

# Rouse Hill Wastewater Treatment Plant

## February Pollution Monitoring Summary



### EPL 4965

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 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes
total suspended solids	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	85
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	0.11
cobalt	ug/L	monthly	1	-	-	0.4
copper	ug/L	monthly	1	-	-	3
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	<1	4	14
iron	ug/L	monthly	1	-	-	12
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.24	1.04
nitrogen (total)	mg/L	every 6 days	5	5.17	6.37	7.83
phosphorus (total)	mg/L	every 6 days	5	0.01	0.02	0.02
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	15

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

# Rouse Hill Wastewater Treatment Plant

## January Pollution Monitoring Summary



### EPL 4965

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 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes
total suspended solids	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	74
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	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	3.3
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	3
iron	ug/L	monthly	1	-	-	16
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.11	0.47
nitrogen (total)	mg/L	every 6 days	5	5.88	6.86	8.1
phosphorus (total)	mg/L	every 6 days	5	0.02	0.02	0.02
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

# Rouse Hill Wastewater Treatment Plant

## December Pollution Monitoring Summary



### EPL 4965

Summary period: 01-12-2019 to 31-12-2019

Date obtained: 06-01-2020

Date published: 10-01-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes
total suspended solids	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	58
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	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	2.4
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	<1	1	3
iron	ug/L	monthly	1	-	-	40
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.03	0.04
nitrogen (total)	mg/L	every 6 days	5	6.54	7.11	7.7
phosphorus (total)	mg/L	every 6 days	5	0.01	0.01	0.02
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

# Rouse Hill Wastewater Treatment Plant

## November Pollution Monitoring Summary



### EPL 4965

Summary period: 01-11-2019 to 30-11-2019

Date obtained: 06-12-2019

Date published: 12-12-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes
total suspended solids	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	62
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	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	2.2
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
iron	ug/L	monthly	1	-	-	75
nitrogen (ammonia)	mg/L	every 6 days	5	0.05	0.09	0.14
nitrogen (total)	mg/L	every 6 days	5	7.67	7.76	8
phosphorus (total)	mg/L	every 6 days	5	0.01	0.01	0.02
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

# Rouse Hill Wastewater Treatment Plant

## October Pollution Monitoring Summary



### EPL 4965

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 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes
total suspended solids	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	185
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
cobalt	ug/L	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	2.4
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	6	<1	<1	1
iron	ug/L	monthly	1	-	-	23
nitrogen (ammonia)	mg/L	every 6 days	5	0.03	0.29	0.84
nitrogen (total)	mg/L	every 6 days	5	6.41	7.1	8.01
phosphorus (total)	mg/L	every 6 days	5	0.01	0.02	0.03
total suspended solids	mg/L	every 6 days	5	<2	<2	4
zinc	ug/L	monthly	1	-	-	20

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

# Rouse Hill Wastewater Treatment Plant

## September Pollution Monitoring Summary



### EPL 4965

Summary period: 01-09-2019 to 30-09-2019

Date obtained: 11-10-2019

Date published: 18-10-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes
total suspended solids	mg/L	monthly	20	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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	468
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	monthly	1	-	-	0.4
copper	ug/L	monthly	1	-	-	2.1
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	1
iron	ug/L	monthly	1	-	-	25
nitrogen (ammonia)	mg/L	every 6 days	5	0.05	0.52	1.87
nitrogen (total)	mg/L	every 6 days	5	5.1	5.77	6.2
phosphorus (total)	mg/L	every 6 days	5	0.01	0.01	0.03
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	19

EPA Point 5 Site code RH0005		Point description: Downstream of the dechlorinated effluent				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
carbonaceous biochemical oxygen demand	mg/L	on bypass	1	-	-	5
chlorine (total residual)	mg/L	on bypass	1	-	-	1.21
faecal coliforms	CFU/100mL	on bypass	1	-	-	80
nitrogen (ammonia)	mg/L	on bypass	1	-	-	3.6
nitrogen (total)	mg/L	on bypass	1	-	-	9.78
phosphorus (total)	mg/L	on bypass	1	-	-	0.68
total suspended solids	mg/L	on bypass	1	-	-	22

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

# Rouse Hill Wastewater Treatment Plant

## August Pollution Monitoring Summary



### EPL 4965

Summary period: 01-08-2019 to 31-08-2019

Date obtained: 09-09-2019

Date published: 16-09-2019

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

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

EPA Point 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes
total suspended solids	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	103
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
cobalt	ug/L	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	2.3
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	4
iron	ug/L	monthly	1	-	-	27
nitrogen (ammonia)	mg/L	every 6 days	6	0.19	0.27	0.39
nitrogen (total)	mg/L	every 6 days	6	5.05	5.64	6.05
phosphorus (total)	mg/L	every 6 days	6	0.02	0.02	0.04
total suspended solids	mg/L	every 6 days	6	<2	<2	<2
zinc	ug/L	monthly	1	-	-	24

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

# Rouse Hill Wastewater Treatment Plant

## July Pollution Monitoring Summary



### EPL 4965

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 4 Site code RH0004		Point description: Outlet of the dechlorination tanks			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes
total suspended solids	mg/L	monthly	20	<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 RH0004		Point description: Outlet of the dechlorination tanks				
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
chlorine (total residual)	mg/L	every 6 days	5	<0.04	<0.04	<0.04
cobalt	ug/L	monthly	1	-	-	0.3
copper	ug/L	monthly	1	-	-	2.2
cyanide	ug/L	monthly	1	-	-	<5
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
iron	ug/L	monthly	1	-	-	21
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.16	0.33
nitrogen (total)	mg/L	every 6 days	5	6.65	7.17	8.02
phosphorus (total)	mg/L	every 6 days	5	0.01	0.01	0.02
total suspended solids	mg/L	every 6 days	5	<2	<2	<2
zinc	ug/L	monthly	1	-	-	23

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