

Quakers Hill Wastewater Treatment Plant

July Pollution Monitoring Summary



EPL 1724

Summary period: 01-07-2021 to 31-07-2021

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Licensee: Sydney Water Corporation

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Table 1: 3 Day Geometric Mean and 100 percentile data

EPA Point 4 Site code QH0004		Point description: Downstream of the overflow weir in the clean water tank					
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM actual	100 percentile limit	100 percentile actual	within limits
biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	-	-	yes
nitrogen (total)	mg/L	every 6 days	-	-	45	6.39	yes
phosphorus	mg/L	every 6 days	-	-	5	0.05	yes
total suspended solids	mg/L	monthly	10	<2	-	-	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

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 4 Site code QH0004		Point description: Downstream of the overflow weir in the clean water tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	113
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3
cadmium	ug/L	monthly	1	-	-	<0.1
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
chromium	ug/L	monthly	1	-	-	0.6
copper	ug/L	monthly	1	-	-	3.4
manganese	ug/L	monthly	1	-	-	15
nitrogen (ammonia)	mg/L	every 6 days	5	0.03	0.19	0.53
nitrogen (total)	mg/L	every 6 days	5	5.09	5.66	6.39
phosphorus	mg/L	every 6 days	5	0.04	0.04	0.05
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	25

EPA Point 5 Site code QH0005		Point description: At the outlet of the chlorine contact tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
chlorine (total residual)	mg/L	every 6 days	6	<0.04	<0.04	<0.04
faecal coliforms	CFU/100mL	every 6 days	6	2	6	12
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 4 and 5 are used to indicate the quality of water discharged at EPA Point 1

(discharge to waters).