Annex D6

# Hourly Emission Factors for All Vehicle Classes on Road Links of Different Road Speeds

## Annex D6 - Hourly Emission Factors for All Vehicle Classes on Road Links of Different Road Speeds

| Vehicular Emission Factors in 2011 (NOx @ 80kph) | | PC&LGV-TOT | PC&LGV<2.5t-TOT | LGV2.5-3.5t-TOT | PLB-TOT | LGV>3.5t-TOT | HGV<15t-TOT | HGV>15t-TOT | FBDD-TOT | MC-TOT | taxi-TOT | PrLB<3.5t-TOT | PrLB>3.5t-TOT | NFB<6.4t-TOT | NFB6.4-15t-TOT | NFB>15t-TOT | FBSD-TOT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VKT/1000 (km-vehicle) (1000X) | 1567.0000 | 39.0000 | 193.0000 | 113.0000 | 155.0000 | 1448.0000 | 126.0000 | 311.0000 | 28.0000 | 140.0000 | 0.0000 | 0.0000 | 0.0000 | 36.0000 | 0.0000 | 16.0000 |
| | Total Ex (ton/hr) (1000X) | 0.1750 | 0.0190 | 0.0550 | 0.0230 | 0.3500 | 6.0000 | 0.6550 | 0.9150 | 0.0200 | 0.0190 | 0.0000 | 0.0000 | 0.0000 | 0.1290 | 0.0000 | 0.0480 |
| 0 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1797 | 0.7839 | 0.4585 | 0.3275 | 3.6332 | 6.6671 | 8.3642 | 4.7339 | 1.1493 | 0.2184 | 0.0000 | 0.0000 | 0.0000 | 5.7656 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 1200.0000 | 30.0000 | 148.0000 | 87.0000 | 119.0000 | 1108.0000 | 97.0000 | 238.0000 | 22.0000 | 107.0000 | 0.0000 | 0.0000 | 0.0000 | 28.0000 | 0.0000 | 13.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.1340 | 0.0150 | 0.0420 | 0.0170 | 0.2680 | 4.5990 | 0.5020 | 0.7020 | 0.0150 | 0.0150 | 0.0000 | 0.0000 | 0.0000 | 0.0990 | 0.0000 | 0.0370 |
| 1 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1797 | 0.8045 | 0.4566 | 0.3144 | 3.6236 | 6.6785 | 8.3270 | 4.7459 | 1.0970 | 0.2256 | 0.0000 | 0.0000 | 0.0000 | 5.6890 | 0.0000 | 4.5795 |
| | VKT/1000 (km-vehicle) (1000X) | 824.0000 | 21.0000 | 102.0000 | 60.0000 | 81.0000 | 762.0000 | 66.0000 | 163.0000 | 15.0000 | 73.0000 | 0.0000 | 0.0000 | 0.0000 | 19.0000 | 0.0000 | 9.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0930 | 0.0100 | 0.0290 | 0.0120 | 0.1850 | 3.1650 | 0.3450 | 0.4830 | 0.0110 | 0.0100 | 0.0000 | 0.0000 | 0.0000 | 0.0680 | 0.0000 | 0.0250 |
| 2 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1816 | 0.7662 | 0.4575 | 0.3218 | 3.6749 | 6.6831 | 8.4107 | 4.7678 | 1.1799 | 0.2204 | 0.0000 | 0.0000 | 0.0000 | 5.7585 | 0.0000 | 4.4694 |
| | VKT/1000 (km-vehicle) (1000X) | 678.0000 | 17.0000 | 83.0000 | 49.0000 | 67.0000 | 626.0000 | 55.0000 | 134.0000 | 12.0000 | 60.0000 | 0.0000 | 0.0000 | 0.0000 | 16.0000 | 0.0000 | 7.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0760 | 0.0080 | 0.0240 | 0.0100 | 0.1520 | 2.6060 | 0.2840 | 0.3980 | 0.0090 | 0.0080 | 0.0000 | 0.0000 | 0.0000 | 0.0560 | 0.0000 | 0.0210 |
| 3 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1804 | 0.7572 | 0.4653 | 0.3284 | 3.6503 | 6.6982 | 8.3083 | 4.7790 | 1.2068 | 0.2145 | 0.0000 | 0.0000 | 0.0000 | 5.6315 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 678.0000 | 17.0000 | 83.0000 | 49.0000 | 67.0000 | 626.0000 | 55.0000 | 134.0000 | 12.0000 | 60.0000 | 0.0000 | 0.0000 | 0.0000 | 16.0000 | 0.0000 | 7.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0770 | 0.0080 | 0.0240 | 0.0100 | 0.1520 | 2.6120 | 0.2850 | 0.3990 | 0.0090 | 0.0080 | 0.0000 | 0.0000 | 0.0000 | 0.0560 | 0.0000 | 0.0210 |
| 4 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1827 | 0.7572 | 0.4653 | 0.3284 | 3.6503 | 6.7136 | 8.3375 | 4.7910 | 1.2068 | 0.2145 | 0.0000 | 0.0000 | 0.0000 | 5.6315 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 898.0000 | 23.0000 | 111.0000 | 65.0000 | 89.0000 | 829.0000 | 72.0000 | 178.0000 | 16.0000 | 80.0000 | 0.0000 | 0.0000 | 0.0000 | 21.0000 | 0.0000 | 9.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.1020 | 0.0110 | 0.0320 | 0.0130 | 0.2020 | 3.4680 | 0.3790 | 0.5290 | 0.0120 | 0.0110 | 0.0000 | 0.0000 | 0.0000 | 0.0750 | 0.0000 | 0.0280 |
| 5 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1828 | 0.7695 | 0.4639 | 0.3218 | 3.6519 | 6.7310 | 8.4696 | 4.7818 | 1.2068 | 0.2212 | 0.0000 | 0.0000 | 0.0000 | 5.7464 | 0.0000 | 5.0058 |
| | VKT/1000 (km-vehicle) (1000X) | 179.0000 | 45.0000 | 220.0000 | 129.0000 | 177.0000 | 1651.0000 | 144.0000 | 354.0000 | 32.0000 | 159.0000 | 0.0000 | 0.0000 | 0.0000 | 41.0000 | 0.0000 | 19.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0200 | 0.0220 | 0.0640 | 0.0260 | 0.4030 | 6.9010 | 0.7530 | 1.0530 | 0.0230 | 0.0220 | 0.0000 | 0.0000 | 0.0000 | 0.1490 | 0.0000 | 0.0550 |
| 6 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1798 | 0.7866 | 0.4681 | 0.3243 | 3.6634 | 6.7254 | 8.4137 | 4.7861 | 1.1565 | 0.2226 | 0.0000 | 0.0000 | 0.0000 | 5.8473 | 0.0000 | 4.6576 |
