# North Richmond Wastewater Treatment Plant May Pollution Monitoring Summary



### EPL 190

Summary period: 01-05-2021 to 31-05-2021 Date obtained: 09-06-2021 Date published: 21-06-2021 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		
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 descrip facilities	tion: Downstrea	m of the weir	from the dis	m the disinfection				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	271			
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	-	-	5			
diazinon	ug/L	monthly	1	-	-	<0.1			
iron	ug/L	monthly	1	-	-	21			
nitrogen (ammonia)	mg/L	every 6 days	6	0.12	0.38	0.98			
nitrogen (total)	mg/L	every 6 days	6	4.68	5.13	5.97			
phosphorus (total)	mg/L	every 6 days	6	0.1	0.17	0.24			
total suspended solids	mg/L	every 6 days	6	<2	<2	4			
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.

Effluent quality monitoring results obtained from EPA Points 4 and 5 are used to indicate the quality of water discharged at

EPA Point 1 (discharge to waters).

# North Richmond Wastewater Treatment Plant April Pollution Monitoring Summary



## EPL 190

Summary period: 01-04-2021 to 30-04-2021 Date obtained: 07-05-2021 Date published: 17-05-2021

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		
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 descrip facilities	tion: Downstrea	m of the weir	from the dis	m the disinfection				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result			
aluminium	ug/L	monthly	1	-	-	344			
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	-	-	2.5			
diazinon	ug/L	monthly	1	-	-	<0.1			
iron	ug/L	monthly	1	-	-	17			
nitrogen (ammonia)	mg/L	every 6 days	5	0.23	0.53	0.74			
nitrogen (total)	mg/L	every 6 days	5	4.24	4.49	4.68			
phosphorus (total)	mg/L	every 6 days	5	0.11	0.14	0.17			
total suspended solids	mg/L	every 6 days	5	<2	<2	3			
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	5	<1	50	210	
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: 01-03-2021 to 31-03-2021 Date obtained: 09-04-2021 Date published: 20-04-2021 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		
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 descrip facilities	tion: Downstrea	m of the weir	from the di	disinfection			
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result		
aluminium	ug/L	monthly	1	-	-	309		
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	-	-	3.2		
diazinon	ug/L	monthly	1	_	-	<0.1		
iron	ug/L	monthly	1	-	-	23		
nitrogen (ammonia)	mg/L	every 6 days	4	0.45	0.51	0.59		
nitrogen (total)	mg/L	every 6 days	4	3.68	4.4	5.03		
phosphorus (total)	mg/L	every 6 days	4	0.21	0.24	0.34		
total suspended solids	mg/L	every 6 days	4	<2	<2	3		
zinc	ug/L	monthly	1	-	-	12		
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	19	54	
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: 01-02-2021 to 28-02-2021 Date obtained: 07-03-2021 Date published: 17-03-2021 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		
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 descrip facilities	oint description: Downstream of the weir from the disinfection cilities					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	249	
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	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	19	
nitrogen (ammonia)	mg/L	every 6 days	4	0.28	0.43	0.56	
nitrogen (total)	mg/L	every 6 days	4	3.88	4.66	5.23	
phosphorus (total)	mg/L	every 6 days	4	0.19	0.38	0.52	
total suspended solids	mg/L	every 6 days	4	<2	2	4	
zinc	ug/L	monthly	1	-	-	17	
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	12	18	22	
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: 01-01-2021 to 31-01-2021 Date obtained: 14-02-2021 Date published: 23-02-2021

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 sampling measure frequency 3DGM limit 3DGM Actual within limit						
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	-	-	184
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	-	-	3.6
cyanide	ug/L	bi-annually	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	23
nitrogen (ammonia)	mg/L	every 6 days	6	0.21	0.37	0.67
nitrogen (total)	mg/L	every 6 days	6	3.07	4.17	4.95
phosphorus (total)	mg/L	every 6 days	6	0.15	0.33	0.78
total suspended solids	mg/L	every 6 days	6	<2	<2	4
zinc	ug/L	monthly	1	-	-	17

