

Richmond Wastewater Treatment Plant

June Pollution Monitoring Summary



EPL 1726

Summary period: 01-06-2022 to 30-06-2022

Date obtained: 07-07-2022

Date published: 15-07-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 5 | <2 | <2 | 6 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 5 | <2 | <2 | 6 |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly during discharge | 1 | - | - | 100 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 5 | <0.04 | <0.04 | <0.04 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 5 | 2 | 4 | 6 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 5 | <0.1 | <0.1 | <0.1 |
| nitrogen (total) | mg/L | every 6 days during discharge | 5 | 6.66 | 7.6 | 8.17 |
| phosphorus (total) | mg/L | every 6 days during discharge | 5 | 0.02 | 0.02 | 0.03 |
| total suspended solids | mg/L | every 6 days during discharge | 5 | <2 | <2 | <2 |
| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 5 | 1.16 | 1.26 | 1.33 |
| faecal coliforms | CFU/100mL | every 6 days | 5 | <1 | <1 | <1 |
| nitrogen (ammonia) | mg/L | every 6 days | 5 | 0.01 | 0.01 | 0.01 |
| nitrogen (total) | mg/L | every 6 days | 5 | 6.51 | 7.01 | 7.37 |
| phosphorus (total) | mg/L | every 6 days | 5 | 0.02 | 0.02 | 0.03 |
| total suspended solids | mg/L | every 6 days | 5 | <2 | <2 | <2 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

May Pollution Monitoring Summary



EPL 1726

Summary period: 01-05-2022 to 31-05-2022

Date obtained: 12-06-2022

Date published: 22-06-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|--|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 6 | <2 | 2.33 | 11 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 6 | <2 | 2 | 10 |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly during discharge | 1 | - | - | 100 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 6 | <0.04 | <0.04 | 0.2 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 6 | 1 | 15 | 45 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 6 | <0.1 | <0.1 | 0.1 |
| nitrogen (total) | mg/L | every 6 days during discharge | 6 | 5.54 | 6.74 | 8.64 |
| phosphorus (total) | mg/L | every 6 days during discharge | 6 | 0.02 | 0.02 | 0.02 |
| total suspended solids | mg/L | every 6 days during discharge | 6 | <2 | <2 | 4 |

| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 6 | 0.58 | 1.82 | 4.9 |
| faecal coliforms | CFU/100mL | every 6 days | 6 | <1 | <1 | <1 |
| nitrogen (ammonia) | mg/L | every 6 days | 5 | <0.01 | <0.01 | 0.01 |
| nitrogen (total) | mg/L | every 6 days | 5 | 4.8 | 6.25 | 7.27 |
| phosphorus (total) | mg/L | every 6 days | 5 | 0.02 | 0.02 | 0.03 |
| total suspended solids | mg/L | every 6 days | 5 | <2 | <2 | 6 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

April Pollution Monitoring Summary



EPL 1726

Summary period: 01-04-2022 to 30-04-2022

Date obtained: 09-05-2022

Date published: 20-05-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|--|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 5 | <2 | <2 | 4 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 5 | <2 | <2 | 3 |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly during discharge | 1 | - | - | 100 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 5 | <0.04 | <0.04 | <0.04 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 5 | 7 | 21 | 47 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 5 | <0.1 | <0.1 | 0.1 |
| nitrogen (total) | mg/L | every 6 days during discharge | 5 | 5.72 | 6.83 | 8.75 |
| phosphorus (total) | mg/L | every 6 days during discharge | 5 | 0.02 | 0.03 | 0.04 |
| total suspended solids | mg/L | every 6 days during discharge | 5 | <2 | <2 | 2 |

| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 5 | 0.8 | 1.19 | 1.47 |
| faecal coliforms | CFU/100mL | every 6 days | 5 | <1 | 1 | 5 |
| nitrogen (ammonia) | mg/L | every 6 days | 5 | 0.01 | 0.08 | 0.21 |
| nitrogen (total) | mg/L | every 6 days | 5 | 4.07 | 5.7 | 6.77 |
| phosphorus (total) | mg/L | every 6 days | 5 | 0.02 | 0.03 | 0.04 |
| total suspended solids | mg/L | every 6 days | 5 | <2 | <2 | <2 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

