# Winmalee Water Resource Recovery Facility June Pollution Monitoring Summary

## EPL 1963

Summary period: 01-06-2023 to 30-06-2023 Date obtained: 10-07-2023 Date published: 24-07-2023 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	51	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	2.8	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	3	
iron	ug/L	monthly	1	-	-	71	
nitrogen (ammonia)	mg/L	every 6 days	5	0.04	0.51	1.63	
nitrogen (total)	mg/L	every 6 days	5	9.43	11.05	11.8	
phosphorus (total)	mg/L	every 6 days	5	1.03	1.39	1.68	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	12	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility May Pollution Monitoring Summary

## EPL 1963

Summary period: 01-05-2023 to 31-05-2023 Date obtained: 08-06-2023 Date published: 22-06-2023 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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Sydney

#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	38
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
chlorine (total residual)	mg/L	every 6 days	6	<0.04	<0.04	<0.04
copper	ug/L	monthly	1	-	-	3.1
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	6	<1	7	39
iron	ug/L	monthly	1	-	-	78
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.33	1.34
nitrogen (total)	mg/L	every 6 days	5	8.7	10.54	12.1
phosphorus (total)	mg/L	every 6 days	5	0.72	1.13	1.42
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	18

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility April Pollution Monitoring Summary

## EPL 1963

Summary period: 01-04-2023 to 30-04-2023 Date obtained: 10-05-2023 Date published: 19-05-2023 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	25
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	7
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04
copper	ug/L	monthly	1	-	-	4
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	35	170
iron	ug/L	monthly	1	-	-	55
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	1.24	2
nitrogen (total)	mg/L	every 6 days	5	9.27	11.08	13.7
phosphorus (total)	mg/L	every 6 days	5	0.5	0.86	1.44
total suspended solids	mg/L	every 6 days	5	<2	<2	3
zinc	ug/L	monthly	1	-	-	18

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility March Pollution Monitoring Summary

## EPL 1963

Summary period: 01-03-2023 to 31-03-2023 Date obtained: 12-04-2023 Date published: 14-04-2023 Licensee: Sydney Water Corporation PO Box 399

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PARRAMATTA NSW 2124

#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	16	
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	4.9	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	4	14	
iron	ug/L	monthly	1	-	-	52	
nitrogen (ammonia)	mg/L	every 6 days	6	0.04	0.98	3.42	
nitrogen (total)	mg/L	every 6 days	6	9.89	12.77	14.7	
phosphorus (total)	mg/L	every 6 days	6	0.21	0.27	0.34	
total suspended solids	mg/L	every 6 days	6	<2	<2	2	
zinc	ug/L	monthly	1	-	-	20	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility February Pollution Monitoring Summary

## EPL 1963

Summary period: 01-02-2023 to 28-02-2023 Date obtained: 08-03-2023 Date published: 17-03-2023 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	7
biochemical oxygen demand	mg/L	every 6 days	4	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	4	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
chlorine (total residual)	mg/L	every 6 days	4	<0.04	<0.04	<0.04
cobalt	ug/L	bi-annual	1	-	-	0.3
copper	ug/L	monthly	1	-	-	4.5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	4	<1	<1	1
iron	ug/L	monthly	1	-	-	68
nitrogen (ammonia)	mg/L	every 6 days	4	0.17	0.34	0.49
nitrogen (total)	mg/L	every 6 days	4	9.68	11.72	13
phosphorus (total)	mg/L	every 6 days	4	0.27	0.3	0.35
total suspended solids	mg/L	every 6 days	4	<2	<2	<2
zinc	ug/L	monthly	1	-	-	18

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility January Pollution Monitoring Summary

## EPL 1963

Summary period: 01-01-2023 to 31-01-2023 Date obtained: 08-02-2023 Date published: 15-02-2023 Sydney WATER

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#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	7	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	6	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	5	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	6	<1	54	320	
iron	ug/L	monthly	1	-	-	85	
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.34	1.06	
nitrogen (total)	mg/L	every 6 days	5	9.87	12.09	13.9	
phosphorus (total)	mg/L	every 6 days	5	0.24	0.33	0.39	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	17	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility December Pollution Monitoring Summary

