

# North Richmond Wastewater Treatment Plant

## June Pollution Monitoring Summary



### EPL 190

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: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	40	4	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	318
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	4.2
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	22
nitrogen (ammonia)	mg/L	every 6 days	5	0.26	0.4	0.58
nitrogen (total)	mg/L	every 6 days	5	5.75	6.06	6.52
phosphorus (total)	mg/L	every 6 days	5	0.11	0.12	0.15
total suspended solids	mg/L	every 6 days	5	<2	2	4
zinc	ug/L	monthly	1	-	-	34

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	2	7
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

# North Richmond Wastewater Treatment Plant

## May Pollution Monitoring Summary



### EPL 190

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: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	40	4	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	370
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	6
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	33
nitrogen (ammonia)	mg/L	every 6 days	5	0.3	0.41	0.5
nitrogen (total)	mg/L	every 6 days	5	5.77	6.19	6.67
phosphorus (total)	mg/L	every 6 days	5	0.16	0.24	0.36
total suspended solids	mg/L	every 6 days	5	2	3	4
zinc	ug/L	monthly	1	-	-	43

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	2	6
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

# North Richmond Wastewater Treatment Plant

## April Pollution Monitoring Summary



### EPL 190

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: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	40	5	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	324
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	6
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	81
nitrogen (ammonia)	mg/L	every 6 days	5	0.18	0.27	0.34
nitrogen (total)	mg/L	every 6 days	5	5.45	6.34	7.21
phosphorus (total)	mg/L	every 6 days	5	0.15	0.23	0.39
total suspended solids	mg/L	every 6 days	5	4	4	6
zinc	ug/L	monthly	1	-	-	43

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<0	7	32
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

# North Richmond Wastewater Treatment Plant

## March Pollution Monitoring Summary



### EPL 190

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: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	40	5	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	343
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	3	10
copper	ug/L	monthly	1	-	-	4.2
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	25
nitrogen (ammonia)	mg/L	every 6 days	5	0.24	0.39	0.55
nitrogen (total)	mg/L	every 6 days	5	7.15	7.77	8.44
phosphorus (total)	mg/L	every 6 days	5	0.08	0.12	0.2
total suspended solids	mg/L	every 6 days	5	3	3	4
zinc	ug/L	monthly	1	-	-	34

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	6	2	55	280
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

# North Richmond Wastewater Treatment Plant

## February Pollution Monitoring Summary



### EPL 190

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

Date obtained: 08-03-2018

Date published: 15-03-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	2	yes
total suspended solids	mg/L	monthly	40	2	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	257
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
copper	ug/L	monthly	1	-	-	4.7
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	19
nitrogen (ammonia)	mg/L	every 6 days	5	0.45	0.62	0.74
nitrogen (total)	mg/L	every 6 days	5	6.51	7.71	9.07
phosphorus (total)	mg/L	every 6 days	5	0.05	0.08	0.12
total suspended solids	mg/L	every 6 days	5	<2	2	6
zinc	ug/L	monthly	1	-	-	36

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	4	<1	4	7
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

# North Richmond Wastewater Treatment Plant

## January Pollution Monitoring Summary



### EPL 190

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

Date obtained: 19-02-2018

Date published: 23-02-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	40	2	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	269
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	4
copper	ug/L	monthly	1	-	-	4
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	18
nitrogen (ammonia)	mg/L	every 6 days	5	0.44	0.55	0.66
nitrogen (total)	mg/L	every 6 days	5	6.58	7.47	9.24
phosphorus (total)	mg/L	every 6 days	5	0.05	0.1	0.27
total suspended solids	mg/L	every 6 days	5	<2	3	11
zinc	ug/L	monthly	1	-	-	29

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	2	10	22
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	36