| | VKT/1000 (km-vehicle) (1000X) | 4090.0000 | 103.0000 | 504.0000 | 296.0000 | 404.0000 | 3778.0000 | 329.0000 | 810.0000 | 74.0000 | 364.0000 | 0.0000 | 126.0000 | 0.0000 | 94.0000 | 0.0000 | 43.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.4660 | 0.0500 | 0.1450 | 0.0590 | 0.9210 | 15.7810 | 1.7230 | 2.4080 | 0.0530 | 0.0510 | 0.0000 | 0.0000 | 0.0000 | 0.3400 | 0.0000 | 0.1250 |
| 7 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1833 | 0.7811 | 0.4629 | 0.3207 | 3.6680 | 6.7209 | 8.4265 | 4.7833 | 1.1524 | 0.2254 | 0.0000 | 0.0000 | 0.0000 | 5.8198 | 0.0000 | 4.6773 |
| | VKT/1000 (km-vehicle) (1000X) | 5053.0000 | 127.0000 | 623.0000 | 365.0000 | 499.0000 | 4667.0000 | 407.0000 | 1001.0000 | 92.0000 | 450.0000 | 0.0000 | 155.0000 | 0.0000 | 116.0000 | 0.0000 | 53.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5750 | 0.0630 | 0.1800 | 0.0740 | 1.1400 | 19.5380 | 2.1330 | 2.9810 | 0.0660 | 0.0630 | 0.0000 | 0.0610 | 0.0000 | 0.4210 | 0.0000 | 0.1550 |
| 8 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1831 | 0.7982 | 0.4649 | 0.3262 | 3.6759 | 6.7359 | 8.4324 | 4.7916 | 1.1543 | 0.2253 | 0.0000 | 0.6332 | 0.0000 | 5.8396 | 0.0000 | 4.7056 |
| | VKT/1000 (km-vehicle) (1000X) | 4979.0000 | 125.0000 | 614.0000 | 360.0000 | 492.0000 | 4599.0000 | 401.0000 | 987.0000 | 90.0000 | 443.0000 | 0.0000 | 153.0000 | 0.0000 | 115.0000 | 0.0000 | 52.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.5670 | 0.0620 | 0.1780 | 0.0730 | 1.1250 | 19.2840 | 2.1050 | 2.9420 | 0.0640 | 0.0620 | 0.0000 | 0.0600 | 0.0000 | 0.4150 | 0.0000 | 0.1530 |
| 9 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1832 | 0.7981 | 0.4665 | 0.3263 | 3.6791 | 6.7467 | 8.4462 | 4.7960 | 1.1442 | 0.2252 | 0.0000 | 0.6310 | 0.0000 | 5.8064 | 0.0000 | 4.7342 |
| | VKT/1000 (km-vehicle) (1000X) | 4686.0000 | 117.0000 | 577.0000 | 339.0000 | 463.0000 | 4328.0000 | 377.0000 | 928.0000 | 85.0000 | 417.0000 | 0.0000 | 144.0000 | 0.0000 | 108.0000 | 0.0000 | 49.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5340 | 0.0580 | 0.1670 | 0.0680 | 1.0590 | 18.1500 | 1.9810 | 2.7690 | 0.0600 | 0.0580 | 0.0000 | 0.0570 | 0.0000 | 0.3910 | 0.0000 | 0.1440 |
| 10 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1834 | 0.7976 | 0.4657 | 0.3227 | 3.6802 | 6.7475 | 8.4547 | 4.8010 | 1.1358 | 0.2238 | 0.0000 | 0.6369 | 0.0000 | 5.8252 | 0.0000 | 4.7285 |
| | VKT/1000 (km-vehicle) (1000X) | 4686.0000 | 117.0000 | 577.0000 | 339.0000 | 463.0000 | 4328.0000 | 377.0000 | 928.0000 | 85.0000 | 417.0000 | 0.0000 | 144.0000 | 0.0000 | 108.0000 | 0.0000 | 49.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.5350 | 0.0580 | 0.1670 | 0.0680 | 1.0600 | 18.1580 | 1.9820 | 2.7710 | 0.0600 | 0.0580 | 0.0000 | 0.0570 | 0.0000 | 0.3910 | 0.0000 | 0.1440 |
| 11 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1837 | 0.7976 | 0.4657 | 0.3227 | 3.6837 | 6.7505 | 8.4590 | 4.8045 | 1.1358 | 0.2238 | 0.0000 | 0.6369 | 0.0000 | 5.8252 | 0.0000 | 4.7285 |
| | VKT/1000 (km-vehicle) (1000X) | 4492.0000 | 120.0000 | 598.0000 | 259.0000 | 480.0000 | 3210.0000 | 280.0000 | 743.0000 | 101.0000 | 421.0000 | 0.0000 | 113.0000 | 0.0000 | 86.0000 | 0.0000 | 37.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5120 | 0.0590 | 0.1730 | 0.0520 | 1.0960 | 13.4430 | 1.4690 | 2.2120 | 0.0710 | 0.0590 | 0.0000 | 0.0450 | 0.0000 | 0.3120 | 0.0000 | 0.1100 |
| 12 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1834 | 0.7911 | 0.4655 | 0.3230 | 3.6739 | 6.7383 | 8.4415 | 4.7902 | 1.1311 | 0.2255 | 0.0000 | 0.6408 | 0.0000 | 5.8373 | 0.0000 | 4.7835 |
| | VKT/1000 (km-vehicle) (1000X) | 4631.0000 | 124.0000 | 616.0000 | 267.0000 | 495.0000 | 3309.0000 | 289.0000 | 766.0000 | 104.0000 | 434.0000 | 0.0000 | 117.0000 | 0.0000 | 89.0000 | 0.0000 | 38.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.5270 | 0.0610 | 0.1780 | 0.0540 | 1.1290 | 13.8410 | 1.5120 | 2.2770 | 0.0730 | 0.0600 | 0.0000 | 0.0460 | 0.0000 | 0.3210 | 0.0000 | 0.1130 |
| 13 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1831 | 0.7915 | 0.4649 | 0.3254 | 3.6698 | 6.7302 | 8.4180 | 4.7829 | 1.1294 | 0.2224 | 0.0000 | 0.6326 | 0.0000 | 5.8032 | 0.0000 | 4.7847 |
| | VKT/1000 (km-vehicle) (1000X) | 4662.0000 | 125.0000 | 620.0000 | 268.0000 | 498.0000 | 3331.0000 | 291.0000 | 771.0000 | 105.0000 | 437.0000 | 0.0000 | 117.0000 | 0.0000 | 89.0000 | 0.0000 | 39.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5280 | 0.0620 | 0.1790 | 0.0540 | 1.1340 | 13.9120 | 1.5200 | 2.2890 | 0.0730 | 0.0610 | 0.0000 | 0.0460 | 0.0000 | 0.3230 | 0.0000 | 0.1140 |
| 14 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1822 | 0.7981 | 0.4645 | 0.3242 | 3.6639 | 6.7200 | 8.4044 | 4.7769 | 1.1186 | 0.2246 | 0.0000 | 0.6326 | 0.0000 | 5.8394 | 0.0000 | 4.7032 |
