

West Camden Wastewater Treatment Plant

2022-23 Pollution monitoring yearly limit summaries



EPL 1675

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 WC0005		Point description: At the outlet of the chlorine contact tank						
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	74	10	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	70.7	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	60	0.02	16.7	0.9	1.6	no ¹
nitrogen (total)	mg/L	every 6 days	60	6.49	25	10	12.3	no ¹
phosphorus (total)	mg/L	every 6 days	60	0.01	2.36	0.3	0.03	yes
total suspended solids	mg/L	every 6 days	60	<2	86	10	<2	yes

80 percentile yearly summary								
EPA Point 5 Site code WC0005		Point description: At the outlet of the chlorine contact tank						
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	190	200	3	yes

¹ Ammonia nitrogen and total nitrogen exceedances were largely influenced by catchment growth and subsequent increasing inflows to West Camden WRRF exceeding the treatment capacity of the biological processes.

The West Camden amplification project currently underway aims to increase treatment capacity and improve effluent quality into the future.

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90 percentile yearly summary								
EPA Point 5 Site code WC0005	Point description: At the outlet of the chlorine contact tank							
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	58	173	500	167	yes
biochemical oxygen demand	mg/L	every 6 days	60	<2	74	15	<2	yes
chlorine (total residual)	mg/L	every 6 days	61	<0.04	0.5	0.1	<0.04	yes
copper	ug/L	monthly	12	0.5	1.1	5	1	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	26	81	240	46	yes
nitrogen (ammonia)	mg/L	every 6 days	60	0.02	16.7	1.4	9.2	no ¹
nitrogen (total)	mg/L	every 6 days	60	6.49	25	15	18.8	no ¹
phosphorus (total)	mg/L	every 6 days	60	0.01	2.36	1	0.05	yes
total suspended solids	mg/L	every 6 days	60	<2	86	15	<2	yes
zinc	ug/L	monthly	12	6	21	37	18	yes

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Average yearly summary								
EPA Point 5 Site code WC0005	Point description: At the outlet of the chlorine contact tank							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	58	173	130	94	yes
copper	ug/L	monthly	12	0.5	1.1	4	0.7	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	26	81	170	41	yes
zinc	ug/L	monthly	12	6	21	31	13	yes