

North Head Wastewater Treatment Plant

2021-22 Pollution monitoring yearly limit summaries



EPL 378

Summary period: 01-07-2021 to 30-06-2022

Date published: 30-08-2022

Licensee: Sydney Water Corporation

PO Box 399

PARRAMATTA NSW 2124

Table 1: 50 percentile yearly summary								
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	maximum result	50 percentile limit	50 percentile value	within limits
oil and grease ¹	mg/L	every 6 days	28	19	52	45	41	yes
total suspended solids	mg/L	every 6 days	61	51	200	200	160	yes

Table 2: 50 percentile yearly summary								
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	maximum result	50 percentile limit	50 percentile value	within limits
oil and grease ¹	mg/L	every 6 days	33	7	53	55	31	yes

¹A change in the North Head WWTP EPL on 15th December 2021 resulted in a change in limit for oil and grease for the 50th percentile.

Sample results and corresponding limits for period 1 July 2021 to 15th December 2022 can be found in Table 1, and results and limits for period 15th December 2022 to 30th June 2022 can be found in Table 2.

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90 percentile yearly summary								
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	maximum result	90 percentile limit	90 percentile value	within limits
aluminium	ug/L	monthly	12	355	699	1,700	680	yes
chlorpyrifos	ug/L	monthly	12	<0.05	<0.05	0.2	<0.05	yes
copper	ug/L	monthly	12	45.6	140	300	139	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	309	270	70	yes
nonylphenol ethoxylate	ug/L	monthly	12	<5	163	253	69	yes
oil and grease	mg/L	every 6 days	61	7	53	70	47	yes
total suspended solids	mg/L	every 6 days	61	51	200	250	190	yes

90 percentile yearly summary								
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	maximum result	90 percentile limit	90 percentile value	within limits
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	12	0.8	5.2	0.13	1	yes

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Average yearly summary								
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	maximum result	Average Limit	Average value	within limits
aluminium	ug/L	monthly	12	355	699	890	496	yes
chlorpyrifos	ug/L	monthly	12	<0.05	<0.05	0.09	<0.05	yes
copper	ug/L	monthly	12	45.6	140	160	112	yes
hydrogen sulphide (unionised)	ug/L	monthly	12	<30	309	143	44	yes
nonylphenol ethoxylate	ug/L	monthly	12	<5	163	178	46	yes
sea urchin fertilisation (EC50)	% Effluent/Vol	monthly	12	0.8	5.2	0.24	2.2	yes

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).

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 2021-22 monitoring period.