| | VKT/1000 (km-vehicle) (1000X) | 4631.0000 | 124.0000 | 616.0000 | 267.0000 | 495.0000 | 3309.0000 | 289.0000 | 766.0000 | 104.0000 | 434.0000 | 0.0000 | 117.0000 | 0.0000 | 89.0000 | 0.0000 | 38.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.5220 | 0.0610 | 0.1770 | 0.0530 | 1.1240 | 13.7860 | 1.5060 | 2.2680 | 0.0730 | 0.0600 | 0.0000 | 0.0460 | 0.0000 | 0.3200 | 0.0000 | 0.1130 |
| 15 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1814 | 0.7915 | 0.4623 | 0.3194 | 3.6536 | 6.7034 | 8.3846 | 4.7640 | 1.1294 | 0.2224 | 0.0000 | 0.6326 | 0.0000 | 5.7852 | 0.0000 | 4.7847 |
| | VKT/1000 (km-vehicle) (1000X) | 4700.0000 | 126.0000 | 625.0000 | 271.0000 | 502.0000 | 3359.0000 | 293.0000 | 777.0000 | 106.0000 | 440.0000 | 0.0000 | 118.0000 | 0.0000 | 90.0000 | 0.0000 | 39.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5280 | 0.0620 | 0.1800 | 0.0540 | 1.1400 | 13.9840 | 1.5280 | 2.3010 | 0.0740 | 0.0610 | 0.0000 | 0.0460 | 0.0000 | 0.3240 | 0.0000 | 0.1140 |
| 16 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1808 | 0.7917 | 0.4634 | 0.3206 | 3.6539 | 6.6985 | 8.3910 | 4.7649 | 1.1233 | 0.2231 | 0.0000 | 0.6272 | 0.0000 | 5.7924 | 0.0000 | 4.7032 |
| | VKT/1000 (km-vehicle) (1000X) | 4908.0000 | 132.0000 | 653.0000 | 283.0000 | 524.0000 | 3507.0000 | 306.0000 | 811.0000 | 111.0000 | 460.0000 | 0.0000 | 124.0000 | 0.0000 | 94.0000 | 0.0000 | 41.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.5470 | 0.0640 | 0.1870 | 0.0560 | 1.1870 | 14.5570 | 1.5910 | 2.3950 | 0.0770 | 0.0630 | 0.0000 | 0.0480 | 0.0000 | 0.3370 | 0.0000 | 0.1190 |
| 17 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1793 | 0.7801 | 0.4608 | 0.3184 | 3.6448 | 6.6787 | 8.3657 | 4.7516 | 1.1162 | 0.2204 | 0.0000 | 0.6228 | 0.0000 | 5.7684 | 0.0000 | 4.6700 |
| | VKT/1000 (km-vehicle) (1000X) | 5194.0000 | 139.0000 | 691.0000 | 299.0000 | 555.0000 | 3711.0000 | 324.0000 | 859.0000 | 117.0000 | 487.0000 | 0.0000 | 131.0000 | 0.0000 | 100.0000 | 0.0000 | 43.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5760 | 0.0680 | 0.1980 | 0.0600 | 1.2530 | 15.3700 | 1.6790 | 2.5290 | 0.0820 | 0.0660 | 0.0000 | 0.0530 | 0.0000 | 0.3560 | 0.0000 | 0.1260 |
| 18 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1784 | 0.7871 | 0.4610 | 0.3229 | 3.6326 | 6.6641 | 8.3380 | 4.7371 | 1.1277 | 0.2181 | 0.0000 | 0.6510 | 0.0000 | 5.7280 | 0.0000 | 4.7147 |
| | VKT/1000 (km-vehicle) (1000X) | 4284.0000 | 115.0000 | 570.0000 | 247.0000 | 458.0000 | 3061.0000 | 267.0000 | 708.0000 | 97.0000 | 401.0000 | 0.0000 | 0.0000 | 0.0000 | 82.0000 | 0.0000 | 36.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.4740 | 0.0560 | 0.1630 | 0.0490 | 1.0320 | 12.6620 | 1.3830 | 2.0830 | 0.0680 | 0.0540 | 0.0000 | 0.0000 | 0.0000 | 0.2940 | 0.0000 | 0.1030 |
| 19 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1780 | 0.7835 | 0.4601 | 0.3192 | 3.6255 | 6.6557 | 8.3343 | 4.7338 | 1.1280 | 0.2167 | 0.0000 | 0.0000 | 0.0000 | 5.7689 | 0.0000 | 4.6035 |
| | VKT/1000 (km-vehicle) (1000X) | 3298.0000 | 88.0000 | 439.0000 | 190.0000 | 352.0000 | 2357.0000 | 206.0000 | 545.0000 | 74.0000 | 309.0000 | 0.0000 | 0.0000 | 0.0000 | 63.0000 | 0.0000 | 27.0000 |
| | Total Ex (ton/hr) (1000X) | 0.3660 | 0.0430 | 0.1250 | 0.0380 | 0.7950 | 9.7500 | 1.0650 | 1.6040 | 0.0520 | 0.0420 | 0.0000 | 0.0000 | 0.0000 | 0.2260 | 0.0000 | 0.0800 |
| 20 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1786 | 0.7862 | 0.4581 | 0.3218 | 3.6340 | 6.6558 | 8.3184 | 4.7355 | 1.1306 | 0.2187 | 0.0000 | 0.0000 | 0.0000 | 5.7720 | 0.0000 | 4.7674 |
| | VKT/1000 (km-vehicle) (1000X) | 2666.0000 | 71.0000 | 355.0000 | 153.0000 | 285.0000 | 1905.0000 | 166.0000 | 441.0000 | 60.0000 | 250.0000 | 0.0000 | 0.0000 | 0.0000 | 51.0000 | 0.0000 | 22.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.2960 | 0.0350 | 0.1010 | 0.0310 | 0.6430 | 7.8810 | 0.8610 | 1.2970 | 0.0420 | 0.0340 | 0.0000 | 0.0000 | 0.0000 | 0.1830 | 0.0000 | 0.0640 |
| 21 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1786 | 0.7932 | 0.4578 | 0.3260 | 3.6301 | 6.6564 | 8.3455 | 4.7321 | 1.1263 | 0.2188 | 0.0000 | 0.0000 | 0.0000 | 5.7735 | 0.0000 | 4.6807 |
| | VKT/1000 (km-vehicle) (1000X) | 2250.0000 | 60.0000 | 299.0000 | 130.0000 | 240.0000 | 1608.0000 | 140.0000 | 372.0000 | 51.0000 | 211.0000 | 0.0000 | 0.0000 | 0.0000 | 43.0000 | 0.0000 | 19.0000 |
| | Total Ex (ton/hr) (1000X) | 0.2510 | 0.0290 | 0.0860 | 0.0260 | 0.5430 | 6.6570 | 0.7270 | 1.0950 | 0.0360 | 0.0290 | 0.0000 | 0.0000 | 0.0000 | 0.1540 | 0.0000 | 0.0540 |
| 22 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1795 | 0.7777 | 0.4628 | 0.3218 | 3.6404 | 6.6611 | 8.3553 | 4.7362 | 1.1358 | 0.2211 | 0.0000 | 0.0000 | 0.0000 | 5.7625 | 0.0000 | 4.5729 |
