

Winmalee Wastewater Treatment Plant

2024-25 Pollution monitoring yearly limit summaries



EPL 1963

Summary period: 01-07-2024 to 30-06-2025

Date published: 01-08-2025

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

50 percentile yearly summary								
EPA Point 4 Site code WM0004		Point description: Downstream of the chamber prior to discharge						
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	100	100	50	100	yes
nitrogen (ammonia)	mg/L	every 6 days	61	<0.01	4.07	0.9	0.02	yes
nitrogen (total)	mg/L	every 6 days	15	1.01	9.14	6	3.36	yes
nitrogen (total) ¹	mg/L	every 6 days	8	0.96	7.17	10	1.42	yes
nitrogen (total) ²	mg/L	every 6 days	37	0.79	6.82	3	1.41	yes
phosphorus (total)	mg/L	every 6 days	15	0.03	0.20	1.5	0.04	yes
phosphorus (total) ¹	mg/L	every 6 days	8	0.05	0.21	2	0.05	yes
phosphorus (total) ²	mg/L	every 6 days	37	0.02	0.07	0.1	0.04	yes
total suspended solids	mg/L	every 6 days	61	<2	<2	5	<2	yes

80 percentile yearly summary								
EPA Point 4 Site code WM0004		Point description: Downstream of the chamber prior to discharge						
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	23	200	5	yes

¹ Winmalee LVA approved 30/09/2024 resulting in 50th percentile limit changes to total nitrogen and total phosphorus.

² Winmalee LVA approved 14/11/2024 resulting in 50th percentile limit changes to total nitrogen and total phosphorus.

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90 percentile yearly summary								
EPA Point 4 Site code WM0004		Point description: Downstream of the chamber prior to discharge						
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	19	43	270	43	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	0.04	0.1	<0.04	yes
copper	ug/L	monthly	12	1.3	4.3	9	4	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.1	<0.1	yes
iron	ug/L	monthly	12	9	22	880	21	yes
nitrogen (ammonia)	mg/L	every 6 days	15	0.01	4.07	5	0.04	yes
nitrogen (ammonia) ³	mg/L	every 6 days	46	<0.01	0.88	1.4	0.28	yes
nitrogen (total)	mg/L	every 6 days	15	1.01	9.14	12	4.70	yes
nitrogen (total) ³	mg/L	every 6 days	8	0.96	7.17	15	7.17	yes
nitrogen (total) ⁴	mg/L	every 6 days	38	0.79	6.82	7	4.0	yes
phosphorus (total)	mg/L	every 6 days	23	0.03	0.21	3	0.18	yes
phosphorus (total) ⁴	mg/L	every 6 days	38	0.02	0.07	0.3	0.06	yes
total suspended solids	mg/L	every 6 days	15	<2	<2	15	<2	yes
total suspended solids ³	mg/L	every 6 days	45	<2	<2	10	<2	yes
zinc	ug/L	monthly	12	14	32	33	29	yes

³Winmalee LVA approved 30/09/2024 resulting in 90th percentile limit changes to ammonia, total nitrogen and total suspended solids.

⁴Winmalee LVA approved 14/11/2024 resulting in 90th percentile limit changes to total nitrogen and total phosphorus.

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Average yearly summary								
EPA Point 4 Site code WM0004		Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	19	43	190	29	yes
copper	ug/L	monthly	12	1.3	4.3	7	2.8	yes
diazinon	ug/L	monthly	12	<0.1	<0.1	0.2	<0.1	yes
iron	ug/L	monthly	12	9	22	650	15	yes
zinc	ug/L	monthly	12	14	32	25	23	yes