

Rouse Hill Wastewater Treatment Plant

2020-21 Pollution monitoring yearly limit summaries



EPL 4965

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

Date published: 16-08-2021

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
biochemical oxygen demand	mg/L	every 6 days	50	<2	3	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	14,000	50	<1	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.02	4.62	0.9	0.19	yes
nitrogen (total)	mg/L	every 6 days	61	4.77	10.5	10	6.96	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.15	0.2	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	13	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	14,000	200	2	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	64	170	340	167	yes
biochemical oxygen demand	mg/L	every 6 days	50	<2	3	5	<2	yes
chlorine (total residual)	mg/L	every 6 days	61	<0.04	0.38	0.1	<0.04	yes
cobalt	ug/L	monthly	2	0.4	0.4	-	0.4	n/a
copper	ug/L	monthly	12	2.5	3.8	7	3.7	yes
cyanide	ug/L	monthly	2	<5	<5	-	<5	n/a
iron	ug/L	monthly	12	15	33	52	25	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.02	4.62	1.4	0.53	yes
nitrogen (total)	mg/L	every 6 days	61	4.77	10.5	15	8.59	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.15	0.4	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	13	8	<2	yes
zinc	ug/L	monthly	12	18	31	39	29	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	64	170	220	114	yes
cobalt	ug/L	monthly	2	0.4	0.4	-	0.4	n/a
copper	ug/L	monthly	12	2.5	3.8	5	3	n/a
cyanide	ug/L	monthly	2	<5	<5	-	<5	n/a
iron	ug/L	monthly	12	15	33	37	22	yes
zinc	ug/L	monthly	12	18	31	33	25	yes

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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
biochemical oxygen demand	mg/L	on bypass ¹	4	<2	<2	5
chlorine (total residual)	mg/L	on bypass ¹	5	<0.04	0.05	0.09
faecal coliforms	CFU/100mL	on bypass ¹	6	63	71,444	260,000
nitrogen (ammonia)	mg/L	on bypass ¹	6	1	2.1	3.7
nitrogen (total)	mg/L	on bypass ¹	6	4.96	6.81	9.34
phosphorus (total)	mg/L	on bypass ¹	6	0.02	0.21	0.56
total suspended solids	mg/L	on bypass ¹	6	<2	11	30

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

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).

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