

# WWTP Effluent Monitoring

## Annual Summary

31/03/2012 to 30/11/2024



### \*Notes regarding Licence Limits

A single number denotes a maximum value that should not be exceeded.

Two numbers separated by a slash " / " denote a 90% limit and a maximum limit.

Two numbers separated by a dash " - " denote minimum and maximum limits.

### 90 percentiles explained

Within a licence for each pollutant listed by the EPA, it will have a limit value. This value may be a 100 percentile limit where samples must meet the limit value 100% of the time. Lower limits may also be assigned.

Where there are limit values lower than a 100% limit a sample or samples test results can exceed the limit value. For example, if a 90 percentile limit is assigned to a pollutant, this means 90% of collected samples should meet the limit value. If 10 samples are required in a year only one sample of the ten samples for the year is allowed to exceed the 90 percentile limit value. If more than one sample exceeds this value this would be a non-compliance of the licence conditions.

**Treatment Plant: Tyalgum**

**EPA Licence Number: 3470**

**License Year: 27 July to 26 July**

Monitoring Point: TyWWTP/Effluent

EPA Point: Point 3

| Summary Period                                | Pollutant                | Units      | Count | Min  | Max  | Mean  | 90% Value | Limits* | Exceedance |
|---|--------------------------|------------|-------|------|------|-------|-----------|---------|------------|
| 27/07/2011 to 26/07/2012<br>Published: 09 Aug | BOD5                     | mg/L       | 9     | <1.0 | 14.0 | 3.61  | 8.08      | 25 / 40 | No         |
|   | Oil & Grease             | mg/L       | 9     | <2   | 5    | 2     | 3.4       | 10      | No         |
|   | Suspended Solids         | mg/L       | 9     | 2.2  | 45.0 | 13.21 | 33.8      | 50 / 75 | No         |
|   | Thermotolerant Coliforms | cfu/100 ml | 9     | <10  | 310  | 119   | 278.0     | na      | -          |
|   | Total Nitrogen           | mg/L       | 9     | 2.12 | 3.44 | 2.58  | 2.968     | na      | -          |
|   | Total Phosphorus         | mg/L       | 9     | 0.55 | 1.27 | 0.8   | 1.19      | na      | -          |
| 27/07/2012 to 26/07/2013<br>Published: 08 Aug | BOD5                     | mg/L       | 26    | 1.0  | 14.0 | 3.6   | 8.2       | 25 / 40 | No         |
|   | Oil & Grease             | mg/L       | 26    | <2   | <2   | 2     | 0.0       | 10      | No         |
|   | Suspended Solids         | mg/L       | 26    | 3.0  | 58.0 | 15.87 | 34.0      | 50 / 75 | No         |
|   | Thermotolerant Coliforms | cfu/100 ml | 26    | 5    | 940  | 272   | 620.0     | na      | -          |
|   | Total Nitrogen           | mg/L       | 26    | 1.04 | 4.34 | 2.17  | 3.345     | na      | -          |
|   | Total Phosphorus         | mg/L       | 26    | 0.38 | 3.31 | 1.62  | 3.285     | na      | -          |
| 27/07/2013 to 26/07/2014<br>Published: 12 Aug | BOD5                     | mg/L       | 26    | <1.0 | 22.0 | 7.18  | 14.0      | 25 / 40 | No         |
|   | Oil & Grease             | mg/L       | 26    | <2   | 4    | 2     | 1.5       | 10      | No         |
|   | Suspended Solids         | mg/L       | 26    | 14   | 72   | 34    | 57.0      | 50 / 75 | Yes        |
|   | Thermotolerant Coliforms | cfu/100 ml | 26    | 90   | 920  | 259   | 405.0     | na      | -          |
|   | Total Nitrogen           | mg/L       | 26    | 1.89 | 5.28 | 3.5   | 4.75      | na      | -          |
|   | Total Phosphorus         | mg/L       | 26    | 0.51 | 3.78 | 1.79  | 3.3       | na      | -          |

