

# St Marys Advanced Water Treatment Plant



## June Pollution Monitoring Summary

### EPL 13210

Summary period: 01-06-2021 to 30-06-2021

Date obtained: 20-07-2021

Date published: 23-07-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW	Point description: The discharge channel from Penrith STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	0	-	-	-

EPA Point 2 Site code SMHTRW	Point description: Highly treated recycled water balance tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	0	-	-	-
nitrogen (ammonia)	mg/L	every 6 days during discharge	0	-	-	-
nitrogen (total)	mg/L	every 6 days during discharge	0	-	-	-
phosphorus (total)	mg/L	every 6 days during discharge	0	-	-	-

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

As per clause M2.2 under EPL 13210, collection of samples from PRHTRW and SMHTRW are required when recycled water is discharged from EPA Points 1 and 2 respectively. There was no discharge from EPA Points 1 and 2 during the June monitoring period as the St Marys AWTP was offline.

# St Marys Advanced Water Treatment Plant



## May Pollution Monitoring Summary

### EPL 13210

Summary period: 01-05-2021 to 31-05-2021

Date obtained: 17-06-2021

Date published: 21-06-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	0	-	-	-

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	0	-	-	-
nitrogen (ammonia)	mg/L	every 6 days during discharge	0	-	-	-
nitrogen (total)	mg/L	every 6 days during discharge	0	-	-	-
phosphorus (total)	mg/L	every 6 days during discharge	0	-	-	-

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

As per clause M2.2 under EPL 13210, collection of samples from PRHTRW and SMHTRW are required when recycled water is discharged from EPA Points 1 and 2 respectively. There was no discharge from EPA Points 1 and 2 during the May monitoring period as the St Marys AWTP was offline.

# St Marys Advanced Water Treatment Plant



## April Pollution Monitoring Summary

### EPL 13210

Summary period: 01-04-2021 to 30-04-2021

Date obtained: 13-05-2021

Date published: 17-05-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW	Point description: The discharge channel from Penrith STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	0	-	-	-

EPA Point 2 Site code SMHTRW	Point description: Highly treated recycled water balance tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	0	-	-	-
nitrogen (ammonia)	mg/L	every 6 days during discharge	0	-	-	-
nitrogen (total)	mg/L	every 6 days during discharge	0	-	-	-
phosphorus (total)	mg/L	every 6 days during discharge	0	-	-	-

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

As per clause M2.2 under EPL 13210, collection of samples from PRHTRW and SMHTRW are required when recycled water is discharged from EPA Points 1 and 2 respectively. There was no discharge from EPA Points 1 and 2 during the April monitoring period as the St Marys AWTP was offline.

# St Marys Advanced Water Treatment Plant



## March Pollution Monitoring Summary

### EPL 13210

Summary period: 01-03-2021 to 31-03-2021

Date obtained: 15-03-2021

Date published: 26-03-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	2	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	1	-	-	24.6
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	-	-	0.04
nitrogen (total)	mg/L	every 6 days during discharge	1	-	-	0.3
phosphorus (total)	mg/L	every 6 days during discharge	1	-	-	<0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

There will be no discharge from EPA Points 1 and 2 for the April to June monitoring period as the St Marys AWTP will be offline.

# St Marys Advanced Water Treatment Plant



## February Pollution Monitoring Summary

### EPL 13210

Summary period: 01-02-2021 to 28-02-2021

Date obtained: 06-03-2021

Date published: 12-03-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	3	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	4	23.9	24	25.1
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	0.01	0.07	0.1
nitrogen (total)	mg/L	every 6 days during discharge	4	0.22	0.28	0.33
phosphorus (total)	mg/L	every 6 days during discharge	4	<0.002	<0.002	<0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1

# St Marys Advanced Water Treatment Plant



## January Pollution Monitoring Summary

### EPL 13210

Summary period: 01-01-2021 to 31-01-2021

Date obtained: 09-02-2021

Date published: 23-02-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW	Point description: The discharge channel from Penrith STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	5	<0.04	0.09	0.47

EPA Point 2 Site code SMHTRW	Point description: Highly treated recycled water balance tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	0	-	-	-
nitrogen (ammonia)	mg/L	every 6 days during discharge	0	-	-	-
nitrogen (total)	mg/L	every 6 days during discharge	0	-	-	-
phosphorus (total)	mg/L	every 6 days during discharge	0	-	-	-

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

As per clause M2.2 under EPL 13210, collection of samples from SMHTRW are required every 6 days when recycled water is discharged from EPA Point 2. There was no discharge from EPA Point 2 on the 6 day monitoring cycle during the January monitoring period.

