

## SEWER TREATMENT PLANTS - Environmental Compliance

01 October 2021 -30 September 2022

Mudgee Wastewater Treatment Plant

33 Blain Road, Caerleon, NSW, 2850

Environment Protection Licence: 5230

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

| Monitoring Point 1<br>Pollutant                      |                          | pH              | EC    | TSS          | Total<br>Nitrogen | Total<br>Phosphorus | Chlorophyll a | Oil &<br>Grease | BOD             | Faecal<br>Coliforms | Report<br>generated | Comments   |
|--|--------------------------|-----------------|-------|--------------|-------------------|---------------------|---------------|-----------------|-----------------|---------------------|---------------------|--|
| Limit 90 percentile                                  |                          |                 |       | 10           | 10                | 0.5                 |               | 2               | 10              | 200                 |                     |  |
| Limit 100 percentile                                 |                          | 6.5-8.5         |       | 30           | 15                | 1                   |               | 10              | 15              | 600                 |                     |  |
| Units  |                          |                 | µs/cm | mg/L         | mg/L              | mg/L                | mg/m3         | mg/L            | mg/L            | CFU/100mL           |                     |  |
| Date sampled   | Date results<br>received |                 |       |              |                   |                     |               |                 |                 |                     |                     |  |
| 13/10/2021   | 20/10/2021               | 7.6             | 908   | 2            | 4.4               | 0.71                | 1             | <2              | 2               | 4                   | 21/10/2021          | Phosphorus levels under investigations. Suspected alum dosing problems<br>Alum dosing hose line found to have a small puncture. Replaced on 21/10. |
| 28/10/2021   | 3/11/2021                |                 |       |              | 6.9               | 0.17                |               |                 |                 |                     | 4/11/2021           |  |
| 15/11/2021   | 22/11/2021               | 7.6             | 1070  | 2            | 6.6               | 0.08                | <1            | <2              | <2              | 140                 | 23/11/2021          |  |
| 14/12/2021   | 21/12/2021               | 7.5             | 1050  | 4            | 6.3               | 0.15                | 8             | <2              | 9               | 110                 | 22/12/2021          |  |
| 13/01/2022   | 20/01/2022               | 8.1             | 1010  | <1           | 3.6               | 0.05                | 2             | <2              | <2              | 190                 | 24/01/2022          |  |
| 16/02/2022   | 23/02/2022               | 7.3             | 1060  | 2            | 5.9               | 0.12                | 2             | <2              | <2              | 360                 | 23/02/2022          | UV system serviced 22/01/2022. Catch tank balance partially cleaned.   |
| 16/03/2022   | 22/03/2022               | 7.3             | 1080  | 3            | 6.5               | 0.04                | <1            | <2              | <2              | <1                  | 23/03/2022          |  |
| 11/04/2022   | 19/04/2022               | 7.7             | 910   | 2            | 3.8               | 0.06                | <1            | <2              | 2               | 11                  | 29/04/2022          |  |
| 9/05/2022  | 17/05/2022               | 7.7             | 1030  | 2            | 4.2               | 0.11                | <1            | <2              | <2              | 17                  | 17/05/2022          |  |
| 7/06/2022  | 14/06/2022               | 7.6             | 1050  | 2            | 7.4               | 0.10                | <1            | <2              | <2              | 21                  | 15/06/2022          |  |
| 13/07/2022   | 20/07/2022               | 7.6             | 1040  | 4            | 3.6               | 0.29                | <1            | 2               | 2               | 14                  | 21/07/2022          |  |
| 10/08/2022   | 17/08/2022               | 7.8             | 1100  | 3            | 2.6               | 0.15                | <1            | <2              | 4               | 30                  | 18/08/2022          |  |
| 13/09/2022   | 26/09/2022               | 7.6             | 1090  | 5            | 7.2               | 0.2                 | 3             | <2              | 7               | 7                   | 26/09/2022          |  |
| <b>No of samples taken</b>                           |                          | 12              | 12    | 12           | 13                | 13                  | 5             | 12              | 12              | 12                  |                     |  |
| <b>EPA required frequency<br/>(samples per year)</b> |                          | Monthly<br>(12) |       | Monthly (12) | Monthly<br>(12)   | Monthly (12)        |               | Monthly<br>(12) | Monthly<br>(12) | Monthly<br>(12)     |                     |  |
| <b>Minimum</b>                                       |                          | 7.3             | 908   | 1.0          | 2.6               | 0.04                | 1             | 1.0             | 1.0             | 1                   |                     |  |
| <b>Average</b>                                       |                          | 7.6             | 1033  | 2.7          | 5.3               | 0.17                | 3             | 1.1             | 2.7             | 75                  |                     |  |
| <b>Maximum</b>                                       |                          | 8.1             | 1100  | 5            | 7.4               | 0.71                | 8             | 2               | 9               | 360                 |                     |  |
| <b>Samples within 90 % limits (%)</b>                |                          |                 |       | 100          | 100               | 92                  |               | 100             | 100             | 92                  |                     |  |
| <b>Samples within 100 % limits (%)</b>               |                          | 100             |       | 100          | 100               | 100                 |               | 100             | 100             | 100                 |                     |  |

