

Air Zone Report (2019-2021)



Summary

This air zone report is part of the commitment of British Columbia (B.C.) under the national Air Quality Management System (AQMS). It provides information on the status of air quality, including the achievement of the Canadian Ambient Air Quality Standards (CAAQS) and the assignment of management levels for all seven B.C. air zones. Achievement is determined for each pollutant based on data from air quality monitoring stations in communities within each air zone.

For the 2019-2021 reporting period, the Central Interior, Georgia Strait, Lower Fraser Valley, and Southern Interior air zones did not achieve the CAAQS for fine particulate matter (PM_{2.5}) (Table 1). Two of these air zones (Georgia Strait and Lower Fraser Valley) did not achieve the CAAQS for PM_{2.5} due to transboundary flows and exceptional events, such as smoke from the massive wildfires in western United States in 2020 and wildfires in the Central and Southern Interior of B.C. in 2021. The Southern Interior also did not meet the CAAQS for sulphur dioxide (SO₂). CAAQS achievement for the Northwest air zone cannot be determined due to absence of an AQMS monitoring station in this remote and sparsely populated area.

Table 1. Achievement of the Canadian Ambient Air Quality Standards (CAAQS) in the B.C. air zones based on 2019-2021 air quality data.

Air Zone	PM _{2.5}	O ₃	NO ₂	SO ₂	
Central Interior	Not Achieved	Achieved	Achieved	Achieved	
Coastal	Achieved	Achieved	Achieved	Achieved	
Georgia Strait	Not Achieved*	Achieved	Achieved	Achieved	
Lower Fraser Valley	Not Achieved*	Achieved	Achieved	Achieved	
Northeast	Achieved	Achieved	Achieved	Achieved	
Northwest	No Data Available				
Southern Interior	Not Achieved	Achieved	Achieved	Not Achieved	

*The 2020 Canadian Ambient Air Quality Standards for PM_{2.5} was not achieved in Georgia Strait and the Lower Fraser Valley air zone due to the influence of TFEE.

Assignment of management levels is another important component of the AQMS. It promotes continuous improvement by recommending management actions at all levels of pollution even when the CAAQS are achieved. It uses a four-colour coded scheme to define management levels, with each colour corresponding to actions that are more stringent with increasing pollution levels (Table 2). Some jurisdictions, including B.C., adjust their calculation of management levels to account for factors that are outside their control or jurisdiction. Adjustments for transboundary flow and exceptional events (TFEE) are conducted following a guidance document developed by the Canadian Council of Ministers



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of the Environment¹. In this report, adjustments were made to account for severe wildfires in B.C., and smoke from wildfires in the Western United States.

Table 2. Management levels and corresponding management actions assigned for PM2.5, O3, NO2, and SO2 based	on
the levels of pollution reported in terms of annual, 24-hour, 8-hour, and 1-hour metrics.	

	Decommended	PM _{2.5}		O ₃	O ₃ NO ₂		SO ₂	
Management Level	Management Action	Annual	24-hour	8-hour	Annual	1-hour	Annual	1-hour
		(µg/m³)	(µg/m³)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
Red	Achieve CAAQS	>8.8	>27	>62	>17.0	>60	>5.0	>70
Orange	Prevent CAAQS	6 5-8 8	20-27	57-62	7 1-17 0	32-60	3 1-5 0	51-70
Oralige	Exceedance	0.5-8.8	20-27	57-02	7.1-17.0	52-00	5.1-5.0	51-70
Vollow	Prevent Air Quality	1161	11 10	E1 E6	2170	21 21	2120	21 50
reliow	Deterioration	4.1-0.4	11-19	21-20	2.1-7.0	21-21	2.1-3.0	51-20
Green	Keep Clean Areas Clean	≤4.0	≤10	≤50	≤2.0	≤20	≤2.0	≤30

In the 2019-2021 reporting period, the Central Interior and the Southern Interior are assigned red management levels for PM_{2.5} because the level of PM_{2.5} pollution measured from some communities in these air zones exceeds the numerical values of the CAAQS annual and 24-hour metrics even after adjusting for TFEE influence from wildfires (Table 3). Under a red management level, the goal of management actions is to achieve CAAQS in the air zone. Southern Interior is also assigned red management level for SO₂ because of the high levels observed from one community in this air zone. The Northwest air zone does not have defined management levels because there are no AQMS-reporting stations in this remote and sparsely populated area.

