# North Richmond Water Resource Recovery Facility March Pollution Monitoring Summary

#### **EPL 190**

Summary period: 01-03-2025 to 31-03-2025

Date obtained: 08-04-2025

Date published: 22-04-2025

### Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 Site code NR0004	Point descrip	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	3DGM Actual   within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	3	yes			

<sup>3</sup> 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	-	-	194
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	5
copper	ug/L	monthly	1	-	-	3.5
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	19
nitrogen (ammonia)	mg/L	every 6 days	6	0.79	0.86	1
nitrogen (total)	mg/L	every 6 days	6	4.9	7.26	9.21
phosphorus (total)	mg/L	every 6 days	6	0.07	0.25	0.54
total suspended solids	mg/L	every 6 days	6	<2	3	8
zinc	ug/L	monthly	1	-	-	20

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	17	66	
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 Water Resource Recovery Facility February Pollution Monitoring Summary

### **EPL 190**

Summary period: 01-02-2025 to 28-02-2025

Date obtained: 04-03-2025

Date published: 15-03-2025

Sydney **WAT ₹R** 

Licensee: Sydney Water Corporation

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

EPA Point 4 Site code NR0004	Point descrip	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			
total suspended solids	mg/L	monthly	10	3	yes			

<sup>3</sup> 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	_	_	369
biochemical oxygen demand	mg/L	every 6 days	4	<2	<2	<2
copper	ug/L	monthly	1	-	_	6
cyanide	ug/L	biannually	1	_	_	<5
diazinon	ug/L	monthly	1	-	_	<0.1
iron	ug/L	monthly	1	_	_	19
nitrogen (ammonia)	mg/L	every 6 days	4	0.32	0.76	0.95
nitrogen (total)	mg/L	every 6 days	4	7.5	8.44	9.22
phosphorus (total)	mg/L	every 6 days	4	0.33	0.43	0.53
total suspended solids	mg/L	every 6 days	4	3	4	5
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	4	2	4	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 Water Resource Recovery Facility January Pollution Monitoring Summary

### **EPL 190**

Summary period: 01-01-2025 to 31-01-2025

Date obtained: 09-02-2025

Date published: 14-02-2025

### Sydney WAT≅R

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PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 Site code NR0004	Point descrip	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	3DGM Actual   within limits						
biochemical oxygen demand	mg/L	monthly	30	<2	yes			
total suspended solids	mg/L	monthly	10	4	yes			

<sup>3</sup> 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	-	-	265
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
copper	ug/L	monthly	1	-	-	6.7
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	15
nitrogen (ammonia)	mg/L	every 6 days	5	0.34	0.39	0.55
nitrogen (total)	mg/L	every 6 days	5	6.8	8.64	10.2
phosphorus (total)	mg/L	every 6 days	5	0.38	0.5	0.57
total suspended solids	mg/L	every 6 days	5	2	4	5
zinc	ug/L	monthly	1	-	-	16

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	19	27	
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 Water Resource Recovery Facility December Pollution Monitoring Summary

#### **EPL 190**

Summary period: 01-12-2024 to 31-12-2024

Date obtained: 09-01-2025

Date published: 23-01-2025

### Sydney **WAT₹R**

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PARRAMATTA NSW 2124

### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code NR0004	Point descrip	Point description: Downstream of the weir from the disinfection facilities						
pollutant	unit of measure	3DGM Actual   within limits						
biochemical oxygen demand	mg/L	monthly	30	2	yes			
total suspended solids	mg/L	monthly	10	3	yes			

<sup>3</sup> 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	-	-	270
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	3
copper	ug/L	monthly	1	-	-	5.1
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	24
nitrogen (ammonia)	mg/L	every 6 days	6	0.25	0.87	1.09
nitrogen (total)	mg/L	every 6 days	6	5.95	9.95	13.6
phosphorus (total)	mg/L	every 6 days	6	0.26	0.78	1.42
total suspended solids	mg/L	every 6 days	6	3	4	5
zinc	ug/L	monthly	1	-	-	26

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	15	31	50	
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 Water Resource Recovery Facility November Pollution Monitoring Summary

#### **EPL 190**

Summary period: 01-11-2024 to 30-11-2024

Date obtained: 03-12-2024

Date published: 13-12-2024

Sydney WAT≨R

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 Site code NR0004	Point descrip	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			
total suspended solids	mg/L	monthly	10	2	yes			

