

Winmalee Wastewater Treatment Plant

2023-24 Pollution monitoring yearly limit summaries



EPL 1963

Summary period: 01-07-2023 to 30-06-2024

Date published: 01-09-2024

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

| 50 percentile yearly summary | | | | | | | | |
|--|-----------------|---|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 4 Site code WM0004 | | Point description: Downstream of the chamber prior to discharge | | | | | | |
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | maximum result | 50 percentile limit | 50 percentile value | within limits |
| biochemical oxygen demand | mg/L | every 6 days | 61 | <2 | 11 | 10 | <2 | yes |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly | 12 | 100 | 100 | 50 | 100 | yes |
| nitrogen (ammonia) | mg/L | every 6 days | 30 | 0.02 | 4.41 | 2 | 0.16 | yes |
| nitrogen (ammonia) ¹ | mg/L | every 6 days | 31 | 0.01 | 5.58 | 0.9 | 0.02 | yes |
| nitrogen (total) | mg/L | every 6 days | 30 | 4.01 | 11.5 | 15 | 7.91 | yes |
| nitrogen (total) ¹ | mg/L | every 6 days | 31 | 1.16 | 8.95 | 6 | 3.22 | yes |
| phosphorus (total) | mg/L | every 6 days | 30 | 0.36 | 1.95 | 2 | 1.39 | yes |
| phosphorus (total) ¹ | mg/L | every 6 days | 31 | 0.03 | 0.75 | 1.5 | 0.12 | yes |
| total suspended solids | mg/L | every 6 days | 30 | <2 | 3 | 10 | <2 | yes |
| total suspended solids ¹ | mg/L | every 6 days | 31 | <2 | <2 | 5 | <2 | yes |

| 80 percentile yearly summary | | | | | | | | |
|---------------------------------|-----------------|---|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 4 Site code WM0004 | | Point description: Downstream of the chamber prior to discharge | | | | | | |
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | maximum result | 80 percentile limit | 80 percentile value | within limits |
| faecal coliforms | CFU/100mL | every 6 days | 61 | <1 | 140 | 200 | 10 | yes |

¹ Winmalee LVA approved 01/01/2024 resulting in 50th percentile limit changes to ammonia-nitrogen, total nitrogen, total phosphorus and total suspended solids.

Winmalee Wastewater Treatment Plant

2023-24 Pollution monitoring yearly limit summaries



EPL 1963

Summary period: 01-07-2023 to 30-06-2024

Date published: 01-09-2024

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

| 90 percentile yearly summary | | | | | | | | |
|---------------------------------|---|--------------------|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 4 Site code WM0004 | Point description: Downstream of the chamber prior to discharge | | | | | | | |
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | maximum result | 90 percentile limit | 90 percentile value | within limits |
| aluminium | ug/L | monthly | 12 | 13 | 75 | 270 | 73 | yes |
| biochemical oxygen demand | mg/L | every 6 days | 61 | <2 | 11 | 15 | <2 | yes |
| chlorine (total residual) | mg/L | every 6 days | 61 | <0.04 | <0.04 | 0.1 | <0.04 | yes |
| copper | ug/L | monthly | 12 | 2 | 3.8 | 9 | 2.8 | yes |
| diazinon | ug/L | monthly | 12 | <0.1 | <0.1 | 0.1 | <0.1 | yes |
| iron | ug/L | monthly | 12 | 14 | 114 | 880 | 103 | yes |
| nitrogen (ammonia) | mg/L | every 6 days | 61 | 0.01 | 5.58 | 5 | 2.55 | yes |
| nitrogen (total) | mg/L | every 6 days | 30 | 4.01 | 11.5 | 20 | 10.3 | yes |
| nitrogen (total) ² | mg/L | every 6 days | 31 | 1.16 | 8.95 | 12 | 5.76 | yes |
| phosphorus (total) | mg/L | every 6 days | 61 | 0.03 | 1.95 | 3 | 1.74 | yes |
| total suspended solids | mg/L | every 6 days | 61 | <2 | 3 | 15 | <2 | yes |
| zinc | ug/L | monthly | 12 | 9 | 28 | 33 | 18 | yes |

² Winmalee LVA approved 01/01/2024 resulting in 90th percentile limit changes to total nitrogen.

Winmalee Wastewater Treatment Plant

2023-24 Pollution monitoring yearly limit summaries



EPL 1963

Summary period: 01-07-2023 to 30-06-2024

Date published: 01-09-2024

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

| Average yearly summary | | | | | | | | |
|---------------------------------|-----------------|---|-------------------|----------------|----------------|---------------|---------------|---------------|
| EPA Point 4 Site code WM0004 | | Point description: Downstream of the chamber prior to discharge | | | | | | |
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | maximum result | Average Limit | Average value | within limits |
| aluminium | ug/L | monthly | 12 | 13 | 75 | 190 | 34 | yes |
| copper | ug/L | monthly | 12 | 2 | 3.8 | 7 | 2.5 | yes |
| diazinon | ug/L | monthly | 12 | <0.1 | <0.1 | 0.2 | <0.1 | yes |
| iron | ug/L | monthly | 12 | 14 | 114 | 650 | 61 | yes |
| zinc | ug/L | monthly | 12 | 9 | 28 | 25 | 14 | yes |