

Hornsby Heights Wastewater Treatment Plant

2021-22 Pollution monitoring yearly limit summaries



EPL 750

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 5 Site code HH0005		Point description: Downstream of the disinfection facilities						
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	60	<2	39	10	<2	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	60	<2	23	10	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	60	<0.01	3.64	0.9	0.01	yes
nitrogen (total)	mg/L	every 6 days	60	0.6	8.93	10	2.72	yes
phosphorus (total)	mg/L	every 6 days	60	0.02	1.25	0.3	0.05	yes
total suspended solids	mg/L	every 6 days	60	<2	53	5	<2	yes

80 percentile yearly summary								
EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities						
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	300,000	200	16	yes

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90 percentile yearly summary								
EPA Point 5 Site code HH0005	Point description: Downstream of the disinfection facilities							
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	<5	89	1,100	76	yes
biochemical oxygen demand	mg/L	every 6 days	60	<2	39	15	4	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	60	<2	23	15	3	yes
copper	ug/L	monthly	12	0.8	5.9	12	5.2	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.1	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes
iron	ug/L	monthly	12	10	95	1,900	64	yes
nitrogen (ammonia)	mg/L	every 6 days	60	<0.01	3.64	1.4	0.86	yes
nitrogen (total)	mg/L	every 6 days	60	0.6	8.93	15	6.31	yes
phosphorus (total)	mg/L	every 6 days	60	0.02	1.25	1	0.21	yes
total suspended solids	mg/L	every 6 days	60	<2	53	10	4	yes
zinc	ug/L	monthly	12	3	16	42	14	yes

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Average yearly summary								
EPA Point 5 Site code HH0005	Point description: Downstream of the disinfection facilities							
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	89	420	30	yes
copper	ug/L	monthly	12	0.8	5.9	8	3	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes
iron	ug/L	monthly	12	10	95	520	38	yes
zinc	ug/L	monthly	12	3	16	19	9	yes
cobalt	ug/L	bi-annually	2	0.4	0.6	-	0.5	n/a
cyanide	ug/L	bi-annually	2	<5	<5	-	<5	n/a
nickel	ug/L	bi-annually	2	2	2.5	-	2.25	n/a

Effluent quality monitoring results obtained from EPA Point 5 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).