

Monthly Air Quality Monitoring at Cheung Chau (June 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	3.6	3.0 - 6.0	0
	24-hour	40	3.6	3.4 - 3.7	0
Respirable suspended particulates (PM10) ($\mu\text{g}/\text{m}^3$)	24-hour	75	12.4	6.2 - 28.0	0
	Annual	30	26.7	N/A	N/A
Fine suspended particulates (PM2.5) ($\mu\text{g}/\text{m}^3$)	24-hour	37.5	5.9	2.7 - 16.9	0
	Annual	15	15.2	N/A	N/A
Nitrogen dioxide ($\mu\text{g}/\text{m}^3$)	1-hour	200	5.6	0.0 - 56.5	0
	24-hour	120	5.6	0.5 - 18.2	0
	Annual	40	15.3	N/A	N/A
Ozone ($\mu\text{g}/\text{m}^3$)	8-hour	160	18.2	4.9 - 48.3	0
	Peak Season	100	N/A	N/A	N/A
Carbon monoxide ($\mu\text{g}/\text{m}^3$)	1-hour	30,000	200	0 - 560	0
	8-hour	10,000	200	0 - 442	0
	24-hour	4,000	200	28 - 307	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	0.031

Heavy Metal Contents in TSP

Pollutant ($\mu\text{g}/\text{m}^3$)	Averaging time	Result
Aluminium	Monthly	20.28
Antimony		<0.018
Arsenic		<0.006
Barium		29.50
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		21.51

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