

# Richmond Wastewater Treatment Plant

## June Pollution Monitoring Summary



### EPL 1726

Summary period: 01-06-2018 to 30-06-2018

Date obtained: 05-07-2018

Date published: 11-07-2018

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days during discharge	2	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	1	-	-	100
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	3	4	4
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	5.68	6.35	7.02
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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
chlorine (total residual)	mg/L	every 6 days	5	0.67	1.45	1.93
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	5.25	6.02	6.65
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

# Richmond Wastewater Treatment Plant

## May Pollution Monitoring Summary



### EPL 1726

Summary period: 01-05-2018 to 31-05-2018

Date obtained: 05-06-2018

Date published: 13-06-2018

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.19	1.56	1.91
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	5.83	6.51	6.99
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

# Richmond Wastewater Treatment Plant

## April Pollution Monitoring Summary



### EPL 1726

Summary period: 01-04-2018 to 30-04-2018

Date obtained: 07-05-2018

Date published: 11-05-2018

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
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	-	-	150
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	-	-	<0.1
nitrogen (total)	mg/L	every 6 days during discharge	1	-	-	6.14
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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.12	1.38	1.67
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	5.28	6.99	7.89
phosphorus (total)	mg/L	every 6 days	5	0.03	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

# Richmond Wastewater Treatment Plant

## March Pollution Monitoring Summary



### EPL 1726

Summary period: 01-03-2018 to 31-03-2018

Date obtained: 10-04-2018

Date published: 13-04-2018

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days during discharge	3	<2	<2	<2
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	31	190	300
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	5.63	6.2	6.7
phosphorus (total)	mg/L	every 6 days during discharge	3	0.02	0.02	0.02
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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	6	0.68	1.27	1.74
faecal coliforms	CFU/100mL	every 6 days	6	<1	<1	2
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01
nitrogen (total)	mg/L	every 6 days	5	5.47	5.94	6.53
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

# Richmond Wastewater Treatment Plant

## February Pollution Monitoring Summary



### EPL 1726

Summary period: 01-02-2018 to 28-02-2018

Date obtained: 07-03-2018

Date published: 15-03-2018

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	4	1.15	1.47	1.99
faecal coliforms	CFU/100mL	every 6 days	4	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.02
nitrogen (total)	mg/L	every 6 days	5	5.76	6.25	7.19
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	3

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

# Richmond Wastewater Treatment Plant

## January Pollution Monitoring Summary



### EPL 1726

Summary period: 01-01-2018 to 31-01-2018

Date obtained: 06-02-2018

Date published: 09-02-2018

**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
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	-	-	80
nitrogen (total)	mg/L	every 6 days during discharge	1	-	-	6.68
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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
chlorine (total residual)	mg/L	every 6 days	5	0.98	1.22	1.47
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (total)	mg/L	every 6 days	5	5.04	5.87	6.78
phosphorus (total)	mg/L	every 6 days	5	0.02	0.02	0.02
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 .

# Richmond Wastewater Treatment Plant

## December Pollution Monitoring Summary



### EPL 1726

Summary period: 01-12-2017 to 31-12-2017

Date obtained: 23-01-2018

Date published: 29-01-2018

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days during discharge	2	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	1	-	-	100
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	94	177	260
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	5.8	6.38	6.95
phosphorus (total)	mg/L	every 6 days during discharge	2	0.02	0.02	0.02
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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	4
chlorine (total residual)	mg/L	every 6 days	6	1	1.33	1.67
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	6.22	8.98
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

# Richmond Wastewater Treatment Plant

## November Pollution Monitoring Summary



### EPL 1726

Summary period: 01-11-2017 to 30-11-2017

Date obtained: 11-12-2017

Date published: 14-12-2017

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
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	18	105	240
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	6.43	7.03	7.64
phosphorus (total)	mg/L	every 6 days during discharge	3	0.02	0.02	0.02
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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.3	1.78	3
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	6.04	6.6	7.07
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



# Richmond Wastewater Treatment Plant

## October Pollution Monitoring Summary



### EPL 1726

Summary period: 01-10-2017 to 31-10-2017

Date obtained: 13-11-2017

Date published: 22-11-2017

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	4
chlorine (total residual)	mg/L	every 6 days	5	0.99	1.29	1.81
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1
nitrogen (ammonia)	mg/L	every 6 days	6	<0.01	<0.01	0.01
nitrogen (total)	mg/L	every 6 days	6	5.38	6.28	7.35
phosphorus (total)	mg/L	every 6 days	6	0.03	0.03	0.03
total suspended solids	mg/L	every 6 days	6	<2	<2	2

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

# Richmond Wastewater Treatment Plant

## September Pollution Monitoring Summary



### EPL 1726

Summary period: 01-09-2017 to 30-09-2017

Date obtained: 03-10-2017

Date published: 11-10-2017

**Licensee:** Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.14	1.29	1.51
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	0.02	0.07
nitrogen (total)	mg/L	every 6 days	5	5.55	5.95	6.58
phosphorus (total)	mg/L	every 6 days	5	0.03	0.03	0.05
total suspended solids	mg/L	every 6 days	5	<2	<2	4

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

# Richmond Wastewater Treatment Plant

## August Pollution Monitoring Summary



### EPL 1726

Summary period: 01-08-2017 to 31-08-2017

Date obtained: 04-09-2017

Date published: 13-09-2017

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days during discharge	3	<2	<2	2
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	75	591	1,600
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	<0.1	6.2	9.6
nitrogen (total)	mg/L	every 6 days during discharge	3	5.96	10.65	13.8
phosphorus (total)	mg/L	every 6 days during discharge	3	0.03	0.05	0.06
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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.29	2.13	3
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	2
nitrogen (ammonia)	mg/L	every 6 days	5	0.32	3.85	8.76
nitrogen (total)	mg/L	every 6 days	5	5.84	8.93	13.3
phosphorus (total)	mg/L	every 6 days	5	0.03	0.05	0.06
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

# Richmond Wastewater Treatment Plant

## July Pollution Monitoring Summary



### EPL 1726

Summary period: 01-07-2017 to 31-07-2017

Date obtained: 04-08-2017

Date published: 11-08-2017

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
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	34	64	140
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	6.12	6.38	6.69
phosphorus (total)	mg/L	every 6 days during discharge	5	0.01	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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.48	1.65	1.94
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	5.76	5.96	6.46
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