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

# North Richmond Wastewater Treatment Plant

## December Pollution Monitoring Summary



### EPL 190

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: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	3	yes
total suspended solids	mg/L	monthly	40	7	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	478
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
copper	ug/L	monthly	1	-	-	4.5
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	49
nitrogen (ammonia)	mg/L	every 6 days	5	0.51	1.09	1.93
nitrogen (total)	mg/L	every 6 days	5	6.19	7.13	8.41
phosphorus (total)	mg/L	every 6 days	5	0.14	0.27	0.36
total suspended solids	mg/L	every 6 days	5	6	7	8
zinc	ug/L	monthly	1	-	-	30

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	6	4	12	25
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

# North Richmond Wastewater Treatment Plant

## November Pollution Monitoring Summary



### EPL 190

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

Date obtained: 17-12-2017

Date published: 21-12-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	2	yes
total suspended solids	mg/L	monthly	40	4	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	554
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
copper	ug/L	monthly	1	-	-	4.5
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	38
nitrogen (ammonia)	mg/L	every 6 days	5	0.36	0.49	0.58
nitrogen (total)	mg/L	every 6 days	5	5.71	6.21	6.76
phosphorus (total)	mg/L	every 6 days	5	0.1	0.14	0.17
total suspended solids	mg/L	every 6 days	5	4	6	10
zinc	ug/L	monthly	1	-	-	34

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	1	20	82
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	33

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



# North Richmond Wastewater Treatment Plant

## October Pollution Monitoring Summary



### EPL 190

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: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	40	9	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	794
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2
copper	ug/L	monthly	1	-	-	3.7
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	21
nitrogen (ammonia)	mg/L	every 6 days	6	0.38	0.43	0.47
nitrogen (total)	mg/L	every 6 days	6	6.05	6.35	6.58
phosphorus (total)	mg/L	every 6 days	6	0.05	0.13	0.21
total suspended solids	mg/L	every 6 days	6	4	6	10
zinc	ug/L	monthly	1	-	-	39

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	2	5	9
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

# North Richmond Wastewater Treatment Plant

## September Pollution Monitoring Summary



### EPL 190

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

Date obtained: 09-10-2017

Date published: 19-10-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	2	yes
total suspended solids	mg/L	monthly	40	4	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	465
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
copper	ug/L	monthly	1	-	-	3.6
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	30
nitrogen (ammonia)	mg/L	every 6 days	5	0.44	0.81	1.28
nitrogen (total)	mg/L	every 6 days	5	6.19	6.49	6.73
phosphorus (total)	mg/L	every 6 days	5	0.08	0.08	0.08
total suspended solids	mg/L	every 6 days	5	<2	<2	4
zinc	ug/L	monthly	1	-	-	44

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	11	55
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

# North Richmond Wastewater Treatment Plant

## August Pollution Monitoring Summary



### EPL 190

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

Date obtained: 18-09-2017

Date published: 21-09-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	40	4	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	472
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	3	10
copper	ug/L	monthly	1	-	-	4.2
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	28
nitrogen (ammonia)	mg/L	every 6 days	5	0.54	0.66	0.79
nitrogen (total)	mg/L	every 6 days	5	5.53	6.06	6.33
phosphorus (total)	mg/L	every 6 days	5	0.08	0.12	0.16
total suspended solids	mg/L	every 6 days	5	3	5	8
zinc	ug/L	monthly	1	-	-	52

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

# North Richmond Wastewater Treatment Plant

## July Pollution Monitoring Summary



### EPL 190

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

Date obtained: 18-08-2017

Date published: 23-08-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: 3 Day Geometric Mean data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	3	yes
total suspended solids	mg/L	monthly	40	8	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

**Table 2: Routine monitoring data**

EPA Point 4 Site code NR0004		Point description: Downstream of the weir from the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	812
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
copper	ug/L	monthly	1	-	-	3.7
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	33
nitrogen (ammonia)	mg/L	every 6 days	5	0.27	0.5	0.79
nitrogen (total)	mg/L	every 6 days	5	5.74	6.06	6.5
phosphorus (total)	mg/L	every 6 days	5	0.05	0.09	0.13
total suspended solids	mg/L	every 6 days	5	5	6	8
zinc	ug/L	monthly	1	-	-	45

EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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