

Hornsby Heights Wastewater Treatment Plant

June Pollution Monitoring Summary



EPL 750

Summary period: 01-06-2017 to 30-06-2017

Date obtained: 20-07-2017

Date published: 25-07-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	30	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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	309
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	3	13
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	0.8
copper	ug/L	monthly	1	-	-	1.7
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	17	47
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	47
nickel	ug/L	monthly	1	-	-	2
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.87	2.5
nitrogen (total)	mg/L	every 6 days	5	2	3.71	5.88
phosphorus (total)	mg/L	every 6 days	5	0.02	0.13	0.49
total suspended solids	mg/L	every 6 days	5	<2	7	34
zinc	ug/L	monthly	1	-	-	14

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

Hornsby Heights Wastewater Treatment Plant

May Pollution Monitoring Summary



EPL 750

Summary period: 01-05-2017 to 31-05-2017

Date obtained: 20-06-2017

Date published: 23-06-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	30	<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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	172
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	1
copper	ug/L	monthly	1	-	-	1.5
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	5
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	21
nickel	ug/L	monthly	1	-	-	2
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.05	0.1
nitrogen (total)	mg/L	every 6 days	5	0.79	3.31	5.13
phosphorus (total)	mg/L	every 6 days	5	0.02	0.03	0.03
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

Hornsby Heights Wastewater Treatment Plant

April Pollution Monitoring Summary



EPL 750

Summary period: 01-04-2017 to 30-04-2017

Date obtained: 16-05-2017

Date published: 24-05-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	30	<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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	139
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	1
copper	ug/L	monthly	1	-	-	1.1
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	13	48
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	28
nickel	ug/L	monthly	1	-	-	2.2
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.01	0.01
nitrogen (total)	mg/L	every 6 days	5	1.58	2.96	4.42
phosphorus (total)	mg/L	every 6 days	5	0.02	0.03	0.04
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	11

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

Hornsby Heights Wastewater Treatment Plant

March Pollution Monitoring Summary



EPL 750

Summary period: 01-03-2017 to 31-03-2017

Date obtained: 11-04-2017

Date published: 19-04-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	6	yes
total suspended solids	mg/L	monthly	30	13	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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	684
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	5	11
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	1.1
copper	ug/L	monthly	1	-	-	7.8
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	4	151847	720,000
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	1,360
nickel	ug/L	monthly	1	-	-	2.1
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	1.22	2.72
nitrogen (total)	mg/L	every 6 days	5	0.94	3.11	5.9
phosphorus (total)	mg/L	every 6 days	5	0.02	0.2	0.33
total suspended solids	mg/L	every 6 days	5	<2	10	22
zinc	ug/L	monthly	1	-	-	15

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

Hornsby Heights Wastewater Treatment Plant

February Pollution Monitoring Summary



EPL 750

Summary period: 01-02-2017 to 28-02-2017

Date obtained: 07-03-2017

Date published: 14-03-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	30	<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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	108
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	0.9
copper	ug/L	monthly	1	-	-	1.3
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	2
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	14
nickel	ug/L	monthly	1	-	-	1.9
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.94	4.6
nitrogen (total)	mg/L	every 6 days	5	2.49	3.98	6.07
phosphorus (total)	mg/L	every 6 days	5	0.03	0.04	0.07
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

Hornsby Heights Wastewater Treatment Plant

January Pollution Monitoring Summary



EPL 750

Summary period: 01-01-2017 to 31-01-2017

Date obtained: 09-02-2017

Date published: 15-02-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	30	<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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	78
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	1.1
copper	ug/L	monthly	1	-	-	1.2
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	3	7
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	18
nickel	ug/L	monthly	1	-	-	2.8
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.02	0.04
nitrogen (total)	mg/L	every 6 days	5	0.99	3.48	10
phosphorus (total)	mg/L	every 6 days	5	0.04	0.63	2.62
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	9

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

Hornsby Heights Wastewater Treatment Plant

December Pollution Monitoring Summary



EPL 750

Summary period: 01-12-2016 to 31-12-2016

Date obtained: 09-01-2017

Date published: 13-01-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	30	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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	252
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	1.1
copper	ug/L	monthly	1	-	-	3.2
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	4
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	31
nickel	ug/L	monthly	1	-	-	2.6
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.16	0.72
nitrogen (total)	mg/L	every 6 days	5	2.15	4.08	6.79
phosphorus (total)	mg/L	every 6 days	5	0.1	0.13	0.17
total suspended solids	mg/L	every 6 days	5	<2	<2	3
zinc	ug/L	monthly	1	-	-	16

