Warriewood Wastewater Treatment Plant
June Pollution Monitoring Summary

EPL 1784

Summary period: 01-06-2019 to 30-06-2019
Date obtained: 11-07-2019
Date published: 17-07-2019

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	-	-	16
copper	ug/L	monthly	1	-	-	2.8
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	3	43	75
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	31.1
total suspended solids	mg/L	every 6 days	5	6	8	9

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

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Warriewood Wastewater Treatment Plant
May Pollution Monitoring Summary

EPL 1784

Summary period: 01-05-2019 to 31-05-2019
Date obtained: 30-05-2019
Date published: 12-06-2019

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	-	-	20
copper	ug/L	monthly	1	-	-	4.3
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	18	737	3,200
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	39.5
total suspended solids	mg/L	every 6 days	5	4	6	9

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

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Warriewood Wastewater Treatment Plant
April Pollution Monitoring Summary

EPL 1784

Summary period: 01-04-2019 to 30-04-2019
Date obtained: 04-05-2019
Date published: 13-05-2019

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	-	-	20
copper	ug/L	monthly	1	-	-	3.4
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	31	11,799	49,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	19
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	24.9
total suspended solids	mg/L	every 6 days	5	4	9	16

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

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Warriewood Wastewater Treatment Plant
March Pollution Monitoring Summary

EPL 1784

Summary period: 01-03-2019 to 31-03-2019
Date obtained: 09-04-2019
Date published: 12-04-2019

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	-	-	20
chlorine (total residual)	mg/L	on bypass	1	-	-	0.3
copper	ug/L	monthly	1	-	-	3.5
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	290	10538	25,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	30.3
total suspended solids	mg/L	every 6 days	5	6	17	48

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

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Warriewood Wastewater Treatment Plant
February Pollution Monitoring Summary

EPL 1784

Summary period: 01-02-2019 to 28-02-2019
Date obtained: 06-03-2019
Date published: 15-03-2019

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	-	-	40
copper	ug/L	monthly	1	-	-	3.4
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	75	2769	7,300
nonylphenol ethoxylate	ug/L	monthly	1	-	-	6
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	44.5
total suspended solids	mg/L	every 6 days	5	5	7	9

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

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Warriewood Wastewater Treatment Plant
January Pollution Monitoring Summary

EPL 1784

Summary period: 01-01-2019 to 31-01-2019
Date obtained: 13-02-2019
Date published: 22-02-2019

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	-	-	16
copper	ug/L	monthly	1	-	-	5.2
cyanide	ug/L	monthly	1	-	-	6
faecal coliforms	CFU/100mL	every 6 days	5	36	4,184	17,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	27.3
total suspended solids	mg/L	every 6 days	5	7	10	14

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

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Warriewood Wastewater Treatment Plant
December Pollution Monitoring Summary

EPL 1784

Summary period: 01-12-2018 to 31-12-2018
Date obtained: 04-01-2019
Date published: 11-01-2019

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	3	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	-	-	2.7
cyanide	ug/L	monthly	1	-	-	6
faecal coliforms	CFU/100mL	every 6 days	5	9	3824	13,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	30.8
total suspended solids	mg/L	every 6 days	5	4	7	11

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

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Warriewood Wastewater Treatment Plant
November Pollution Monitoring Summary

EPL 1784

Summary period: 01-11-2018 to 30-11-2018
Date obtained: 13-12-2018
Date published: 21-12-2018

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	-	-	16
copper	ug/L	monthly	1	-	-	2.8
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	7	1649	8,200
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	84.6
total suspended solids	mg/L	every 6 days	5	3	5	9

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

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Warriewood Wastewater Treatment Plant
October Pollution Monitoring Summary

EPL 1784

Summary period: 01-10-2018 to 31-10-2018
Date obtained: 12-11-2018
Date published: 23-11-2018

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	-	-	30
copper	ug/L	monthly	1	-	-	7.7
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	16	161	430
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	23.7
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

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Warriewood Wastewater Treatment Plant
September Pollution Monitoring Summary

EPL 1784

Summary period: 01-09-2018 to 30-09-2018
Date obtained: 15-10-2018
Date published: 19-10-2018

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	-	-	16
copper	ug/L	monthly	1	-	-	6.5
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	6	10	35	58
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	21.3
total suspended solids	mg/L	every 6 days	5	2	7	11

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

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Warriewood Wastewater Treatment Plant
August Pollution Monitoring Summary

EPL 1784

Summary period: 01-08-2018 to 31-08-2018
Date obtained: 11-09-2018
Date published: 14-09-2018

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	-	-	12
copper	ug/L	monthly	1	-	-	3.1
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	8	16	40
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
total suspended solids	mg/L	every 6 days	5	<2	5	6

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

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Warriewood Wastewater Treatment Plant
July Pollution Monitoring Summary

EPL 1784

Summary period: 01-07-2018 to 31-07-2018
Date obtained: 09-08-2018
Date published: 14-08-2018

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	-	-	16
copper	ug/L	monthly	1	-	-	3.7
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	6	8	58	220
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	31.1
total suspended solids	mg/L	every 6 days	5	3	5	7

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

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