

Malabar Water Resource Recovery Facility

September Pollution Monitoring Summary



EPL 372

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

Date obtained: 09-10-2024

Date published: 23-10-2024

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 3 Day Geometric Mean data

EPA Point 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	70	61	yes
total suspended solids	mg/L	monthly	350	217	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 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	801
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	80
nonylphenol ethoxylate	ug/L	monthly	1	-	-	253
oil and grease	mg/L	every 6 days	5	52	59	68
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	1.6
total suspended solids	mg/L	every 6 days	5	220	244	270

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

Effluent quality monitoring results obtained from EPA Point 6 are used to indicate the quality of water discharged at EPA Point 2 (deep water ocean outfall).

As per clause M2.4 under EPL 372, collection of samples from EPA Point 7 or EPA Point 8 is required when sewage or effluent is discharged from EPA Point 3 or 4. There was no discharge from EPA Point 3 or 4 during the September monitoring period.

Malabar Water Resource Recovery Facility

August Pollution Monitoring Summary



EPL 372

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 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	70	49	yes
total suspended solids	mg/L	monthly	350	215	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 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	558
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	45
nonylphenol ethoxylate	ug/L	monthly	1	-	-	172
oil and grease	mg/L	every 6 days	6	44	52	63
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	1.6
total suspended solids	mg/L	every 6 days	6	180	207	250

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

Effluent quality monitoring results obtained from EPA Point 6 are used to indicate the quality of water discharged at EPA Point 2 (deep water ocean outfall).

As per clause M2.4 under EPL 372, collection of samples from EPA Point 7 or EPA Point 8 is required when sewage or effluent is discharged from EPA Point 3 or 4. There was no discharge from EPA Point 3 or 4 during the August monitoring period.

Malabar Water Resource Recovery Facility

July Pollution Monitoring Summary



EPL 372

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 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel			
pollutant	unit of measure	sampling frequency	3DGM limit	3DGM Actual	within limits
oil and grease	mg/L	monthly	70	33	yes
total suspended solids	mg/L	monthly	350	132	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 6 Site code MA0006		Point description: Upstream of the bulkhead in the effluent channel				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
aluminium	ug/L	monthly	1	-	-	505
hydrogen sulphide (unionised)	ug/L	monthly	1	-	-	<30
nonylphenol ethoxylate	ug/L	monthly	1	-	-	211
oil and grease	mg/L	every 6 days	5	23	39	49
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	1	-	-	3.4
total suspended solids	mg/L	every 6 days	5	72	158	210

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

Effluent quality monitoring results obtained from EPA Point 6 are used to indicate the quality of water discharged at EPA Point 2 (deep water ocean outfall).

As per clause M2.4 under EPL 372, collection of samples from EPA Point 7 or EPA Point 8 is required when sewage or effluent is discharged from EPA Point 3 or 4. There was no discharge from EPA Point 3 or 4 during the July monitoring period.