North Head Water Resource Recovery Facility **September Pollution Monitoring Summary**



Summary period: 01-09-2024 to 30-09-2024

Date obtained: 10-10-2024

Date published: 23-10-2024



Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 8 Site code NH0008	Point descrip	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	51	yes			
total suspended solids	mg/L	monthly	290	179	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					shaft
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	_	_	462
chlorpyrifos	ug/L	monthly	1	_	_	<0.05
copper	ug/L	monthly	1	_	_	124
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	89
nonylphenol ethoxylate	ug/L	monthly	1	_	_	97
oil and grease	mg/L	every 6 days	5	49	53	58
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	_	2.4
total suspended solids	mg/L	every 6 days	5	190	208	250

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 September 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 August Pollution Monitoring Summary



Summary period: 01-08-2024 to 31-08-2024

Date obtained: 11-09-2024

Date published: 13-09-2024



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	45	yes		
total suspended solids	mg/L	monthly	290	200	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 descript	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	-	-	560
chlorpyrifos	ug/L	monthly	1	-	-	<0.05
copper	ug/L	monthly	1	-	-	122
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	88
oil and grease	mg/L	every 6 days	6	42	46	49
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	2.4
total suspended solids	mg/L	every 6 days	6	160	185	220

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**



Summary period: 01-07-2024 to 31-07-2024

Date obtained: 08-08-2024

Date published: 16-08-2024



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	32	yes		
total suspended solids	mg/L	monthly	290	155	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 descript	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	-	_	402
chlorpyrifos	ug/L	monthly	1	-	_	<0.05
copper	ug/L	monthly	1	-	_	75.7
hydrogen sulphide (unionised)	ug/L	monthly	1	_	_	<30
nonylphenol ethoxylate	ug/L	monthly	1	_	_	62
oil and grease	mg/L	every 6 days	5	30	37	45
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	_	_	2.9
total suspended solids	mg/L	every 6 days	5	130	154	170

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).