# St Marys Advanced Water Treatment Plant



## December Pollution Monitoring Summary

### EPL 13210

Summary period: 01-12-2020 to 31-12-2020

Date obtained: 04-01-2021

Date published: 18-01-2021

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	4	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	3	20.5	22	23.4
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	0.02	0.04	0.07
nitrogen (total)	mg/L	every 6 days during discharge	3	0.21	0.25	0.33
phosphorus (total)	mg/L	every 6 days during discharge	3	<0.002	<0.002	0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1

# St Marys Advanced Water Treatment Plant

## November Pollution Monitoring Summary



### EPL 13210

Summary period: 01-11-2020 to 30-11-2020

Date obtained: 03-12-2020

Date published: 15-12-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	2	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	1	-	-	20.4
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	-	-	0.05
nitrogen (total)	mg/L	every 6 days during discharge	1	-	-	0.29
phosphorus (total)	mg/L	every 6 days during discharge	1	-	-	0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1



# St Marys Advanced Water Treatment Plant



## October Pollution Monitoring Summary

### EPL 13210

Summary period: 01-10-2020 to 31-10-2020

Date obtained: 31-10-2020

Date published: 06-11-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW	Point description: The discharge channel from Penrith STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	0	-	-	-

EPA Point 2 Site code SMHTRW	Point description: Highly treated recycled water balance tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	0	-	-	-
nitrogen (ammonia)	mg/L	every 6 days during discharge	0	-	-	-
nitrogen (total)	mg/L	every 6 days during discharge	0	-	-	-
phosphorus (total)	mg/L	every 6 days during discharge	0	-	-	-

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

As per clause M2.2 under EPL 13210, collection of samples from PRHTRW and SMHTRW are required when recycled water is discharged from EPA Points 1 and 2 respectively. There was no discharge from EPA Points 1 and 2 during the October monitoring period as the St Marys AWTP was offline.

# St Marys Advanced Water Treatment Plant



## September Pollution Monitoring Summary

### EPL 13210

Summary period: 01-09-2020 to 30-09-2020

Date obtained: 24-09-2020

Date published: 02-10-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW	Point description: The discharge channel from Penrith STP					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	0	-	-	-

EPA Point 2 Site code SMHTRW	Point description: Highly treated recycled water balance tank					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	0	-	-	-
nitrogen (ammonia)	mg/L	every 6 days during discharge	0	-	-	-
nitrogen (total)	mg/L	every 6 days during discharge	0	-	-	-
phosphorus (total)	mg/L	every 6 days during discharge	0	-	-	-

Average and percentile limits are only applied annually for routine monitoring data in Table 1.

As per clause M2.2 under EPL 13210, collection of samples from PRHTRW and SMHTRW are required when recycled water is discharged from EPA Points 1 and 2 respectively. There was no discharge from EPA Points 1 and 2 during the September monitoring period as the St Marys AWTP was offline.

# St Marys Advanced Water Treatment Plant



## August Pollution Monitoring Summary

### EPL 13210

Summary period: 01-08-2020 to 31-08-2020

Date obtained: 04-09-2020

Date published: 16-09-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	1	-	-	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	1	-	-	19.4
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	-	-	0.04
nitrogen (total)	mg/L	every 6 days during discharge	1	-	-	0.19
phosphorus (total)	mg/L	every 6 days during discharge	1	-	-	0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1

# St Marys Advanced Water Treatment Plant



## July Pollution Monitoring Summary

### EPL 13210

Summary period: 01-07-2020 to 31-07-2020

Date obtained: 25-07-2020

Date published: 13-08-2020

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

**Table 1: Routine monitoring data**

EPA Point 1 Site code PRHTRW		Point description: The discharge channel from Penrith STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
chlorine (total residual)	mg/L	every 6 days during discharge	3	<0.04	<0.04	<0.04

EPA Point 2 Site code SMHTRW		Point description: Highly treated recycled water balance tank				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
conductivity	uS/cm	every 6 days during discharge	2	17.1	17	17.7
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.03	0.04	0.05
nitrogen (total)	mg/L	every 6 days during discharge	2	0.16	0.16	0.16
phosphorus (total)	mg/L	every 6 days during discharge	2	<0.002	<0.002	0.002

Average and percentile limits are only applied annually for routine monitoring data in Table 1