

# Quakers Hill Wastewater Treatment Plant 2022-23 Pollution Monitoring Summary



## EPL 1724

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

Date published: 01-09-2023

**Licensee:** Sydney Water Corporation  
PO Box 399  
PARRAMATTA NSW 2124

Table 1: 50 percentile yearly summary								
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	maximum result	50 percentile limit	50 percentile value	within limits
biochemical oxygen demand	mg/L	every 6 days	61	<2	4	10	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	0.6	0.9	0.01	yes
total suspended solids	mg/L	every 6 days	61	<2	3	5	<2	yes

Table 1: 50 percentile yearly summary								
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	maximum result	50 percentile limit	50 percentile value	within limits
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes

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**Table 2: 80 percentile yearly summary**

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	maximum result	80 percentile limit	80 percentile value	within limits
faecal coliforms	CFU/100mL	every 6 days	60	<1	290	200	40	yes

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Table 3: 90 percentile yearly summary								
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	maximum result	90 percentile limit	90 percentile value	within limit
aluminium	ug/L	monthly	12	89	185	190	178	yes
biochemical oxygen demand	mg/L	every 6 days	61	<2	4	15	<2	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.3	<0.1	yes
chromium	ug/L	monthly	12	0.3	1.4	4	1.3	yes
copper	ug/L	monthly	12	2.3	5.7	6	4.9	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	0.6	1.4	0.14	yes
total suspended solids	mg/L	every 6 days	61	<2	3	10	<2	yes
zinc	ug/L	monthly	12	12	25	41	24	yes

Table 3: 90 percentile yearly summary								
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	maximum result	90 percentile limit	90 percentile value	within limit
chlorine (total residual)	mg/L	every 6 days	60	<0.04	0.38	0.1	<0.04	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes

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**Table 4: 100 percentile yearly summary**

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	maximum result	100 percentile limit	100 percentile value	within limits
nitrogen (total)	mg/L	every 6 days	61	2.66	8.47	45	8.47	yes
phosphorus	mg/L	every 6 days	61	0.05	0.29	5	0.29	yes

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**Table 5: Average yearly summary**

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	maximum result	Average limit	Average value	within limits
aluminium	ug/L	monthly	12	89	185	120	129	no <sup>1</sup>
cadmium	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
chromium	ug/L	monthly	12	0.3	1.4	3	1	yes
copper	ug/L	monthly	12	2.3	5.7	5	4	yes
zinc	ug/L	monthly	12	12	25	34	18	yes

**Table 5: Average yearly summary**

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	maximum result	Average limit	Average value	within limits
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes

<sup>1</sup> Aluminium average limit exceedance is believed to be related to 60% of facility inflow being diverted to activated granular sludge as part of the Lower South Creek Treatment Upgrade Program.