/2022 | 8/11/2022 | Site 1 20-40cm | 2880 | 1680 | 207 | 495 | 7.2 | 380 | 104 | 7.43 |
| 27/10/2022 | 8/11/2022 | Site 2 0-20 cm | 2480 | 816 | 46 | 347 | 6.9 | 440 | 298 | 3.74 |
| 27/10/2022 | 8/11/2022 | Site 2 20-40 cm | 2720 | 1200 | 207 | 502 | 7.4 | 450 | 132 | 13.1 |
| No of samples taken | | | 4 | 4 | 0 | 4 | 4 | 4 | 4 | 4 |
| EPA required frequency (samples per year) | | | Annual (1) | Annual (1) | Annual (1) | Annual (1) | Annual (1) | Annual (1) | Annual (1) | Annual (1) |

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|-----------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------|------|---------|------------------|----------------------|----------|
| Gulgong Wastewater Treatment Plant 107 Spring Creek Road, Gulgong NSW 2852 Environment Protection Licence: 5808 | | | | | | | |
| Monitoring Point 1 Frequency: daily | | Min | Max | Average | No of reading | Number of reading | Comments |
| Limits | | | | | | | |
| Units | Report Generated | KL | KL | KL | | | |
| April | 2/05/2022 | 355 | 2505 | 679 | 30 | 30 | |
| May | 1/06/2022 | 399 | 1042 | 580 | 31 | 31 | |
| June | 6/07/2022 | 367 | 610 | 426 | 30 | 30 | |
| July | 3/08/2022 | 417 | 4631 | 1005 | 31 | 31 | |
| August | 2/09/2022 | 491 | 6081 | 1166 | 31 | 31 | |
| September | 5/10/2022 | 446 | 1787 | 691 | 30 | 30 | |
| October | 1/11/2022 | 450 | 5975 | 1400 | 31 | 31 | |
| November | 2/12/2022 | 426 | 5211 | 963 | 30 | 30 | |
| December | 5/01/2023 | 254 | 477 | 353 | 31 | 31 | |
| January | 6/02/2023 | 137 | 710 | 306 | 31 | 31 | |
| February | 2/03/2023 | 241 | 1211 | 364 | 28 | 28 | |
| March | 6/04/2023 | 273 | 423 | 327 | 31 | 31 | |