

North Richmond Wastewater Treatment Plant

2021-22 Pollution monitoring yearly limit summaries



EPL 190

Summary period: 01-07-2021 to 30-06-2022

Date published: 30-08-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
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	maximum result	50 percentile limit	50 percentile value	within limits
biochemical oxygen demand	mg/L	every 6 days	61	<2	3	10	<2	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	2	10	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	62	0.25	2.05	0.9	0.91	no ¹
nitrogen (total)	mg/L	every 6 days	61	3.53	10.6	10	6.6	yes
phosphorus (total)	mg/L	every 6 days	61	0.05	0.58	2	0.2	yes
total suspended solids	mg/L	every 6 days	61	<2	12	5	3	yes

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90 percentile yearly summary								
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	maximum result	90 percentile limit	90 percentile value	within limits
aluminium	ug/L	monthly	12	66	706	873	630	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	3	15	2	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	2	15	<2	yes
copper	ug/L	monthly	12	1.4	5.9	7	4.8	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
iron	ug/L	monthly	12	<5	35	180	32	yes
nitrogen (ammonia)	mg/L	every 6 days	62	0.25	2.05	1.4	1.5	no ¹
nitrogen (total)	mg/L	every 6 days	61	3.53	10.6	15	8.12	yes
phosphorus (total)	mg/L	every 6 days	61	0.05	0.58	5	0.38	yes
total suspended solids	mg/L	every 6 days	61	<2	12	10	5	yes
zinc	ug/L	monthly	12	4	32	57	26	yes

¹The nitrogen (ammonia) 50th and 90th percentile exceedances were largely due to growth within the catchment area. The concentration limit exceedance risk was heightened due to the introduction of tighter concentration EPL limits from July 2020.

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Average yearly summary								
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	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	66	706	500	396	yes
copper	ug/L	monthly	12	1.4	5.9	5	4	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
iron	ug/L	monthly	12	<5	35	95	17	yes
zinc	ug/L	monthly	12	4	32	44	21	yes
cyanide	ug/L	bi-annually	2	<5	<5	-	<5	n/a

50 percentile yearly summary								
EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	50 percentile limit	50 percentile value	within limits
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes

80 percentile yearly summary								
EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	80 percentile limit	80 percentile value	within limits
faecal coliforms	CFU/100mL	every 6 days	61	<1	8,300	200	55	yes

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90 percentile yearly summary								
EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes

Average yearly summary								
EPA Point 5 Site code NR0005		Point description: Outlet of the disinfection facilities						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes

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).