

# St Marys Advanced Water Treatment Plant



## March Pollution Monitoring Summary

### EPL 13210

Summary period: 01-03-2024 to 31-03-2024

Date obtained: 04-04-2024

Date published: 18-04-2024

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	<0.04	<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	31.9	33	33.5
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	0.06	0.1	0.14
nitrogen (total)	mg/L	every 6 days during discharge	4	0.43	0.57	0.75
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.

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.

SMHTRW was not discharging on 14/03/2024 during routine monitoring.

# St Marys Advanced Water Treatment Plant



## February Pollution Monitoring Summary

### EPL 13210

Summary period: 01-02-2024 to 29-02-2024

Date obtained: 11-03-2024

Date published: 22-03-2024

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	<0.04	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	28	29	30.6
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.06	0.1	0.13
nitrogen (total)	mg/L	every 6 days during discharge	2	0.64	0.65	0.66
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.

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.

SMHTRW was not discharging on 07/02/2024, 13/02/2024 and 19/02/2024 during routine monitoring.

# St Marys Advanced Water Treatment Plant



## January Pollution Monitoring Summary

### EPL 13210

Summary period: 01-01-2024 to 31-01-2024

Date obtained: 02-02-2024

Date published: 15-02-2024

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	<0.04	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	28.1	32	34.5
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	0.05	0.09	0.12
nitrogen (total)	mg/L	every 6 days during discharge	3	0.49	0.6	0.69
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.

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.

PRHTRW and SMHTRW were not discharging on 14/01/2024 and 20/01/2024 during routine monitoring.

# St Marys Advanced Water Treatment Plant



## December Pollution Monitoring Summary

### EPL 13210

Summary period: 01-12-2023 to 31-12-2023

Date obtained: 30-12-2023

Date published: 11-01-2024

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	0.11	0.43

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	27.3	31	35.2
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.05	0.08	0.11
nitrogen (total)	mg/L	every 6 days during discharge	2	0.46	0.58	0.69
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.

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.

SMHTRW was not discharging on 09/12/2023, 15/12/2023, and 27/12/2023 during routine monitoring.

# St Marys Advanced Water Treatment Plant



## November Pollution Monitoring Summary

### EPL 13210

Summary period: 01-11-2023 to 30-11-2023

Date obtained: 04-12-2023

Date published: 14-12-2023

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	<0.04	<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	24.7	30	33.7
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	0.05	0.09	0.12
nitrogen (total)	mg/L	every 6 days during discharge	3	0.51	0.63	0.82
phosphorus (total)	mg/L	every 6 days during discharge	3	<0.002	<0.002	0.003

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.

SMHTRW was not discharging on 09/11/2023 and 21/11/2023 during routine monitoring.

# St Marys Advanced Water Treatment Plant



## October Pollution Monitoring Summary

### EPL 13210

Summary period: 01-10-2023 to 31-10-2023

Date obtained: 02-11-2023

Date published: 16-11-2023

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	<0.04	<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	5	28.7	31	31.7
nitrogen (ammonia)	mg/L	every 6 days during discharge	5	0.11	0.12	0.14
nitrogen (total)	mg/L	every 6 days during discharge	5	0.51	0.61	0.74
phosphorus (total)	mg/L	every 6 days during discharge	5	<0.002	<0.002	0.002

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.

# St Marys Advanced Water Treatment Plant

## September Pollution Monitoring Summary



### EPL 13210

Summary period: 01-09-2023 to 30-09-2023

Date obtained: 05-10-2023

Date published: 13-10-2023

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	4	28.2	29	30
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	0.06	0.09	0.13
nitrogen (total)	mg/L	every 6 days during discharge	4	0.53	0.63	0.67
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.

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.

PRHTRW and SMHTRW was not discharging on the 10/09/2023 during routine monitoring.

# St Marys Advanced Water Treatment Plant



## August Pollution Monitoring Summary

### EPL 13210

Summary period: 01-08-2023 to 31-08-2023

Date obtained: 31-08-2023

Date published: 14-09-2023

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	4	23.4	27	35.5
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	0.05	0.1	0.12
nitrogen (total)	mg/L	every 6 days during discharge	4	0.26	0.37	0.46
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.

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.

PRHTRW and SMHTRW was not discharging on the 29/08/2023 during routine monitoring.



# St Marys Advanced Water Treatment Plant



## July Pollution Monitoring Summary

### EPL 13210

Summary period: 01-07-2023 to 31-07-2023

Date obtained: 08-08-2023

Date published: 15-08-2023

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	<0.04	<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	5	22.9	23	23.9
nitrogen (ammonia)	mg/L	every 6 days during discharge	5	0.09	0.11	0.12
nitrogen (total)	mg/L	every 6 days during discharge	5	0.36	0.39	0.44
phosphorus (total)	mg/L	every 6 days during discharge	5	<0.002	<0.002	0.002

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.