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	30	98
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: 01-12-2020 to 31-12-2020 Date obtained: 05-01-2021 Date published: 11-01-2021 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 measuresampling frequency3DGM limit3DGM Actualwithin 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 descrip facilities	tion: Downstrea	m of the weir	from the di	disinfection			
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result		
aluminium	ug/L	monthly	1	-	-	148		
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	_	-	2.6		
diazinon	ug/L	monthly	1	-	-	<0.1		
iron	ug/L	monthly	1	-	-	27		
nitrogen (ammonia)	mg/L	every 6 days	5	0.29	0.37	0.49		
nitrogen (total)	mg/L	every 6 days	5	2.31	3.48	4.68		
phosphorus (total)	mg/L	every 6 days	5	0.14	0.17	0.23		
total suspended solids	mg/L	every 6 days	5	<2	2	4		
zinc	ug/L	monthly	1	-	-	15		
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	14	245	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 November Pollution Monitoring Summary



## EPL 190

Summary period: 01-11-2020 to 30-11-2020 Date obtained: 10-12-2020 Date published: 15-12-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point descript facilities	Point description: Downstream of the weir from the disinfection acilities						
pollutant	unit of measure	3DGM limit 3DGM Actual within limit						
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	-	-	228
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
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	21
nitrogen (ammonia)	mg/L	every 6 days	5	0.27	0.44	0.75
nitrogen (total)	mg/L	every 6 days	5	2.77	3.65	4.85
phosphorus (total)	mg/L	every 6 days	5	0.13	0.21	0.37
total suspended solids	mg/L	every 6 days	5	<2	<2	3
zinc	ug/L	monthly	1	-	-	17

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	3	24	76	
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: 01-10-2020 to 31-10-2020 Date obtained: 05-11-2020 Date published: 13-11-2020 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 sampling 3DGM limit 3DGM Actual within limi						
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	-	-	280
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	-	-	3.3
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	23
nitrogen (ammonia)	mg/L	every 6 days	5	0.31	0.7	2.09
nitrogen (total)	mg/L	every 6 days	5	4.38	5.63	6.5
phosphorus (total)	mg/L	every 6 days	5	0.09	0.15	0.25
total suspended solids	mg/L	every 6 days	5	<2	<2	3
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	4	21	49	
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: 01-09-2020 to 30-09-2020 Date obtained: 15-10-2020 Date published: 23-10-2020 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	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	-	-	238
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	-	-	29
nitrogen (ammonia)	mg/L	every 6 days	5	0.34	0.92	2.32
nitrogen (total)	mg/L	every 6 days	5	5.54	6.25	6.81
phosphorus (total)	mg/L	every 6 days	5	0.1	0.15	0.17
total suspended solids	mg/L	every 6 days	5	<2	<2	3
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	2	5
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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

Effluent quality monitoring results obtained from EPA Points 4 and 5 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).

Note: biochemical oxygen demand monitoring commenced from September 2020.

# North Richmond Wastewater Treatment Plant August Pollution Monitoring Summary



## EPL 190

Summary period: 01-08-2020 to 31-08-2020 Date obtained: 07-09-2020 Date published: 16-09-2020 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	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	-	-	296
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
copper	ug/L	monthly	1	-	-	3.5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	13
nitrogen (ammonia)	mg/L	every 6 days	5	0.7	0.98	1.3
nitrogen (total)	mg/L	every 6 days	5	5.81	6.72	8
phosphorus (total)	mg/L	every 6 days	5	0.19	0.33	0.45
total suspended solids	mg/L	every 6 days	5	2	4	6
zinc	ug/L	monthly	1	-	-	24

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: 01-07-2020 to 31-07-2020 Date obtained: 07-08-2020 Date published: 14-08-2020 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	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	-	-	278
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	-	-	16
nitrogen (ammonia)	mg/L	every 6 days	5	0.57	0.72	0.97
nitrogen (total)	mg/L	every 6 days	5	5.18	6.39	7.05
phosphorus (total)	mg/L	every 6 days	5	0.14	0.17	0.22
total suspended solids	mg/L	every 6 days	5	<2	2	3
zinc	ug/L	monthly	1	-	-	38

EPA Point 5 Site code NR0005	Point description: Outlet of the disinfection facilities					
pollutant	unit ofsamplingnumber ofminimummeanmaxmeasurefrequencysamplesresultresultresult					
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	5
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

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