

Wallacia Wastewater Treatment Plant

2020-21 Pollution monitoring yearly limit summaries



EPL 12235

Summary period: 01-07-2020 to 30-06-2021

Date published: 13-08-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 4 Site code WL0004		Point description: From the dechlorination 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	51	<2	3	5	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	100	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	2.58	0.5	0.08	yes
nitrogen (total)	mg/L	every 6 days	61	1.74	7.2	7.5	3.42	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	0.3	0.15	0.04	yes
total suspended solids	mg/L	every 6 days	61	<2	9	5	<2	yes

80 percentile yearly summary								
EPA Point 4 Site code WL0004		Point description: From the dechlorination 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	22	200	4	yes

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90 percentile yearly summary								
EPA Point 4 Site code WL0004	Point description: From the dechlorination 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	<5	267	85	6	yes
biochemical oxygen demand	mg/L	every 6 days	51	<2	3	10	<2	yes
copper	ug/L	monthly	12	2.5	8.6	31	5.9	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	2.58	1	0.35	yes
nitrogen (total)	mg/L	every 6 days	61	1.74	7.2	10	5.85	yes
nonylphenol ethoxylate	ug/L	monthly	12	<5	<5	580	<5	yes
phosphorus (total)	mg/L	every 6 days	61	0.02	0.3	0.3	0.09	yes
total suspended solids	mg/L	every 6 days	61	<2	9	10	<2	yes
zinc	ug/L	monthly	12	11	29	26	24	yes

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Average yearly summary								
EPA Point 4 Site code WL0004	Point description: From the dechlorination 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	<5	267	81	23	yes
copper	ug/L	monthly	12	2.5	8.6	18	4	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes
nonylphenol ethoxylate	ug/L	monthly	12	<5	<5	64	<5	yes
zinc	ug/L	monthly	12	11	29	20	18	yes

Note: Sydney Water commenced monitoring of biochemical oxygen demand from 1st September 2020. Historically, carbonaceous biochemical oxygen demand was monitored.

Effluent quality monitoring results obtained from EPA Point 4 are used to indicate the quality of water discharged at EPA Point 2 (discharge to waters).