

Picton Wastewater Treatment Plant

2016-17 Pollution monitoring yearly limit summaries



EPL 10555

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

Date published: 11-08-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 1 Site code PI0001		Point description: Outlet of the effluent buffer tank at the western dam						
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	on bypass	79	<2	12	7	<2	yes
nitrogen (ammonia)	mg/L	on bypass	79	<0.1	0.4	0.5	<0.1	yes
nitrogen (total)	mg/L	on bypass	79	3.31	7.98	6	4.96	yes
phosphorus (total)	mg/L	on bypass	79	0.01	0.39	0.2	0.03	yes
total suspended solids	mg/L	on bypass	79	<2	29	7	<2	yes

80 percentile yearly summary								
EPA Point 1 Site code PI0001		Point description: Outlet of the effluent buffer tank at the western dam						
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	on bypass	78	6	8,000	200	250	no ¹

1. Contamination of western dam (where disinfected effluent is stored) from birds contributed to faecal coliform exceedance.

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90 percentile yearly summary								
EPA Point 1 Site code PI0001	Point description: Outlet of the effluent buffer tank at the western dam							
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
carbonaceous biochemical oxygen demand	mg/L	on bypass	79	<2	12	10	4	yes
nitrogen (ammonia)	mg/L	on bypass	79	<0.1	0.4	1	0.2	yes
nitrogen (total)	mg/L	on bypass	79	3.31	7.98	10	5.63	yes
phosphorus (total)	mg/L	on bypass	79	0.01	0.39	0.4	0.18	yes
total suspended solids	mg/L	on bypass	79	<2	29	15	16	no ²

2. Algal bout in the western dam where the disinfected effluent is stored, contributed to total suspended solids exceedance.

50 percentile yearly summary								
EPA Point 11 Site code PI0011	Point description: Outlet of the effluent irrigation eastern dam							
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 when irrigating	12	<2	5	10	3	yes
faecal coliforms	CFU/100mL	every 6 days when irrigating	12	<1	200	2,000	6	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	12	0.01	0.25	2	0.02	yes
nitrogen (total)	mg/L	every 6 days when irrigating	12	1.68	2.88	10	2.19	yes
pH	pH Units	every 6 days when irrigating	12	7.72	9.72	6.5 - 9.5	9.16	yes
phosphorus (total)	mg/L	every 6 days when irrigating	12	0.07	0.32	8	0.09	yes
total suspended solids	mg/L	every 6 days when irrigating	12	<2	15	120	6	yes

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90 percentile yearly summary								
EPA Point 11 Site code PI0011		Point description: Outlet of the effluent irrigation eastern dam						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	12	<2	5	15	5	yes
faecal coliforms	CFU/100mL	every 6 days when irrigating	12	<1	200	10,000	48	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	12	0.01	0.25	5	0.21	yes
nitrogen (total)	mg/L	every 6 days when irrigating	12	1.68	2.88	15	2.74	yes
phosphorus (total)	mg/L	every 6 days when irrigating	12	0.07	0.32	9	0.32	yes
total suspended solids	mg/L	every 6 days when irrigating	12	<2	15	480	13	yes

50 percentile yearly summary								
EPA Point 13 Site code PI0013		Point description: Outlet of the effluent irrigation western dam						
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 when irrigating	8	<2	21	7	<2	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	8	<0.01	0.09	0.5	0.02	yes
nitrogen (total)	mg/L	every 6 days when irrigating	8	3.88	5.5	6	4.73	yes
pH	pH Units	every 6 days when irrigating	8	7.86	9.14	6.5 - 9.5	8.42	yes
phosphorus (total)	mg/L	every 6 days when irrigating	8	0.02	0.07	0.2	0.04	yes
total suspended solids	mg/L	every 6 days when irrigating	8	<2	8	7	<2	yes

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90 percentile yearly summary								
EPA Point 13 Site code PI0013		Point description: Outlet of the effluent irrigation western dam						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
carbonaceous biochemical oxygen demand	mg/L	every 6 days when irrigating	8	<2	21	10	21	no ³
faecal coliforms	CFU/100mL	every 6 days when irrigating	8	5	200	200	200	yes
nitrogen (ammonia)	mg/L	every 6 days when irrigating	8	<0.01	0.09	1	0.09	yes
nitrogen (total)	mg/L	every 6 days when irrigating	8	3.88	5.5	10	5.5	yes
phosphorus (total)	mg/L	every 6 days when irrigating	8	0.02	0.07	0.4	0.07	yes
total suspended solids	mg/L	every 6 days when irrigating	8	<2	8	15	8	yes

3. Low frequency irrigation from the western dam resulted in low number of samples collected. A single anomolous result exceeded the 90th percentile causing the non-compliance.