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| Mudgee Wastewater Treatment Plant                 |                  |                                    |              |              |                     |           |  |
| 33 Blain Road, Caerleon, NSW, 2850                |                  |                                    |              |              |                     |           |  |
| Environment Protection Licence: 5230              |                  |                                    |              |              |                     |           |  |
| Monitoring Point 2                                |                  | Min                                | Max          | Average      | No of reading taken | Number of | Comments   |
| Frequency: daily                                  |                  |                                    |              |              |                     |           |  |
| Limits  |                  | 11500 KL/Day                       | 11500 KL/Day | 11500 KL/Day |                     |           |  |
| Units   |                  | KL                                 | KL           | KL           |                     |           |  |
| Month   | Report generated |                                    |              |              |                     |           |  |
| October   | 3/11/2021        | 2152                               | 5180         | 3523         | 31                  | 31        |  |
| November  | 1/12/2021        | 2965                               | 9811         | 4785         | 30                  | 30        |  |
| December  | 6/01/2022        | 2485                               | 6723         | 4448         | 31                  | 31        |  |
| January   | 2/02/2022        | 2939                               | 7109         | 4078         | 31                  | 31        |  |
| February  | 2/03/2022        | 2263                               | 6366         | 3436         | 28                  | 28        |  |
| March   | 1/04/2022        | 2474                               | 7512         | 3927         | 31                  | 31        |  |
| April   | 2/05/2022        | 2974                               | 8079         | 4528         | 30                  | 30        |  |
| May   | 1/06/2022        | 4177                               | 9135         | 5129         | 31                  | 31        |  |
| June  | 6/07/2022        | 3570                               | 6197         | 4291         | 30                  | 30        |  |
| July  | 3/08/2022        | 4111                               | 7725         | 5187         | 31                  | 31        |  |
| August  | 1/09/2022        | 4315                               | 7891         | 6072         | 31                  | 31        |  |
| September   | 5/10/2022        | 4279                               | 11681        | 6106         | 30                  | 30        | Maximum flow was due to heavy rainfall leading to infiltration |

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| Monitoring Point 3                                |                  | Min                                | Max          | No of days flowing | No of reading | Number of reading required | Comments |
| Frequency: daily                                  |                  |                                    |              |                    |               |                            |          |
| Limits  |                  | 11500 KL/Day                       | 11500 KL/Day |                    |               |                            |          |
| Units   |                  | KL                                 | KL           |                    |               |                            |          |
| Month   | Report generated |                                    |              |                    |               |                            |          |
| October   | 3/11/2021        | 0                                  | 0            | 0                  | 31            | 31                         |          |
| November  | 1/12/2021        | 0                                  | 1611         | 4                  | 30            | 30                         |          |
| December  | 6/01/2022        | 0                                  | 0            | 0                  | 31            | 31                         |          |
| January   | 2/02/2022        | 0                                  | 0            | 0                  | 31            | 31                         |          |
| February  | 3/02/2022        | 0                                  | 0            | 0                  | 28            | 28                         |          |
| March   | 1/04/2022        | 0                                  | 0            | 0                  | 31            | 31                         |          |
| April   | 2/05/2022        | 0                                  | 3271         | 3                  | 30            | 30                         |          |
| May   | 1/06/2022        | 0                                  | 1            | 1                  | 31            | 31                         |          |
| June  | 6/07/2022        | 0                                  | 0            | 0                  | 30            | 30                         |          |
| July  | 3/08/2022        | 0                                  | 4645         | 1                  | 31            | 31                         |          |
| August  | 1/09/2022        | 0                                  | 4143         | 5                  | 31            | 31                         |          |
| September   | 5/10/2022        | 0                                  | 673          | 1                  | 30            | 30                         |          |