



# Ashford Sewage Treatment Plant

Licence Period: 1 November 2023 to 31 October 2024

EPL No. 580: Ashford Sewage Treatment Plant

Cemetery Road, Ashford 2361

<https://apps.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=580&id=580&option=licence&searchrange=licence&range=POEO licence&prp=no&status=Issued>

Licencee: Inverell Shire Council

Monitoring Frequency - Monthly

| Sample date:       | Analysis obtained:      | Data published: |             |         |                     |
|--------------------|-------------------------|-----------------|-------------|---------|---------------------|
|                    | Pollutant               | Units           | Measurement | Limit   | Exceedance (Yes/No) |
| 14/11/2023         | 23/11/2023              | 27/11/2023      |             |         |                     |
| Monitoring Point 1 | Oil and Grease          | mg/L            | <5          | 10      | No                  |
|                    | pH                      | -               | 8.2         | 6.5-8.5 | No                  |
|                    | BOD5                    | mg/L            | <2          | 20      | No                  |
|                    | Total Suspended Solids  | mg/L            | 3           | 30      | No                  |
|                    | Conductivity            | µS/cm           | 898         | -       | No                  |
|                    | Faecal Coliforms        | cfu/100ml       | 2200        | -       | No                  |
|                    | Nitrate + Nitrite       | mg/L            | 0.01        | -       | No                  |
|                    | Nitrogen (ammonia)      | mg/L            | <0.10       | -       | No                  |
|                    | Phosphorus (total)      | mg/L            | 9.2         | -       | No                  |
|                    | Total Kjeldhal Nitrogen | mg/L            | 1.6         | -       | No                  |
|                    | Chlorophyll 'a'         | µg/L            | 11          | -       | No                  |
| Monitoring Point 2 | pH                      | -               | 7.6         | 6.5-8.5 | No                  |
|                    | BOD5                    | mg/L            | 4           | 20      | No                  |
|                    | Total Suspended Solids  | mg/L            | 6           | 30      | No                  |
| 06/12/2023         | 14/12/2023              | 18/12/2023      |             |         |                     |
| Monitoring Point 1 | Oil and Grease          | mg/L            | <5          | 10      | No                  |
|                    | pH                      | -               | 9           | 6.5-8.5 | yes                 |
|                    | BOD5                    | mg/L            | 14          | 20      | No                  |
|                    | Total Suspended Solids  | mg/L            | 2           | 30      | No                  |
|                    | Conductivity            | µS/cm           | 749         | -       | No                  |
|                    | Faecal Coliforms        | cfu/100ml       | 480         | -       | No                  |
|                    | Nitrate + Nitrite       | mg/L            | <0.02       | -       | No                  |
|                    | Nitrogen (ammonia)      | mg/L            | <0.10       | -       | No                  |
|                    | Phosphorus (total)      | mg/L            | 5.96        | -       | No                  |
|                    | Total Kjeldhal Nitrogen | mg/L            | 1.4         | -       | No                  |
|                    | Chlorophyll 'a'         | µg/L            | 3           | -       | No                  |
| Monitoring Point 2 | pH                      | -               | 8.8         | 6.5-8.5 | yes                 |
|                    | BOD5                    | mg/L            | 20          | 20      | No                  |
|                    | Total Suspended Solids  | mg/L            | 17          | 30      | No                  |
| 03/01/2024         | 16/01/2024              | 24/01/2024      |             |         |                     |
| Monitoring Point 1 | Oil and Grease          | mg/L            | <5          | 10      | No                  |
|                    | pH                      | -               | 9.2         | 6.5-8.5 | YES                 |
|                    | BOD5                    | mg/L            | 2           | 20      | No                  |
|                    | Total Suspended Solids  | mg/L            | 7           | 30      | No                  |
|                    | Conductivity            | µS/cm           | 737         | -       | No                  |
|                    | Faecal Coliforms        | cfu/100ml       | ~800        | -       | No                  |
|                    | Nitrate + Nitrite       | mg/L            | <0.01       | -       | No                  |
|                    | Nitrogen (ammonia)      | mg/L            | 0.02        | -       | No                  |
|                    | Phosphorus (total)      | mg/L            | 4.36        | -       | No                  |
|                    | Total Kjeldhal Nitrogen | mg/L            | 1.3         | -       | No                  |
|                    | Chlorophyll 'a'         | µg/L            | 5           | -       | No                  |
| Monitoring Point 2 | pH                      | -               | 7.6         | 6.5-8.5 | No                  |
|                    | BOD5                    | mg/L            | 4           | 20      | No                  |
|                    | Total Suspended Solids  | mg/L            | 7           | 30      | No                  |
| 06/02/2024         | 07/02/2024              | 16/02/2024      |             |         |                     |
| Monitoring Point 1 | Oil and Grease          | mg/L            | <5          | 10      | No                  |
|                    | pH                      | -               | 8.6         | 6.5-8.5 | Yes                 |
|                    | BOD5                    | mg/L            | 3           | 20      | No                  |



