

Castle Hill Water Resource Recovery Facility

July Pollution Monitoring Summary



EPL 1725

Summary period: 01-07-2025 to 31-07-2025
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Licensee: Sydney Water Corporation
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Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code CH0005		Point description: In the channel between the tertiary filters and the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	10	<2	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 5 Site code CH0005		Point description: In the channel between the tertiary filters and the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	62
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
cadmium	ug/L	monthly	1	-	-	<0.1
copper	ug/L	monthly	1	-	-	5.7
diazinon	ug/L	monthly	1	-	-	<0.1
iron	ug/L	monthly	1	-	-	29
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.14	0.25
nitrogen (total)	mg/L	every 6 days	5	11.8	14.52	15.8
phosphorus (total)	mg/L	every 6 days	5	0.06	0.1	0.13
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	24

EPA Point 6 Site code CH0006		Point description: At the outlet from the STP disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	1	57	260
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

Effluent quality monitoring results obtained from EPA Points 5 and 6 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).