

Riverstone Wastewater Treatment Plant 2021-22 Pollution Monitoring Summary



EPL 1796

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

Date published: 30-08-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 50 percentile yearly summary								
EPA Point 3 Site code RS0003		Point description: Downstream of the weir in the chlorine contact tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	50 percentile limit	50 percentile value	within limits
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	10	<2	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	10	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	1.94	1	0.01	yes
total suspended solids	mg/L	every 6 days	61	<2	3	10	<2	yes

Table 1: 50 percentile yearly summary								
EPA Point 4 Site code RS0004		Point description: At the outlet of the chlorine contact tank						
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

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Table 2: 80 percentile yearly summary

EPA Point 4 Site code RS0004		Point description: At the outlet of the chlorine contact tank						
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	47	200	7	yes

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Table 3: 90 percentile yearly summary

EPA Point 3 Site code RS0003		Point description: Downstream of the weir in the chlorine contact tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limit
aluminium	ug/L	monthly	12	5	54	3,200	49	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	15	<2	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	15	<2	yes
cobalt	ug/L	bi-annually	2	0.3	0.3	-	0.3	n/a
copper	ug/L	monthly	12	<0.5	1.1	6	1.1	yes
cyanide	ug/L	bi-annually	2	<5	<5	-	<5	n/a
iron	ug/L	monthly	12	<5	26	650	12	yes
nickel	ug/L	bi-annually	2	1.5	2.1	-	2.1	n/a
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	1.94	5	0.03	yes
total suspended solids	mg/L	every 6 days	61	<2	3	15	<2	yes
zinc	ug/L	monthly	12	<1	12	990	12	yes

Table 3: 90 percentile yearly summary

EPA Point 4 Site code RS0004		Point description: At the outlet of the chlorine contact tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limit
chlorine (total residual)	mg/L	every 6 days	61	<0.04	0.18	0.1	<0.04	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	340	<30	yes

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Table 4: 100 percentile yearly summary

EPA Point 3 Site code RS0003		Point description: Downstream of the weir in the chlorine contact tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	100 percentile limit	100 percentile value	within limits
nitrogen (total)	mg/L	every 6 days	61	0.79	6.54	45	6.54	yes
phosphorus	mg/L	every 6 days	61	0.01	0.1	5	0.1	yes

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Table 5: Average yearly summary								
EPA Point 3 Site code RS0003		Point description: Downstream of the weir in the chlorine contact tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average limit	Average value	within limits
aluminium	ug/L	monthly	12	5	54	330	35	yes
cobalt	ug/L	bi-annually	2	0.3	0.3	-	0.3	n/a
copper	ug/L	monthly	12	<0.5	1.1	14.4	1	yes
cyanide	ug/L	bi-annually	2	<5	<5	-	<5	n/a
iron	ug/L	monthly	12	<5	26	380	9	yes
nickel	ug/L	bi-annually	2	1.5	2.1	-	2	n/a
zinc	ug/L	monthly	12	<1	12	70	8	yes

Table 5: Average yearly summary								
EPA Point 4 Site code RS0004		Point description: At the outlet of the chlorine contact tank						
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	83	<30	yes

Effluent quality monitoring results obtained from EPA Points 3 and 4 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).