Table 3. Air quality management level of B.C. air zones for fine particulate matter (PM_{2.5}), ozone (O₃), nitrogen dioxide (NO₂), and sulphur dioxide (SO₂) using data adjusted for the influence of TFEE.

Air Zone	PM _{2.5}	O ₃	NO ₂	SO ₂	
Central Interior	Red	Green	Orange	Yellow	
Coastal	Yellow	Green	Yellow	Green	
Georgia Strait	Orange	Yellow	Orange	Green	
Lower Fraser Valley	Yellow	Orange	Orange	Green	
Northeast	Yellow	Yellow	Orange	Yellow	
Northwest	No Data Available				
Southern Interior	Red	Yellow	Orange	Red	

This air zone report briefly explains B.C.'s air zones, air quality monitoring, major air pollutants, and the pollution levels in the communities within each air zone. Pollution levels are reported in terms of metrics, which are statistical calculations of air quality data used for determining trends, comparing pollution levels between communities, and assessing CAAQS achievement and management levels.

For more information about air quality, CAAQS calculations, TFEE, and air zone reports, proceed to gov.bc.ca/airzonereports.

¹ Canadian Council of Ministers of the Environment, *Guidance Document on Transboundary Flows and Exceptional Events* (CCME, 2021),

https://ccme.ca/en/res/guidancedocumentontransboundaryflowsandexceptionalevents_secured.pdf.



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Air Zones and Air Quality Monitoring in British Columbia

British Columbia is divided into seven air zones. Each air zone (except the Northwest air zone) has at least one monitoring station equipped to measure common air pollutants such as fine particulate matter (PM_{2.5}), ozone (O₃), nitrogen dioxide (NO₂), and sulphur dioxide (SO₂). Most stations are operated by the Ministry of Environment and Climate Change Strategy (ENV) or Metro Vancouver Regional District (MVRD). Additional monitoring stations are operated by BC Hydro, Prince Rupert Port Authority (PRPA), and the industries required to operate monitoring stations under their permits..



Figure 1. Map showing the seven air zones of British Columbia, the largest cities within the air zone, and air quality monitoring stations.

Air Pollutants of Major Concern

The four pollutants listed below are featured in this air zone report. These pollutants have significant emissions from multiple sources and strong evidence of health impacts. Federal, provincial, and territorial governments have agreed to establish air quality objectives called the Canadian Ambient Air Quality Standards (CAAQS) for these pollutants (Table 2) because of their health and environmental impacts. Monitoring of these pollutants is conducted in communities throughout B.C. as part of AQMS in order to report pollutant levels, calculate their metrics, assess CAAQS achievement, and assign management levels.

Pollutant	Major Sources	Health Impacts
Fine Particulate Matter, PM _{2.5}	Wildfire, residential and open burning, dust, vehicle exhaust, industrial processes	Increases risk of premature death from respiratory and cardiovascular issues.
Ground-Level Ozone, O₃	Nitrogen oxide and volatile organics reacting under sunlight	Associated with respiratory conditions and can aggravate asthma and chronic lung diseases.
Nitrogen Dioxide, NO ₂	Combustion of fossil fuels in vehicles and industrial equipment	Can aggravate health conditions such as asthma and COPD. May cause asthma, increased susceptibility to respiratory infections like COVID19.
Sulphur Dioxide, SO ₂	Combustion of sulfur-containing fuels, industrial operations	Can make sensitive individuals, such as those with asthma, COPD, the young, and the elderly, sick with respiratory symptoms.



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Levels of Pollution in Communities within each Air Zone

There are 65 locations in B.C. that reported data for the 2019-2021 air zone report. Metrics for each pollutant are calculated from this data and adjusted for TFEE to determine adjusted metrics and the management level of the entire air zone. These results are shown in Tables 4 through 9 for PM_{2.5}, Tables 10 through 15 for ozone, Tables 16 through 21 for NO₂, and Tables 22 through 27 for SO₂.

