

### Appendix 3.7 Summary Results of Comparing the Total Emission from Year 2009 to 2024

Total daily NO<sub>x</sub> emissions (ton/day) by 16 vehicle classes in Year 2009 to 2024 (Trunk Roads).

Vehicle Class	Yr2009	Yr2010	Yr2011	Yr2012	Yr2013	Yr2014	Yr2015	Yr2016	Yr2017	Yr2018	Yr2019	Yr2020	Yr2021	Yr2022	Yr2023	Yr2024
PC&LGV	0.0156	0.0140	0.0126	0.0112	0.0105	0.0099	0.0092	0.0086	0.0081	0.0079	0.0078	0.0077	0.0076	0.0076	0.0075	0.0075
PC&LGV <2.5t	0.0023	0.0021	0.0018	0.0016	0.0014	0.0012	0.0011	0.0009	0.0008	0.0007	0.0007	0.0006	0.0006	0.0006	0.0006	0.0006
LGV2.5-3.5t	0.0086	0.0076	0.0067	0.0058	0.0050	0.0046	0.0043	0.0041	0.0039	0.0038	0.0037	0.0036	0.0036	0.0036	0.0036	0.0036
PLB	0.0003	0.0003	0.0003	0.0002	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
LGV>3.5t	0.0445	0.0419	0.0393	0.0363	0.0332	0.0311	0.0291	0.0270	0.0249	0.0230	0.0215	0.0200	0.0186	0.0179	0.0173	0.0170
HGV<15t	0.2038	0.1897	0.1763	0.1618	0.1472	0.1368	0.1287	0.1198	0.1110	0.1020	0.0939	0.0862	0.0789	0.0738	0.0709	0.0689
HGV>15t	0.0146	0.0135	0.0125	0.0115	0.0104	0.0097	0.0090	0.0084	0.0077	0.0072	0.0067	0.0062	0.0058	0.0055	0.0052	0.0051
FBDD	0.0077	0.0072	0.0066	0.0060	0.0054	0.0049	0.0045	0.0041	0.0038	0.0036	0.0034	0.0033	0.0032	0.0031	0.0030	0.0029
MC	0.0070	0.0070	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069	0.0069
Taxi	0.0028	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027	0.0027
PrLB<3.5t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PrLB>3.5t	0.0012	0.0011	0.0010	0.0008	0.0007	0.0007	0.0006	0.0005	0.0005	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004	0.0004
NFB<6.4t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NFB 6.4-15t	0.0322	0.0294	0.0273	0.0255	0.0235	0.0215	0.0198	0.0182	0.0167	0.0153	0.0142	0.0135	0.0129	0.0124	0.0121	0.0119
NFB>15t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Emissions	0.3405	0.3163	0.2940	0.2704	0.2471	0.2302	0.2160	0.2013	0.1871	0.1736	0.1620	0.1513	0.1412	0.1344	0.1303	0.1276

