

Castle Hill Wastewater Treatment Plant

2017-18 Pollution monitoring yearly limit summaries



EPL 1725

Summary period: 01-07-2017 to 30-06-2018

Date published: 14-09-2018

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
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	maximum result	50 percentile limit	50 percentile value	within limits
carbonaceous biochemical oxygen demand	mg/L	every 6 days	60	<2	7	7	<2	yes
nitrogen (ammonia)	mg/L	every 6 days	60	0.01	3.47	1	0.04	yes
nitrogen (total)	mg/L	every 6 days	60	12.8	21.4	20	17.8	yes
phosphorus (total)	mg/L	every 6 days	60	0.04	0.39	0.3	0.09	yes
total suspended solids	mg/L	every 6 days	60	<2	4	7	2	yes

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90 percentile yearly summary								
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	maximum result	90 percentile limit	90 percentile value	within limits
aluminium	ug/L	monthly	12	42	285	6,400	89	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	9.8	<0.1	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	60	<2	7	10	<2	yes
cobalt	ug/L	monthly	12	0.2	0.6	4.2	0.4	yes
copper	ug/L	monthly	12	3.8	7.9	89	6.5	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	1.5	<0.1	yes
iron	ug/L	monthly	12	30	66	3,000	58	yes
nitrogen (ammonia)	mg/L	every 6 days	60	0.01	3.47	5	0.85	yes
nitrogen (total)	mg/L	every 6 days	60	12.8	21.4	25	20.1	yes
phosphorus (total)	mg/L	every 6 days	60	0.04	0.39	1	0.3	yes
total suspended solids	mg/L	every 6 days	60	<2	4	10	<2	yes
zinc	ug/L	monthly	12	8	18	90	16	yes

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Average yearly summary								
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	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	42	285	640	86	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	0.5	<0.1	yes
cobalt	ug/L	monthly	12	0.2	0.6	1.4	0.3	yes
copper	ug/L	monthly	12	3.8	7.9	24	5.5	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.3	<0.1	yes
iron	ug/L	monthly	12	30	66	360	42.3	yes
zinc	ug/L	monthly	12	8	18	40	13	yes

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

80 percentile yearly summary								
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	maximum result	80 percentile limit	80 percentile value	within limits
faecal coliforms	CFU/100mL	every 6 days	61	<1	190,000	200	10	yes

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90 percentile yearly summary								
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	maximum result	90 percentile limit	90 percentile value	within limits
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	36	480	<30	yes

Average yearly summary								
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	maximum result	Average Limit	Average value	within limits
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	36	92	<30	yes