| | VKT/1000 (km-vehicle) (1000X) | 1896.0000 | 51.0000 | 252.0000 | 109.0000 | 202.0000 | 1355.0000 | 118.0000 | 313.0000 | 43.0000 | 178.0000 | 0.0000 | 0.0000 | 0.0000 | 36.0000 | 0.0000 | 16.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.2110 | 0.0250 | 0.0720 | 0.0220 | 0.4570 | 5.6100 | 0.6130 | 0.9230 | 0.0300 | 0.0240 | 0.0000 | 0.0000 | 0.0000 | 0.1300 | 0.0000 | 0.0460 |
| 23 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1791 | 0.7887 | 0.4597 | 0.3248 | 3.6402 | 6.6616 | 8.3586 | 4.7448 | 1.1226 | 0.2169 | 0.0000 | 0.0000 | 0.0000 | 5.8103 | 0.0000 | 4.6259 |
| Max Emission | | 0.1837 | 0.8045 | 0.4681 | 0.3284 | 3.6837 | 6.7505 | 8.4696 | 4.8045 | 1.2068 | 0.2256 | 0.0000 | 0.6510 | 0.0000 | 5.8473 | 0.0000 | 5.0058 |

## Annex D6 - Hourly Emission Factors for All Vehicle Classes on Road Links of Different Road Speeds

| Vehicular Emission Factors in 2011 (NOx @ 70kph) | | PC&LGV-TOT | PC&LGV<2.5t-TOT | LGV2.5-3.5t-TOT | PLB-TOT | LGV>3.5t-TOT | HGV<15t-TOT | HGV>15t-TOT | FBDD-TOT | MC-TOT | taxi-TOT | PrLB<3.5t-TOT | PrLB>3.5t-TOT | NFB<6.4t-TOT | NFB6.4-15t-TOT | NFB>15t-TOT | FBSD-TOT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VKT/1000 (km-vehicle) (1000X) | 78.0000 | 0.0000 | 1.0000 | 277.0000 | 1.0000 | 46.0000 | 4.0000 | 3.0000 | 0.0000 | 5.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0090 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.1900 | 0.0200 | 0.0080 | 0.0000 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0010 |
| 0 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1857 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 6.6459 | 8.0450 | 4.2907 | 0.0000 | 0.3218 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 60.0000 | 0.0000 | 1.0000 | 212.0000 | 1.0000 | 35.0000 | 3.0000 | 2.0000 | 0.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0070 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.1450 | 0.0160 | 0.0060 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 1 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1877 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 6.6659 | 8.5813 | 4.8270 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 41.0000 | 0.0000 | 0.0000 | 146.0000 | 0.0000 | 24.0000 | 2.0000 | 1.0000 | 0.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0050 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.1000 | 0.0110 | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1962 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 6.7042 | 8.8495 | 6.4360 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 34.0000 | 0.0000 | 0.0000 | 120.0000 | 0.0000 | 20.0000 | 2.0000 | 1.0000 | 0.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0820 | 0.0090 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 3 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1893 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 6.5969 | 7.2405 | 4.8270 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 34.0000 | 0.0000 | 0.0000 | 120.0000 | 0.0000 | 20.0000 | 2.0000 | 1.0000 | 0.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0830 | 0.0090 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 4 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1893 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 6.6774 | 7.2405 | 4.8270 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 45.0000 | 0.0000 | 0.0000 | 159.0000 | 0.0000 | 26.0000 | 2.0000 | 1.0000 | 0.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0050 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.1100 | 0.0120 | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 5 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1788 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 6.8073 | 9.6540 | 6.4360 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 89.0000 | 0.0000 | 1.0000 | 316.0000 | 1.0000 | 52.0000 | 4.0000 | 3.0000 | 0.0000 | 5.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0100 | 0.0000 | 0.0000 | 0.0010 | 0.0020 | 0.2180 | 0.0230 | 0.0090 | 0.0000 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0010 |
| 6 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1808 | 0.0000 | 0.0000 | 0.0051 | 3.2180 | 6.7454 | 9.2518 | 4.8270 | 0.0000 | 0.3218 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 205.0000 | 1.0000 | 2.0000 | 724.0000 | 2.0000 | 119.0000 | 10.0000 | 7.0000 | 0.0000 | 12.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0230 | 0.0000 | 0.0000 | 0.0010 | 0.0040 | 0.4990 | 0.0530 | 0.0200 | 0.0000 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0020 |
| 7 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1805 | 0.0000 | 0.0000 | 0.0022 | 3.2180 | 6.7470 | 8.5277 | 4.5971 | 0.0000 | 0.2682 | 0.0000 | 0.0000 | 0.0000 | 3.2180 | 0.0000 | 3.2180 |
