

Shellharbour Wastewater Treatment Plant

2020-21 Pollution monitoring yearly limit summaries



EPL 211

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 SH0004		Point description: At the southern end of the secondary effluent channel						
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	50	<2	35	20	6	yes
faecal coliforms	CFU/100mL	every 6 days	61	<1	290,000	150	26	yes
total suspended solids	mg/L	every 6 days	61	2	24	30	8	yes

90 percentile yearly summary								
EPA Point 4 Site code SH0004		Point description: At the southern end of the secondary effluent channel						
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	17	128	540	94	yes
copper	ug/L	monthly	12	1.2	8.3	140	6.4	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	7.5	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	10,100	<30	yes
nitrogen (ammonia)	mg/L	monthly	12	<0.1	29.1	83.3	8.4	yes
nonylphenol ethoxylate	ug/L	monthly	12	<5	<5	990	<5	yes
total suspended solids	mg/L	every 6 days	61	2	24	40	17	yes

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90 percentile yearly summary

EPA Point 4 Site code SH0004		Point description: At the southern end of the secondary effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	90 percentile limit	90 percentile value	within limits
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	12	60.4	100	1.87	64.4	yes

Average yearly summary

EPA Point 4 Site code SH0004		Point description: At the southern end of the secondary effluent channel						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	17	128	120	45	yes
copper	ug/L	monthly	12	1.2	8.3	83	4	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.7	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	740	<30	yes
nitrogen (ammonia)	mg/L	monthly	12	<0.1	29.1	53.7	4.66	yes
nonylphenol ethoxylate	ug/L	monthly	12	<5	<5	67	<5	yes
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	12	60.4	100	2.09	88.2	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 1 (discharge to waters).