

Cascades Water Filtration Plant

January Pollution Monitoring Summary

EPL 4406



Summary period: 01-01-2025 to 31-01-2025
 Date obtained: 20-01-2025
 Date published: 30-01-2025

Licensee: Sydney Water Corporation
 PO Box 399
 PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 1 Site code EFFQCA	Point description: End of the discharge pipe				
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 90 days	6.5 - 8.5	9.18	no ²
total suspended solids	mg/L	every 90 days	30	10	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 1 Site code EFFQCA	Point description: End of the discharge pipe					
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 90 days	1	-	-	0.06
chlorine (total residual)	mg/L	every 90 days	1	-	-	<0.04
iron	mg/L	every 90 days	1	-	-	1.74
manganese	mg/L	every 90 days	1	-	-	0.01
pH	pH Units	every 90 days	1	-	-	9.18
total dissolved solids	mg/L	every 90 days	1	-	-	73
total suspended solids	mg/L	every 90 days	1	-	-	10

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

² pH exceedance on 13 January 2025 was caused by excess lime in the wash water tank. Cascades WFP is currently operating at reduced output due to the temporary mobile treatment upgrade. Lime has been overdosed during reduced plant throughput, subsequently leading to a high pH in backwash flows being directed to the sludge handling system and ultimately discharged.

Cascades Water Filtration Plant

October Pollution Monitoring Summary

EPL 4406



Summary period: 01-10-2024 to 31-10-2024
Date obtained: 21-10-2024
Date published: 23-10-2024

Licensee: Sydney Water Corporation
PO Box 399
PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 1 Site code EFFQCA		Point description: End of the discharge pipe			
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 90 days	6.5 - 8.5	9.51	no ¹
total suspended solids	mg/L	every 90 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 1 Site code EFFQCA		Point description: End of the discharge pipe				
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 90 days	1	-	-	0.10
chlorine (total residual)	mg/L	every 90 days	1	-	-	0.04
iron	mg/L	every 90 days	1	-	-	0.51
manganese	mg/L	every 90 days	1	-	-	0.01
pH	pH Units	every 90 days	1	-	-	9.51
total dissolved solids	mg/L	every 90 days	1	-	-	96
total suspended solids	mg/L	every 90 days	1	-	-	4

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

¹ pH exceedance on 14 September 2024 as a result of an initial backwash of dual media filter bed 6 during commissioning of granular activated carbon to improve PFAS removal. Backwashing of bed 6 has been put on hold.

Cascades Water Filtration Plant

July Pollution Monitoring Summary

EPL 4406



Summary period: 01-07-2024 to 31-07-2024
Date obtained: 25-07-2024
Date published: 08-08-2024

Licensee: Sydney Water Corporation
PO Box 399
PARRAMATTA NSW 2124

Table 1: 100 percentile data

EPA Point 1 Site code EFFQCA		Point description: End of the discharge pipe			
pollutant	unit of measure	sampling frequency	100 percentile limit	100 percentile actual	within limits
pH	pH Units	every 90 days	6.5 - 8.5	7.97	yes
total suspended solids	mg/L	every 90 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 1 Site code EFFQCA		Point description: End of the discharge pipe				
pollutant	unit of measure	sampling frequency	number of samples	minimum results	mean results	maximum results
aluminium	mg/L	every 90 days	1	-	-	<0.005
chlorine (total residual)	mg/L	every 90 days	1	-	-	<0.04
iron	mg/L	every 90 days	1	-	-	<0.005
manganese	mg/L	every 90 days	1	-	-	0.01
pH	pH Units	every 90 days	1	-	-	7.97
total dissolved solids	mg/L	every 90 days	1	-	-	156
total suspended solids	mg/L	every 90 days	1	-	-	<2

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