| | VKT/1000 (km-vehicle) (1000X) | 253.0000 | 1.0000 | 2.0000 | 894.0000 | 2.0000 | 147.0000 | 13.0000 | 8.0000 | 0.0000 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0290 | 0.0000 | 0.0010 | 0.0010 | 0.0040 | 0.6170 | 0.0660 | 0.0250 | 0.0000 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0020 |
| 8 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1844 | 0.0000 | 0.8045 | 0.0018 | 3.2180 | 6.7534 | 8.1688 | 5.0281 | 0.0000 | 0.2145 | 0.0000 | 0.0000 | 0.0000 | 4.8270 | 0.0000 | 3.2180 |
| | VKT/1000 (km-vehicle) (1000X) | 249.0000 | 1.0000 | 2.0000 | 881.0000 | 2.0000 | 145.0000 | 12.0000 | 8.0000 | 0.0000 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0280 | 0.0000 | 0.0010 | 0.0010 | 0.0040 | 0.6090 | 0.0650 | 0.0250 | 0.0000 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0020 |
| 9 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1809 | 0.0000 | 0.8045 | 0.0018 | 3.2180 | 6.7578 | 8.7154 | 5.0281 | 0.0000 | 0.2145 | 0.0000 | 0.0000 | 0.0000 | 4.8270 | 0.0000 | 3.2180 |
| | VKT/1000 (km-vehicle) (1000X) | 234.0000 | 1.0000 | 2.0000 | 829.0000 | 2.0000 | 137.0000 | 12.0000 | 8.0000 | 0.0000 | 14.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0270 | 0.0000 | 0.0010 | 0.0010 | 0.0040 | 0.5730 | 0.0620 | 0.0230 | 0.0000 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0020 |
| 10 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1857 | 0.0000 | 0.8045 | 0.0019 | 3.2180 | 6.7296 | 8.3132 | 4.6259 | 0.0000 | 0.2299 | 0.0000 | 0.0000 | 0.0000 | 3.2180 | 0.0000 | 3.2180 |
| | VKT/1000 (km-vehicle) (1000X) | 234.0000 | 1.0000 | 2.0000 | 829.0000 | 2.0000 | 137.0000 | 12.0000 | 8.0000 | 0.0000 | 14.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0270 | 0.0000 | 0.0010 | 0.0010 | 0.0040 | 0.5740 | 0.0620 | 0.0230 | 0.0000 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0020 |
| 11 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1857 | 0.0000 | 0.8045 | 0.0019 | 3.2180 | 6.7414 | 8.3132 | 4.6259 | 0.0000 | 0.2299 | 0.0000 | 0.0000 | 0.0000 | 3.2180 | 0.0000 | 3.2180 |
| | VKT/1000 (km-vehicle) (1000X) | 256.0000 | 0.0000 | 0.0000 | 603.0000 | 0.0000 | 36.0000 | 3.0000 | 33.0000 | 0.0000 | 39.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0290 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.1530 | 0.0160 | 0.0990 | 0.0000 | 0.0060 | 0.0000 | 0.0000 | 0.0000 | 0.0150 | 0.0000 | 0.0050 |
| 12 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1823 | 0.0000 | 0.0000 | 0.0027 | 0.0000 | 6.8383 | 8.5813 | 4.8270 | 0.0000 | 0.2475 | 0.0000 | 0.0000 | 0.0000 | 6.0338 | 0.0000 | 4.0225 |
| | VKT/1000 (km-vehicle) (1000X) | 264.0000 | 0.0000 | 0.0000 | 621.0000 | 0.0000 | 38.0000 | 3.0000 | 34.0000 | 0.0000 | 41.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0300 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.1570 | 0.0160 | 0.1020 | 0.0000 | 0.0060 | 0.0000 | 0.0000 | 0.0000 | 0.0160 | 0.0000 | 0.0060 |
| 13 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1828 | 0.0000 | 0.0000 | 0.0026 | 0.0000 | 6.6477 | 8.5813 | 4.8270 | 0.0000 | 0.2355 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 266.0000 | 0.0000 | 0.0000 | 625.0000 | 0.0000 | 38.0000 | 3.0000 | 35.0000 | 0.0000 | 41.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0300 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.1580 | 0.0160 | 0.1030 | 0.0000 | 0.0060 | 0.0000 | 0.0000 | 0.0000 | 0.0160 | 0.0000 | 0.0060 |
| 14 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1815 | 0.0000 | 0.0000 | 0.0026 | 0.0000 | 6.6901 | 8.5813 | 4.7351 | 0.0000 | 0.2355 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 264.0000 | 0.0000 | 0.0000 | 621.0000 | 0.0000 | 38.0000 | 3.0000 | 34.0000 | 0.0000 | 41.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0300 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.1560 | 0.0160 | 0.1020 | 0.0000 | 0.0060 | 0.0000 | 0.0000 | 0.0000 | 0.0160 | 0.0000 | 0.0060 |
| 15 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1828 | 0.0000 | 0.0000 | 0.0026 | 0.0000 | 6.6054 | 8.5813 | 4.8270 | 0.0000 | 0.2355 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 268.0000 | 0.0000 | 0.0000 | 631.0000 | 0.0000 | 38.0000 | 3.0000 | 35.0000 | 0.0000 | 41.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0300 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.1590 | 0.0170 | 0.1040 | 0.0000 | 0.0060 | 0.0000 | 0.0000 | 0.0000 | 0.0160 | 0.0000 | 0.0060 |
| 16 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1801 | 0.0000 | 0.0000 | 0.0025 | 0.0000 | 6.7324 | 9.1177 | 4.7810 | 0.0000 | 0.2355 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 280.0000 | 0.0000 | 0.0000 | 658.0000 | 0.0000 | 40.0000 | 3.0000 | 36.0000 | 0.0000 | 43.0000 | 0.0000 | 0.0000 | 0.0000 | 5.0000 | 0.0000 | 2.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0310 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.1650 | 0.0170 | 0.1080 | 0.0000 | 0.0060 | 0.0000 | 0.0000 | 0.0000 | 0.0170 | 0.0000 | 0.0060 |
