

North Head Wastewater Treatment Plant

2021-22 Air quality pollution monitoring summaries



EPL 378

Summary period: 1-07-2021 to 30-06-2022

Date published: 19-08-2021

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	17517 ¹	<0.004	<0.004	<0.004	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	17517 ¹	<0.004	<0.004	0.114	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	17518	<0.01	0.033	7.10	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.

¹One sampling point missing in July 2021 due to SCADA system failure.

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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	17518	<0.15	<0.15	1.85	200	100%
hydrogen sulphide gas	mg/m ³	30 minutes	17518	<0.075	<0.075	2.035	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	17518	<0.59	<0.59	1.29	200	100%
hydrogen sulphide gas	mg/m ³	30 minutes	17518	0.104	0.168	7.421	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.*

²Details of any limit exceptions were provided in monthly reports.

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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	255	281	302

Yearly measurement was taken on 11-05-2022.

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	0 ¹	-	-	-

¹Unit was offline during 2021-22.