March Pollution Monitoring Summary



EPL 1726

Summary period: 01-03-2022 to 31-03-2022

Date obtained: 08-04-2022

Date published: 15-04-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|--|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 5 | <2 | <2 | 3 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 5 | <2 | <2 | <2 |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly during discharge | 1 | - | - | 100 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 5 | <0.04 | <0.04 | 0.06 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 5 | 14 | 151 | 420 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 5 | <0.1 | <0.1 | <0.1 |
| nitrogen (total) | mg/L | every 6 days during discharge | 5 | 2.69 | 5.03 | 6.46 |
| phosphorus (total) | mg/L | every 6 days during discharge | 5 | 0.03 | 0.06 | 0.12 |
| total suspended solids | mg/L | every 6 days during discharge | 5 | <2 | 2 | 5 |

| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 6 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 6 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 5 | 1.47 | 1.57 | 1.78 |
| faecal coliforms | CFU/100mL | every 6 days | 5 | <1 | <1 | 1 |
| nitrogen (ammonia) | mg/L | every 6 days | 6 | <0.01 | 0.09 | 0.51 |
| nitrogen (total) | mg/L | every 6 days | 6 | 3.16 | 5.19 | 6.95 |
| phosphorus (total) | mg/L | every 6 days | 6 | 0.03 | 0.05 | 0.1 |
| total suspended solids | mg/L | every 6 days | 6 | <2 | <2 | 3 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

February Pollution Monitoring Summary



EPL 1726

Summary period: 01-02-2022 to 28-02-2022

Date obtained: 11-03-2022

Date published: 23-03-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|--|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 4 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 4 | <2 | <2 | <2 |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly during discharge | 1 | - | - | 100 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 4 | <0.04 | 0.83 | 3.3 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 4 | <1 | 18 | 51 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 4 | <0.1 | 0.4 | 1.6 |
| nitrogen (total) | mg/L | every 6 days during discharge | 4 | 5.66 | 6.96 | 7.78 |
| phosphorus (total) | mg/L | every 6 days during discharge | 4 | 0.02 | 0.02 | 0.03 |
| total suspended solids | mg/L | every 6 days during discharge | 4 | <2 | <2 | <2 |

| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 4 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 4 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 4 | 1.03 | 2.98 | 8 |
| faecal coliforms | CFU/100mL | every 6 days | 4 | <1 | <1 | 1 |
| nitrogen (ammonia) | mg/L | every 6 days | 4 | <0.01 | 0.06 | 0.21 |
| nitrogen (total) | mg/L | every 6 days | 4 | 5.26 | 6.62 | 7.87 |
| phosphorus (total) | mg/L | every 6 days | 4 | 0.02 | 0.03 | 0.03 |
| total suspended solids | mg/L | every 6 days | 4 | <2 | <2 | <2 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

January Pollution Monitoring Summary



EPL 1726

Summary period: 01-01-2022 to 31-01-2022

Date obtained: 08-02-2022

Date published: 11-02-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 6 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 6 | <2 | <2 | <2 |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly during discharge | 1 | - | - | 100 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 6 | <0.04 | <0.04 | <0.04 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 6 | 4 | 74 | 200 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 6 | <0.1 | <0.1 | <0.1 |
| nitrogen (total) | mg/L | every 6 days during discharge | 6 | 4.63 | 6.78 | 7.94 |
| phosphorus (total) | mg/L | every 6 days during discharge | 6 | 0.02 | 0.03 | 0.04 |
| total suspended solids | mg/L | every 6 days during discharge | 6 | <2 | <2 | 2 |
| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 6 | 0.82 | 1.44 | 1.83 |
| faecal coliforms | CFU/100mL | every 6 days | 6 | <1 | <1 | <1 |
| nitrogen (ammonia) | mg/L | every 6 days | 5 | <0.01 | 0.06 | 0.29 |
| nitrogen (total) | mg/L | every 6 days | 5 | 4.12 | 8.35 | 18 |
| phosphorus (total) | mg/L | every 6 days | 5 | 0.02 | 0.03 | 0.04 |
| total suspended solids | mg/L | every 6 days | 5 | <2 | <2 | <2 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

