Riverstone Wastewater Treatment Plant
2020-21 Pollution Monitoring Summary

EPL 1796

Summary period: 01-07-2020 to 30-06-2021

Date published: 13-08-2021

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**
biochemical oxygen demand	mg/L	every 6 days	50	<2	<2	10	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	0.09	0.9	0.01	yes
total suspended solids	mg/L	every 6 days	61	<2	3	5	<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	400	200	25	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	16	63	240	46	yes
biochemical oxygen demand	mg/L	every 6 days	50	<2	<2	15	<2	yes
cobalt	ug/L	monthly	2	0.4	0.4	-	0.4	n/a
copper	ug/L	monthly	12	0.7	2.2	6	1.4	yes
cyanide	ug/L	monthly	2	<5	<5	-	<5	n/a
iron	ug/L	monthly	12	7	24	96	18	yes
nickel	ug/L	monthly	2	1.3	1.8	-	1.8	n/a
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	0.09	1.4	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	3	10	<2	yes
zinc	ug/L	monthly	12	6	11	56	11	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	<0.04	0.1	<0.04	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<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	0.97	8.11	45	8.11	yes
phosphorus	mg/L	every 6 days	61	<0.01	0.14	5	0.14	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	16	63	133	33	yes
cobalt	ug/L	monthly	2	0.4	0.4	-	0.4	n/a
copper	ug/L	monthly	12	0.7	2.2	5	1	yes
cyanide	ug/L	monthly	2	<5	<5	-	<5	n/a
iron	ug/L	monthly	12	7	24	55	12	yes
nickel	ug/L	monthly	2	1.3	1.8	-	2	n/a
zinc	ug/L	monthly	12	6	11	31	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	30	<30	yes

Note: Sydney Water commenced monitoring of biochemical oxygen demand from 1st September 2020. Historically, carbonaceous biochemical oxygen demand was monitored.

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).