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| Summary Period                                    | Pollutant                | Units      | Count | Min  | Max  | Mean  | 90% Value | Limits* | Exceedance |
|---|--------------------------|------------|-------|------|------|-------|-----------|---------|------------|
| 27/07/2014 to 26/07/2015<br><br>Published: 06 Aug | BOD5                     | mg/L       | 26    | 3.0  | 26.0 | 9.7   | 18.5      | 25 / 40 | No         |
|   | Oil & Grease             | mg/L       | 26    | <2.0 | 9.0  | 2.83  | 4.5       | 10      | No         |
|   | Suspended Solids         | mg/L       | 26    | 18   | 152  | 56    | 117.0     | 50 / 75 | Yes        |
|   | Thermotolerant Coliforms | cfu/100 ml | 26    | <10  | 860  | 234   | 425.0     | na      | -          |
|   | Total Nitrogen           | mg/L       | 26    | 1.53 | 5.81 | 2.96  | 4.955     | na      | -          |
|   | Total Phosphorus         | mg/L       | 26    | 1.04 | 4.78 | 2.8   | 4.49      | na      | -          |
| 27/07/2015 to 26/07/2016<br><br>Published: 11 Aug | BOD5                     | mg/L       | 26    | 1.8  | 8.4  | 4.89  | 7.35      | 25 / 40 | No         |
|   | Oil & Grease             | mg/L       | 26    | <2   | 5    | 2     | 2.5       | 10      | No         |
|   | Suspended Solids         | mg/L       | 26    | 5.8  | 49.0 | 22.12 | 38.0      | 50 / 75 | No         |
|   | Thermotolerant Coliforms | cfu/100 ml | 26    | <10  | 6800 | 814   | 2070.0    | na      | -          |
|   | Total Nitrogen           | mg/L       | 26    | 1.37 | 5.48 | 2.65  | 4.11      | na      | -          |
|   | Total Phosphorus         | mg/L       | 26    | 0.5  | 2.65 | 1.62  | 2.34      | na      | -          |
| 27/07/2016 to 26/07/2017<br><br>Published: 02 Aug | BOD5                     | mg/L       | 26    | 2.4  | 15.9 | 8.69  | 12.0      | 25 / 40 | No         |
|   | Oil & Grease             | mg/L       | 26    | <2   | 4    | 2     | 3.0       | 10      | No         |
|   | Suspended Solids         | mg/L       | 26    | 18.5 | 68.0 | 33.4  | 49.5      | 50 / 75 | No         |
|   | Thermotolerant Coliforms | cfu/100 ml | 26    | 50   | 2720 | 503   | 1275.0    | na      | -          |
|   | Total Nitrogen           | mg/L       | 26    | 1.42 | 6.27 | 2.66  | 3.375     | na      | -          |
|   | Total Phosphorus         | mg/L       | 26    | 0.36 | 4.3  | 1.92  | 3.795     | na      | -          |
| 27/07/2017 to 26/07/2018<br><br>Published: 01 Aug | BOD5                     | mg/L       | 26    | <1.0 | 12.6 | 5.8   | 10.1      | 25 / 40 | No         |
|   | Oil & Grease             | mg/L       | 26    | <2.0 | 3.4  | 2.21  | 3.0       | 10      | No         |
|   | Suspended Solids         | mg/L       | 26    | 6.3  | 51.0 | 27.41 | 43.0      | 50 / 75 | No         |
|   | Thermotolerant Coliforms | cfu/100 ml | 26    | 30   | 4500 | 576   | 1350.0    | na      | -          |
|   | Total Nitrogen           | mg/L       | 26    | 1.63 | 6.65 | 3.33  | 5.04      | na      | -          |
|   | Total Phosphorus         | mg/L       | 26    | 0.43 | 2.0  | 1.06  | 1.655     | na      | -          |

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| Summary Period                                    | Pollutant                  | Units      | Count | Min  | Max   | Mean  | 90% Value | Limits* | Exceedance |
|---|----------------------------|------------|-------|------|-------|-------|-----------|---------|------------|
| 27/07/2018 to 26/07/2019<br><br>Published: 12 Aug | BOD5                       | mg/L       | 26    | 2.0  | 21.9  | 8.96  | 15.8      | 25 / 40 | No         |
|   | Oil & Grease               | mg/L       | 26    | <2.0 | 3.6   | 2.19  | 2.45      | 10      | No         |
|   | Suspended Solids           | mg/L       | 26    | 6.3  | 64.0  | 32.29 | 53.5      | 50 / 75 | Yes        |
|   | Suspended Solids Corrected | mg/L       | 1     | 11.9 | 11.9  | 11.9  | 11.9      | 50 / 75 | No         |
|   | Thermotolerant Coliforms   | cfu/100 ml | 26    | 10   | 2720  | 596   | 1424.0    | na      | -          |
|   | Total Nitrogen             | mg/L       | 26    | 1.94 | 7.93  | 4.14  | 6.17      | na      | -          |
|   | Total Phosphorus           | mg/L       | 26    | 0.7  | 3.16  | 1.73  | 2.66      | na      | -          |
| 27/07/2019 to 26/07/2020<br><br>Published: 12 Aug | BOD5                       | mg/L       | 26    | 3.6  | 33.0  | 13.3  | 21.0      | 25 / 40 | No         |
|   | Oil & Grease               | mg/L       | 26    | <2   | 8     | 3     | 4.0       | 10      | No         |
|   | Suspended Solids           | mg/L       | 26    | 5.5  | 140.0 | 61.06 | 119.0     | 50 / 75 | Yes        |
|   | Thermotolerant Coliforms   | cfu/100 ml | 26    | 40   | 2800  | 1057  | 2070.0    | na      | -          |
|   | Total Nitrogen             | mg/L       | 26    | 1.64 | 7.78  | 4.55  | 7.0       | na      | -          |
|   | Total Phosphorus           | mg/L       | 26    | 0.02 | 3.52  | 1.8   | 3.135     | na      | -          |
| 27/07/2020 to 26/07/2021<br><br>Published: 09 Aug | BOD5                       | mg/L       | 26    | 2.1  | 32.0  | 12.14 | 20.0      | 25 / 40 | No         |
|   | Oil & Grease               | mg/L       | 26    | <2   | 5     | 3     | 4.0       | 10      | No         |
|   | Suspended Solids           | mg/L       | 26    | 15   | 110   | 52    | 86.0      | 50 / 75 | Yes        |
|   | Thermotolerant Coliforms   | cfu/100 ml | 26    | 160  | 31000 | 2444  | 4650.0    | na      | -          |
|   | Total Nitrogen             | mg/L       | 26    | 2.3  | 6.53  | 3.81  | 4.92      | na      | -          |
|   | Total Phosphorus           | mg/L       | 26    | 0.24 | 2.35  | 1.09  | 1.505     | na      | -          |
| 27/07/2021 to 26/07/2022<br><br>Published: 07 Sep | BOD5                       | mg/L       | 26    | <1.0 | 14.0  | 6.38  | 10.5      | 25 / 40 | No         |
|   | Oil & Grease               | mg/L       | 26    | <2   | 3     | 2     | 2.0       | 10      | No         |
|   | Suspended Solids           | mg/L       | 26    | 4.6  | 59.0  | 29.87 | 49.5      | 50 / 75 | No         |
|   | Thermotolerant Coliforms   | cfu/100 ml | 26    | 140  | 7080  | 1255  | 2300.0    | na      | -          |
|   | Total Nitrogen             | mg/L       | 26    | 1.59 | 5.66  | 3.16  | 4.7       | na      | -          |
|   | Total Phosphorus           | mg/L       | 26    | 0.08 | 0.95  | 0.46  | 0.905     | na      | -          |