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|   |                         |                               | Licensee: Inverell Shire Council            |                            |                     |
|   |                         |                               | Monitoring Frequency - Monthly              |                            |                     |
| Monitoring Point 2  | Total Suspended Solids  | mg/L                          | 6   | 30                         | No                  |
|   | Conductivity            | µS/cm                         | 742   | -                          | No                  |
|   | Faecal Coliforms        | cfu/100ml                     | 260   | -                          | No                  |
|   | Nitrate + Nitrite       | mg/L                          | <0.01                                       | -                          | No                  |
|   | Nitrogen (ammonia)      | mg/L                          | 1.5   | -                          | No                  |
|   | Phosphorus (total)      | mg/L                          | 8.3   | -                          | No                  |
|   | Total Kjeldhal Nitrogen | mg/L                          | 1.5   | -                          | No                  |
|   | Chlorophyll 'a'         | µg/L                          | 28  | -                          | No                  |
|   | pH                      | -                             | 7.6   | 6.5-8.5                    | No                  |
|   | BOD5                    | mg/L                          | 6   | 20                         | No                  |
| Total Suspended Solids  | mg/L                    | 11                            | 30  | No                         |                     |
| Sample date: 05/03/2024   |                         | Analysis obtained: 15/03/2024 |   | Data published: 19/03/2024 |                     |
| Monitoring Point 1  | Pollutant               | Units                         | Measurement                                 | Limit                      | Exceedance (Yes/No) |
|   | Oil and Grease          | mg/L                          | <5  | 10                         | No                  |
|   | pH                      | -                             | 8.3   | 6.5-8.5                    | No                  |
|   | BOD5                    | mg/L                          | 16  | 20                         | No                  |
|   | Total Suspended Solids  | mg/L                          | 8   | 30                         | No                  |
|   | Conductivity            | µS/cm                         | 729   | -                          | No                  |
|   | Faecal Coliforms        | cfu/100ml                     | ~30   | -                          | No                  |
|   | Nitrate + Nitrite       | mg/L                          | <0.01                                       | -                          | No                  |
|   | Nitrogen (ammonia)      | mg/L                          | <0.10                                       | -                          | No                  |
|   | Phosphorus (total)      | mg/L                          | 9.76  | -                          | No                  |
| Total Kjeldhal Nitrogen   | mg/L                    | 1.4                           | -   | No                         |                     |
| Chlorophyll 'a'   | µg/L                    | 20                            | -   | No                         |                     |
| Monitoring Point 2  | pH                      | -                             | 7.8   | 6.5-8.5                    | No                  |
