

Quakers Hill Wastewater Treatment Plant 2016-17 Pollution Monitoring Summary



EPL 1724

Summary period: 01-07-2016 to 30-06-2017

Date published: 11-08-2017

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	60	<2	3	10	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	60	0.01	4.6	1	0.05	yes
total suspended solids	mg/L	every 6 days	60	<2	4	10	<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	61	<1	550	200	13	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	44	337	2,300	173	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	34	<0.1	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	60	<2	3	15	<2	yes
chromium	ug/L	monthly	12	<0.2	1	590	0.7	yes
cobalt	ug/L	monthly	12	0.3	0.6	2.4	0.6	yes
copper	ug/L	monthly	12	2	4.9	210	4.3	yes
manganese	ug/L	monthly	12	13.2	47.8	5,200	41.9	yes
molybdenum	ug/L	monthly	12	0.9	2.2	800	2.1	yes
nickel	ug/L	monthly	12	1.9	3.2	270	2.9	yes
nitrogen (ammonia)	mg/L	every 6 days	60	0.01	4.6	5	0.96	yes
total suspended solids	mg/L	every 6 days	60	<2	4	15	2	yes
zinc	ug/L	monthly	12	12	26	240	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	61	<0.04	0.6	0.1	<0.04	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	160	<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	60	3.24	7.43	45	7.43	yes
phosphorus	mg/L	every 6 days	60	0.03	0.24	5	0.24	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	44	337	130	100	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	5.6	<0.1	yes
chromium	ug/L	monthly	12	<0.2	1	25	0.4	yes
cobalt	ug/L	monthly	12	0.3	0.6	1.6	0.4	yes
copper	ug/L	monthly	12	2	4.9	22	3	yes
manganese	ug/L	monthly	12	13.2	47.8	3,000	29	yes
molybdenum	ug/L	monthly	12	0.9	2.2	460	2	yes
nickel	ug/L	monthly	12	1.9	3.2	19.1	2	yes
zinc	ug/L	monthly	12	12	26	43	19	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	65	<30	yes