#### **St Marys Wastewater Treatment Plant 2022-23 Pollution Monitoring Summary**

#### **EPL 1729**

Summary period: 01-07-2022 to 30-06-2023

Date published: 01-09-2023



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	61	<2	<2	10	<2	yes
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	12	93.8	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	0.98	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							
	unit of	sampling	number of	minimum	maximum	80 percentile	80 percentile	within
pollutant	measure	frequency	samples	result	result	limit	value	limits
faecal coliforms	CFU/100mL	every 6 days	61	<1	52	200	3	yes

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EPA Point 5 Site code SM0005 pollutant	Point description: At the outlet of the chlorine contact tank								
	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	52	110	200	91	yes	
biochemical oxygen demand	mg/L	every 6 days	61	<2	<2	15	<2	yes	
chlorine (total residual)	mg/L	every 6 days	61	<0.04	0.06	0.1	<0.04	yes	
copper	ug/L	monthly	12	2.4	14.2	8	12.2	no <sup>1</sup>	
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	46	96	96	89	yes	
nickel	ug/L	monthly	12	3.2	4.3	16.9	4.2	yes	
nitrogen (ammonia)	mg/L	every 6 days	61	0.01	0.98	1.4	0.05	yes	
total suspended solids	mg/L	every 6 days	61	<2	4	10	<2	yes	
zinc	ug/L	monthly	12	22	38	46	32	yes	

<sup>&</sup>lt;sup>1</sup> Copper 90<sup>th</sup> percentile limit exceedance was largely influenced by the implementation of tighter limits following the Stage 1 concentration limit review and significant technology changes in biosolids treatment as part of the Lower South Creek Treatment Program.

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Table 4: 100 percentile yearly s	ummary							
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	1.85	9.07	45	9.07	yes
phosphorus	mg/L	every 6 days	61	0.02	0.11	5	0.11	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	52	110	120	75	yes		
copper	ug/L	monthly	12	2.4	14.2	6	8	no <sup>2</sup>		
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	46	96	156	69	yes		
nickel	ug/L	monthly	12	3.2	4.3	12.3	4	yes		
zinc	ug/L	monthly	12	22	38	37	26	yes		

<sup>&</sup>lt;sup>2</sup>Copper average limit exceedance was largely influenced by the implementation of tighter limits following the Stage 1 concentration limit review and significant technology changes in biosolids treatment as part of the Lower South Creek Treatment Program.