# Warriewood Wastewater Treatment Plant June Pollution Monitoring Summary



## EPL 1784<sup>.</sup>

Summary period: 01-06-2020 to 30-06-2020Á Date obtained: 08-07-2020Á Date published: 1I -07-2020Á Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005	Point descript	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	-	-	12
copper	ug/L	monthly	1	-	-	3.4
cyanide	ug/L	monthly	1	-	-	9
faecal coliforms	CFU/100mL	every 6 days	5	<1	17	57
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	30.4
total suspended solids	mg/L	every 6 days	5	3	4	5

# Warriewood Wastewater Treatment Plant May Pollution Monitoring Summary



## EPL 1784

Summary period: 01-05-2020 to 31-05-2020 Date obtained: 05-06-2020 Date published: 17-06-2020 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 descript	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	-	-	2.8	
cyanide	ug/L	monthly	1	-	-	5	
faecal coliforms	CFU/100mL	every 6 days	5	1	409	2,000	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	28.2	
total suspended solids	mg/L	every 6 days	5	3	8	25	

# Warriewood Wastewater Treatment Plant April Pollution Monitoring Summary



## EPL 1784

Summary period: 01-04-2020 to 30-04-2020 Date obtained: 04-05-2020 Date published: 15-05-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005	Point descrip	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 descript	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	-	-	31	
copper	ug/L	monthly	1	-	-	5.7	
cyanide	ug/L	monthly	1	-	-	<5	
faecal coliforms	CFU/100mL	every 6 days	5	21	1281	5,800	
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	3	6	11	

# Warriewood Wastewater Treatment Plant March Pollution Monitoring Summary



## EPL 1784

Summary period: 01-03-2020 to 31-03-2020 Date obtained: 03-04-2020 Date published: 15-04-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005	Point descrip	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 boundar					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	24
copper	ug/L	monthly	1	-	-	3.1
cyanide	ug/L	monthly	1	-	-	6
faecal coliforms	CFU/100mL	every 6 days	5	35	204	790
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	45.5
total suspended solids	mg/L	every 6 days	5	5	8	12

# Warriewood Wastewater Treatment Plant February Pollution Monitoring Summary



## EPL 1784

Summary period: 01-02-2020 to 29-02-2020 Date obtained: 18-03-2020 Date published: 27-03-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005	Point descript	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 descrip	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	-	-	21	
copper	ug/L	monthly	1	-	-	5.1	
cyanide	ug/L	monthly	1	-	-	<5	
faecal coliforms	CFU/100mL	every 6 days	5	22	607057	3,000,000	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	24.1	
total suspended solids	mg/L	every 6 days	5	4	25	85	

# Warriewood Wastewater Treatment Plant January Pollution Monitoring Summary



## EPL 1784

Summary period: 01-01-2020 to 31-01-2020 Date obtained: 05-02-2020 Date published: 14-02-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005	Point descript	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 descrip	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	-	-	17	
copper	ug/L	monthly	1	-	-	4	
cyanide	ug/L	monthly	1	-	-	<5	
faecal coliforms	CFU/100mL	every 6 days	5	22	836	3,200	
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	5	8	10	

# Warriewood Wastewater Treatment Plant December Pollution Monitoring Summary



## EPL 1784

Summary period: 01-12-2019 to 31-12-2019 Date obtained: 31-12-2019 Date published: 10-01-2020 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005	Point descrip	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	-	-	30
copper	ug/L	monthly	1	-	-	5
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	21	15202	56,000
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	11.8
total suspended solids	mg/L	every 6 days	5	5	6	7

# Warriewood Wastewater Treatment Plant November Pollution Monitoring Summary



## EPL 1784

Summary period: 01-11-2019 to 30-11-2019 Date obtained: 05-12-2019 Date published: 12-12-2019 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005	Point descrip	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 descript	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	-	-	3.2	
cyanide	ug/L	monthly	1	-	-	<5	
faecal coliforms	CFU/100mL	every 6 days	5	1,200	38240	100,000	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	13	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	24.4	
total suspended solids	mg/L	every 6 days	5	5	7	10	

# Warriewood Wastewater Treatment Plant October Pollution Monitoring Summary



## EPL 1784

Summary period: 01-10-2019 to 31-10-2019 Date obtained: 12-11-2019 Date published: 22-11-2019 Licensee: Sydney Water Corporation PO Box 399 PARRAMATTA NSW 2124

### Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code WW0005	Point descript	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 descrip	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	-	-	9	
copper	ug/L	monthly	1	-	-	2.2	
cyanide	ug/L	monthly	1	-	-	<5	
faecal coliforms	CFU/100mL	every 6 days	5	39	2170	9,400	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	42.7	
total suspended solids	mg/L	every 6 days	5	4	6	9	

# Warriewood Wastewater Treatment Plant September Pollution Monitoring Summary



## EPL 1784

Summary period: 01-09-2019 to 30-09-2019 Date obtained: 09-10-2019 Date published: 15-10-2019 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	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 descript	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	-	-	4	
cyanide	ug/L	monthly	1	-	-	<5	
faecal coliforms	CFU/100mL	every 6 days	5	5	180021	900,000	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	24.3	
total suspended solids	mg/L	every 6 days	5	4	8	16	

# Warriewood Wastewater Treatment Plant August Pollution Monitoring Summary



## EPL 1784

Summary period: 01-08-2019 to 31-08-2019 Date obtained: 06-09-2019 Date published: 16-09-2019 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 descript	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	-	-	3.5	
cyanide	ug/L	monthly	1	-	-	<5	
faecal coliforms	CFU/100mL	every 6 days	6	17	609	3,200	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	42.2	
total suspended solids	mg/L	every 6 days	5	6	18	62	

# Warriewood Wastewater Treatment Plant July Pollution Monitoring Summary



## EPL 1784

Summary period: 01-07-2019 to 31-07-2019 Date obtained: 07-08-2019 Date published: 17-08-2019 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	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 descript	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	-	-	15	
copper	ug/L	monthly	1	-	-	3.1	
cyanide	ug/L	monthly	1	-	-	<5	
faecal coliforms	CFU/100mL	every 6 days	5	6	10	21	
nonylphenol ethoxylate	ug/L	monthly	1	-	-	<5	
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	31.2	
total suspended solids	mg/L	every 6 days	6	5	8	13	