<sup>3</sup> 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	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	-	-	412	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
copper	ug/L	monthly	1	-	-	7.6	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	28	
nitrogen (ammonia)	mg/L	every 6 days	5	0.43	0.44	0.48	
nitrogen (total)	mg/L	every 6 days	5	7.34	7.81	8.80	
phosphorus (total)	mg/L	every 6 days	5	0.48	0.60	0.73	
total suspended solids	mg/L	every 6 days	5	2	3	4	
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	29	65	
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 Water Resource Recovery Facility October Pollution Monitoring Summary

#### **EPL 190**

Summary period: 01-10-2024 to 31-10-2024

Date obtained: 04-11-2024

Date published: 15-11-2024

### Sydney **WAT₹R**

Licensee: Sydney Water Corporation

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PARRAMATTA NSW 2124

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

EPA Point 4 Site code NR0004	Point descrip	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			
total suspended solids	mg/L	monthly	10	5	yes			

<sup>3</sup> 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	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	-	-	538	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2	
copper	ug/L	monthly	1	-	-	8.9	
diazinon	ug/L	monthly	1	-	-	<0.1	
iron	ug/L	monthly	1	-	-	36	
nitrogen (ammonia)	mg/L	every 6 days	5	0.30	0.41	0.57	
nitrogen (total)	mg/L	every 6 days	5	6.71	7.99	9.05	
phosphorus (total)	mg/L	every 6 days	5	0.24	0.47	0.75	
total suspended solids	mg/L	every 6 days	5	4	5	7	
zinc	ug/L	monthly	1	_	_	21	

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	20	46	
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 Water Resource Recovery Facility September Pollution Monitoring Summary Sydney

### **EPL 190**

Summary period: 01-09-2024 to 30-09-2024

Date obtained: 09-10-2024

Date published: 23-10-2024

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Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 Site code NR0004	Point descrip	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			
total suspended solids	mg/L	monthly	10	5	yes			

<sup>3</sup> 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	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	-	-	448		
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2		
copper	ug/L	monthly	1	-	-	6.6		
diazinon	ug/L	monthly	1	-	-	<0.1		
iron	ug/L	monthly	1	-	-	16		
nitrogen (ammonia)	mg/L	every 6 days	5	0.23	0.48	0.82		
nitrogen (total)	mg/L	every 6 days	5	6.9	7.83	8.61		
phosphorus (total)	mg/L	every 6 days	5	0.17	0.22	0.26		
total suspended solids	mg/L	every 6 days	5	<2	3	4		
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	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 Water Resource Recovery Facility August Pollution Monitoring Summary

### **EPL 190**

Summary period: 01-08-2024 to 31-08-2024

Date obtained: 07-09-2024

Date published: 13-09-2024

### Sydney **WAT ₹R**

Licensee: Sydney Water Corporation

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PARRAMATTA NSW 2124

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

EPA Point 4 Site code NR0004	Point descrip	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			
total suspended solids	mg/L	monthly	10	3	yes			

<sup>3</sup> 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
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2
copper	ug/L	monthly	1	_	-	7.5
cyanide	ug/L	bi-annually	1	_	-	<5
diazinon	ug/L	monthly	1	_	-	<0.1
iron	ug/L	monthly	1	_	-	16
nitrogen (ammonia)	mg/L	every 6 days	5	0.45	0.53	0.62
nitrogen (total)	mg/L	every 6 days	5	8.18	9.85	12.2
phosphorus (total)	mg/L	every 6 days	5	0.24	0.24	0.25
total suspended solids	mg/L	every 6 days	5	<2	3	4
zinc	ug/L	monthly	1	-	_	21

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 Water Resource Recovery Facility July Pollution Monitoring Summary**

### **EPL 190**

Summary period: 01-07-2024 to 31-07-2024

Date obtained: 13-08-2024

Date published: 27-08-2024

### Sydney WAT **₹**R

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 facilities						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits			
biochemical oxygen demand	mg/L	monthly	30	2	yes			
total suspended solids	mg/L	monthly	10	4	yes			

<sup>3</sup> 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	-	-	428
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
copper	ug/L	monthly	1	-	-	6.3
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	13
nitrogen (ammonia)	mg/L	every 6 days	5	0.51	0.59	0.64
nitrogen (total)	mg/L	every 6 days	5	8.26	9.37	10.2
phosphorus (total)	mg/L	every 6 days	5	0.17	0.24	0.31
total suspended solids	mg/L	every 6 days	5	<2	3	4
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	74	370	
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30	

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