## EPL 1963

Summary period: 01-12-2022 to 31-12-2022 Date obtained: 09-01-2023 Date published: 18-01-2023 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	<5	
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	6.6	
diazinon	ug/L	monthly	1	_	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	1	2	5	
iron	ug/L	monthly	1	-	-	54	
nitrogen (ammonia)	mg/L	every 6 days	6	0.01	0.02	0.02	
nitrogen (total)	mg/L	every 6 days	6	10.2	11.88	15	
phosphorus (total)	mg/L	every 6 days	6	0.2	0.28	0.32	
total suspended solids	mg/L	every 6 days	6	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	14	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility November Pollution Monitoring Summary

## EPL 1963

Summary period: 01-11-2022 to 30-11-2022 Date obtained: 06-12-2022 Date published: 09-12-2022 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	8	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	0.09	
copper	ug/L	monthly	1	-	-	5.8	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1	
iron	ug/L	monthly	1	-	-	61	
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.03	0.05	
nitrogen (total)	mg/L	every 6 days	5	9.05	10.93	12.3	
phosphorus (total)	mg/L	every 6 days	5	0.23	0.25	0.27	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	13	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility October Pollution Monitoring Summary

## EPL 1963

Summary period: 01-10-2022 to 31-10-2022 Date obtained: 12-11-2022 Date published: 16-11-2022 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	15	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	4	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	2	
iron	ug/L	monthly	1	-	-	66	
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.09	0.33	
nitrogen (total)	mg/L	every 6 days	5	7.44	8.4	10.4	
phosphorus (total)	mg/L	every 6 days	5	0.16	0.19	0.25	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	13	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility September Pollution Monitoring Summary

## EPL 1963

Summary period: 01-09-2022 to 30-09-2022 Date obtained: 05-10-2022 Date published: 14-10-2022 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	<5	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	4.5	
diazinon	ug/L	monthly	1	_	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	1	162	760	
iron	ug/L	monthly	1	-	-	66	
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	0.01	0.02	
nitrogen (total)	mg/L	every 6 days	5	7.01	9.12	10.4	
phosphorus (total)	mg/L	every 6 days	5	0.21	0.23	0.26	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	14	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility August Pollution Monitoring Summary

## EPL 1963

Summary period: 01-08-2022 to 31-08-2022 Date obtained: 06-09-2022 Date published: 09-09-2022 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

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#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	<5	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
cobalt	ug/L	bi-annual	1	-	-	0.7	
copper	ug/L	monthly	1	-	-	4.1	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	2	
iron	ug/L	monthly	1	-	-	90	
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.31	0.83	
nitrogen (total)	mg/L	every 6 days	5	8.11	9.94	11.5	
phosphorus (total)	mg/L	every 6 days	5	0.15	0.16	0.17	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	
zinc	ug/L	monthly	1	-	-	21	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.

# Winmalee Water Resource Recovery Facility July Pollution Monitoring Summary

## EPL 1963

Summary period: 01-07-2022 to 31-07-2022 Date obtained: 08-08-2022 Date published: 19-08-2022 Sydney WATER e: Sydney Water Corporati

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#### Table 1: 3 Day Geometric Mean data

EPA Point 4 Site code WM0004	Point description: Downstream of the chamber prior to discharge						
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits		
biochemical oxygen demand	mg/L	monthly	30	2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes		
total suspended solids	mg/L	monthly	15	<2	yes		

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

#### Table 2: Routine monitoring data

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	mean result	maximum result	
aluminium	ug/L	monthly	1	-	-	10	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	3	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100	
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04	
copper	ug/L	monthly	1	-	-	3.9	
diazinon	ug/L	monthly	1	-	-	<0.1	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1	
iron	ug/L	monthly	1	-	-	136	
nitrogen (ammonia)	mg/L	every 6 days	5	0.12	2.72	6.13	
nitrogen (total)	mg/L	every 6 days	5	3.48	7.69	10.2	
phosphorus (total)	mg/L	every 6 days	5	0.09	0.11	0.14	
total suspended solids	mg/L	every 6 days	5	<2	<2	4	
zinc	ug/L	monthly	1	-	-	18	

Average and percentile limits are only applied annually for routine monitoring data in Table 2.