Location	PM _{2.5} Metric	Observed Value (μg/m ³)	Adjusted Value (μg/m³)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)	
Burne Lake	Daily	20	20	Orange	Orango	
Burns Lake	Annual	7.6	7.6	Orange	Orange	
Houston	Daily	30	30	Red	Pod	
Houston	Annual	8.9	8.9	Red	кеа	
Drings Coorge*	Daily	INC	INC	INC	INC	
Prince George*	Annual	INC	INC	INC	INC	
Quernel	Daily	34	25	Orange	Orange	
Quesnei	Annual	9.4	8.6	Orange		
Craithors	Daily	20	20	Orange	0	
Smithers	Annual	7.2	7.2	Orange	Orange	
Valomount**	Daily	63	55	Red	Dod	
valemount	Annual	INC	INC	INC	кеа	
\/andarbaaf***	Daily	29	INC	INC	INC	
vanuernoor	Annual	INC	INC	INC	INC	
Williams Laka	Daily	23	18	Yellow	Vallaw	
williams Lake	Annual	6.5	5.9	Yellow	rellow	
Central Interior Air Zone Overall	Management Level: RED Management Objective: Achieve CAAOS					

Table 4. Fine Particulate Matter (PM_{2.5}) for Communities in the Central Interior Air Zone (2019-2021).

* Not enough valid data for the 2019-2021 report. Prince George was previously assigned orange management level based on the 2016-2018 report.

** Based on incomplete data.

*** Not enough valid data for the 2019-2021 report. Valemount and Vanderhoof were assigned red management level in the previous 2018-2020 report.

Table 5. Fine Particulate	e Matter (PM _{2.5}) for Communities in the	Coastal Air Zone (2019-2021).
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Location	PM _{2.5} Metric	Observed Value(µg/m³)	Adjusted Value (μg/m³)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Kitimat-	Daily	9	9	Green	Croop
Riverlodge	Annual	3.5	3.5	Green	Green
Kitimat-	Daily	9	9	Green	Groop
Whitesail	Annual	3.2	3. 2	Green	Green
Duines Dunent	Daily	8	8	Green	Green
Prince Rupert	Annual	2.9	2.9	Green	
Terrace	Daily	14	14	Yellow	Vallaw
	Annual	4.9	4.9	Yellow	rellow
Coastal Air Zone Overall	Management Level: YELLOW Management Objective: Prevent Air Quality Deterioration				



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Table 6. Fine Particulate Matter (PM_{2.5}) for Communities in the Georgia Strait Air Zone (2019-2021).

Location	PM _{2.5} Metric	Observed Value(µg/m ³)	Adjusted Value (μg/m³)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Comphell Diver	Daily	20	16	Yellow	Vollow
Campbell River	Annual	6.9	6.4	Yellow	Yellow
Colwood	Daily	29	14	Yellow	Mallaur
Colwood	Annual	6.6	5.4	Yellow	renow
Courtonav	Daily	26	24	Orange	Orango
Courtenay	Annual	8.3	7.4	Orange	Orange
Crofton-	Daily	34	10	Green	Groop
Elementary	Annual	4.4	3.2	Green	Green
Crofton-	Daily	22	12	Yellow	Vallow
Substation	Annual	5.4	4.7	Yellow	renow
Duncan-	Daily	25	21	Orange	Orango
Cairnsmore	Annual	7.4	6.8	Orange	Orange
Duncon Doubin	Daily	24	15	Yellow	Vellow
Duncan-Deykin	Annual	6.7	6.0	Yellow	Tenow
Lawadala	Daily	31	11	Yellow	Yellow
Languale	Annual	4.9	3.9	Green	
Nanaimo	Daily	22	11	Yellow	Vallow
Nanaimo	Annual	5.4	4.7	Yellow	Tenow
Port Alberni	Daily	23	20	Orange	Orango
FOIT AIDEITII	Annual	8.2	7.7	Orange	Orange
Powell Piver	Daily	20	11	Yellow	Vellow
FOWEII NIVEI	Annual	5.7	4.8	Yellow	Tenow
Squamish	Daily	25	12	Yellow	Vellow
Squarnish	Annual	5.8	5.0	Yellow	Tenow
Victoria	Daily	33	16	Yellow	Vellow
Victoria	Annual	7.4	6.2	Yellow	Tenow
Whistler	Daily	22	14	Yellow	Vellow
	Annual	5.5	4.8	Yellow	TEHOW
Georgia Strait Air Zone Overall	Management Level: ORANGE Management Objective: Prevent CAAQS Exceedance				



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Table 7. Fine Particulate Matter (PM_{2.5}) for Communities in the Lower Fraser Valley Air Zone (2019-2021).