December Pollution Monitoring Summary



EPL 1726

Summary period: 01-12-2021 to 31-12-2021

Date obtained: 10-01-2022

Date published: 20-01-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|--|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 4 | <2 | <2 | 7 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 4 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 4 | <0.04 | <0.04 | <0.04 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 4 | 1 | 21 | 52 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 4 | <0.1 | <0.1 | <0.1 |
| nitrogen (total) | mg/L | every 6 days during discharge | 4 | 5.65 | 6.91 | 8.34 |
| phosphorus (total) | mg/L | every 6 days during discharge | 4 | 0.03 | 0.04 | 0.07 |
| total suspended solids | mg/L | every 6 days during discharge | 4 | <2 | <2 | 3 |

| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 6 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 6 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 5 | 1.32 | 1.61 | 1.92 |
| faecal coliforms | CFU/100mL | every 6 days | 5 | <1 | <1 | <1 |
| nitrogen (ammonia) | mg/L | every 6 days | 6 | <0.01 | 0.02 | 0.06 |
| nitrogen (total) | mg/L | every 6 days | 6 | 4.93 | 6.64 | 7.88 |
| phosphorus (total) | mg/L | every 6 days | 6 | 0.03 | 0.04 | 0.08 |
| total suspended solids | mg/L | every 6 days | 6 | <2 | <2 | 3 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

November Pollution Monitoring Summary



EPL 1726

Summary period: 01-11-2021 to 30-11-2021

Date obtained: 07-12-2021

Date published: 17-12-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 5 | <2 | <2 | <2 |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly during discharge | 1 | - | - | 100 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 5 | <0.04 | <0.04 | <0.04 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 5 | 5 | 14 | 31 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 5 | <0.1 | 0.18 | 0.9 |
| nitrogen (total) | mg/L | every 6 days during discharge | 5 | 4.97 | 6 | 6.85 |
| phosphorus (total) | mg/L | every 6 days during discharge | 5 | 0.02 | 0.04 | 0.09 |
| total suspended solids | mg/L | every 6 days during discharge | 5 | <2 | <2 | 2 |
| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 5 | 1.18 | 2.45 | 4.6 |
| faecal coliforms | CFU/100mL | every 6 days | 5 | <1 | <1 | <1 |
| nitrogen (ammonia) | mg/L | every 6 days | 5 | <0.01 | 0.05 | 0.2 |
| nitrogen (total) | mg/L | every 6 days | 5 | 4.88 | 5.49 | 6.62 |
| phosphorus (total) | mg/L | every 6 days | 5 | 0.02 | 0.03 | 0.04 |
| total suspended solids | mg/L | every 6 days | 5 | <2 | <2 | <2 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

October Pollution Monitoring Summary



EPL 1726

Summary period: 01-10-2021 to 31-10-2021

Date obtained: 05-11-2021

Date published: 12-11-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|--|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 1 | - | - | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 1 | - | - | <2 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 1 | - | - | <0.04 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 1 | - | - | 90 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 1 | - | - | <0.1 |
| nitrogen (total) | mg/L | every 6 days during discharge | 1 | - | - | 6.57 |
| phosphorus (total) | mg/L | every 6 days during discharge | 1 | - | - | 0.02 |
| total suspended solids | mg/L | every 6 days during discharge | 1 | - | - | <2 |

| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 5 | 1.34 | 1.62 | 2.1 |
| faecal coliforms | CFU/100mL | every 6 days | 5 | <1 | <1 | <1 |
| nitrogen (ammonia) | mg/L | every 6 days | 5 | 0.01 | 0.37 | 1.81 |
| nitrogen (total) | mg/L | every 6 days | 5 | 5.47 | 6.69 | 9.44 |
| phosphorus (total) | mg/L | every 6 days | 5 | 0.02 | 0.03 | 0.05 |
| total suspended solids | mg/L | every 6 days | 5 | <2 | <2 | <2 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

September Pollution Monitoring Summary



EPL 1726

Summary period: 01-09-2021 to 30-09-2021

Date obtained: 06-10-2021

Date published: 13-10-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 3 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 3 | <2 | <2 | <2 |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly during discharge | 1 | - | - | 100 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 3 | <0.04 | <0.04 | <0.04 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 3 | 2 | 4 | 5 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 3 | <0.1 | <0.1 | <0.1 |
| nitrogen (total) | mg/L | every 6 days during discharge | 3 | 4.98 | 5.87 | 6.57 |
| phosphorus (total) | mg/L | every 6 days during discharge | 3 | 0.02 | 0.02 | 0.03 |
| total suspended solids | mg/L | every 6 days during discharge | 3 | <2 | <2 | <2 |
| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 5 | 1.41 | 1.52 | 1.65 |
| faecal coliforms | CFU/100mL | every 6 days | 5 | <1 | <1 | 1 |
| nitrogen (ammonia) | mg/L | every 6 days | 5 | <0.01 | <0.01 | 0.01 |
| nitrogen (total) | mg/L | every 6 days | 5 | 4.55 | 5.15 | 5.97 |
| phosphorus (total) | mg/L | every 6 days | 5 | 0.02 | 0.03 | 0.04 |
| total suspended solids | mg/L | every 6 days | 5 | <2 | <2 | <2 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