|   | BOD5                    | mg/L                          | 7   | 20                         | No                  |
|   | Total Suspended Solids  | mg/L                          | 7   | 30                         | No                  |
| Sample date: 02/04/2024   |                         | Analysis obtained: 11/04/2024 |   | Data published: 12/04/2024 |                     |
| Monitoring Point 1  | Pollutant               | Units                         | Measurement                                 | Limit                      | Exceedance (Yes/No) |
|   | Oil and Grease          | mg/L                          | 6   | 10                         | No                  |
|   | pH                      | -                             | 8.3   | 6.5-8.5                    | No                  |
|   | BOD5                    | mg/L                          | 9   | 20                         | No                  |
|   | Total Suspended Solids  | mg/L                          | 10  | 30                         | No                  |
|   | Conductivity            | µS/cm                         | 762   | -                          | No                  |
|   | Faecal Coliforms        | cfu/100ml                     | ~160  | -                          | No                  |
|   | Nitrate + Nitrite       | mg/L                          | 0.02  | -                          | No                  |
|   | Nitrogen (ammonia)      | mg/L                          | <0.10                                       | -                          | No                  |
|   | Phosphorus (total)      | mg/L                          | 9.88  | -                          | No                  |
| Total Kjeldhal Nitrogen   | mg/L                    | 2                             | -   | No                         |                     |
| Chlorophyll 'a'   | µg/L                    | 48                            | -   | No                         |                     |
| Monitoring Point 2  | pH                      | -                             | 7.9   | 6.5-8.5                    | No                  |
|   | BOD5                    | mg/L                          | 10  | 20                         | No                  |
|   | Total Suspended Solids  | mg/L                          | 11  | 30                         | No                  |
| Sample date: 07/05/2024   |                         | Analysis obtained: 17/05/2024 |   | Data published: 20/05/2024 |                     |
| Monitoring Point 1  | Pollutant               | Units                         | Measurement                                 | Limit                      | Exceedance (Yes/No) |
|   | Oil and Grease          | mg/L                          | <5  | 10                         | No                  |
|   | pH                      | -                             | 9   | 6.5-8.5                    | Yes                 |
|   | BOD5                    | mg/L                          | 2   | 20                         | No                  |
|   | Total Suspended Solids  | mg/L                          | 4   | 30                         | No                  |
|   | Conductivity            | µS/cm                         | 608   | -                          | No                  |
|   | Faecal Coliforms        | cfu/100ml                     | ~110  | -                          | No                  |
|   | Nitrate + Nitrite       | mg/L                          | 0.03  | -                          | No                  |
| Nitrogen (ammonia)  | mg/L                    | <0.10                         | -   | No                         |                     |