Location	PM _{2.5} Metric	Observed Value(µg/m ³)	Adjusted Value (μg/m³)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)	
Abbotsford-	Daily	18	15	Yellow	Vallow	
Airport	Annual	5.7	5	Yellow	renow	
Abbotsford-Mill	Daily	14	13	Yellow	Vellow	
Lake	Annual	5.3	4.9	Yellow	renow	
Agossia	Daily	26	13	Yellow	Vallow	
Agassiz	Annual	6	5.1	Yellow	renow	
Burnaby-	Daily	24	10	Green	Vallow	
Kensington Park	Annual	5	4.2	Yellow	renow	
Dumahu Couth	Daily	14	12	Yellow	Valleur	
Burnaby-South	Annual	5.2	4.7	Yellow	renow	
Chillippool	Daily	16	13	Yellow	Vallow	
Chilliwack	Annual	5.9	5.1	Yellow	renow	
	Daily	15	11	Yellow	Vollow	
норе	Annual	5.6	4.7	Yellow	Yellow	
	Daily	27	10	Green	Green	
Horseshoe Bay	Annual	4.6	3.8	Green	Green	
Lawalaw	Daily	24	15	Yellow	Yellow	
Langley	Annual	5.6	4.9	Yellow		
Missien	Daily	28	15	Yellow	Yellow	
iviission	Annual	6.3	5.4	Yellow		
North	Daily	27	10	Green		
Vancouver- Mahon Park	Annual	4.8	4.1	Yellow	Yellow	
New	Daily	15	12	Yellow	Vallow	
Westminster	Annual	6.2	5.8	Yellow	renow	
North Dolto	Daily	19	13	Yellow	Vallow	
North Deita	Annual	6.1	5.4	Yellow	renow	
Ditt Moodows	Daily	24	12	Yellow	Vallow	
Pitt Wieddows	Annual	5.2	4.5	Yellow	renow	
Dort Moody	Daily	25	11	Green	Vallow	
Port woody	Annual	5.4	4.6	Yellow	renow	
Richmond-	Daily	20	12	Yellow	Vallow	
Airport	Annual	5.3	4.6	Yellow	rellow	
Richmond South	Daily	19	13	Yellow	Vellow	
	Annual	5.9	5.2	Yellow	renow	
Surrey Fast	Daily	22	13	Yellow	Vellow	
Juitey Last	Annual	5.9	5.1	Yellow	Tenow	
Терицирсор	Daily	12	10	Green	Vellow	
Isawwassen	Annual	4.6	4.1	Yellow	Yellow	



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Table 7. continued....

Location	PM _{2.5} Metric	Observed Value(µg/m³)	Adjusted Value (μg/m³)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)		
Vancouver-Clark	Daily	26	15	Yellow	Vallow		
Dr.	Annual	7.1	6.3	Yellow	renow		
Lower Fraser							
Valley	Management Level: YELLOW						
Air Zone Overall	Ν	Management Objective: Prevent Air Quality Deterioration					

Table 8. Fine Particulate Matter (PM_{2.5}) for Communities in the Northeast Air Zone (2019-2021).

Location	PM _{2.5} Metric	Observed Value(µg/m³)	Adjusted Value (µg/m³)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)	
Fort St. John	Daily	21	16	Yellow	Yellow	
	Annual	5.2	4.9	Yellow		
Northeast	Management Level: YELLOW					
Air Zone Overall	٩	Management Objective: Prevent Air Quality Deterioration				

Table 9. Fine Particulate Matter (PM_{2.5}) for Communities in the Southern Interior Air Zone (2019-2021).

