

North Head Wastewater Treatment Plant

2023-24 Air quality pollution monitoring summaries



EPL 378

Summary period: 1-07-2023 to 30-06-2024

Date published: 01-09-2024

Licensee: Sydney Water

PO Box 399

PARRAMATTA NSW 2124

EPA Point 33		Point description: Ventilation outlet at Scotts Creek						
pollutant	unit of measure	sampling frequency	number of samples	minimum	average	maximum	maximum limit	% within limits*
hydrogen sulphide gas	mg/m ³	30 minutes	17,566 ¹	<0.004	<0.004	0.009	5	100

EPA Point 34		Point description: Ventilation outlet at Lane Cove River West						
pollutant	unit of measure	sampling frequency	number of samples	minimum	average	maximum	maximum limit	% within limits*
hydrogen sulphide gas	mg/m ³	30 minutes	17,566 ¹	<0.004	<0.004	0.127	5	100

EPA Point 35		Point description: Ventilation outlet at North Head STP for Northside Storage Tunnel						
pollutant	unit of measure	sampling frequency	number of samples	minimum	average	maximum	maximum limit	% within limits*
hydrogen sulphide gas	mg/m ³	30 minutes	17,568	<0.01	<0.01	7.10	5	>99.9 ²

*Maximum limits for air quality are based on the Protection of the Environment Operations (Clean Air) Regulation 2010 - Schedule 4 Standards of concentration for scheduled premises: general activities and plant.

¹ Commentary for data loss are included in 2023-24 monthly summary reports.

² Commentary for exceedances are included in 2023-24 monthly summary reports.

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EPA Point 63		Point description: Central scrubber outlet at North Head STP						
pollutant	unit of measure	sampling frequency	number of samples	minimum	average	maximum	maximum limit	% within limits*
chlorine gas	mg/m ³	30 minutes	17,568	<0.15	0.16	29.50	200	100
hydrogen sulphide gas	mg/m ³	30 minutes	17,568	<0.075	<0.075	2.130	5	100

EPA Point 66		Point description: Bio Trickling Filter / Standby Scrubber at North Head STP						
pollutant	unit of measure	sampling frequency	number of samples	minimum	average	maximum	maximum limit	% within limits*
chlorine gas	mg/m ³	30 minutes	17,568	<0.59	<0.59	<0.59	200	100
hydrogen sulphide gas	mg/m ³	30 minutes	17,568	0.128	0.146	2.712	5	100

*Maximum limits for air quality are based on the Protection of the Environment Operations (Clean Air) Regulation 2010 - Schedule 4 Standards of concentration for scheduled premises: general activities and plant.

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EPA Point 64		Point description: Air sampling outlet of cogeneration facility unit 1 at North Head STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
nitrogen oxides	mg/m ³	yearly	3	444	448	453

Yearly measurement was taken on 15-01-2024.

EPA Point 65		Point description: Air sampling outlet of cogeneration facility unit 2 at North Head STP				
pollutant	unit of measure	sampling frequency	number of samples	minimum result	mean result	maximum result
nitrogen oxides	mg/m ³	yearly	3	414	417	419

Yearly measurement was taken on 15-01-2024.