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|   |                         |                               | Licensee: Inverell Shire Council            |                            |                     |
|   |                         |                               | Monitoring Frequency - Monthly              |                            |                     |
| Monitoring Point 2  | Phosphorus (total)      | mg/L                          | 6.84  | -                          | No                  |
|   | Total Kjeldhal Nitrogen | mg/L                          | 1.3   | -                          | No                  |
|   | Chlorophyll 'a'         | µg/L                          | 8   | -                          | No                  |
|   | pH                      | -                             | 7.8   | 6.5-8.5                    | No                  |
|   | BOD5                    | mg/L                          | 2   | 20                         | No                  |
|   | Total Suspended Solids  | mg/L                          | 3   | 30                         | No                  |
| Sample date: 04/06/2024   |                         | Analysis obtained: 18/06/2024 |   | Data published: 20/06/2024 |                     |
| Monitoring Point 1  | Pollutant               | Units                         | Measurement                                 | Limit                      | Exceedance (Yes/No) |
|   | Oil and Grease          | mg/L                          | 9   | 10                         | No                  |
|   | pH                      | -                             | 8.8   | 6.5-8.5                    | Yes                 |
|   | BOD5                    | mg/L                          | <2  | 20                         | No                  |
|   | Total Suspended Solids  | mg/L                          | 3   | 30                         | No                  |
|   | Conductivity            | µS/cm                         | 619   | -                          | No                  |
|   | Faecal Coliforms        | cfu/100ml                     | ~30   | -                          | No                  |
|   | Nitrate + Nitrite       | mg/L                          | 0.14  | -                          | No                  |
|   | Nitrogen (ammonia)      | mg/L                          | <0.10                                       | -                          | No                  |
|   | Phosphorus (total)      | mg/L                          | 5.36  | -                          | No                  |
|   | Total Kjeldhal Nitrogen | mg/L                          | 1.3   | -                          | No                  |
|   | Chlorophyll 'a'         | µg/L                          | 5   | -                          | No                  |
|   | Monitoring Point 2      | pH                            | -   | 7.8                        | 6.5-8.5             |
| BOD5  |                         | mg/L                          | <2  | 20                         | No                  |
| Total Suspended Solids  |                         | mg/L                          | 3   | 30                         | No                  |
| Sample date: 02/07/2024   |                         | Analysis obtained: 11/07/2024 |   | Data published: 25/07/2024 |                     |
| Monitoring Point 1  | Pollutant               | Units                         | Measurement                                 | Limit                      | Exceedance (Yes/No) |
|   | Oil and Grease          | mg/L                          | <5  | 10                         | No                  |
|   | pH                      | -                             | 9.2   | 6.5-8.5                    | Yes                 |
|   | BOD5                    | mg/L                          | 3   | 20                         | No                  |
|   | Total Suspended Solids  | mg/L                          | <2  | 30                         | No                  |
|   | Conductivity            | µS/cm                         | 635   | -                          | No                  |
|   | Faecal Coliforms        | cfu/100ml                     | ~10   | -                          | No                  |
|   | Nitrate + Nitrite       | mg/L                          | 0.86  | -                          | No                  |
|   | Nitrogen (ammonia)      | mg/L                          | <0.10                                       | -                          | No                  |
|   | Phosphorus (total)      | mg/L                          | 4.81  | -                          | No                  |
|   | Total Kjeldhal Nitrogen | mg/L                          | 1.5   | -                          | No                  |
|   | Chlorophyll 'a'         | µg/L                          | 4   | -                          | No                  |
|   | Monitoring Point 2      | pH                            | -   | 7.8                        | 6.5-8.5             |
| BOD5  |                         | mg/L                          | 2   | 20                         | No                  |
| Total Suspended Solids  |                         | mg/L                          | 3   | 30                         | No                  |
| Sample date: 06/08/2024   |                         | Analysis obtained: 19/08/2024 |   | Data published: 22/08/2024 |                     |
| Monitoring Point 1  | Pollutant               | Units                         | Measurement                                 | Limit                      | Exceedance (Yes/No) |
|   | Oil and Grease          | mg/L                          | <5  | 10                         | No                  |
|   | pH                      | -                             | 9.3   | 6.5-8.5                    | Yes                 |
|   | BOD5                    | mg/L                          | <2  | 20                         | No                  |
|   | Total Suspended Solids  | mg/L                          | <2  | 30                         | No                  |
|   | Conductivity            | µS/cm                         | 636   | -                          | No                  |
|   | Faecal Coliforms        | cfu/100ml                     | ~6  | -                          | No                  |
|   | Nitrate + Nitrite       | mg/L                          | 0.45  | -                          | No                  |
|   | Nitrogen (ammonia)      | mg/L                          | <0.10                                       | -                          | No                  |
|   | Phosphorus (total)      | mg/L                          | 4.9   | -                          | No                  |
|   | Total Kjeldhal Nitrogen | mg/L                          | 1.8   | -                          | No                  |
|   | Chlorophyll 'a'         | µg/L                          | 3   | -                          | No                  |
|   | Monitoring Point 2      | pH                            | -   | 7.9                        | 6.5-8.5             |
| BOD5  |                         | mg/L                          | <2  | 20                         | No                  |



