

Shellharbour Wastewater Treatment Plant

2019-20 Pollution monitoring yearly limit summaries



EPL 211

Summary period: 01-07-2019 to 30-06-2020

Date published: 10-08-2020

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
carbonaceous biochemical oxygen demand	mg/L	every 6 days	61	2	13	20	5	yes
faecal coliforms	CFU/100mL	every 6 days	61	<1	100,000	150	15	yes
total suspended solids	mg/L	every 6 days	61	3	24	30	10	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	10	35	540	33	yes
copper	ug/L	monthly	12	1.6	3.7	140	3.2	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	3.9	38.8	83.3	33.9	yes
nonylphenol ethoxylate	ug/L	monthly	12	<5	18	990	6	yes
total suspended solids	mg/L	every 6 days	61	3	24	40	16	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	54.4	100	1.87	66.2	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	10	35	120	25	yes
copper	ug/L	monthly	12	1.6	3.7	83	2	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	3.9	38.8	53.7	17.66	yes
nonylphenol ethoxylate	ug/L	monthly	12	<5	18	67	<5	yes
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	12	54.4	100	2.09	91.2	yes

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	average	maximum		
chlorine (total residual)	mg/L	on bypass ¹	2	<0.04	<0.04	<0.04		

¹Special Frequency 2 means the collection of samples every six (6) days following a bypass or failure of the primary disinfection process, until results are below the detection limit.