| 17 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1781 | 0.0000 | 0.0000 | 0.0024 | 0.0000 | 6.6371 | 9.1177 | 4.8270 | 0.0000 | 0.2245 | 0.0000 | 0.0000 | 0.0000 | 5.4706 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 296.0000 | 0.0000 | 0.0000 | 697.0000 | 0.0000 | 42.0000 | 4.0000 | 39.0000 | 0.0000 | 46.0000 | 0.0000 | 0.0000 | 0.0000 | 5.0000 | 0.0000 | 2.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0330 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.1740 | 0.0180 | 0.1140 | 0.0000 | 0.0060 | 0.0000 | 0.0000 | 0.0000 | 0.0180 | 0.0000 | 0.0060 |
| 18 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1794 | 0.0000 | 0.0000 | 0.0023 | 0.0000 | 6.6659 | 7.2405 | 4.7032 | 0.0000 | 0.2099 | 0.0000 | 0.0000 | 0.0000 | 5.7924 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 244.0000 | 0.0000 | 0.0000 | 575.0000 | 0.0000 | 35.0000 | 3.0000 | 32.0000 | 0.0000 | 38.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0270 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.1440 | 0.0150 | 0.0940 | 0.0000 | 0.0050 | 0.0000 | 0.0000 | 0.0000 | 0.0140 | 0.0000 | 0.0050 |
| 19 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1780 | 0.0000 | 0.0000 | 0.0028 | 0.0000 | 6.6199 | 8.0450 | 4.7264 | 0.0000 | 0.2117 | 0.0000 | 0.0000 | 0.0000 | 5.6315 | 0.0000 | 4.0225 |
| | VKT/1000 (km-vehicle) (1000X) | 188.0000 | 0.0000 | 0.0000 | 442.0000 | 0.0000 | 27.0000 | 2.0000 | 25.0000 | 0.0000 | 29.0000 | 0.0000 | 0.0000 | 0.0000 | 3.0000 | 0.0000 | 1.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0210 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.1110 | 0.0120 | 0.0720 | 0.0000 | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0110 | 0.0000 | 0.0040 |
| 20 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1797 | 0.0000 | 0.0000 | 0.0036 | 0.0000 | 6.6148 | 9.6540 | 4.6339 | 0.0000 | 0.2219 | 0.0000 | 0.0000 | 0.0000 | 5.8997 | 0.0000 | 6.4360 |
| | VKT/1000 (km-vehicle) (1000X) | 152.0000 | 0.0000 | 0.0000 | 358.0000 | 0.0000 | 22.0000 | 2.0000 | 20.0000 | 0.0000 | 23.0000 | 0.0000 | 0.0000 | 0.0000 | 3.0000 | 0.0000 | 1.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0170 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0890 | 0.0090 | 0.0580 | 0.0000 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0090 | 0.0000 | 0.0030 |
| 21 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1800 | 0.0000 | 0.0000 | 0.0045 | 0.0000 | 6.5091 | 7.2405 | 4.6661 | 0.0000 | 0.2099 | 0.0000 | 0.0000 | 0.0000 | 4.8270 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 128.0000 | 0.0000 | 0.0000 | 302.0000 | 0.0000 | 18.0000 | 2.0000 | 17.0000 | 0.0000 | 20.0000 | 0.0000 | 0.0000 | 0.0000 | 2.0000 | 0.0000 | 1.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0140 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0760 | 0.0080 | 0.0490 | 0.0000 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0080 | 0.0000 | 0.0030 |
| 22 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1760 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 6.7936 | 6.4360 | 4.6377 | 0.0000 | 0.2414 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 4.8270 |
| | VKT/1000 (km-vehicle) (1000X) | 108.0000 | 0.0000 | 0.0000 | 254.0000 | 0.0000 | 15.0000 | 1.0000 | 14.0000 | 0.0000 | 17.0000 | 0.0000 | 0.0000 | 0.0000 | 2.0000 | 0.0000 | 1.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0120 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0640 | 0.0070 | 0.0420 | 0.0000 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 23 hr result | Total Ex/VMT (g/mile-vehicle) | 0.1788 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 6.8651 | 11.2630 | 4.8270 | 0.0000 | 0.1893 | 0.0000 | 0.0000 | 0.0000 | 4.8270 | 0.0000 | 3.2180 |
| Max Emission | | 0.1962 | 0.0000 | 0.8045 | 0.0051 | 3.2180 | 6.8651 | 11.2630 | 6.4360 | 0.0000 | 0.3218 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 6.4360 |

## Annex D6 - Hourly Emission Factors for All Vehicle Classes on Road Links of Different Road Speeds

| Vehicular Emission Factors in 2011 (NOx @ 50kph) | | PC&LGV-TOT | PC&LGV<2.5t-TOT | LGV2.5-3.5t-TOT | PLB-TOT | LGV>3.5t-TOT | HGV<15t-TOT | HGV>15t-TOT | FBDD-TOT | MC-TOT | taxi-TOT | PrLB<3.5t-TOT | PrLB>3.5t-TOT | NFB<6.4t-TOT | NFB6.4-15t-TOT | NFB>15t-TOT | FBSD-TOT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VKT/1000 (km-vehicle) (1000X) | 1124.0000 | 35.0000 | 173.0000 | 142.0000 | 139.0000 | 392.0000 | 34.0000 | 172.0000 | 31.0000 | 269.0000 | 0.0000 | 0.0000 | 0.0000 | 20.0000 | 0.0000 | 9.0000 |
| | Total Ex (ton/hr) (1000X) | 0.1620 | 0.0180 | 0.0520 | 0.0300 | 0.3320 | 1.8590 | 0.2010 | 0.6270 | 0.0180 | 0.0500 | 0.0000 | 0.0000 | 0.0000 | 0.0830 | 0.0000 | 0.0320 |
