

Rouse Hill Wastewater Treatment Plant

2019-20 Pollution monitoring yearly limit summaries



EPL 4965

Summary period: 01-07-2019 to 30-06-2020

Date published: 10-08-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks						
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	4	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes
faecal coliforms	CFU/100mL	every 6 days	61	<1	14	50	<1	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.02	1.87	1	0.07	yes
nitrogen (total)	mg/L	every 6 days	61	5.05	9.65	10	6.79	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.04	0.2	0.01	yes
total suspended solids	mg/L	every 6 days	61	<2	4	5	<2	yes

80 percentile yearly summary								
EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks						
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	14	200	1	yes

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90 percentile yearly summary								
EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks						
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	58	468	7,300	185	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	5	<2	yes
chlorine (total residual)	mg/L	every 6 days	61	<0.04	0.29	0.1	<0.04	yes
cobalt	ug/L	monthly	12	0.3	0.5	2.6	0.4	yes
copper	ug/L	monthly	12	2.1	3.8	1,300	3.8	yes
cyanide	ug/L	monthly	12	<5	<5	195	<5	yes
iron	ug/L	monthly	12	12	75	740	40	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.02	1.87	2	0.39	yes
nitrogen (total)	mg/L	every 6 days	61	5.05	9.65	15	7.89	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.04	0.4	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	4	8	<2	yes
zinc	ug/L	monthly	12	15	25	230	24	yes

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Average yearly summary								
EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	58	468	380	137	yes
cobalt	ug/L	monthly	12	0.3	0.5	1.7	0.4	yes
copper	ug/L	monthly	12	2.1	3.8	58	3	yes
cyanide	ug/L	monthly	12	<5	<5	22	<5	yes
iron	ug/L	monthly	12	12	75	410	27	yes
zinc	ug/L	monthly	12	15	25	62	21	yes

EPA Point 5 Site code RH0005	Point description: Downstream of the dechlorinated effluent					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
carbonaceous biochemical oxygen demand	mg/L	on bypass ¹	1	-	-	5
chlorine (total residual)	mg/L	on bypass ¹	1	-	-	1.21
faecal coliforms	CFU/100mL	on bypass ¹	1	-	-	80
nitrogen (ammonia)	mg/L	on bypass ¹	1	-	-	3.6
nitrogen (total)	mg/L	on bypass ¹	1	-	-	9.78
phosphorus (total)	mg/L	on bypass ¹	1	-	-	0.68
total suspended solids	mg/L	on bypass ¹	1	-	-	22

1. Under Special Frequency 2 collection of samples during the occurrence of any bypass during normal working hours from Point 5.