North Head Water Resource Recovery Facility
August Pollution Monitoring Summary

EPL 378

Summary period: 01-08-2025 to 31-08-2025
Date obtained: 02-09-2025
Date published: 12-09-2025

Licensee: Sydney Water Corporation
PO Box 399
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008	Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	19	yes
total suspended solids	mg/L	monthly	290	102	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 8 Site code NH0008	Point description: In effluent channel downstream of the dropshaft					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	107
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	35.2
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	96
oil and grease	mg/L	every 6 days	5	17	28	43
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	3.1
total suspended solids	mg/L	every 6 days	5	96	129	140

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the August monitoring period.

Effluent quality monitoring results obtained from EPA Point 8 are used to indicate the quality of water discharged at EPA Point 5 (deep water ocean outfall).

North Head Water Resource Recovery Facility
July Pollution Monitoring Summary

EPL 378

Summary period: 01-07-2025 to 31-07-2025
Date obtained: 31-07-2025
Date published: 14-08-2025

Licensee: Sydney Water Corporation
PO Box 399
PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008	Point description: In effluent channel downstream of the dropshaft				
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	85	42	yes
total suspended solids	mg/L	monthly	290	183	yes

3 Day Geometric Mean (3DGM) is a way to average a set of values and is commonly used with water quality assessments which show a great deal of variability. 3DGM is calculated by multiplying the results of the analysis of three samples collected on three consecutive days and then taking the cubed root of that amount.

Table 2: Routine monitoring data

EPA Point 8 Site code NH0008	Point description: In effluent channel downstream of the dropshaft					
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	405
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	94.5
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	44
oil and grease	mg/L	every 6 days	5	20	39	47
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	6.4
total suspended solids	mg/L	every 6 days	5	120	162	190

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

As per clause M2.4 under EPL 378, collection of samples from EPA Point 9 is required when sewage or effluent is discharged from EPA Point 6. There was no discharge from EPA Point 6 during the July monitoring period.

Effluent quality monitoring results obtained from EPA Point 8 are used to indicate the quality of water discharged at EPA Point 5 (deep water ocean outfall).