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

Hornsby Heights Wastewater Treatment Plant

November Pollution Monitoring Summary



EPL 750

Summary period: 01-11-2016 to 30-11-2016

Date obtained: 06-12-2016

Date published: 12-12-2016

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	30	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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	281
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	1.5
copper	ug/L	monthly	1	-	-	2.3
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	3	10
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	37
nickel	ug/L	monthly	1	-	-	2.6
nitrogen (ammonia)	mg/L	every 6 days	5	0.04	0.48	1.13
nitrogen (total)	mg/L	every 6 days	5	1.2	3.14	4.86
phosphorus (total)	mg/L	every 6 days	5	0.07	0.13	0.36
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

Hornsby Heights Wastewater Treatment Plant

October Pollution Monitoring Summary



EPL 750

Summary period: 01-10-2016 to 31-10-2016

Date obtained: 16-11-2016

Date published: 18-11-2016

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	30	<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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	274
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	1
copper	ug/L	monthly	1	-	-	1.9
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	3
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	44
nickel	ug/L	monthly	1	-	-	2.2
nitrogen (ammonia)	mg/L	every 6 days	5	0.04	0.39	1.27
nitrogen (total)	mg/L	every 6 days	5	1.46	5.68	17.6
phosphorus (total)	mg/L	every 6 days	5	0.04	0.11	0.3
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

Hornsby Heights Wastewater Treatment Plant

September Pollution Monitoring Summary



EPL 750

Summary period: 01-09-2016 to 30-09-2016

Date obtained: 10-10-2016

Date published: 16-10-2016

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	30	<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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	109
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	1.1
copper	ug/L	monthly	1	-	-	1.5
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	3
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	32
nickel	ug/L	monthly	1	-	-	2.2
nitrogen (ammonia)	mg/L	every 6 days	5	0.05	0.43	0.9
nitrogen (total)	mg/L	every 6 days	5	1.81	4.34	6.81
phosphorus (total)	mg/L	every 6 days	5	0.04	0.05	0.07
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

Hornsby Heights Wastewater Treatment Plant

August Pollution Monitoring Summary



EPL 750

Summary period: 01-08-2016 to 31-08-2016

Date obtained: 13-09-2016

Date published: 14-09-2016

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	8	yes
total suspended solids	mg/L	monthly	30	20	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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	647
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	3	12
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	0.9
copper	ug/L	monthly	1	-	-	25.1
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	6	<1	153	900
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	3,280
nickel	ug/L	monthly	1	-	-	3.1
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.48	0.88
nitrogen (total)	mg/L	every 6 days	5	1.39	3.4	5.62
phosphorus (total)	mg/L	every 6 days	5	0.04	0.48	1.82
total suspended solids	mg/L	every 6 days	5	<2	9	30
zinc	ug/L	monthly	1	-	-	34

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

Hornsby Heights Wastewater Treatment Plant

July Pollution Monitoring Summary



EPL 750

Summary period: 01-07-2016 to 31-07-2016

Date obtained: 08-08-2016

Date published: 19-08-2016

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code HH0005		Point description: Downstream of the disinfection facilities			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	30	<2	yes
total suspended solids	mg/L	monthly	30	<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 HH0005		Point description: Downstream of the disinfection facilities				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	282
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
cobalt	ug/L	monthly	1	-	-	0.7
copper	ug/L	monthly	1	-	-	1.9
cyanide	ug/L	monthly	1	-	-	<5
diazinon	ug/L	monthly	1	-	-	<0.1
faecal coliforms	CFU/100mL	every 6 days	5	<1	561	2,800
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
iron	ug/L	monthly	1	-	-	36
nickel	ug/L	monthly	1	-	-	2.3
nitrogen (ammonia)	mg/L	every 6 days	6	0.01	0.4	2.34
nitrogen (total)	mg/L	every 6 days	6	3.95	5.57	8.36
phosphorus (total)	mg/L	every 6 days	6	0.03	0.04	0.04
total suspended solids	mg/L	every 6 days	6	<2	<2	<2
zinc	ug/L	monthly	1	-	-	13

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