

St Marys Advanced Water Treatment Plant



June Pollution Monitoring Summary

EPL 13210

Summary period: 01-06-2022 to 30-06-2022

Date obtained: 11-07-2022

Date published: 15-07-2022

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	26.2	28	28.3
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	0.02	0.09	0.13
nitrogen (total)	mg/L	every 6 days during discharge	4	0.24	0.27	0.31
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

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May Pollution Monitoring Summary

EPL 13210

Summary period: 01-05-2022 to 31-05-2022

Date obtained: 09-06-2022

Date published: 17-06-2022

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	29.8	32	33
nitrogen (ammonia)	mg/L	every 6 days during discharge	4	0.1	0.12	0.14
nitrogen (total)	mg/L	every 6 days during discharge	4	0.3	0.34	0.37
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

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April Pollution Monitoring Summary

EPL 13210

Summary period: 01-04-2022 to 30-04-2022

Date obtained: 03-05-2022

Date published: 16-05-2022

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	3	29.9	33	35.1
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	0.04	0.08	0.12
nitrogen (total)	mg/L	every 6 days during discharge	3	0.23	0.29	0.35
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

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March Pollution Monitoring Summary

EPL 13210

Summary period: 01-03-2022 to 31-03-2022

Date obtained: 07-04-2022

Date published: 11-04-2022

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	1	-	-	32
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	-	-	0.11
nitrogen (total)	mg/L	every 6 days during discharge	1	-	-	0.47
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

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February Pollution Monitoring Summary

EPL 13210

Summary period: 01-02-2022 to 28-02-2022

Date obtained: 25-02-2022

Date published: 11-03-2022

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	0.13	0.51

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	29.1	31	33.2
nitrogen (ammonia)	mg/L	every 6 days during discharge	3	0.05	0.08	0.11
nitrogen (total)	mg/L	every 6 days during discharge	3	0.22	0.29	0.33
phosphorus (total)	mg/L	every 6 days during discharge	3	0.001	0.001	0.001

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

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January Pollution Monitoring Summary

EPL 13210

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

Date obtained: 09-02-2022

Date published: 14-02-2022

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	0.22

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	30.1	30	30.5
nitrogen (ammonia)	mg/L	every 6 days during discharge	2	0.04	0.08	0.11
nitrogen (total)	mg/L	every 6 days during discharge	2	0.24	0.31	0.38
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.

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December Pollution Monitoring Summary

EPL 13210

Summary period: 01-12-2021 to 31-12-2021

Date obtained: 30-12-2021

Date published: 13-01-2022

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	0.06

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	-	-	33.4
nitrogen (ammonia)	mg/L	every 6 days during discharge	1	-	-	0.09
nitrogen (total)	mg/L	every 6 days during discharge	1	-	-	0.26
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

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. Discharge in EPA Points 1 and 2 resumed in the December monitoring period as the St Marys AWTP recommenced operation in 21 December.

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November Pollution Monitoring Summary

EPL 13210

Summary period: 01-11-2021 to 30-11-2021

Date obtained: 15-12-2021

Date published: 17-12-2021

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 November monitoring period as the St Marys AWTP was offline.

St Marys Advanced Water Treatment Plant



October Pollution Monitoring Summary

EPL 13210

Summary period: 01-10-2021 to 31-10-2021

Date obtained: 10-11-2021

Date published: 12-11-2021

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 October monitoring period as the St Marys AWTP was offline.

St Marys Advanced Water Treatment Plant

September Pollution Monitoring Summary



EPL 13210

Summary period: 01-09-2021 to 30-09-2021

Date obtained: 08-10-2021

Date published: 13-10-2021

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 September monitoring period as the St Marys AWTP was offline.

St Marys Advanced Water Treatment Plant



August Pollution Monitoring Summary

EPL 13210

Summary period: 01-08-2021 to 31-08-2021

Date obtained: 25-08-2021

Date published: 22-09-2021

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 August monitoring period as the St Marys AWTP was offline.

St Marys Advanced Water Treatment Plant



July Pollution Monitoring Summary

EPL 13210

Summary period: 01-07-2021 to 31-07-2021

Date obtained: 13-08-2021

Date published: 18-08-2021

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 July monitoring period as the St Marys AWTP was offline.