North Richmond Wastewater Treatment Plant June Pollution Monitoring Summary



EPL 190

Summary period: 01-06-2022 to 30-06-2022 Licensee: Sydney Water Corporation

Date obtained: 07-07-2022 PO Box 399

Date published: 15-07-2022 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	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	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	_	_	522
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
copper	ug/L	monthly	1	-	_	3
diazinon	ug/L	monthly	1	-	_	<0.1
iron	ug/L	monthly	1	-	_	32
nitrogen (ammonia)	mg/L	every 6 days	5	1.24	1.44	1.68
nitrogen (total)	mg/L	every 6 days	5	5.92	6.14	6.39
phosphorus (total)	mg/L	every 6 days	5	0.09	0.11	0.14
total suspended solids	mg/L	every 6 days	5	2	4	6
zinc	ug/L	monthly	1	-	_	25

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	15	68	
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: 01-05-2022 to 31-05-2022 Licensee: Sydney Water Corporation

PO Box 399

Date published: 22-06-2022 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

Date obtained: 12-06-2022

EPA Point 4 Site code NR0004	Point description: Downstream of the weir from the disinfection facilities							
pollutant	unit of measure	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	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	_	-	456	
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	
copper	ug/L	monthly	1	_	-	2.9	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	13	
nitrogen (ammonia)	mg/L	every 6 days	5	1.02	1.16	1.39	
nitrogen (total)	mg/L	every 6 days	5	4.94	5.87	7.73	
phosphorus (total)	mg/L	every 6 days	5	0.08	0.14	0.24	
total suspended solids	mg/L	every 6 days	5	3	5	7	
zinc	ug/L	monthly	1	-	_	22	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	6	3	1060	6,300	
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: 01-04-2022 to 30-04-2022 Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Date obtained: 09-05-2022

Date published: 19-05-2022

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 sampling and sampling							
biochemical oxygen demand	mg/L	monthly	30	2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	2	yes			
total suspended solids	mg/L	monthly	10	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	-	-	706	
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	
copper	ug/L	monthly	1	-	-	3.9	
diazinon	ug/L	monthly	1	_	-	<0.1	
iron	ug/L	monthly	1	-	-	25	
nitrogen (ammonia)	mg/L	every 6 days	5	0.94	1.4	2.05	
nitrogen (total)	mg/L	every 6 days	5	4.8	6.19	8.12	
phosphorus (total)	mg/L	every 6 days	5	0.13	0.26	0.38	
total suspended solids	mg/L	every 6 days	5	3	7	12	
zinc	ug/L	monthly	1	-	-	17	

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities						
pollutant	unit ofsamplingnumber ofminimummeanmaximummeasurefrequencysamplesresultresultresult						
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	7	1691	8,300	
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: 01-03-2022 to 31-03-2022 Licensee: Sydney Water Corporation

Date obtained: 08-04-2022 PO Box 399

Date published: 15-04-2022 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	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	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	_	_	570
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
copper	ug/L	monthly	1	_	_	3.8
diazinon	ug/L	monthly	1	_	_	<0.1
iron	ug/L	monthly	1	_	_	10
nitrogen (ammonia)	mg/L	every 6 days	6	0.43	0.75	1.05
nitrogen (total)	mg/L	every 6 days	6	3.53	5.28	6.98
phosphorus (total)	mg/L	every 6 days	6	0.14	0.22	0.29
total suspended solids	mg/L	every 6 days	6	3	4	5
zinc	ug/L	monthly	1	-	_	17

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities unit of sampling number of minimum mean maximum measure frequency samples result result result						
pollutant							
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	4	1097	3,900	
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: 01-02-2022 to 28-02-2022 Licensee: Sydney Water Corporation

Date obtained: 11-03-2022 PO Box 399

Date published: 23-03-2022 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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	10	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	-	-	401		
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		
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	4	0.68	0.75	0.86		
nitrogen (total)	mg/L	every 6 days	4	4.56	5.38	5.93		
phosphorus (total)	mg/L	every 6 days	4	0.1	0.12	0.16		
total suspended solids	mg/L	every 6 days	4	2	4	7		
zinc	ug/L	monthly	1	-	-	24		

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities					
pollutant	unit ofsamplingnumber ofminimummeanmaximummeasurefrequencysamplesresultresultresult					
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	_	_	100
faecal coliforms	CFU/100mL	every 6 days	4	9	31	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 January Pollution Monitoring Summary



EPL 190

Summary period: 01-01-2022 to 31-01-2022 Licensee: Sydney Water Corporation

Date obtained: 08-02-2022 PO Box 399

Date published: 11-02-2022 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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	10	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	_	_	630
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	_	_	5.9
diazinon	ug/L	monthly	1	_	_	<0.1
iron	ug/L	monthly	1	_	_	35
nitrogen (ammonia)	mg/L	every 6 days	5	0.9	1.13	1.26
nitrogen (total)	mg/L	every 6 days	5	6.41	7.36	8.47
phosphorus (total)	mg/L	every 6 days	5	0.26	0.44	0.58
total suspended solids	mg/L	every 6 days	5	3	4	5
zinc	ug/L	monthly	1	-	_	18

