Brooklyn Water Resource Recovery Facility June Pollution Monitoring Summary



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

Date obtained: 10-07-2023

Date published: 24-07-2023



Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code BK0005	Point description: In the discharge pipeline after the UV lamps					
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
biochemical oxygen demand	mg/L	monthly	20	<2	yes	
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes	
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps						
pollutant	unit ofsamplingnumber ofminimummeanmaximummeasurefrequencysamplesresultresultresult						
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1	
nitrogen (ammonia)	mg/L	every 6 days	5	0.02	0.35	1.08	
nitrogen (total)	mg/L	every 6 days	5	4.13	5.35	6.26	
phosphorus (total)	mg/L	every 6 days	5	<0.01	<0.01	0.01	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	

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

Brooklyn Water Resource Recovery Facility May Pollution Monitoring Summary



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

Date obtained: 08-06-2023

Date published: 22-06-2023



Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code BK0005	Point description: In the discharge pipeline after the UV lamps						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limit						
biochemical oxygen demand	mg/L	monthly	20	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes		
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	6	0.01	0.02	0.04
nitrogen (total)	mg/L	every 6 days	6	3.53	4.48	5.3
phosphorus (total)	mg/L	every 6 days	6	<0.01	<0.01	<0.01
total suspended solids	mg/L	every 6 days	6	<2	<2	2

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

Brooklyn Water Resource Recovery Facility April Pollution Monitoring Summary

EPL 12438

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

Date obtained: 10-05-2023

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 BK0005	Point description: In the discharge pipeline after the UV lamps						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limit						
biochemical oxygen demand	mg/L	monthly	20	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes		
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	4
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.02	0.03
nitrogen (total)	mg/L	every 6 days	5	3.22	3.83	4.95
phosphorus (total)	mg/L	every 6 days	5	<0.01	<0.01	0.01
total suspended solids	mg/L	every 6 days	5	<2	<2	<2

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

Brooklyn Water Resource Recovery Facility March Pollution Monitoring Summary



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

Date obtained: 04-04-2023

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 BK0005	Point description: In the discharge pipeline after the UV lamps						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limit						
biochemical oxygen demand	mg/L	monthly	20	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes		
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01
nitrogen (total)	mg/L	every 6 days	5	3.09	3.84	4.78
phosphorus (total)	mg/L	every 6 days	5	0.01	0.01	0.01
total suspended solids	mg/L	every 6 days	5	<2	<2	2

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

Brooklyn Water Resource Recovery Facility February Pollution Monitoring Summary

EPL 12438

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 BK0005	Point description: In the discharge pipeline after the UV lamps						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limit						
biochemical oxygen demand	mg/L	monthly	20	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes		
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	4	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	4	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	3
nitrogen (ammonia)	mg/L	every 6 days	4	0.01	0.01	0.01
nitrogen (total)	mg/L	every 6 days	4	3.59	3.88	4.42
phosphorus (total)	mg/L	every 6 days	4	0.01	0.01	0.01
total suspended solids	mg/L	every 6 days	4	<2	<2	<2

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

Brooklyn Water Resource Recovery Facility January Pollution Monitoring Summary



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

Date obtained: 08-02-2023

Date published: 15-02-2023



Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code BK0005	Point description: In the discharge pipeline after the UV lamps					
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits	
biochemical oxygen demand	mg/L	monthly	20	<2	yes	
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes	
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	6	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	6	0.01	0.02	0.03
nitrogen (total)	mg/L	every 6 days	6	2.8	4.21	5.74
phosphorus (total)	mg/L	every 6 days	6	<0.01	0.01	0.02
total suspended solids	mg/L	every 6 days	6	<2	<2	<2

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

Brooklyn Water Resource Recovery Facility December Pollution Monitoring Summary



Licensee: Sydney Water Corporation

PO Box 399

EPL 12438

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

Date obtained: 01-01-2023

Date published: 10-01-2023 PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code BK0005	Point description: In the discharge pipeline after the UV lamps						
pollutant	unit of sampling measure frequency 3DGM limit 3DGM Actual within limits						
biochemical oxygen demand	mg/L	monthly	20	<2	yes		
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes		
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result	
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	_	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	2	8	
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01	
nitrogen (total)	mg/L	every 6 days	5	2.9	3.85	5.27	
phosphorus (total)	mg/L	every 6 days	5	<0.01	<0.01	<0.01	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	

