

Site (coordinates)	Sources	Distance km (mean)	Sector direction; opening	Sampling period;	n	Avg T ($^{\circ}\text{C}$)	Context
Genesee (114.14 $^{\circ}$ W, 53.31 $^{\circ}$ N)	Coal-fired power plants	7–35	NW, 35 $^{\circ}$	30/09/2010–21/06/2011	6	11.7, 12.2, 5.5, –9.8, –0.9, 12.2	3 plants
Vauxhall (112.11 $^{\circ}$ W, 50.06 $^{\circ}$ N)	Gas compressors and cattle and swine feedlots	12–125+; 7.5–45+	W, 65 $^{\circ}$	25/10/2011–13/12/2011	3	2.6, 0.7, –3.5	65+ compressors; 200+ feedlots
Terrace Heights (113.44 $^{\circ}$ W, 53.54 $^{\circ}$ N)	Urban traffic	< 1–15 (4)	W, 150 $^{\circ}$	24/07/2012–25/10/2012	4	20.3, 15.6, 7.9, –1.8	Park in residential area, 3.5 km east of downtown core
Fort Saskatchewan (113.14 $^{\circ}$ W, 53.72 $^{\circ}$ N)	Chemical industries and metal refining	3–7 (4)	NW, 88 $^{\circ}$	12/04/2013–06/09/2013	4	4.3, 15.7, 16.3, 17.7	Chemical plant and metal refinery largest NO_x sources; fertilizer plant largest NH_3 source
Fort Saskatchewan (113.14 $^{\circ}$ W, 53.72 $^{\circ}$ N)	Fertilizer plant and oil refinery	9–14 (11)	N, 27 $^{\circ}$	20/09/2013–20/01/2014	1	–8.1	Fertilizer plant largest NH_3 and NO_x source, oil refinery major NO_x source