North Richmond Wastewater Treatment Plant
June Pollution Monitoring Summary

EPL 190

Summary period: 01-06-2019 to 30-06-2019
Date obtained: 11-07-2019
Date published: 17-07-2019

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	3	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	-	-	314
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	5
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	16
nitrogen (ammonia)	mg/L	every 6 days	5	0.28	0.66	0.9
nitrogen (total)	mg/L	every 6 days	5	6.25	6.73	7.54
phosphorus (total)	mg/L	every 6 days	5	0.08	0.1	0.11
total suspended solids	mg/L	every 6 days	5	<2	3	5
zinc	ug/L	monthly	1	-	-	27

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	2
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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North Richmond Wastewater Treatment Plant
May Pollution Monitoring Summary

EPL 190

Summary period: 01-05-2019 to 31-05-2019
Date obtained: 07-06-2019
Date published: 12-06-2019

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	-	-	322
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	3.9
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	5	0.34	0.48	0.69
nitrogen (total)	mg/L	every 6 days	5	5.63	6.48	7.73
phosphorus (total)	mg/L	every 6 days	5	0.08	0.1	0.12
total suspended solids	mg/L	every 6 days	5	2	3	4
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	6	<1	4	10
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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North Richmond Wastewater Treatment Plant
April Pollution Monitoring Summary

EPL 190

Summary period: 01-04-2019 to 30-04-2019
Date obtained: 08-05-2019
Date published: 13-05-2019

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	-	-	338
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
copper	ug/L	monthly	1	-	-	4.8
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	37
nitrogen (ammonia)	mg/L	every 6 days	5	0.62	0.72	0.82
nitrogen (total)	mg/L	every 6 days	5	7.18	7.57	8.24
phosphorus (total)	mg/L	every 6 days	5	0.11	0.16	0.24
total suspended solids	mg/L	every 6 days	5	4	5	6
zinc	ug/L	monthly	1	-	-	31

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	6	27	42
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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North Richmond Wastewater Treatment Plant
March Pollution Monitoring Summary

EPL 190

Summary period: 01-03-2019 to 31-03-2019
Date obtained: 09-04-2019
Date published: 12-04-2019

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	6	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	-	-	580
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2
copper	ug/L	monthly	1	-	-	5.6
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	51
nitrogen (ammonia)	mg/L	every 6 days	6	0.59	0.75	0.87
nitrogen (total)	mg/L	every 6 days	6	5.48	7.19	8.31
phosphorus (total)	mg/L	every 6 days	6	0.13	0.33	0.97
total suspended solids	mg/L	every 6 days	6	4	6	9
zinc	ug/L	monthly	1	-	-	33

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	5	14	28
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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North Richmond Wastewater Treatment Plant
February Pollution Monitoring Summary

EPL 190

Summary period: 01-02-2019 to 28-02-2019
Date obtained: 11-03-2019
Date published: 15-03-2019

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	-	-	231
carbonaceous biochemical oxygen demand	mg/L	every 6 days	4	<2	<2	<2
copper	ug/L	monthly	1	-	-	3.4
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	4	0.43	0.69	1.2
nitrogen (total)	mg/L	every 6 days	4	3.64	4.69	5.23
phosphorus (total)	mg/L	every 6 days	4	0.1	0.13	0.18
total suspended solids	mg/L	every 6 days	4	4	4	4
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	4	5	7	12
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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North Richmond Wastewater Treatment Plant
January Pollution Monitoring Summary

EPL 190

Summary period: 01-01-2019 to 31-01-2019
Date obtained: 13-02-2019
Date published: 22-02-2019

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	3	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	-	-	300
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	4
copper	ug/L	monthly	1	-	-	3.5
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	26
nitrogen (ammonia)	mg/L	every 6 days	5	0.41	0.49	0.62
nitrogen (total)	mg/L	every 6 days	5	3.03	4.06	4.93
phosphorus (total)	mg/L	every 6 days	5	0.1	0.16	0.24
total suspended solids	mg/L	every 6 days	5	3	4	4
zinc	ug/L	monthly	1	-	-	20