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Vehicle Class	Yr2009	Yr2010	Yr2011	Yr2012	Yr2013	Yr2014	Yr2015	Yr2016	Yr2017	Yr2018	Yr2019	Yr2020	Yr2021	Yr2022	Yr2023	Yr2024
PC&LGV	0.0082	0.0074	0.0067	0.0060	0.0056	0.0053	0.0049	0.0046	0.0044	0.0043	0.0042	0.0041	0.0041	0.0041	0.0041	0.0040
PC&LGV <2.5t	0.0009	0.0008	0.0007	0.0006	0.0006	0.0005	0.0004	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003	0.0002	0.0002	0.0002
LGV2.5-3.5t	0.0034	0.0030	0.0026	0.0023	0.0020	0.0018	0.0017	0.0016	0.0016	0.0015	0.0015	0.0014	0.0014	0.0014	0.0014	0.0014
PLB	0.0010	0.0009	0.0008	0.0007	0.0006	0.0006	0.0005	0.0004	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
LGV>3.5t	0.0173	0.0163	0.0153	0.0141	0.0129	0.0121	0.0113	0.0105	0.0097	0.0090	0.0084	0.0078	0.0072	0.0069	0.0067	0.0066
HGV<15t	0.0436	0.0406	0.0377	0.0346	0.0315	0.0293	0.0275	0.0256	0.0237	0.0218	0.0201	0.0184	0.0169	0.0158	0.0152	0.0147
HGV>15t	0.0032	0.0029	0.0027	0.0025	0.0023	0.0021	0.0020	0.0018	0.0017	0.0016	0.0015	0.0014	0.0013	0.0012	0.0011	0.0011
FBDD	0.0101	0.0095	0.0087	0.0079	0.0072	0.0065	0.0059	0.0054	0.0050	0.0047	0.0045	0.0043	0.0042	0.0040	0.0039	0.0038
MC	0.0032	0.0032	0.0032	0.0032	0.0032	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031	0.0031
Taxi	0.0058	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057	0.0057
PrLB<3.5t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PrLB>3.5t	0.0009	0.0009	0.0008	0.0007	0.0006	0.0005	0.0005	0.0004	0.0004	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003	0.0003
NFB<6.4t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NFB 6.4-15t	0.0277	0.0252	0.0235	0.0219	0.0202	0.0185	0.0170	0.0157	0.0143	0.0131	0.0122	0.0116	0.0111	0.0106	0.0104	0.0103
NFB>15t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FBSD	0.0008	0.0008	0.0007	0.0007	0.0006	0.0006	0.0005	0.0005	0.0004	0.0003	0.0003	0.0003	0.0002	0.0002	0.0002	0.0002
Total Emissions	0.1262	0.1172	0.1092	0.1009	0.0929	0.0866	0.0811	0.0758	0.0707	0.0661	0.0624	0.0591	0.0561	0.0540	0.0528	0.0520



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Total daily RSP emissions (ton/day) by 16 vehicle classes in Year 2009 to 2024 (Trunk Roads).

Vehicle Class	Yr2009	Yr2010	Yr2011	Yr2012	Yr2013	Yr2014	Yr2015	Yr2016	Yr2017	Yr2018	Yr2019	Yr2020	Yr2021	Yr2022	Yr2023	Yr2024
PC&LGV	0.00034	0.00034	0.00034	0.00034	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033	0.00033
PC&LGV <2.5t	0.00072	0.00068	0.00062	0.00054	0.00048	0.00043	0.00037	0.00032	0.00029	0.00026	0.00024	0.00023	0.00022	0.00021	0.00020	0.00020
LGV2.5-3.5t	0.00264	0.00237	0.00210	0.00179	0.00152	0.00140	0.00131	0.00125	0.00119	0.00114	0.00112	0.00110	0.00110	0.00110	0.00110	0.00110
PLB	0.00025	0.00024	0.00022	0.00019	0.00016	0.00014	0.00012	0.00010	0.00008	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007	0.00007
LGV>3.5t	0.00507	0.00462	0.00415	0.00361	0.00304	0.00268	0.00238	0.00205	0.00167	0.00133	0.00116	0.00103	0.00093	0.00086	0.00083	0.00081
HGV<15t	0.02026	0.01849	0.01648	0.01411	0.01161	0.00987	0.00864	0.00738	0.00595	0.00462	0.00376	0.00329	0.00295	0.00267	0.00250	0.00241
HGV>15t	0.00123	0.00109	0.00096	0.00082	0.00066	0.00054	0.00045	0.00037	0.00030	0.00024	0.00020	0.00017	0.00015	0.00014	0.00013	0.00013
FBDD	0.00036	0.00032	0.00027	0.00023	0.00019	0.00017	0.00015	0.00013	0.00012	0.00010	0.00009	0.00009	0.00008	0.00008	0.00007	0.00007
MC	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028	0.00028
Taxi	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024	0.00024
PrLB<3.5t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PrLB>3.5t	0.00074	0.00070	0.00063	0.00056	0.00049	0.00045	0.00039	0.00034	0.00031	0.00029	0.00026	0.00025	0.00024	0.00024	0.00023	0.00023
NFB<6.4t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NFB 6.4-15t	0.00283	0.00242	0.00211	0.00184	0.00150	0.00117	0.00092	0.00079	0.00068	0.00058	0.00049	0.00044	0.00042	0.00041	0.00040	0.00039
NFB>15t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FBSD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Emissions	0.03495	0.03176	0.02838	0.02452	0.02050	0.01768	0.01556	0.01357	0.01143	0.00946	0.00823	0.00750	0.00700	0.00660	0.00636	0.00625



