

Warriewood Water Resource Recovery Facility

June Pollution Monitoring Summary



EPL 1784

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

Date obtained: 02-07-2023

Date published: 13-07-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	12	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	23
copper	ug/L	monthly	1	-	-	10.5
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	1	1338	6,600
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	26.3
total suspended solids	mg/L	every 6 days	5	5	9	13

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

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).

Warriewood Water Resource Recovery Facility

May Pollution Monitoring Summary



EPL 1784

Summary period: 01-05-2023 to 31-05-2023

Date obtained: 07-06-2023

Date published: 21-06-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	8	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	35
copper	ug/L	monthly	1	-	-	13
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	5	26	58
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	47.9
total suspended solids	mg/L	every 6 days	5	7	13	22

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

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).

Warriewood Water Resource Recovery Facility

April Pollution Monitoring Summary



EPL 1784

Summary period: 01-04-2023 to 30-04-2023

Date obtained: 15-05-2023

Date published: 19-05-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	10	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	74
copper	ug/L	monthly	1	-	-	12.9
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	8	186	840
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	43.1
total suspended solids	mg/L	every 6 days	5	9	15	28

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

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).

Warriewood Water Resource Recovery Facility

March Pollution Monitoring Summary



EPL 1784

Summary period: 01-03-2023 to 31-03-2023

Date obtained: 05-04-2023

Date published: 14-04-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	6	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	23
copper	ug/L	monthly	1	-	-	3.1
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	22	403	1,700
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	46.4
total suspended solids	mg/L	every 6 days	5	5	7	11

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

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).

Warriewood Water Resource Recovery Facility

February Pollution Monitoring Summary



EPL 1784

Summary period: 01-02-2023 to 28-02-2023

Date obtained: 06-03-2023

Date published: 17-03-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	9	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	29
copper	ug/L	monthly	1	-	-	6.6
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	28	281	800
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	26.2
total suspended solids	mg/L	every 6 days	5	4	9	13

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

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).

Warriewood Water Resource Recovery Facility

January Pollution Monitoring Summary



EPL 1784

Summary period: 01-01-2023 to 31-01-2023

Date obtained: 01-02-2023

Date published: 14-02-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	7	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	19
copper	ug/L	monthly	1	-	-	3.4
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	12	38	80
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	52.1
total suspended solids	mg/L	every 6 days	5	4	7	9

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

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).

Warriewood Water Resource Recovery Facility

December Pollution Monitoring Summary



EPL 1784

Summary period: 01-12-2022 to 31-12-2022

Date obtained: 04-01-2023

Date published: 10-01-2023

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	4	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	16
copper	ug/L	monthly	1	-	-	4.6
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	6	91	210
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	46
total suspended solids	mg/L	every 6 days	5	4	6	8

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

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).

Warriewood Water Resource Recovery Facility

November Pollution Monitoring Summary



EPL 1784

Summary period: 01-11-2022 to 30-11-2022

Date obtained: 04-12-2022

Date published: 09-12-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	4	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	13
copper	ug/L	monthly	1	-	-	4.3
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	7	93	330
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	33.5
total suspended solids	mg/L	every 6 days	5	4	6	7

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

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).

Warriewood Water Resource Recovery Facility

October Pollution Monitoring Summary



EPL 1784

Summary period: 01-10-2022 to 31-10-2022

Date obtained: 02-11-2022

Date published: 16-11-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	31	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	23
copper	ug/L	monthly	1	-	-	7.1
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	15	140,000	700,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	30
total suspended solids	mg/L	every 6 days	5	4	8	16

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

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).

Warriewood Water Resource Recovery Facility

September Pollution Monitoring Summary



EPL 1784

Summary period: 01-09-2022 to 30-09-2022

Date obtained: 08-10-2022

Date published: 17-10-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	5	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	14
copper	ug/L	monthly	1	-	-	4.1
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	9	234	1,100
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	39
total suspended solids	mg/L	every 6 days	5	5	7	10

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

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).

Warriewood Water Resource Recovery Facility

August Pollution Monitoring Summary



EPL 1784

Summary period: 01-08-2022 to 31-08-2022

Date obtained: 07-09-2022

Date published: 14-09-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	13
copper	ug/L	monthly	1	-	-	3.4
cyanide	ug/L	monthly	1	-	-	20
faecal coliforms	CFU/100mL	every 6 days	6	3	25	64
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	22.4
total suspended solids	mg/L	every 6 days	5	2	3	4

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

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).

Warriewood Water Resource Recovery Facility

July Pollution Monitoring Summary



EPL 1784

Summary period: 01-07-2022 to 31-07-2022

Date obtained: 09-08-2022

Date published: 19-08-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
total suspended solids	mg/L	monthly	80	9	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 5 Site code WW0005		Point description: Outfall pipeline on the plant's eastern boundary				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	349
copper	ug/L	monthly	1	-	-	18.8
cyanide	ug/L	monthly	1	-	-	13
faecal coliforms	CFU/100mL	every 6 days	5	15	205	580
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	17.6
total suspended solids	mg/L	every 6 days	6	3	13	38

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

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).