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

Brooklyn Water Resource Recovery Facility November Pollution Monitoring Summary



EPL 12438

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

Date obtained: 06-12-2022 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 BK0005	Point description: In the discharge pipeline after the UV lamps							
pollutant	unit of measure	3DGM limit 3DGM Actual within lim						
biochemical oxygen demand	mg/L	monthly	20	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes			
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps						
pollutant	unit ofsamplingnumber ofminimummeanmaximurmeasurefrequencysamplesresultresultresult						
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1	
nitrogen (ammonia)	mg/L	every 6 days	5	<0.01	<0.01	0.01	
nitrogen (total)	mg/L	every 6 days	5	3.47	4.29	6.01	
phosphorus (total)	mg/L	every 6 days	5	<0.01	<0.01	<0.01	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	

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

Brooklyn Water Resource Recovery Facility October Pollution Monitoring Summary



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

Date obtained: 03-11-2022

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 BK0005	Point description: In the discharge pipeline after the UV lamps							
pollutant	unit of measure	3DGM IImit 3DGM Actual Within IIm						
biochemical oxygen demand	mg/L	monthly	20	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes			
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	_	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.07	0.19
nitrogen (total)	mg/L	every 6 days	5	3.12	4.45	6.29
phosphorus (total)	mg/L	every 6 days	5	<0.01	<0.01	<0.01
total suspended solids	mg/L	every 6 days	5	<2	<2	<2

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

Brooklyn Water Resource Recovery Facility September Pollution Monitoring Summary



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 BK0005	Point description: In the discharge pipeline after the UV lamps							
pollutant	unit of measure	3DGM IImit 3DGM Actual Within IIm						
biochemical oxygen demand	mg/L	monthly	20	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes			
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps						
pollutant	unit ofsamplingnumber ofminimummeanmaximummeasurefrequencysamplesresultresultresult						
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	_	-	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1	
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.01	0.02	
nitrogen (total)	mg/L	every 6 days	5	2.72	3.46	4.44	
phosphorus (total)	mg/L	every 6 days	5	<0.01	<0.01	<0.01	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	

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

Brooklyn Water Resource Recovery Facility August Pollution Monitoring Summary



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

Date obtained: 06-09-2022

Date published: 09-09-2022



Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 5 Site code BK0005	Point description: In the discharge pipeline after the UV lamps							
pollutant	unit of measure	3DGM IImit 3DGM Actual Within IIm						
biochemical oxygen demand	mg/L	monthly	20	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes			
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps						
pollutant	unit ofsamplingnumber ofminimummeanmaximummeasurefrequencysamplesresultresultresult						
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2	
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	_	-	100	
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1	
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.02	0.07	
nitrogen (total)	mg/L	every 6 days	5	2.36	3.34	4.57	
phosphorus (total)	mg/L	every 6 days	5	<0.01	<0.01	<0.01	
total suspended solids	mg/L	every 6 days	5	<2	<2	<2	

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

Brooklyn Water Resource Recovery Facility July Pollution Monitoring Summary



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

Date obtained: 08-08-2022

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 BK0005	Point description: In the discharge pipeline after the UV lamps							
pollutant	unit of measure	3DGM IImit 3DGM Actual Within IIm						
biochemical oxygen demand	mg/L	monthly	20	<2	yes			
carbonaceous biochemical oxygen demand	mg/L	monthly	20	<2	yes			
total suspended solids	mg/L	monthly	10	<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 BK0005	Point description: In the discharge pipeline after the UV lamps					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
carbonaceous biochemical oxygen demand	mg/L	every 6 days	5	<2	<2	<2
Ceriodaphnia dubia immobilisation (EC50)	% Effluent/Vol	monthly	1	-	-	100
faecal coliforms	CFU/100mL	every 6 days	5	<1	<1	<1
nitrogen (ammonia)	mg/L	every 6 days	5	0.01	0.12	0.26
nitrogen (total)	mg/L	every 6 days	5	1.1	3.23	6.23
phosphorus (total)	mg/L	every 6 days	5	<0.01	<0.01	<0.01
total suspended solids	mg/L	every 6 days	5	<2	<2	<2

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