| 0 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2319 | 0.8275 | 0.4836 | 0.3399 | 3.8431 | 7.6304 | 9.5120 | 5.8654 | 0.9343 | 0.2991 | 0.0000 | 0.0000 | 0.0000 | 6.6774 | 0.0000 | 5.7209 |
| | VKT/1000 (km-vehicle) (1000X) | 861.0000 | 27.0000 | 132.0000 | 109.0000 | 106.0000 | 300.0000 | 26.0000 | 131.0000 | 24.0000 | 206.0000 | 0.0000 | 0.0000 | 0.0000 | 15.0000 | 0.0000 | 7.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.1240 | 0.0140 | 0.0400 | 0.0230 | 0.2550 | 1.4250 | 0.1540 | 0.4810 | 0.0140 | 0.0390 | 0.0000 | 0.0000 | 0.0000 | 0.0630 | 0.0000 | 0.0250 |
| 1 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2317 | 0.8343 | 0.4876 | 0.3395 | 3.8707 | 7.6428 | 9.5302 | 5.9079 | 0.9386 | 0.3046 | 0.0000 | 0.0000 | 0.0000 | 6.7578 | 0.0000 | 5.7464 |
| | VKT/1000 (km-vehicle) (1000X) | 591.0000 | 18.0000 | 91.0000 | 75.0000 | 73.0000 | 20.0000 | 18.0000 | 90.0000 | 16.0000 | 141.0000 | 0.0000 | 0.0000 | 0.0000 | 11.0000 | 0.0000 | 5.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0860 | 0.0100 | 0.0280 | 0.0160 | 0.1750 | 0.0930 | 0.1060 | 0.3310 | 0.0100 | 0.0270 | 0.0000 | 0.0000 | 0.0000 | 0.0440 | 0.0000 | 0.0170 |
| 2 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2341 | 0.8939 | 0.4951 | 0.3433 | 3.8572 | 7.4819 | 9.4752 | 5.9175 | 1.0056 | 0.3081 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 5.4706 |
| | VKT/1000 (km-vehicle) (1000X) | 486.0000 | 15.0000 | 75.0000 | 61.0000 | 60.0000 | 169.0000 | 15.0000 | 74.0000 | 13.0000 | 116.0000 | 0.0000 | 0.0000 | 0.0000 | 9.0000 | 0.0000 | 4.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0710 | 0.0080 | 0.0230 | 0.0130 | 0.1440 | 0.8080 | 0.0880 | 0.2720 | 0.0080 | 0.0220 | 0.0000 | 0.0000 | 0.0000 | 0.0360 | 0.0000 | 0.0140 |
| 3 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2351 | 0.8581 | 0.4934 | 0.3429 | 3.8616 | 7.6927 | 9.4395 | 5.9142 | 0.9902 | 0.3052 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 5.6315 |
| | VKT/1000 (km-vehicle) (1000X) | 486.0000 | 15.0000 | 75.0000 | 61.0000 | 60.0000 | 169.0000 | 15.0000 | 74.0000 | 13.0000 | 116.0000 | 0.0000 | 0.0000 | 0.0000 | 9.0000 | 0.0000 | 4.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0710 | 0.0080 | 0.0230 | 0.0130 | 0.1450 | 0.8090 | 0.0880 | 0.2730 | 0.0080 | 0.0220 | 0.0000 | 0.0000 | 0.0000 | 0.0360 | 0.0000 | 0.0140 |
| 4 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2351 | 0.8581 | 0.4934 | 0.3429 | 3.8884 | 7.7023 | 9.4395 | 5.9359 | 0.9902 | 0.3052 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 5.6315 |
| | VKT/1000 (km-vehicle) (1000X) | 644.0000 | 20.0000 | 99.0000 | 81.0000 | 80.0000 | 225.0000 | 19.0000 | 98.0000 | 18.0000 | 154.0000 | 0.0000 | 0.0000 | 0.0000 | 12.0000 | 0.0000 | 5.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0940 | 0.0100 | 0.0300 | 0.0170 | 0.1920 | 1.0740 | 0.1160 | 0.3620 | 0.0110 | 0.0290 | 0.0000 | 0.0000 | 0.0000 | 0.0480 | 0.0000 | 0.0180 |
| 5 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2349 | 0.8045 | 0.4876 | 0.3377 | 3.8616 | 7.6803 | 9.8234 | 5.9434 | 0.9833 | 0.3030 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 5.7924 |
| | VKT/1000 (km-vehicle) (1000X) | 1282.0000 | 40.0000 | 197.0000 | 162.0000 | 158.0000 | 447.0000 | 39.0000 | 196.0000 | 36.0000 | 306.0000 | 0.0000 | 0.0000 | 0.0000 | 23.0000 | 0.0000 | 10.0000 |
| | Total Ex (ton/hr) (1000X) | 0.1890 | 0.0210 | 0.0600 | 0.0340 | 0.3820 | 2.1380 | 0.2320 | 0.7210 | 0.0210 | 0.0590 | 0.0000 | 0.0000 | 0.0000 | 0.0950 | 0.0000 | 0.0370 |
| 6 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2372 | 0.8447 | 0.4901 | 0.3377 | 3.8901 | 7.6958 | 9.5715 | 5.9188 | 0.9386 | 0.3102 | 0.0000 | 0.0000 | 0.0000 | 6.6459 | 0.0000 | 5.9533 |
| | VKT/1000 (km-vehicle) (1000X) | 2934.0000 | 91.0000 | 451.0000 | 370.0000 | 363.0000 | 1023.0000 | 89.0000 | 448.0000 | 81.0000 | 701.0000 | 0.0000 | 159.0000 | 0.0000 | 53.0000 | 0.0000 | 23.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.4300 | 0.0480 | 0.1380 | 0.0780 | 0.8730 | 4.8890 | 0.5300 | 1.6490 | 0.0480 | 0.1340 | 0.0000 | 0.0660 | 0.0000 | 0.2170 | 0.0000 | 0.0840 |
| 7 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2358 | 0.8487 | 0.4923 | 0.3392 | 3.8696 | 7.6895 | 9.5817 | 5.9224 | 0.9535 | 0.3076 | 0.0000 | 0.6679 | 0.0000 | 6.5878 | 0.0000 | 5.8763 |
| | VKT/1000 (km-vehicle) (1000X) | 3625.0000 | 113.0000 | 557.0000 | 458.0000 | 448.0000 | 1263.0000 | 109.0000 | 553.0000 | 84.0000 | 866.0000 | 0.0000 | 196.0000 | 0.0000 | 65.0000 | 0.0000 | 29.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5310 | 0.0590 | 0.1700 | 0.0970 | 1.0810 | 6.0540 | 0.6560 | 2.0420 | 0.0490 | 0.1650 | 0.0000 | 0.0820 | 0.0000 | 0.2690 | 0.0000 | 0.1040 |
