

Hornsby Heights Wastewater Treatment Plant

2020-21 Pollution monitoring yearly limit summaries



EPL 750

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

Date published: 13-08-2021

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	51	<2	40	10	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	4.34	0.9	0.01	yes
nitrogen (total)	mg/L	every 6 days	61	2.11	14.2	10	5.83	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	2.4	0.3	0.09	yes
total suspended solids	mg/L	every 6 days	61	<2	79	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	100,000	200	5	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	6	2,330	1,100	46	yes
biochemical oxygen demand	mg/L	every 6 days	51	<2	40	15	<2	yes
cobalt	ug/L	monthly	2	0.4	0.4	-	0.4	n/a
copper	ug/L	monthly	12	1.8	29	12	7.9	yes
cyanide	ug/L	monthly	2	<5	<5	-	<5	n/a
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	23	1,650	1,900	73	yes
nickel	ug/L	monthly	2	2.3	2.4	15.7	2.4	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	4.34	1.4	0.21	yes
nitrogen (total)	mg/L	every 6 days	61	2.11	14.2	15	10.1	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	2.4	1	0.31	yes
total suspended solids	mg/L	every 6 days	61	<2	79	10	<2	yes
zinc	ug/L	monthly	12	13	52	42	32	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	6	2,330	420	211	yes
cobalt	ug/L	monthly	2	0.4	0.4	-	0.4	n/a
copper	ug/L	monthly	12	1.8	29	8	6	yes
cyanide	ug/L	monthly	2	<5	<5	-	<5	n/a
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	23	1,650	520	175	yes
nickel	ug/L	monthly	2	2.3	2.4	12	2	yes
zinc ²	ug/L	monthly	12	13	52	19	23	no

²The Total Zinc average concentration exceedance was largely influenced by wet weather flows received by the facility, in particular the significant wet weather event experienced from 19th March 2021.

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).

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