

North Richmond Water Filtration Plant June Pollution Monitoring Summary

EPL 5425



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

Date obtained: 19-06-2017

Date published: 04-07-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	7.2	yes
total suspended solids	mg/L	every 25 days	30	14	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	1	-	-	0.04
chlorine (total residual)	mg/L	every 25 days	1	-	-	0.18
iron	mg/L	every 25 days	1	-	-	2.72
manganese	mg/L	every 25 days	1	-	-	0.1
pH	pH Units	every 25 days	1	-	-	7.2
total dissolved solids	mg/L	every 25 days	1	-	-	153
total suspended solids	mg/L	every 25 days	1	-	-	14

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

North Richmond Water Filtration Plant

May Pollution Monitoring Summary

EPL 5425



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

Date obtained: 25-05-2017

Date published: 01-06-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQNR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	6.92	yes
total suspended solids	mg/L	every 25 days	30	<2	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQNR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	1	-	-	0.01
chlorine (total residual)	mg/L	every 25 days	1	-	-	<0.04
iron	mg/L	every 25 days	1	-	-	0.35
manganese	mg/L	every 25 days	1	-	-	0.13
pH	pH Units	every 25 days	1	-	-	6.92
total dissolved solids	mg/L	every 25 days	1	-	-	158
total suspended solids	mg/L	every 25 days	1	-	-	<2

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

North Richmond Water Filtration Plant

April Pollution Monitoring Summary

EPL 5425



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

Date obtained: 24-04-2017

Date published: 03-05-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQNR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	7.2	yes
total suspended solids	mg/L	every 25 days	30	4	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQNR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	1	-	-	0.01
chlorine (total residual)	mg/L	every 25 days	1	-	-	<0.04
iron	mg/L	every 25 days	1	-	-	0.79
manganese	mg/L	every 25 days	1	-	-	0.14
pH	pH Units	every 25 days	1	-	-	7.2
total dissolved solids	mg/L	every 25 days	1	-	-	147
total suspended solids	mg/L	every 25 days	1	-	-	4

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

North Richmond Water Filtration Plant

March Pollution Monitoring Summary

EPL 5425



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

Date obtained: 31-03-2017

Date published: 12-04-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	6.51	yes
total suspended solids	mg/L	every 25 days	30	5	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	1	-	-	0.05
chlorine (total residual)	mg/L	every 25 days	1	-	-	<0.04
iron	mg/L	every 25 days	1	-	-	0.92
manganese	mg/L	every 25 days	1	-	-	0.16
pH	pH Units	every 25 days	1	-	-	6.51
total dissolved solids	mg/L	every 25 days	1	-	-	135
total suspended solids	mg/L	every 25 days	1	-	-	5

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

North Richmond Water Filtration Plant

February Pollution Monitoring Summary

EPL 5425



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: 100 percentile data

EPA Point 4 Site code EFFQNR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	7.02	yes
total suspended solids	mg/L	every 25 days	30	2	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQNR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	1	-	-	<0.01
chlorine (total residual)	mg/L	every 25 days	1	-	-	0.05
iron	mg/L	every 25 days	1	-	-	0.31
manganese	mg/L	every 25 days	1	-	-	0.17
pH	pH Units	every 25 days	1	-	-	7.02
total dissolved solids	mg/L	every 25 days	1	-	-	206
total suspended solids	mg/L	every 25 days	1	-	-	2

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

North Richmond Water Filtration Plant

January Pollution Monitoring Summary

EPL 5425



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

Date obtained: 07-02-2017

Date published: 22-12-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	6.32	no*
pH	pH Units	every 25 days	6.5 - 8.5	7.18	yes
total suspended solids	mg/L	every 25 days	30	2	yes
total suspended solids	mg/L	every 25 days	30	7	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	2	0.01	0.01	0.01
chlorine (total residual)	mg/L	every 25 days	2	<0.04	<0.04	<0.04
iron	mg/L	every 25 days	2	0.39	0.48	0.57
manganese	mg/L	every 25 days	2	0.12	1.24	2.36
pH	pH Units	every 25 days	2	6.32	6.75	7.18
total dissolved solids	mg/L	every 25 days	2	214	245	275
total suspended solids	mg/L	every 25 days	2	2	5	7

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

**The lower limit of pH was exceeded on 6 January 2017. This was possibly due to shorter residence time in the water treatment sludge lagoon during maintenance activities.*

North Richmond Water Filtration Plant

December Pollution Monitoring Summary

EPL 5425



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

Date obtained: 19-12-2016

Date published: 03-01-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQNR1		Point description: Access chamber			
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	7.16	yes
total suspended solids	mg/L	every 25 days	30	<2	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQNR1		Point description: Access chamber				
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	1	-	-	<0.01
chlorine (total residual)	mg/L	every 25 days	1	-	-	0.04
iron	mg/L	every 25 days	1	-	-	0.17
manganese	mg/L	every 25 days	1	-	-	0.14
pH	pH Units	every 25 days	1	-	-	7.16
total dissolved solids	mg/L	every 25 days	1	-	-	184
total suspended solids	mg/L	every 25 days	1	-	-	<2