Location	PM _{2.5} Metric	Observed Value(µg/m³)	Adjusted Value (μg/m³)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)		
Castlogar	Daily	105	17	Yellow	Orango		
Castlegal	Annual	12.3	6.9	Orange	Orange		
Cranbrook	Daily	29	17	Yellow	Vollow		
CIAIIDIOOK	Annual	6.9	5.9	Yellow	renow		
Coldon	Daily	48	23	Orange	Orango		
Golden	Annual	10.5	8.4	Orange	Orange		
Grand Forks	Daily	49	24	Orange	Pod		
	Annual	11.4	8.9	Red	Reu		
Kamloons	Daily	47	16	Yellow	Orango		
Karnoops	Annual	9.4	6.7	Orange	Orange		
Kolowna	Daily	62	18	Yellow	Vallow		
Kelowna	Annual	9.5	5.9	Yellow	renow		
Vornon	Daily	69	23	Orange	Orango		
vernon	Annual	10.8	8.5	Orange	Orange		
Southern			Managementle	vol: PED			
Interior	Management Objective: Achieve CAAOS						
Air Zone Overall							



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Table 10. Ground-Level Ozone (O₃) for Communities in the Central Interior Air Zone (2019-2021).

Location	Observed Value (ppb)	Adjusted Value (ppb)	Management Level
Prince George	49	49	Green
Quesnel	46	46	Green
Smithers	44	44	Green
Williams Lake	50	50	Green
Central Interior	Ν	/lanagement Level: G	reen
Air Zone Overall	Management Objective: Keep Clean Areas Clean		

Table 11. Ground-Level Ozone (O_3) for Communities in the Coastal Air Zone (2019-2021).

Location	Observed Value (ppb)	Adjusted Value (ppb)	Management Level		
Kitimat-Whitesail	42	42	Green		
Prince Rupert	41	41	Green		
Terrace	44	44	Green		
Coastal	Management Level: Green				
Air Zone Overall	Management Objective: Keep Clean Areas Clean				

Table 12. Ground-Level Ozone (O₃) for Communities in the Georgia Strait Air Zone (2019-2021).

Location	Observed Value (ppb)	Adjusted Value (ppb)	Management Level		
Colwood	51	51	Yellow		
Courtenay	48	48	Green		
Duncan	49	49	Green		
Nanaimo	45	45	Green		
Squamish	44	44	Green		
Victoria	45	45	Green		
Whistler	49	49	Green		
Georgia Strait Air Zone Overall	Management Level: YELLOW Management Objective: Prevent Air Quality Deterioration				



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Table 13. Ground-Level Ozone (O_3) for Communities in the Lower Fraser Valley Air Zone (2019-2021).

Location	Observed Value (ppb)	Adjusted Value (ppb)	Management Level	
Abbotsford-Airport	52	51	Yellow	
Abbotsford-Mill Lake	50	50	Green	
Agassiz	54	52	Yellow	
Burnaby-Kensington Park	46	46	Green	
Burnaby-Mtn	53	53	Yellow	
Burnaby-South	44	44	Green	
Chilliwack	57	55	Yellow	
Coquitlam	54	54	Yellow	
Норе	56	56	Yellow	
Langley	52	52	Yellow	
Maple Ridge	57	56	Yellow	
Mission	58	57	Orange	
North Vancouver-Mahon Park	45	45	Green	
New Westminster	47	47	Green	
North Delta	45	45	Green	
Pitt Meadows	50	50	Green	
Port Moody	48	48	Green	
Richmond-Airport	44	44	Green	
Richmond-South	45	45	Green	
Surrey East	50	50	Green	
Tsawwassen	46	46	Green	
Vancouver-Clark Dr.	41	41	Green	
Vancouver-Downtown	38	38	Green	
Lower Fraser Valley	Management Level: ORANGE			
Air Zone Overall	Management Objective: Prevent CAAQS Exceedance			



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Table 14. Ground-Level Ozone (O_3) for Communities in the Northeast Air Zone (2019-2021).

Location	Observed Value (ppb)	Adjusted Value (ppb)	Management Level		
Fort St. John	50	50	Green		
Taylor-Townsite	51	51	Yellow		
Northeast	Management Level: YELLOW				
Air Zone Overall	Management Objective: Prevent Air Quality Deterioration				

Table 15. Ground-Level Ozone (O₃) for Communities in the Southern Interior Air Zone (2019-2021).