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|   |                               |  |  |                                    |                            |
|---|-------------------------------|--|--|------------------------------------|----------------------------|
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| Total Suspended Solids  |                               | mg/L   | <2   | 30                                 | No                         |
| Sample date: 03/09/2024   | Analysis obtained: 16/09/2024 | Data published: 17/09/2024   |  |                                    |                            |
|   | <b>Pollutant</b>              | <b>Units</b>   | <b>Measurement</b>                         | <b>Limit</b>                       | <b>Exceedance (Yes/No)</b> |
| Monitoring Point 1  | Oil and Grease                | mg/L   | <5   | 10                                 | No                         |
|   | pH                            | -  | 8.1  | 6.5-8.5                            | No                         |
|   | BOD5                          | mg/L   | 2  | 20                                 | No                         |
|   | Total Suspended Solids        | mg/L   | 4  | 30                                 | No                         |
|   | Conductivity                  | µS/cm  | 761  | -                                  | No                         |
|   | Faecal Coliforms              | cfu/100ml  | ~20  | -                                  | No                         |
|   | Nitrate + Nitrite             | mg/L   | 0.05                                       | -                                  | No                         |
|   | Nitrogen (ammonia)            | mg/L   | 0.31                                       | -                                  | No                         |
|   | Phosphorus (total)            | mg/L   | 8.56                                       | -                                  | No                         |
|   | Total Kjeldhal Nitrogen       | mg/L   | 2  | -                                  | No                         |
|   | Chlorophyll 'a'               | µg/L   | 5  | -                                  | No                         |
| Monitoring Point 2  | pH                            | -  | 7.9  | 6.5-8.5                            | No                         |
|   | BOD5                          | mg/L   | 3  | 20                                 | No                         |
|   | Total Suspended Solids        | mg/L   | 3  | 30                                 | No                         |
| Sample date: 1/10/2024  | Analysis obtained: 14/10/2024 | Data published: 15/10/2024   |  |                                    |                            |
|   | <b>Pollutant</b>              | <b>Units</b>   | <b>Measurement</b>                         | <b>Limit</b>                       | <b>Exceedance (Yes/No)</b> |
| Monitoring Point 1  | Oil and Grease                | mg/L   | <5   | 10                                 | No                         |
|   | pH                            | -  | 8.8  | 6.5-8.5                            | Yes                        |
|   | BOD5                          | mg/L   | 3  | 20                                 | No                         |
|   | Total Suspended Solids        | mg/L   | 4  | 30                                 | No                         |
|   | Conductivity                  | µS/cm  | 789  | -                                  | No                         |
|   | Faecal Coliforms              | cfu/100ml  | ~4   | -                                  | No                         |
|   | Nitrate + Nitrite             | mg/L   | 0.02                                       | -                                  | No                         |
|   | Nitrogen (ammonia)            | mg/L   | <0.10                                      | -                                  | No                         |
|   | Phosphorus (total)            | mg/L   | 6.23                                       | -                                  | No                         |
|   | Total Kjeldhal Nitrogen       | mg/L   | 1.6  | -                                  | No                         |
|   | Chlorophyll 'a'               | µg/L   | 7  | -                                  | No                         |
| Monitoring Point 2  | pH                            | -  | 7.9  | 6.5-8.5                            | No                         |
|   | BOD5                          | mg/L   | 3  | 20                                 | No                         |
|   | Total Suspended Solids        | mg/L   | 4  | 30                                 | No                         |
| <b>Licence Limit Conditions</b>   |                               |  |  |                                    |                            |
| <b>L2: Concentration Limits</b>   |                               |  |  |                                    |                            |
|   | <b>Pollutant</b>              | <b>Units</b>   | <b>90 percentile (calculated - annual)</b> | <b>90 percentile licence limit</b> | <b>Exceedance (Yes/No)</b> |
| Monitoring Point 1  | BOD5                          | mg/L   | 20   |                                    |                            |
|   | Oil & Grease                  | mg/L   | 10   |                                    |                            |
|   | pH                            | -  | 6.5 - 8.5                                  |                                    |                            |
|   | Total Suspended Solids        | mg/L   | 30   |                                    |                            |
| <b>L3: Volume and Mass Limits</b>   |                               |  |  |                                    |                            |
|   | <b>Pollutant</b>              | <b>Units</b>   | <b>Limit</b>                               | <b>Days/year over limit</b>        |                            |
| Monitoring point 1  | Effluent Volume               | kL/day   | 480  |                                    |                            |
| <b>Comments:</b>  |                               |  |  |                                    |                            |

**Note:** Monthly reporting periods are excluded from the Licence Concentration Limits Conditions if:  
 analysis of Monitoring Point 1 exceed 50 µm/L and  
 during the exceedance complies with the quality limit

a) Chlorophyll 'a' levels during that months  
 b) the liquid waste entering the maturation ponds (Monitoring Point 2)