

Rouse Hill Wastewater Treatment Plant

2021-22 Pollution monitoring yearly limit summaries



EPL 4965

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 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	61	<2	<2	4	<2	yes
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	3,600	50	1	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	1.71	0.9	0.07	yes
nitrogen (total)	mg/L	every 6 days	61	4.6	9.58	10	6.43	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.05	0.2	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	5	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	3,600	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	70	156	340	154	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	5	<2	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	0.16	0.1	<0.04	yes
copper	ug/L	monthly	12	2.2	4.2	7	3.4	yes
iron	ug/L	monthly	12	<5	33	52	22	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	1.71	1.4	0.59	yes
nitrogen (total)	mg/L	every 6 days	61	4.6	9.58	15	8.55	yes
phosphorus (total)	mg/L	every 6 days	61	0.01	0.05	0.4	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	5	8	<2	yes
zinc	ug/L	monthly	12	14	32	39	30	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	70	156	220	109	yes
cobalt	ug/L	bi-annually	2	0.3	0.4	-	2.9	n/a
copper	ug/L	monthly	12	2.2	4.2	5	3	yes
cyanide	ug/L	bi-annually	2	<5	<5	-	<5	n/a
iron	ug/L	monthly	12	<5	33	37	18	yes
zinc	ug/L	monthly	12	14	32	33	22	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).

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	7	7	5.9	13
carbonaceous biochemical oxygen demand	mg/L	on bypass ¹	7	7	5.9	13
faecal coliforms	CFU/100mL	on bypass ¹	7	890	53699	200000
nitrogen (ammonia)	mg/L	on bypass ¹	7	0.1	1.7	3.1
nitrogen (total)	mg/L	on bypass ¹	7	3.18	4.74	6.48
phosphorus (total)	mg/L	on bypass ¹	7	0.055	0.206	0.444
total suspended solids	mg/L	on bypass ¹	7	<2	8.4	19

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).