

Monthly Air Quality Monitoring at Cheung Chau (February 2025)

Air Quality Monitoring Data Under Air Quality Objectives

Pollutant	Averaging time	Concentration Limit	Mean	Range	Number of exceedances
Sulphur dioxide ($\mu\text{g}/\text{m}^3$)	10-minute	500	4.0	2.4 - 6.7	0
	24-hour	50	4.0	2.9 - 5.6	0
Respirable suspended particulates (PM10) ($\mu\text{g}/\text{m}^3$)	24-hour	100	29.4	10.3 - 74.8	0
	Annual	50	24.2	N/A	N/A
Fine suspended particulates (PM2.5) ($\mu\text{g}/\text{m}^3$)	24-hour	50	19.0	6.2 - 41.2	0
	Annual	25	14.5	N/A	N/A
Nitrogen dioxide ($\mu\text{g}/\text{m}^3$)	1-hour	200	18.4	0.0 - 92.3	0
	Annual	40	16.1	N/A	N/A
Ozone ($\mu\text{g}/\text{m}^3$)	8-hour	160	21.7	3.5 - 47.6	0
Carbon monoxide ($\mu\text{g}/\text{m}^3$)	1-hour	30,000	516	376 - 1052	0
	8-hour	10,000	516	381 - 713	0
Lead ($\mu\text{g}/\text{m}^3$) in Total Suspended Particulates	Monthly	N/A	<0.012	N/A	N/A
	Annual	0.5	<0.012	N/A	N/A
Lead ($\mu\text{g}/\text{m}^3$) in Respirable Suspended Particulates	Monthly	N/A	<0.012	N/A	N/A
	Annual	0.5	<0.012	N/A	N/A

Other Air Quality Monitoring Data

Dioxins

Pollutant	Averaging time	Result
Dioxins and Furans ($\text{pg I-TEQ}/\text{m}^3$)	Monthly	0.029

Heavy Metal Contents in TSP

Pollutant ($\mu\text{g}/\text{m}^3$)	Averaging time	Result
Aluminium	Monthly	13.52
Antimony		<0.018
Arsenic		<0.006
Barium		<24.58
Beryllium		<0.006
Calcium		<61.46
Cadmium		<0.006
Cobalt		<0.006
Chromium		<0.123
Copper		<0.031
Iron		<6.15
Lead		<0.012
Magnesium		<6.15
Managanese		0.012
Mercury		<0.003
Nickel		<0.031
Selenium		<0.061
Thallium		<0.006
Vanadium	<0.031	
Zinc	<18.44	

Heavy Metal Contents in RSP

Pollutant ($\mu\text{g}/\text{m}^3$)	Averaging time	Result
Aluminium	Monthly	<0.307
Antimony		<0.006
Arsenic		<0.006
Barium		<0.123
Beryllium		<0.006
Calcium		<30.73
Cadmium		<0.006
Cobalt		<0.006
Chromium		<0.061
Copper		<0.012
Iron		<3.07
Lead		<0.012
Magnesium		<6.15
Managanese		0.006
Mercury		<0.003
Nickel		<0.031
Selenium		<0.061
Thallium		<0.006
Vanadium	<0.031	
Zinc	<0.307	

Hexavalent Chromium Content

Pollutant (ng/m^3)	Averaging time	Result
Hexavalent Chromium	Monthly	0.020