

Hornsby Heights Wastewater Treatment Plant

2020-21 Pollution monitoring yearly limit summaries



EPL 750

Summary period: 01-07-2020 to 30-06-2021

Date published: 13-08-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

| 50 percentile yearly summary | | | | | | | | |
|--|-----------------|--|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 5 Site code HH0005 | | Point description: Downstream of the disinfection facilities | | | | | | |
| 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 | 51 | <2 | 40 | 10 | <2 | yes |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly | 12 | 100 | 100 | 50 | 100 | yes |
| nitrogen (ammonia) | mg/L | every 6 days | 61 | 0.01 | 4.34 | 0.9 | 0.01 | yes |
| nitrogen (total) | mg/L | every 6 days | 61 | 2.11 | 14.2 | 10 | 5.83 | yes |
| phosphorus (total) | mg/L | every 6 days | 61 | 0.02 | 2.4 | 0.3 | 0.09 | yes |
| total suspended solids | mg/L | every 6 days | 61 | <2 | 79 | 5 | <2 | yes |

| 80 percentile yearly summary | | | | | | | | |
|---------------------------------|-----------------|--|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 5 Site code HH0005 | | Point description: Downstream of the disinfection facilities | | | | | | |
| 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 | 100,000 | 200 | 5 | yes |

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| 90 percentile yearly summary | | | | | | | | |
|---------------------------------|--|--------------------|-------------------|----------------|----------------|---------------------|---------------------|---------------|
| EPA Point 5 Site code HH0005 | Point description: Downstream of the disinfection facilities | | | | | | | |
| 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 | 6 | 2,330 | 1,100 | 46 | yes |
| biochemical oxygen demand | mg/L | every 6 days | 51 | <2 | 40 | 15 | <2 | yes |
| cobalt | ug/L | monthly | 2 | 0.4 | 0.4 | - | 0.4 | n/a |
| copper | ug/L | monthly | 12 | 1.8 | 29 | 12 | 7.9 | yes |
| cyanide | ug/L | monthly | 2 | <5 | <5 | - | <5 | n/a |
| diazinon | ug/L | monthly | 12 | <0.1 | <0.1 | 0.1 | <0.1 | yes |
| hydrogen sulphide (unionised) | ug/L | monthly | 12 | <30 | <30 | 60 | <30 | yes |
| iron | ug/L | monthly | 12 | 23 | 1,650 | 1,900 | 73 | yes |
| nickel | ug/L | monthly | 2 | 2.3 | 2.4 | 15.7 | 2.4 | yes |
| nitrogen (ammonia) | mg/L | every 6 days | 61 | 0.01 | 4.34 | 1.4 | 0.21 | yes |
| nitrogen (total) | mg/L | every 6 days | 61 | 2.11 | 14.2 | 15 | 10.1 | yes |
| phosphorus (total) | mg/L | every 6 days | 61 | 0.02 | 2.4 | 1 | 0.31 | yes |
| total suspended solids | mg/L | every 6 days | 61 | <2 | 79 | 10 | <2 | yes |
| zinc | ug/L | monthly | 12 | 13 | 52 | 42 | 32 | yes |

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| Average yearly summary | | | | | | | | |
|---------------------------------|--|--------------------|-------------------|----------------|----------------|---------------|---------------|---------------|
| EPA Point 5 Site code HH0005 | Point description: Downstream of the disinfection facilities | | | | | | | |
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | maximum result | Average Limit | Average value | within limits |
| aluminium | ug/L | monthly | 12 | 6 | 2,330 | 420 | 211 | yes |
| cobalt | ug/L | monthly | 2 | 0.4 | 0.4 | - | 0.4 | n/a |
| copper | ug/L | monthly | 12 | 1.8 | 29 | 8 | 6 | yes |
| cyanide | ug/L | monthly | 2 | <5 | <5 | - | <5 | n/a |
| diazinon | ug/L | monthly | 12 | <0.1 | <0.1 | 0.2 | <0.1 | yes |
| hydrogen sulphide (unionised) | ug/L | monthly | 12 | <30 | <30 | 30 | <30 | yes |
| iron | ug/L | monthly | 12 | 23 | 1,650 | 520 | 175 | yes |
| nickel | ug/L | monthly | 2 | 2.3 | 2.4 | 12 | 2 | yes |
| zinc ² | ug/L | monthly | 12 | 13 | 52 | 19 | 23 | no |

²The Total Zinc average concentration exceedance was largely influenced by wet weather flows received by the facility, in particular the significant wet weather event experienced from 19th March 2021.

Effluent quality monitoring results obtained from EPA Point 5 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

Note: Sydney Water commenced monitoring of biochemical oxygen demand from 1st September 2020. Historically, carbonaceous biochemical oxygen demand was monitored.