

St Marys Wastewater Treatment Plant 2020-21 Pollution Monitoring Summary



EPL 1729

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

Date published: 13-08-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 50 percentile yearly summary								
EPA Point 5 Site code SM0005		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
biochemical oxygen demand	mg/L	every 6 days	51	<2	2	10	<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	7.58	0.9	0.02	yes
total suspended solids	mg/L	every 6 days	61	<2	4	5	<2	yes

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Table 2: 80 percentile yearly summary								
EPA Point 5 Site code SM0005		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	61	<1	38	200	5	yes

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Table 3: 90 percentile yearly summary

EPA Point 5 Site code SM0005	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 limit
aluminium	ug/L	monthly	12	36	74	200	73	yes
biochemical oxygen demand	mg/L	every 6 days	51	<2	2	15	<2	yes
chlorine (total residual)	mg/L	every 6 days	61	<0.04	0.13	0.1	<0.04	yes
copper	ug/L	monthly	12	1.8	4.5	8	4.4	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.1	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	60	<30	yes
iron	ug/L	monthly	12	30	68	156	64	yes
nickel	ug/L	monthly	12	2.9	4.1	16.9	3.9	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	7.58	1.4	2.76	yes
total suspended solids	mg/L	every 6 days	62	<2	4	10	<2	yes
zinc	ug/L	monthly	12	13	32	46	20	yes

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Table 4: 100 percentile yearly summary								
EPA Point 5 Site code SM0005		Point description: At the outlet of the chlorine contact tank						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	100 percentile limit	100 percentile value	within limits
nitrogen (total)	mg/L	every 6 days	61	1.63	9.98	45	9.98	yes
phosphorus	mg/L	every 6 days	61	0.01	0.14	5	0.14	yes

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Table 5: Average yearly summary

EPA Point 5 Site code SM0005		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	36	74	120	50	yes
copper	ug/L	monthly	12	1.8	4.5	6	3	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	<30	30	<30	yes
iron	ug/L	monthly	12	30	68	156	47	yes
nickel	ug/L	monthly	12	2.9	4.1	12.3	3	yes
zinc	ug/L	monthly	12	13	32	37	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 5 are used to indicate the quality of water discharged at EPA Point 1 (discharge to waters).