

Monthly Air Quality Monitoring at Cheung Chau (September 2024)

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	3.0 - 8.6	0
	24-hour	50	4.0	3.6 - 4.4	0
Respirable suspended particulates (PM10) ($\mu\text{g}/\text{m}^3$)	24-hour	100	17.9	6.9 - 39.0	0
	Annual	50	N/A	N/A	N/A
Fine suspended particulates (PM2.5) ($\mu\text{g}/\text{m}^3$)	24-hour	50	10.8	3.1 - 26.3	0
	Annual	25	N/A	N/A	N/A
Nitrogen dioxide ($\mu\text{g}/\text{m}^3$)	1-hour	200	4.0	0.0 - 43.1	0
	Annual	40	N/A	N/A	N/A
Ozone ($\mu\text{g}/\text{m}^3$)	8-hour	160	46.1	9.2 - 160.0	1
Carbon monoxide ($\mu\text{g}/\text{m}^3$)	1-hour	30,000	310	156 - 806	0
	8-hour	10,000	310	178 - 538	0
Lead ($\mu\text{g}/\text{m}^3$) in Total Suspended Particulates	Monthly	N/A	<0.012	N/A	N/A
	Annual	0.5	N/A	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	N/A	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	0.012

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	0.025