

West Camden Wastewater Treatment Plant

2021-22 Pollution monitoring yearly limit summaries



EPL 1675

Summary period: 01-07-2021 to 30-06-2022

Date published: 30-08-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 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	61	<2	7	10	<2	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	10	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes
nitrogen (ammonia) ¹	mg/L	every 6 days	46	0.02	22.5	0.9	2.64	no ²
nitrogen (total)	mg/L	every 6 days	61	5.23	26.1	10	9.98	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	0.18	0.3	0.03	yes
total suspended solids	mg/L	every 6 days	61	<2	5	10	<2	yes

Table 2: 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
nitrogen (ammonia) ¹	mg/L	every 6 days	15	0.08	3.42	1	1.78	no ²

¹A change in the West Camden EPL on 16th May 2022 resulted in a change in limit for nitrogen (ammonia) for both 50th and 90th percentiles. Sample results and corresponding limits for period 1 July 2021 to 16th May 2022 can be found in Table 1, and results and limits for period 16th May 2022 to 30th June 2022 can be found in Table 2. These changes also apply to 90th percentile tables 4 and 5.

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Table 3: 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	51	212	500	169	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	7	15	<2	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	15	<2	yes
chlorine (total residual)	mg/L	every 6 days	61	<0.04	1.3	0.1	<0.04	yes
copper	ug/L	monthly	12	<0.5	1.5	5	1.2	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes
iron	ug/L	monthly	12	23	232	240	43	yes
nitrogen (ammonia) ¹	mg/L	every 6 days	46	0.02	22.5	1.4	6.57	no ²
nitrogen (total)	mg/L	every 6 days	61	5.23	26.1	15	14	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	0.18	1	0.06	yes
total suspended solids	mg/L	every 6 days	61	<2	5	15	<2	yes
zinc	ug/L	monthly	12	6	19	37	18	yes

Table 4: 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
nitrogen (ammonia) ¹	mg/L	every 6 days	15	0.08	3.42	3.5	3.11	yes

² Ammonia 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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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	44	200	2	yes

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	51	212	130	110	yes
cyanide	ug/L	bi-annually	2	<5	<5	-	<5	n/a
cobalt	ug/L	bi-annually	2	0.5	0.6	-	0.55	n/a
copper	ug/L	monthly	12	<0.5	1.5	4	1	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
nickel	ug/L	bi-annually	2	2.1	3.4	-	2.75	n/a
iron	ug/L	monthly	12	23	232	170	49	yes
zinc	ug/L	monthly	12	6	19	31	12	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).