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| Summary Period                                    | Pollutant                | Units      | Count | Min  | Max   | Mean  | 90% Value | Limits* | Exceedance |
|---|--------------------------|------------|-------|------|-------|-------|-----------|---------|------------|
| 27/07/2022 to 26/07/2023<br><br>Published: 02 Aug | BOD5                     | mg/L       | 27    | <1.0 | 25.0  | 7.39  | 14.0      | 25 / 40 | No         |
|   | Oil & Grease             | mg/L       | 27    | <2   | 3     | 2     | 0.8       | 10      | No         |
|   | Suspended Solids         | mg/L       | 27    | 3.7  | 142.0 | 44.02 | 87.2      | 50 / 75 | Yes        |
|   | Thermotolerant Coliforms | cfu/100 ml | 26    | 4    | 5600  | 1332  | 3680.0    | na      | -          |
|   | Total Nitrogen           | mg/L       | 27    | 1.72 | 7.67  | 3.36  | 5.632     | na      | -          |
|   | Total Phosphorus         | mg/L       | 27    | 0.09 | 1.81  | 0.48  | 0.688     | na      | -          |
| 27/07/2023 to 26/07/2024<br><br>Published: 05 Aug | BOD5                     | mg/L       | 26    | 1.5  | 27.0  | 8.74  | 16.0      | 25 / 40 | No         |
|   | Oil & Grease             | mg/L       | 26    | <2   | 3     | 2     | 1.0       | 10      | No         |
|   | Suspended Solids         | mg/L       | 26    | 4.5  | 106.0 | 36.65 | 85.5      | 50 / 75 | Yes        |
|   | Thermotolerant Coliforms | cfu/100 ml | 26    | <20  | 28200 | 5617  | 14920.0   | na      | -          |
|   | Total Nitrogen           | mg/L       | 26    | 1.67 | 10.8  | 3.84  | 5.54      | na      | -          |
|   | Total Phosphorus         | mg/L       | 26    | 0.05 | 4.17  | 1.35  | 2.465     | na      | -          |
| 27/07/2024 to 26/07/2025<br><br>Published: 11 Nov | BOD5                     | mg/L       | 6     | <1.0 | 16.0  | 6.23  | 11.9      | 25 / 40 | No         |
|   | Oil & Grease             | mg/L       | 6     | <2   | <2    | <2    | 0.0       | 10      | No         |
|   | Suspended Solids         | mg/L       | 6     | 1.3  | 60.0  | 23.38 | 51.5      | 50 / 75 | Yes        |
|   | Thermotolerant Coliforms | cfu/100 ml | 7     | 400  | 28400 | 6851  | 16976.0   | na      | -          |
|   | Total Nitrogen           | mg/L       | 6     | 1.91 | 6.09  | 3.5   | 5.165     | na      | -          |
|   | Total Phosphorus         | mg/L       | 6     | 0.25 | 3.53  | 1.57  | 2.595     | na      | -          |