Location	Observed Value (ppb)	Adjusted Value (ppb)	Management Level	
Castlegar	52	52	Yellow	
Cranbrook	53	53	Yellow	
Kamloops	51	51	Yellow	
Kelowna	52	52	Yellow	
Vernon	52	52	Yellow	
Southern Interior Air Zone Overall	Management Level: YELLOW Management Objective: Prevent Air Quality Deterioration			



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Table 16. Nitrogen Dioxide (NO₂) for Communities in the Central Interior Air Zone (2019-2021).

Location	NO₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Dringo Coorgo	1-Hour	43.4	Orange	Orango
Prince George	Annual	8.3	Orange	Orange
0	1-Hour	38.1	Orange	Orango
Quesnei	Annual	8.1	Orange	Orange
Smithors	1-Hour	29	Yellow	Yellow
Smithers	Annual	6.3	Yellow	
Williams Lake	1-Hour	34.7	Orange	Orango
	Annual	INC	INC	Orange
Central Interior Air Zone Overall	Management Level: ORANGE Management Objective: Prevent CAAQS Exceedance			

Table 17. Nitrogen Dioxide (NO₂) for Communities in the Coastal Air Zone (2019-2021).

Location	NO ₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Kitimat Whitesail	1-Hour	14.3	Green	Groop
Kitimat-whitesan	Annual	1.8	Green	Green
Drinco Ruport	1-Hour	24.8	Yellow	Yellow
Prince Rupert	Annual	3.9	Yellow	
Torraço	1-Hour	23	Yellow	Velleur
Terrace	Annual	2.7	Yellow	fellow
Coastal Air Zone Overall	Management Level: YELLOW Management Objective: Prevent Air Quality Deterioration			



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Table 18. Nitrogen Dioxide (NO₂) for Communities in the Georgia Strait Air Zone (2019-2021).

Location	NO ₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)		
Colwood	1-Hour	23.3	Yellow	Vallow		
Colwood	Annual	3.8	Yellow	Tenow		
Courtonav	1-Hour	23.4	Yellow	Vallow		
Courtenay	Annual	3.5	Yellow	fellow		
Duncan	1-Hour	22.1	Yellow	Vallow		
Duncan	Annual	4.2	Yellow	Yellow		
Langdala	1-Hour	21.8	Yellow	Yellow		
Languale	Annual	4	Yellow			
Nanaima	1-Hour	26.4	Yellow	Yellow		
Nanaimo	Annual	4.9	Yellow			
Squamich	1-Hour	23	Yellow			
Squamisn	Annual	5.1	Yellow	reliow		
Victoria	1-Hour	34.3	Orange	Orango		
VICLOFIA	Annual	6.1	Yellow	Orange		
\A/bistlor	1-Hour	21.1	Yellow	Vollow		
vvnistier	Annual	2.8	Yellow	rellow		
Georgia Strait	Management Level: ORANGE					
Air Zone Overall	Ma	Management Objective: Prevent CAAQS Exceedance				



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Table 19. Nitrogen Dioxide (NO₂) for Communities in the Lower Fraser Valley Air Zone (2019-2021).

Location	NO ₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Abbotsford_Airport	1-Hour	28.4	Yellow	Vellow
	Annual	6.2	Yellow	Tenow
Abbotsford-Mill Lake	1-Hour	33.3	Orange	Orango
	Annual	7.4	Orange	Orange
Δαρεείτ	1-Hour	28.4	Yellow	Orango
Agassiz	Annual	7.1	Orange	Orange
Burnaby-Kensington	1-Hour	35.1	Orange	Orango
Park	Annual	8.9	Orange	Orange
Rurpaby-Mtp	1-Hour	31.6	Orange	Orango
Buillaby-Ivitii	Annual	6	Yellow	Orange
Burnahy-South	1-Hour	38	Orange	Orange
Burnaby-South	Annual	10.6	Orange	Orange
Chilliwack	1-Hour	28.8	Yellow	Orango
CHIIIIWACK	Annual	7.2	Orange	Orange
Coquitlam	1-Hour	32.9	Orange	Orango
Coquitiani	Annual	8.3	Orange	Orange
Hono	1-Hour	23.5	Yellow	- Yellow
поре	Annual	6	Yellow	
	1-Hour	23.3	Yellow	Vallow
Langley	Annual	5.3	Yellow	Tenow
Maple Pidge	1-Hour	30.7	Yellow	Vollow
Maple Muge	Annual	6.5	Yellow	Tenow
Mission	1-Hour	28.8	Yellow	Vellow
1011351011	Annual	5.5	Yellow	Tenow
NorthVancouver -	1-Hour	37.4	Orange	Orango
Mahon Park	Annual	9.6	Orange	Orange
New Westminster	1-Hour	40	Orange	Orango
New Westminster	Annual	13.9	Orange	Orange
North Delta	1-Hour	40.1	Orange	Orango
North Delta	Annual	10.5	Orange	Orange
Pitt Meadows	1-Hour	36	Orange	Orange
	Annual	7.3	Orange	Orange
Port Moody	1-Hour	36.5	Orange	Orange
i ort woody	Annual	10.8	Orange	Orange
Richmond-Airport	1-Hour	41.1	Orange	Orange
All port	Annual	11.1	Orange	Orange
Richmond-South	1-Hour	37.1	Orange	Orango
KICHMOND-SOUTH	Annual	10.1	Orange	Orange



