

North Head Wastewater Treatment Plant

July Pollution Monitoring Summary

Air Quality



EPL 378

Summary period: 01-07-2021 to 31-07-2021

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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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m ³	30 minutes	1487 ¹	<0.004	<0.004	5	yes

EPA Point 34	Point description: Ventilation outlet at Lane Cove River West						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m ³	30 minutes	1487 ¹	<0.004	<0.004	5	yes

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 result	maximum result	maximum limit	within limits*
hydrogen sulphide gas	mg/m ³	30 minutes	1488	0.12	0.74	5	yes

EPA Point 63	Point description: Central scrubber outlet at North Head STP						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m ³	30 minutes	1488	<0.15	1.85	200	yes
hydrogen sulphide gas	mg/m ³	30 minutes	1488	<0.075	1.66	5	yes

EPA Point 66	Point description: Bio Trickling Filter / Standby Scrubber at North Head STP						
pollutant	unit of measure	sampling frequency	number of samples	minimum result	maximum result	maximum limit	within limits*
chlorine gas	mg/m ³	30 minutes	1488	<0.59	1.29	200	yes
hydrogen sulphide gas	mg/m ³	30 minutes	1488	<0.071	7.07	5	no 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.

¹One missing data point on 01/07/2021 at 10:00am.

²An exceedance of the maximum limit occurred on the 12th of July 2021 at 09:30am. This exceedance was due to high H₂S following pump startup after water was stagnant for >48hrs, and lower performance of the bio trickling filter due to low temperatures. Values before and after this event were below limits, ranging from 0.18 to 1.16 mg/m³.