

West Hornsby Wastewater Treatment Plant

2022-23 Pollution monitoring yearly limit summaries



EPL 1695

Summary period: 01-07-2022 to 30-06-2023

Date published: 01-09-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 5 Site code WH0005		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	61	<2	13	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	2.62	0.9	0.02	yes
nitrogen (total)	mg/L	every 6 days	61	1.2	6.9	10	2.9	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	0.57	0.3	0.04	yes
total suspended solids	mg/L	every 6 days	61	<2	16	5	<2	yes

80 percentile yearly summary								
EPA Point 5 Site code WH0005		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	60	<1	98,000	200	86	yes

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90 percentile yearly summary								
EPA Point 5 Site code WH0005	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	103	389	620	267	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	13	15	<2	yes
copper	ug/L	monthly	12	2.3	6.5	17	4.2	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes
iron	ug/L	monthly	12	24	228	1,500	85	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	2.62	1.4	0.7	yes
nitrogen (total)	mg/L	every 6 days	61	1.2	6.9	15	4.65	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	0.57	1	0.09	yes
total suspended solids	mg/L	every 6 days	61	<2	16	10	<2	yes
zinc	ug/L	monthly	12	9	18	40	17	yes

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Average yearly summary								
EPA Point 5 Site code WH0005	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	103	389	330	182	yes
copper	ug/L	monthly	12	2.3	6.5	8	3	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes
iron	ug/L	monthly	12	24	228	490	59	yes
zinc	ug/L	monthly	12	9	18	26	13	yes

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).

As per clause M2.4 under EPL 1695, collection of daily samples from EPA Points 7 or 10 is required during the occurrence of any bypass or discharge from EPA Point 8 or 9, greater than 2 hours during normal working hours. There was no bypass recorded from EPA Point 8 or 9 during normal working hours greater than 2 hours in the 2022-23 period.