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Table 19. continued...

Location	NO ₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)	
Surroy Fact	1-Hour	33	Orange	Orango	
Surrey East	Annual	7.3	Orange	Orange	
Tsawwassen	1-Hour	29.6	Yellow	Vollow	
	Annual	5.4	Yellow	reliow	
	1-Hour	47.6	Orange	Orange	
	Annual	16.4	Orange		
Vancouver Downtown	1-Hour	39.9	Orange	Orango	
vancouver-Downtown	Annual	15.8	Orange	Orange	
Lower Fraser Valley	Management Level: ORANGE				
Air Zone Overall	Management Objective: Prevent CAAQS Exceedance				

Table 20. Nitrogen Dioxide (NO₂) for Communities in the Northeast Air Zone (2019-2021).

Location	NO ₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Fort St. John	1-Hour	45.9	Orange	Orange
	Annual	6.4	Yellow	
Taylor-Townsite	1-Hour	37.1	Orange	Orange
	Annual	5.4	Yellow	
Northeast Air Zone Overall	Management Level: ORANGE Management Objective: Prevent CAAQS Exceedance			

Table 21. Nitrogen Dioxide (NO₂) for Communities in the Southern Interior Air Zone (2019-2021).

Location	NO₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Castlanan	1-Hour	25.7	Yellow	Vallow
Castlegal	Annual	5.9	Yellow	renow
Craphrook	1-Hour	28.2	Yellow	Vallow
Сгапргоок	Annual	4.3	Yellow	Yellow
Kamloons	1-Hour	38.3	Orange	Orange
Kannoops	Annual	10.5	Orange	
Kelowna	1-Hour	25.5	Yellow	Yellow
	Annual	5.8	Yellow	
Vernon	1-Hour	35	Orange	Orange
	Annual	10	Orange	
Southern Interior Air Zone Overall	Management Level: ORANGE Management Objective: Prevent CAAQS Exceedance			



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Table 22. Sulphur Dioxide (SO₂) for Communities in the Central Interior Air Zone (2019-2021).

Location	SO ₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Prince George	1-Hour	33.8	Yellow	Yellow
	Annual	1.6	Green	
Quesnel	1-Hour	9.3	Green	Green
	Annual	0.4	Green	
Central Interior	Management Level: YELLOW			
All Zone Overall	Management Objective: Prevent Air Quality Deterioration			Deterioration

Table 23. Sulphur Dioxide (SO₂) for Communities in the Coastal Air Zone (2019-2021).

Location	SO ₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Kitiwat Usiala Millara	1-Hour	15.6	Green	Croon
Kitimat-Haisia Village	Annual	0.2	Green	Green
Kitimat Riverledge	1-Hour	28.7	Green	Groop
Kitimat-Riveriooge	Annual	0.4	Green	Green
Kitimat-Whitesail	1-Hour	18.7	Green	Green
	Annual	0.3	Green	
Prince Rupert	1-Hour	1.6	Green	Green
	Annual	0.1	Green	
Terrace	1-Hour	4.5	Green	Green
	Annual	0.5	Green	
Coastal	Management Level: Green			
Air Zone Overall	Management Objective: Keep Clean Areas Clean			

Table 24. Sulphur Dioxide (SO₂) for Communities in the Georgia Strait Air Zone (2019-2021).