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	14	1471	7,100	
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 December Pollution Monitoring Summary



EPL 190

Summary period: 01-12-2021 to 31-12-2021 Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Date obtained: 10-01-2022

Date published: 20-01-2022

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 sampling measure frequency 3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	10	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	-	_	66	
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	3	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2	
copper	ug/L	monthly	1	-	_	1.4	
diazinon	ug/L	monthly	1	_	_	<0.1	
iron	ug/L	monthly	1	-	_	<5	
nitrogen (ammonia)	mg/L	every 6 days	7	0.47	0.74	1.08	
nitrogen (total)	mg/L	every 6 days	6	6.62	7.2	7.93	
phosphorus (total)	mg/L	every 6 days	6	0.14	0.24	0.31	
total suspended solids	mg/L	every 6 days	6	<2	3	4	
zinc	ug/L	monthly	1	_	_	4	

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	40	84	
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: 01-11-2021 to 30-11-2021 Licensee: Sydney Water Corporation

Date obtained: 09-12-2021 PO Box 399

Date published: 17-12-2021 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	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	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	_	-	178	
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	
copper	ug/L	monthly	1	-	-	4	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	8	
nitrogen (ammonia)	mg/L	every 6 days	5	0.29	0.5	0.83	
nitrogen (total)	mg/L	every 6 days	5	5.87	7.41	8.25	
phosphorus (total)	mg/L	every 6 days	5	0.14	0.21	0.31	
total suspended solids	mg/L	every 6 days	5	<2	<2	2	
zinc	ug/L	monthly	1	-	_	19	

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	361	1,100	
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 October Pollution Monitoring Summary



EPL 190

Summary period: 01-10-2021 to 31-10-2021 Licensee: Sydney Water Corporation

Date obtained: 05-11-2021 PO Box 399

Date published: 12-11-2021 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	3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	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	_	-	302	
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	
copper	ug/L	monthly	1	_	-	4	
diazinon	ug/L	monthly	1	_	-	<0.1	
iron	ug/L	monthly	1	_	-	18	
nitrogen (ammonia)	mg/L	every 6 days	5	0.83	1.18	1.98	
nitrogen (total)	mg/L	every 6 days	5	7.51	9.04	10.6	
phosphorus (total)	mg/L	every 6 days	5	0.09	0.19	0.36	
total suspended solids	mg/L	every 6 days	5	<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	1	3	8	
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: 01-09-2021 to 30-09-2021 Licensee: Sydney Water Corporation

Date obtained: 06-10-2021 PO Box 399

Date published: 13-10-2021 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 sampling measure frequency 3DGM limit 3DGM Actual within limits							
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	<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	_	-	258	
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	
copper	ug/L	monthly	1	_	-	4.3	
diazinon	ug/L	monthly	1	_	_	<0.1	
iron	ug/L	monthly	1	_	-	18	
nitrogen (ammonia)	mg/L	every 6 days	5	0.32	1.1	1.83	
nitrogen (total)	mg/L	every 6 days	5	6.3	6.91	8.61	
phosphorus (total)	mg/L	every 6 days	5	0.05	0.06	0.07	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	_	26	

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.

North Richmond Wastewater Treatment Plant August Pollution Monitoring Summary



EPL 190

Summary period: 01-08-2021 to 31-08-2021 Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Date obtained: 06-09-2021 to 31-08

Date published: 13-09-2021

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 sampling measure frequency 3DGM limit 3DGM Actual within limits							
biochemical oxygen demand	mg/L	monthly	30	2	yes			
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 descrip facilities	tion: Downstrea	m of the weir	from the di	sinfectio	nfection			
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	356			
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			
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	-	-	10			
nitrogen (ammonia)	mg/L	every 6 days	5	0.25	0.49	0.91			
nitrogen (total)	mg/L	every 6 days	5	5.99	6.65	7.4			
phosphorus (total)	mg/L	every 6 days	5	0.06	0.16	0.22			
total suspended solids	mg/L	every 6 days	5	<2	<2	2			
zinc	ug/L	monthly	1	_	_	32			

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities					
pollutant	unit of sampling number of minimum mean maximum measure frequency samples result result 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: 01-07-2021 to 31-07-2021 Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Date obtained: 06-08-2021

Date published: 18-08-2021

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 sampling sampling and specific sampling specific specific specific sampling specific							
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	<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	_	_	307	
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	
copper	ug/L	monthly	1	-	_	4.8	
diazinon	ug/L	monthly	1	-	_	<0.1	
iron	ug/L	monthly	1	-	_	15	
nitrogen (ammonia)	mg/L	every 6 days	5	0.33	0.43	0.54	
nitrogen (total)	mg/L	every 6 days	5	6.41	6.78	7.48	
phosphorus (total)	mg/L	every 6 days	5	0.22	0.33	0.42	
total suspended solids	mg/L	every 6 days	5	<2	<2	2	
zinc	ug/L	monthly	1	-	_	26	

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.