

Richmond Wastewater Treatment Plant

June Pollution Monitoring Summary



EPL 1726

Summary period: 01-06-2017 to 30-06-2017

Date obtained: 20-07-2017

Date published: 25-07-2017

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	30	75	130
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	6.62	8.12	9.76
phosphorus (total)	mg/L	every 6 days during discharge	5	0.03	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	1.45	1.79	2.17
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	5.53	7.3	8.65
phosphorus (total)	mg/L	every 6 days	5	0.03	0.04	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

May Pollution Monitoring Summary



EPL 1726

Summary period: 01-05-2017 to 31-05-2017

Date obtained: 20-06-2017

Date published: 23-06-2017

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	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	<0.04	0.05
faecal coliforms	CFU/100mL	every 6 days during discharge	4	20	61	93
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	6.45	7.49	8.03
phosphorus (total)	mg/L	every 6 days during discharge	4	0.01	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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.61	1.88	2.5
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	0.07	0.27
nitrogen (total)	mg/L	every 6 days	5	6.91	7.56	8.41
phosphorus (total)	mg/L	every 6 days	5	0.02	0.03	0.06
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

April Pollution Monitoring Summary



EPL 1726

Summary period: 01-04-2017 to 30-04-2017

Date obtained: 16-05-2017

Date published: 24-05-2017

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	10
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	3	33	81
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	6.04	6.96	8
phosphorus (total)	mg/L	every 6 days during discharge	5	0.01	0.02	0.02
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	1.4	1.79	2.13
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	5.15	6.54	7.44
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

March Pollution Monitoring Summary



EPL 1726

Summary period: 01-03-2017 to 31-03-2017

Date obtained: 11-04-2017

Date published: 19-04-2017

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	3	13	24
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	<0.1	0.33	1
nitrogen (total)	mg/L	every 6 days during discharge	3	4.5	5.52	6.98
phosphorus (total)	mg/L	every 6 days during discharge	3	0.02	0.04	0.08
total suspended solids	mg/L	every 6 days during discharge	3	<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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.43	1.82	2.9
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	0.5	1.47
nitrogen (total)	mg/L	every 6 days	5	4.38	5.56	6.34
phosphorus (total)	mg/L	every 6 days	5	0.02	0.04	0.09
total suspended solids	mg/L	every 6 days	5	<2	<2	5

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: 01-02-2017 to 28-02-2017

Date obtained: 07-03-2017

Date published: 14-03-2017

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	3
chlorine (total residual)	mg/L	every 6 days	5	1.21	1.41	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	4.42	5.3	6.03
phosphorus (total)	mg/L	every 6 days	5	0.01	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

Richmond Wastewater Treatment Plant

January Pollution Monitoring Summary



EPL 1726

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

Date obtained: 07-02-2017

Date published: 15-02-2017

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	1.04	1.35	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	0.01
nitrogen (total)	mg/L	every 6 days	5	4.88	5.83	6.43
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

December Pollution Monitoring Summary



EPL 1726

Summary period: 01-12-2016 to 31-12-2016

Date obtained: 09-01-2017

Date published: 13-01-2017

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	1	-	-	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly during discharge	1	-	-	100
chlorine (total residual)	mg/L	every 6 days during discharge	1	-	-	<0.04
faecal coliforms	CFU/100mL	every 6 days during discharge	1	-	-	160
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	-	-	<0.1
nitrogen (total)	mg/L	every 6 days during discharge	1	-	-	4.31
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	1.35	1.45	1.76
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	5.1	5.35	5.65
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: 01-11-2016 to 30-11-2016

Date obtained: 07-12-2016

Date published: 12-12-2016

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	98	653	950
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	<0.1	0.53	1.6
nitrogen (total)	mg/L	every 6 days during discharge	3	4.26	6.88	8.96
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	1.11	1.45	2.19
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.35	1.72
nitrogen (total)	mg/L	every 6 days	5	5.38	6.72	9.58
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

October Pollution Monitoring Summary



EPL 1726

Summary period: 01-10-2016 to 31-10-2016

Date obtained: 16-11-2016

Date published: 18-11-2016

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
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	43	61	79
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	6.14	6.79	7.43
phosphorus (total)	mg/L	every 6 days during discharge	2	0.03	0.03	0.04
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	6	1.07	1.24	1.62
faecal coliforms	CFU/100mL	every 6 days	6	<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	6.77	7.58	8.85
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

September Pollution Monitoring Summary



EPL 1726

Summary period: 01-09-2016 to 30-09-2016

Date obtained: 10-10-2016

Date published: 16-10-2016

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	56	239	530
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	5.95	6.78	7.69
phosphorus (total)	mg/L	every 6 days during discharge	3	0.02	0.03	0.04
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	1.26	1.4	1.47
faecal coliforms	CFU/100mL	every 6 days	5	<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	5.36	6.96	7.74
phosphorus (total)	mg/L	every 6 days	5	0.03	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

August Pollution Monitoring Summary



EPL 1726

Summary period: 01-08-2016 to 31-08-2016

Date obtained: 08-09-2016

Date published: 12-09-2016

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	2	66	99
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	5.84	6.21	6.75
phosphorus (total)	mg/L	every 6 days during discharge	3	0.02	0.03	0.04
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	6	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.19	1.45	1.81
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	6	0.01	0.08	0.38
nitrogen (total)	mg/L	every 6 days	6	5.33	6.3	7.58
phosphorus (total)	mg/L	every 6 days	6	0.02	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

July Pollution Monitoring Summary



EPL 1726

Summary period: 01-07-2016 to 31-07-2016

Date obtained: 04-08-2016

Date published: 12-08-2016

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	3	9
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	25	175	360
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	6.51	6.99	7.59
phosphorus (total)	mg/L	every 6 days during discharge	3	0.02	0.03	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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chlorine (total residual)	mg/L	every 6 days	5	1.36	1.51	1.61
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.27	1.16
nitrogen (total)	mg/L	every 6 days	5	5.8	6.5	7.46
phosphorus (total)	mg/L	every 6 days	5	0.02	0.04	0.07
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