



Ambient Air Quality Monitoring Activities (2008)

This is a listing of known continuing air quality monitoring occurring within the province during the year 2008, undertaken by government and/or industry, for which data are publicly available.

Area	Code	Sampling Site Location	Parameters Monitored
Winnipeg (Downtown) NAPS & AQI Site	9119	65 Ellen Street	CO, NO, NO ₂ , NO _x , O ₃ , SO ₂ PM ₁₀ , PM _{2.5} , VOC, IP (dichot PM _{2.5} & PM ₁₀ incl. metal constituents), PAH, aldehydes/ketones, WS, WD
Winnipeg (Residential) NAPS Site	9118	299 Scotia Street	CO, NO, NO ₂ , NO _x , O ₃ , PM _{2.5}
Charleswood		Oak Park High School 820 Charleswood Road	PM _{2.5}
Brandon (Industrial)	5131	Assiniboine Community College (Parking Lot)	NH ₃ , NO, NO ₂ , NO _x , O ₃ , PM ₁₀ , PM _{2.5} , WS, WD
	5141*	Green Acres Industrial Area	NH ₃
Minitonas	6501*	NW 22-36-25	PM ₁₀ , HCHO, benzene, VOC, Phenol, MDI, HCN
	6502*	SW 17-36-25	
Flin Flon	7251	Provincial Building 143 Main Street	SO ₂ , WS, WD, PM ₁₀ , PM _{2.5} , TSP incl. analysis for SO ₄ ⁼ , NO ₃ ⁻ , Pb, As, Cd, Cu, Zn, dichot PM _{2.5} & PM ₁₀ incl. heavy metal constituents
	7271*	Aqua Centre	SO ₂
	7281*	HBMS Staffhouse	
	7291*	Creighton Firehall (SK)	
	7301*	Hapnot Collegiate	
	7284*	Ruth Betts School	TSP and IP incl. selected analysis for Pb, As, Cd, Cu, Zn & Hg. Dichot PM _{2.5} & PM ₁₀ incl. heavy metal constituents (Creighton only)
	7291*	Creighton (SK)	
Thompson	7351*	Thompson Water Treatment Plant	SO ₂ , WD, WS, air temperature
	7361*	Eastwood School	SO ₂
	7371*	Riverside School	SO ₂ , dichot PM _{2.5} & PM ₁₀ incl. selected heavy metal constituents
	7381 +	Mystery Lake School Board	PM ₁₀ , PM _{2.5} , SO ₂

Monitoring designated as * is undertaken by industry as a requirement under the Manitoba Environment Act. Monitoring designated as + is jointly conducted by Manitoba Conservation and industry.

Most monitoring is of a continuous sampling frequency except for TSP and IP (including related analysis for Pb, SO₄⁼, NO₃⁻, and other heavy metal constituents), VOC and other organics.

List of Abbreviations:

AQI	Air Quality Index
As	Arsenic
Cd	Cadmium
CO	Carbon monoxide
Cu	Copper
incl.	including
HBMS	Hudson Bay Mining and Smelting Co., Ltd.
HCHO	Formaldehyde
HCN	Hydrogen cyanide
Hg	Mercury
IP dichot	dichotomous inhalable particulate (two aerodynamic size ranges; less than 2.5 micrometres & 2.5 to 10 micrometre in diameter)
MDI	Methylene diphenyl diisocyanate
NAPS	National Air Pollution Surveillance (a federal/provincial urban air quality monitoring program)
NH ₃	Ammonia
NO	Nitric oxide
NO ₂	Nitrogen dioxide
NO _x	Nitrogen oxides
NO ₃ ⁻	Nitrates
NW	North-West
O ₃	(Ground level) ozone
PAH	Polycyclic Aromatic Hydrocarbons
Pb	Lead
PM ₁₀	Particulate Matter (≤ 10 micrometre aerodynamic diameter)
PM _{2.5}	Particulate Matter (≤ 2.5 micrometre aerodynamic diameter)
SK	Saskatchewan
SO ₂	Sulphur dioxide
SO ₄ ⁼	Sulphates
SW	South-West
TSP	Total suspended particulate matter
VOC	Volatile Organic Compounds
WS	Wind speed
WD	Wind direction
Zn	Zinc

Air Quality Section
Manitoba Conservation
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