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PC&LGV	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021	0.00021
PC&LGV <2.5t	0.00034	0.00032	0.00029	0.00025	0.00023	0.00020	0.00017	0.00015	0.00013	0.00012	0.00011	0.00011	0.00010	0.00010	0.00010	0.00009
LGV2.5-3.5t	0.00122	0.00109	0.00097	0.00083	0.00070	0.00065	0.00061	0.00058	0.00055	0.00053	0.00052	0.00051	0.00051	0.00051	0.00051	0.00051
PLB	0.00092	0.00086	0.00079	0.00070	0.00059	0.00050	0.00042	0.00035	0.00029	0.00027	0.00025	0.00024	0.00024	0.00024	0.00024	0.00024
LGV>3.5t	0.00230	0.00209	0.00188	0.00163	0.00138	0.00121	0.00108	0.00093	0.00076	0.00060	0.00052	0.00046	0.00042	0.00039	0.00037	0.00037
HGV<15t	0.00499	0.00456	0.00406	0.00348	0.00286	0.00243	0.00213	0.00182	0.00147	0.00114	0.00093	0.00081	0.00073	0.00066	0.00062	0.00059
HGV>15t	0.00031	0.00027	0.00024	0.00020	0.00016	0.00014	0.00011	0.00009	0.00007	0.00006	0.00005	0.00004	0.00004	0.00003	0.00003	0.00003
FBDD	0.00056	0.00050	0.00042	0.00035	0.00030	0.00026	0.00023	0.00020	0.00018	0.00016	0.00014	0.00014	0.00013	0.00012	0.00010	0.00010
MC	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016	0.00016
Taxi	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068	0.00068
PrLB<3.5t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PrLB>3.5t	0.00070	0.00066	0.00060	0.00053	0.00047	0.00042	0.00037	0.00033	0.00029	0.00027	0.00025	0.00024	0.00023	0.00022	0.00022	0.00022
NFB<6.4t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NFB 6.4-15t	0.00289	0.00247	0.00215	0.00188	0.00153	0.00119	0.00094	0.00080	0.00069	0.00059	0.00050	0.00045	0.00043	0.00042	0.00041	0.00040
NFB>15t	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FBSD	0.00007	0.00007	0.00006	0.00005	0.00005	0.00005	0.00004	0.00004	0.00002	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
Total Emissions	0.01534	0.01393	0.01251	0.01094	0.00931	0.00809	0.00714	0.00633	0.00551	0.00478	0.00432	0.00404	0.00387	0.00373	0.00364	0.00360

### Appendix 3.7 Summary Results of Comparing the Total Emission from Year 2009 to 2024

Notes:

1. PC&LGV – Petrol Private Cars & Light Goods Vehicles
2. PC&LGV <2.5t – Diesel Private Cars & Light Goods Vehicles <2.5t
3. LGV2.5-3.5t – Diesel Private Cars & Light Goods Vehicles 2.5-3.5t
4. PLB – Public Light Buses
5. LGV>3.5t – Light Goods Vehicles >3.5t
6. HGV<15t – Medium & Heavy Goods Vehicles with GVW 5.5-15t
7. HGV>15t – Medium & Heavy Goods Vehicles with GVW >=15t
8. FBDD – Double Deck Franchised Buses
9. MC – Motor Cycles
10. Taxi – Taxi (LPG)
11. PrLB<3.5t – Private Light Buses <3.5t
12. PrLB>3.5t – Private Light Buses >3.5t
13. NFB<6.4t – Non-franchised Buses <6.4t
14. NFB6.4-15t – Non-franchised Buses 6.4-15t
15. NFB>15t – Non-franchised Buses >15t
16. FBSD – Single Deck Franchised Buses