1 **Supplemental information for**

2 **Low levels of nitryl chloride: Nocturnal nitrogen oxides in**

3 **the Lower Fraser Valley of British Columbia**

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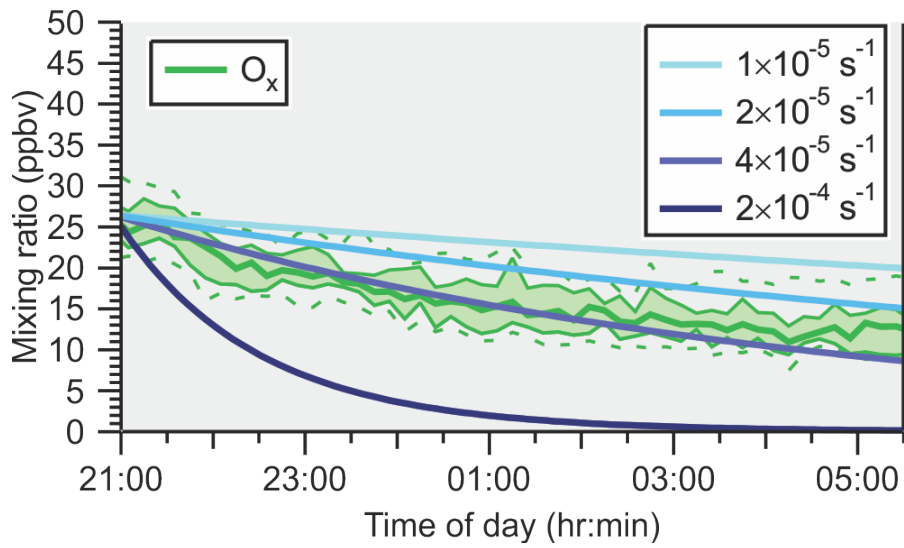
Figure S-1. Observed and simulated O_x loss in the NBL at Abbotsford assuming O_3 dry

deposition rates of 2×10^{-4} s^{-1}, 4×10^{-5} s^{-1}, 2×10^{-5} s^{-1} and 1×10^{-5} s^{-1}, corresponding to approximate

mixing heights of 10 m, 50 m, 100 m, and 200 m.

18   **Table S-1**. Volatile organic compounds quantified by GC-MS

Butane, 2-methyl-	Cyclohexane, methyl-	Benzene, 1,2,3-trimethyl-
1-Pentene	Pentane, 2,3,4-trimethyl-	Benzene, 1,3-diethyl-
Pentane	Heptane, 2-methyl-	Benzene, 1,4-diethyl-
2-Pentene (Z) (cis)	Heptane, 3-methyl-	Undecane
Isoprene (1,3-Butadiene, 2-methyl-)	Toluene	Dodecane
2-Pentene (E) (trans)	Octane	Ethylene
Butane, 2,2-dimethyl-	Ethylbenzene	Acetylene
Cyclopentane	m & p-Xylene	Ethane
2,3-Dimethylbutane	Nonane	Propane
Pentane, 2-methyl-	Styrene	Propylene
Pentane, 3-methyl-	o-Xylene	Isobutane
1-Hexene	Isopropyl Benzene (Benzene, (1-methyleth	1-Butene
Hexane	Benzene, propyl-	Butane
Cyclopentane, methyl-	Benzene, 1-ethyl-3-methyl-	2-Butene (trans)
Pentane, 2,4-dimethyl-	Benzene, 1-ethyl-4-methyl-	2-Butene (cis)
Cyclohexane	Benzene, 1,3,5-trimethyl-	Freon 11 (Trichloromonofluoromethane)
Hexane, 2-methyl-	Decane	Isopropyl Alcohol
Benzene	Benzene, 1-ethyl-2-methyl-	Acetone
2,3-Dimethylpentane	Benzene, 1,2,4-trimethyl-	Ethene, 1,1-dichloro-
Hexane, 3-methyl-		Methylene Chloride
Pentane, 2,2,4-trimethyl-		Freon 113 (Ethane, 1,1,2-trichloro-1,2,2
Heptane		

Carbon disulfide	Methyl Methacrylate	Benzene, 1,4-dichloro-
Ethene, 1,2-dichloro-, (E)-	1-Propene, 1,3-dichloro-, (Z)-	Benzene, 1,2-dichloro-
Methyl tertbutylether (Propane, 2-methox	Methyl Isobutyl Ketone	Benzene, 1,2,4-trichloro-
Ethane, 1,1-dichloro-	1-Propene, 1,3-dichloro-, (E)-	1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Vinyl Acetate (Acetic acid ethenyl ester	Ethane, 1,1,2-trichloro-	Naphthalene
2-Butanone	2-Hexanone	Freon 12
Chloroform (Trichloromethane)	Methane, dibromochloro-	Chloromethane
Ethyl Acetate	Ethane, 1,2-dibromo-	Freon 114
Furan, tetrahydro-	Tetrachloroethylene	Vinyl chloride
Ethane, 1,2-dichloro-	Benzene, chloro-	1,3 Butadiene
Ethane, 1,1,1-trichloro-	Bromoform (Methane, tribromo-)	Bromomethane
Carbon Tetrachloride	Ethane, 1,1,2,2-tetrachloro-	Chloroethane
Trichloroethylene		Ethanol
Methane, bromodichloro-	Ethane, pentachloro-	1R-alpha-Pinene
	Benzyl Chloride	Camphene
		beta-Pinene
1,4-Dioxane	Benzene, 1,3-dichloro-	D-Limonene