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

North Richmond Water Filtration Plant

November Pollution Monitoring Summary

EPL 5425



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

Date obtained: 22-11-2016

Date published: 30-11-2016

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	6.96	yes
total suspended solids	mg/L	every 25 days	30	4	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	1	-	-	0.01
chlorine (total residual)	mg/L	every 25 days	1	-	-	0.08
iron	mg/L	every 25 days	1	-	-	0.7
manganese	mg/L	every 25 days	1	-	-	0.09
pH	pH Units	every 25 days	1	-	-	6.96
total dissolved solids	mg/L	every 25 days	1	-	-	157
total suspended solids	mg/L	every 25 days	1	-	-	4

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

North Richmond Water Filtration Plant

October Pollution Monitoring Summary

EPL 5425



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

Date obtained: 03-11-2016

Date published: 11-11-2016

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	7.17	yes
total suspended solids	mg/L	every 25 days	30	<2	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	1	-	-	0.02
chlorine (total residual)	mg/L	every 25 days	1	-	-	<0.04
iron	mg/L	every 25 days	1	-	-	0.66
manganese	mg/L	every 25 days	1	-	-	0.07
pH	pH Units	every 25 days	1	-	-	7.17
total dissolved solids	mg/L	every 25 days	1	-	-	138
total suspended solids	mg/L	every 25 days	1	-	-	<2

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

North Richmond Water Filtration Plant

September Pollution Monitoring Summary

EPL 5425



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

Date obtained: 04-10-2016

Date published: 22-12-2017

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	7.12	yes
pH	pH Units	every 25 days	6.5 - 8.5	7.36	yes
total suspended solids	mg/L	every 25 days	30	<2	yes
total suspended solids	mg/L	every 25 days	30	11	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	2	0.02	0.04	0.07
chlorine (total residual)	mg/L	every 25 days	2	0.04	0.07	0.09
iron	mg/L	every 25 days	2	0.5	1.48	2.46
manganese	mg/L	every 25 days	2	0.05	0.05	0.05
pH	pH Units	every 25 days	2	7.12	7.24	7.36
total dissolved solids	mg/L	every 25 days	2	146	149	152
total suspended solids	mg/L	every 25 days	2	<2	6	11

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

North Richmond Water Filtration Plant

August Pollution Monitoring Summary

EPL 5425



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

Date obtained: 19-08-2016

Date published: 30-08-2016

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQNR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	7.26	yes
total suspended solids	mg/L	every 25 days	30	5	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQNR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	1	-	-	0.03
chlorine (total residual)	mg/L	every 25 days	1	-	-	0.28
iron	mg/L	every 25 days	1	-	-	1.4
manganese	mg/L	every 25 days	1	-	-	0.05
pH	pH Units	every 25 days	1	-	-	7.26
total dissolved solids	mg/L	every 25 days	1	-	-	135
total suspended solids	mg/L	every 25 days	1	-	-	5

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

North Richmond Water Filtration Plant

July Pollution Monitoring Summary

EPL 5425



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

Date obtained: 22-07-2016

Date published: 03-08-2016

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 4 Site code EFFQNR1	Point description: Access chamber				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 25 days	6.5 - 8.5	9.2	no*
total suspended solids	mg/L	every 25 days	30	6	yes

100 percentile means that 100 % of samples (or all samples) taken must not exceed the limit for that pollutant.

Table 2: Routine monitoring data

EPA Point 4 Site code EFFQNR1	Point description: Access chamber					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 25 days	1	-	-	0.06
chlorine (total residual)	mg/L	every 25 days	1	-	-	0.09
iron	mg/L	every 25 days	1	-	-	1.6
manganese	mg/L	every 25 days	1	-	-	0.03
pH	pH Units	every 25 days	1	-	-	9.2
total dissolved solids	mg/L	every 25 days	1	-	-	110
total suspended solids	mg/L	every 25 days	1	-	-	6

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

**The upper limit of pH was exceeded on 12 July 2016 while essential maintenance occurred. During this work a small volume of water bypassed the management lagoons and caused this exceedance.*

North Richmond Water Filtration Plant Correction Log

EPL 5425



Licensee: Sydney Water Corporation
 PO Box 399
 PARRAMATTA NSW 2124

EPA Point 4 Site code EFFQNR1	Point description: Access chamber					
Pollutant	unit of measure	Original data	Corrected data	Date corrected	Date originally published	Reason
pH	pH Units	not reported	6.32	22-12-17	15-02-17	Table 1 was amended to report individual sample results. This result was added.
pH	pH Units	7.18	7.18	22-12-17	15-02-17	Table 1 was amended to report individual sample results.
total suspended solids	mg/L	not reported	2	22-12-17	15-02-17	Table 1 was amended to report individual sample results. This result was added.
total suspended solids	mg/L	7	7	22-12-17	15-02-17	Table 1 was amended to report individual sample results.
pH	pH Units	not reported	7.12	22-12-17	07-10-16	Table 1 was amended to report individual sample results. This result was added.
pH	pH Units	7.36	7.36	22-12-17	07-10-16	Table 1 was amended to report individual sample results.
total suspended solids	mg/L	not reported	<2	22-12-17	07-10-16	Table 1 was amended to report individual sample results. This result was added.
total suspended solids	mg/L	11	11	22-12-17	07-10-16	Table 1 was amended to report individual sample results.