

# Penrith Wastewater Treatment Plant

## 2015-16 Pollution monitoring yearly limit summaries



### EPL 1409

Summary period: 01-07-2015 to 30-06-2016

Date published: 29-09-2016

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 5 Site code PR0005		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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	11	10	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	35.4	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.02	2.7	1	0.03	yes
nitrogen (total)	mg/L	every 6 days	61	2.24	7.49	10	3.16	yes
phosphorus (total)	mg/L	every 6 days	61	0.06	0.17	0.2	0.07	yes
total suspended solids	mg/L	every 6 days	61	<2	12	10	<2	yes

80 percentile yearly summary								
EPA Point 5 Site code PR0005		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	6	1,100	200	82	yes

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90 percentile yearly summary								
EPA Point 5 Site code PR0005	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 limits
aluminium	ug/L	monthly	12	150	289	2,000	214	yes
arsenic	ug/L	monthly	12	<1	<1	1,400	<1	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	350	<0.1	yes
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	<2	11	15	<2	yes
cobalt	ug/L	monthly	12	0.6	1.2	2	1.1	yes
copper	ug/L	monthly	12	4	7	96	6	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<5	18	530	8	yes
iron	ug/L	monthly	12	95	247	2,600	218	yes
nickel	ug/L	monthly	12	2	8	170	5	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.02	2.7	5	0.79	yes
nitrogen (total)	mg/L	every 6 days	61	2.24	7.49	15	5.01	yes
phosphorus (total)	mg/L	every 6 days	61	0.06	0.17	0.4	0.12	yes
total suspended solids	mg/L	every 6 days	61	<2	12	15	<2	yes
zinc	ug/L	monthly	12	36	111	210	59	yes

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Average yearly summary								
EPA Point 5 Site code PR0005		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
aluminium	ug/L	monthly	12	150	289	510	194	yes
arsenic	ug/L	monthly	12	<1	<1	44	<1	yes
cadmium	ug/L	monthly	12	<0.1	<0.1	8.2	<0.1	yes
cobalt	ug/L	monthly	12	0.6	1.2	1.5	0.9	yes
copper	ug/L	monthly	12	4	7	14.7	5	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<5	18	85	<5	yes
iron	ug/L	monthly	12	95	247	330	168	yes
nickel	ug/L	monthly	12	2	8	22	4	yes
zinc	ug/L	monthly	12	36	111	60	51	yes

90 percentile yearly summary								
EPA Point 21 Site code PR0021		Point description: PR0021						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
chlorine (total residual)	mg/L	every 6 days	60	<0.04	0.32	0.1	<0.04	yes