Location	SO ₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Crafter Elementer	1-Hour	0.6	Green	Croop
Cronon-Elementary	Annual	INC	INC	Green
Langdale	1-Hour	14.3	Green	Green
	Annual	0.8	Green	
Squamish	1-Hour	4	Green	Green
	Annual	0.3	Green	
Victoria	1-Hour	5.2	Green	Green
	Annual	0.2	Green	
Georgia Strait Air Zone Overall	Management Level: Green Management Objective: Keep Clean Areas Clean			



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Table 25. Sulphur Dioxide (SO₂) for Communities in the Lower Fraser Valley Air Zone (2019-2021).

Location	SO Motric	Observed	Mgmt. Level	Mgmt. Level
LOCATION	302 Wethe	Value (ppb)	(Based on Metric)	(Overall)
Abbotsford-Airport	1-Hour	2.3	Green	Creen
	Annual	0.2	Green	Green
	1-Hour	2.1	Green	Croor
	Annual	0.2	Green	Green
Purpaby Capital Hill	1-Hour	25	Green	Groop
Бигнару-Сарісог піп	Annual	0.4	Green	Green
Burnaby-Kensington	1-Hour	5.5	Green	Groop
Park	Annual	0.3	Green	Green
Burnaby North	1-Hour	12.2	Green	Croop
Burnaby-North	Annual	0.6	Green	Green
Purpaby South	1-Hour	3.7	Green	Groop
Burnaby-South	Annual	0.2	Green	Green
Chilliwack	1-Hour	1.7	Green	Groop
CHIIIWACK	Annual	0.1	Green	Green
Landov	1-Hour	2.3	Green	Green
Langley	Annual	0.1	Green	
NorthVancouver-	1-Hour	3.6	Green	Groop
Mahon Park	Annual	0.3	Green	Green
Pitt Meadows	1-Hour	3	Green	Green
	Annual	0.1	Green	Green
Port Moody	1-Hour	5.1	Green	Green
T OT C WOODY	Annual	0.2	Green	Green
Richmond-Airport	1-Hour	4.8	Green	Green
	Annual	0.2	Green	Green
Richmond-South	1-Hour	2.1	Green	Green
	Annual	0.1	Green	Green
Tsawwassen	1-Hour	2.6	Green	Green
150000055011	Annual	0.2	Green	Green
Vancouver-Clark Dr	1-Hour	3.3	Green	Green
	Annual	0.3	Green	Green
Vancouver-Downtown	1-Hour	4.8	Green	Green
	Annual	0.4	Green	
Vancouver-Pandora	1-Hour	5.6	Green	Green
Park	Annual	INC	INC	
Lower Fraser Valley Air Zone Overall	Management Level: Green Management Objective: Keep Clean Areas Clean			



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Table 26. Sulphur Dioxide (SO₂) for Communities in the Northeast Air Zone (2019-2021).

Location	SO ₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Fort St. John	1-Hour	5.1	Green	Green
	Annual	INC	INC	
Taylor-Townsite	1-Hour	37.6	Yellow	Yellow
	Annual	0.5	Green	
Northeast	Management Level: YELLOW			
Air Zone Overall	Management Objective: Prevent Air Quality Deterioration			

Table 27. Sulphur Dioxide (SO₂) for Communities in the Southern Interior Air Zone (2019-2021).

Location	SO₂ Metric	Observed Value (ppb)	Mgmt. Level (Based on Metric)	Mgmt. Level (Overall)
Castlesser	1-Hour	35.4	Yellow	Vallow
Castlegal	Annual	1.2	Green	fellow
Kamloons	1-Hour	4.3	Green	Croop
kamioops	Annual	0.4	Green	Green
Kelowna	1-Hour	1.5	Green	Green
	Annual	0.3	Green	
Trail-Airport	1-Hour	58	Orange	Orange
	Annual	3	Yellow	
Trail-Butler Park	1-Hour	174.6	Red	Red
	Annual	5.4	Red	
Southern Interior Air Zone Overall		Management Level: RED Management Objective: Achieve CAAQS		