August Pollution Monitoring Summary



EPL 1726

Summary period: 01-08-2021 to 31-08-2021

Date obtained: 06-09-2021

Date published: 13-09-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|--|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 2 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 2 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 2 | <0.04 | <0.04 | <0.04 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 2 | 22 | 38 | 54 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 2 | <0.1 | <0.1 | <0.1 |
| nitrogen (total) | mg/L | every 6 days during discharge | 2 | 5.89 | 6.71 | 7.53 |
| phosphorus (total) | mg/L | every 6 days during discharge | 2 | 0.03 | 0.03 | 0.03 |
| total suspended solids | mg/L | every 6 days during discharge | 2 | <2 | <2 | <2 |

| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 5 | 1.34 | 1.49 | 1.61 |
| faecal coliforms | CFU/100mL | every 6 days | 5 | <1 | <1 | <1 |
| nitrogen (ammonia) | mg/L | every 6 days | 5 | <0.01 | 0.01 | 0.03 |
| nitrogen (total) | mg/L | every 6 days | 5 | 5.84 | 6.75 | 7.24 |
| phosphorus (total) | mg/L | every 6 days | 5 | 0.02 | 0.03 | 0.04 |
| total suspended solids | mg/L | every 6 days | 5 | <2 | <2 | <2 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).

Richmond Wastewater Treatment Plant

July Pollution Monitoring Summary



EPL 1726

Summary period: 01-07-2021 to 31-07-2021

Date obtained: 05-08-2021

Date published: 18-08-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: Routine monitoring data

| EPA Point 16 Site code RM0016 | | Point description: Outlet of dechlorination tank | | | | |
|--|-----------------|--|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days during discharge | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days during discharge | 5 | <2 | <2 | <2 |
| Ceriodaphnia dubia immobilisation (EC50) | % Effluent/Vol | monthly during discharge | 1 | - | - | 100 |
| chlorine (total residual) | mg/L | every 6 days during discharge | 5 | <0.04 | <0.04 | <0.04 |
| faecal coliforms | CFU/100mL | every 6 days during discharge | 5 | 26 | 30 | 33 |
| nitrogen (ammonia) | mg/L | every 6 days during discharge | 5 | <0.1 | <0.1 | <0.1 |
| nitrogen (total) | mg/L | every 6 days during discharge | 5 | 6.52 | 6.99 | 8.33 |
| phosphorus (total) | mg/L | every 6 days during discharge | 5 | 0.02 | 0.03 | 0.03 |
| total suspended solids | mg/L | every 6 days during discharge | 5 | <2 | <2 | <2 |

| EPA Point 17 Site code RM0017 | | Point description: Inlet to recycled water pump station | | | | |
|--|-----------------|---|-------------------|----------------|-------------|----------------|
| pollutant | unit of measure | sampling frequency | number of samples | minimum result | mean result | maximum result |
| biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| carbonaceous biochemical oxygen demand | mg/L | every 6 days | 5 | <2 | <2 | <2 |
| chlorine (total residual) | mg/L | every 6 days | 5 | 1.14 | 1.35 | 1.55 |
| faecal coliforms | CFU/100mL | every 6 days | 5 | <1 | <1 | <1 |
| nitrogen (ammonia) | mg/L | every 6 days | 5 | <0.01 | <0.01 | 0.01 |
| nitrogen (total) | mg/L | every 6 days | 5 | 5.42 | 6.09 | 7.24 |
| phosphorus (total) | mg/L | every 6 days | 5 | 0.02 | 0.03 | 0.03 |
| total suspended solids | mg/L | every 6 days | 5 | <2 | <2 | <2 |

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Point 16 are used to indicate the quality of water discharged at EPA Point 12 (discharge to waters).