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	<1	63	230
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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North Richmond Wastewater Treatment Plant
December Pollution Monitoring Summary

EPL 190

Summary period: 01-12-2018 to 31-12-2018
Date obtained: 14-01-2019
Date published: 18-01-2019

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	-	-	373
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2
copper	ug/L	monthly	1	-	-	3.3
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	26
nitrogen (ammonia)	mg/L	every 6 days	6	0.4	0.52	0.63
nitrogen (total)	mg/L	every 6 days	6	3.77	4.86	5.9
phosphorus (total)	mg/L	every 6 days	6	0.07	0.13	0.21
total suspended solids	mg/L	every 6 days	6	2	3	5
zinc	ug/L	monthly	1	-	-	22

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	10	38	100
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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North Richmond Wastewater Treatment Plant
November Pollution Monitoring Summary

EPL 190

Summary period: 01-11-2018 to 30-11-2018
Date obtained: 04-12-2018
Date published: 18-12-2018

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	-	-	405
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	5.9
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	44
nitrogen (ammonia)	mg/L	every 6 days	5	0.61	0.8	1.08
nitrogen (total)	mg/L	every 6 days	5	5.84	6.45	7.19
phosphorus (total)	mg/L	every 6 days	5	0.11	0.18	0.31
total suspended solids	mg/L	every 6 days	5	<2	3	5
zinc	ug/L	monthly	1	-	-	38

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	20	66
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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North Richmond Wastewater Treatment Plant
October Pollution Monitoring Summary

EPL 190

Summary period: 01-10-2018 to 31-10-2018
Date obtained: 12-11-2018
Date published: 23-11-2018

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	-	-	123
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
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	-	-	11
nitrogen (ammonia)	mg/L	every 6 days	5	0.44	1.48	5.03
nitrogen (total)	mg/L	every 6 days	5	6.02	7.69	11.2
phosphorus (total)	mg/L	every 6 days	5	0.07	0.17	0.32
total suspended solids	mg/L	every 6 days	5	<2	3	5
zinc	ug/L	monthly	1	-	-	28

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	9	21
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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North Richmond Wastewater Treatment Plant
September Pollution Monitoring Summary

EPL 190

Summary period: 01-09-2018 to 30-09-2018
Date obtained: 15-10-2018
Date published: 19-10-2018

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	3	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	-	-	338
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	3.5
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	31
nitrogen (ammonia)	mg/L	every 6 days	5	0.54	0.65	0.8
nitrogen (total)	mg/L	every 6 days	5	6.02	6.46	7
phosphorus (total)	mg/L	every 6 days	5	0.23	0.38	0.48
total suspended solids	mg/L	every 6 days	5	<2	2	6
zinc	ug/L	monthly	1	-	-	35

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

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North Richmond Wastewater Treatment Plant
August Pollution Monitoring Summary

EPL 190

Summary period: 01-08-2018 to 31-08-2018
Date obtained: 11-09-2018
Date published: 14-09-2018

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	-	-	302
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	3.4
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	5	0.25	0.57	1.01
nitrogen (total)	mg/L	every 6 days	5	5.31	5.79	6.39
phosphorus (total)	mg/L	every 6 days	5	0.2	0.3	0.42
total suspended solids	mg/L	every 6 days	5	<2	<2	3
zinc	ug/L	monthly	1	-	-	33

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	5	16
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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North Richmond Wastewater Treatment Plant
July Pollution Monitoring Summary

EPL 190

Summary period: 01-07-2018 to 31-07-2018
Date obtained: 09-08-2018
Date published: 14-08-2018

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	3	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	-	-	474
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	5.4
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	65
nitrogen (ammonia)	mg/L	every 6 days	5	0.21	0.33	0.65
nitrogen (total)	mg/L	every 6 days	5	5.34	5.94	6.59
phosphorus (total)	mg/L	every 6 days	5	0.09	0.21	0.3
total suspended solids	mg/L	every 6 days	5	2	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	5	<1	9	25
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

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