

2015 Exceedances Summary

Air quality measurements are compared hourly to [Alberta Ambient Air Quality Objectives](#) (AAAQO) set by the Government of Alberta. Any exceedances of the AAAQOs are reported to Alberta Environment and Parks and the cause of the exceedance investigated. Exceedances of the AAAQO for 1-hour average measurement are in the following table.

Parameter	Exceedances	Date(s)/Event	Attributed Cause
Ammonia NH ₃	4	Apr 22, Aug 29	Local Industry
Benzene	2	July 28	Local Industry
Hydrogen Sulphide H ₂ S	3	October 12	Local Industry
Ozone O ₃	3	June 27, July 9	Summertime smog
Fine Particulate PM _{2.5}	2	May 3	Grass fire near Vinca Bridge
	121	May 28-28 July 1, July 10-12	Forest Fire Smoke
	4	June 5, July 14	Uncertain. Possible localized industrial activity
	17	Dec 22-23, 28	Wintertime inversion
Sulphur Dioxide SO ₂	34	Feb 18, Apr 5,6, May 10,17, July 10, Aug 8,9, Sep 15, Sep 22,23, Oct 6, Nov 1,2,23 Dec 11,27	Local Industry

Exceedances of the AAAQO for 24-hour average measurement are in the following table.

Parameter	Exceedances	Date(s)/Event	Attributed Cause
Hydrogen Sulphide H ₂ S	1	Oct 12	Local Industry
Fine Particulate PM _{2.5}	1	Jan 11	Wintertime Inversion
	17	May 27 Jun 30, Jul 1,10,11,12	Forest Fire Smoke
	1	Dec 22, 23,28	Wintertime inversion
Sulphur Dioxide SO ₂	6	Apr 5 May 10, Aug 9, Sep 22,23, Nov 1	Local Industry

Exceedances are immediately reported and follow up information provided within seven days if required. If the source is likely local, industry operators nearby are notified so they can take whatever corrective action may be necessary.

Exceedances of the AAAQOs reported in the FAP Airshed during 2015 and previous five years are listed in the following table.

Parameter Measured		2015	2014	2013	2012	2011	2010
Ammonia (NH ₃)	1-hr	4	0	0	0	0	1
Benzene (C ₆ H ₆)	1-hr	2	5	0	1	2	0
Carbon Monoxide (CO)	1-hr	0	0	0	0	0	0
	8-hr	0	0	0	0	0	0
Ethyl benzene (C ₆ H ₅ CH ₂ CH ₃)	1-hr	0	0	0	0	0	0
Ethylene (C ₂ H ₄)	1-hr	0	0	0	0	0	0
	3-day	0	0	0	0	0	0
	Annual	0	0	0	0	0	0
Hydrogen Sulphide (H ₂ S)	1-hr	3	0	147	163	15	0
	24-hr	1	0	29	28	2	0
Nitrogen dioxide (NO ₂)	1-hr	0	0	0	0	0	1
	24-hr	0	0	0	0	0	0
	Annual	0	0	0	0	0	0
Ozone (O ₃)	1-hr	3	0	0	0	4	0
Styrene (C ₆ H ₅ CH=CH ₃)	1-hr	0	0	0	0	0	0
Sulphur dioxide (SO ₂)	1-hr	34	26	6	7	30	42
	24-hr	6	3	2	0	2	6
	30-day	0	0	0	0	0	n/a
	Annual	0	0	0	0	0	0
Particulate Matter Fine (PM _{2.5})	1-hr	144	13	15	28	47	n/a
	24-hr	27	12	11	9	15	39
Toluene (C ₆ H ₅ CH ₃)	1-hr	0	0	0	0	0	0
Xylenes (o-, m- and p- isomers)	1-hr	0	0	0	0	0	0
Total		224	59	210	236	117	89

Note: The Scotford 2 station was moved in April of 2014 because of pipeline construction beginning in May. The new location for the station, named Scotford Temporary had no nearby wetlands, hence the decrease in H₂S exceedances from 2014 to 2015.