| 8 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2357 | 0.8401 | 0.4911 | 0.3408 | 3.8824 | 7.7125 | 9.6835 | 5.9414 | 0.9386 | 0.3066 | 0.0000 | 0.6732 | 0.0000 | 6.6588 | 0.0000 | 5.7702 |
| | VKT/1000 (km-vehicle) (1000X) | 3572.0000 | 111.0000 | 1032.0000 | 451.0000 | 441.0000 | 1245.0000 | 108.0000 | 545.0000 | 99.0000 | 854.0000 | 0.0000 | 193.0000 | 0.0000 | 64.0000 | 0.0000 | 28.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.5230 | 0.0580 | 0.3160 | 0.0960 | 1.0670 | 5.9750 | 0.6480 | 2.0150 | 0.0570 | 0.1630 | 0.0000 | 0.0810 | 0.0000 | 0.2660 | 0.0000 | 0.1030 |
| 9 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2356 | 0.8407 | 0.4927 | 0.3425 | 3.8930 | 7.7219 | 9.6540 | 5.9489 | 0.9264 | 0.3071 | 0.0000 | 0.6753 | 0.0000 | 6.6874 | 0.0000 | 5.9188 |
| | VKT/1000 (km-vehicle) (1000X) | 3361.0000 | 105.0000 | 517.0000 | 424.0000 | 415.0000 | 1172.0000 | 101.0000 | 513.0000 | 93.0000 | 803.0000 | 0.0000 | 182.0000 | 0.0000 | 60.0000 | 0.0000 | 26.0000 |
| | Total Ex (ton/hr) (1000X) | 0.4930 | 0.0550 | 0.1580 | 0.0900 | 1.0040 | 5.6240 | 0.6100 | 1.8970 | 0.0540 | 0.1540 | 0.0000 | 0.0760 | 0.0000 | 0.2500 | 0.0000 | 0.0970 |
| 10 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2360 | 0.8428 | 0.4917 | 0.3415 | 3.8926 | 7.7210 | 9.7177 | 5.9498 | 0.9343 | 0.3086 | 0.0000 | 0.6719 | 0.0000 | 6.7042 | 0.0000 | 6.0028 |
| | VKT/1000 (km-vehicle) (1000X) | 3361.0000 | 105.0000 | 517.0000 | 424.0000 | 415.0000 | 1172.0000 | 101.0000 | 513.0000 | 93.0000 | 803.0000 | 0.0000 | 182.0000 | 0.0000 | 60.0000 | 0.0000 | 26.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.4940 | 0.0550 | 0.1580 | 0.0900 | 1.0050 | 5.6260 | 0.6100 | 1.8980 | 0.0530 | 0.1540 | 0.0000 | 0.0760 | 0.0000 | 0.2500 | 0.0000 | 0.0970 |
| 11 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2365 | 0.8428 | 0.4917 | 0.3415 | 3.8965 | 7.7237 | 9.7177 | 5.9530 | 0.9170 | 0.3086 | 0.0000 | 0.6719 | 0.0000 | 6.7042 | 0.0000 | 6.0028 |
| | VKT/1000 (km-vehicle) (1000X) | 3457.0000 | 93.0000 | 469.0000 | 284.0000 | 374.0000 | 989.0000 | 86.0000 | 421.0000 | 125.0000 | 498.0000 | 0.0000 | 122.0000 | 0.0000 | 49.0000 | 0.0000 | 21.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5070 | 0.0490 | 0.1430 | 0.0600 | 0.9020 | 4.7410 | 0.5140 | 1.5530 | 0.0720 | 0.0950 | 0.0000 | 0.0510 | 0.0000 | 0.2020 | 0.0000 | 0.0760 |
| 12 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2360 | 0.8478 | 0.4906 | 0.3399 | 3.8805 | 7.7131 | 9.6166 | 5.9353 | 0.9268 | 0.3069 | 0.0000 | 0.6726 | 0.0000 | 6.6330 | 0.0000 | 5.8230 |
| | VKT/1000 (km-vehicle) (1000X) | 3564.0000 | 96.0000 | 484.0000 | 293.0000 | 385.0000 | 1020.0000 | 88.0000 | 434.0000 | 129.0000 | 513.0000 | 0.0000 | 125.0000 | 0.0000 | 50.0000 | 0.0000 | 21.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.5220 | 0.0500 | 0.1480 | 0.0620 | 0.9290 | 4.8820 | 0.5290 | 1.5990 | 0.0740 | 0.0980 | 0.0000 | 0.0520 | 0.0000 | 0.2080 | 0.0000 | 0.0780 |
| 13 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2357 | 0.8380 | 0.4920 | 0.3405 | 3.8825 | 7.7011 | 9.6723 | 5.9281 | 0.9230 | 0.3074 | 0.0000 | 0.6693 | 0.0000 | 6.6934 | 0.0000 | 5.9763 |
| | VKT/1000 (km-vehicle) (1000X) | 3587.0000 | 97.0000 | 487.0000 | 295.0000 | 388.0000 | 1027.0000 | 89.0000 | 436.0000 | 130.0000 | 517.0000 | 0.0000 | 126.0000 | 0.0000 | 51.0000 | 0.0000 | 22.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5230 | 0.0500 | 0.1480 | 0.0620 | 0.9340 | 4.9070 | 0.5320 | 1.6070 | 0.0740 | 0.0980 | 0.0000 | 0.0520 | 0.0000 | 0.2090 | 0.0000 | 0.0790 |
| 14 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2346 | 0.8294 | 0.4890 | 0.3382 | 3.8732 | 7.6878 | 9.6178 | 5.9304 | 0.9159 | 0.3050 | 0.0000 | 0.6640 | 0.0000 | 6.5937 | 0.0000 | 5.7778 |
| | VKT/1000 (km-vehicle) (1000X) | 3564.0000 | 96.0000 | 484.0000 | 293.0000 | 385.0000 | 1020.0000 | 88.0000 | 434.0000 | 129.0000 | 513.0000 | 0.0000 | 125.0000 | 0.0000 | 50.0000 | 0.0000 | 21.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.5170 | 0.0500 | 0.1470 | 0.0620 | 0.9250 | 4.8620 | 0.5270 | 1.5930 | 0.0730 | 0.0970 | 0.0000 | 0.0520 | 0.0000 | 0.2070 | 0.0000 | 0.0780 |
| 15 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2334 | 0.8380 | 0.4887 | 0.3405 | 3.8658 | 7.6696 | 9.6357 | 5.9058 | 0.9105 | 0.3042 | 0.0000 | 0.6693 | 0.0000 | 6.6613 | 0.0000 | 5.9763 |
| | VKT/1000 (km-vehicle) (1000X) | 3617.0000 | 98.0000 | 491.0000 | 297.0000 | 391.0000 | 1035.0000 | 90.0000 | 440.0000 | 131.0000 | 521.0000 | 0.0000 | 127.0000 | 0.0000 | 51.0000 | 0.0000 | 22.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5230 | 0.0510 | 0.1490 | 0.0630 | 0.9390 | 4.9330 | 0.5350 | 1.6160 | 0.0740 | 0.0980 | 0.0000 | 0.0530 | 0.0000 | 0.2100 | 0.0000 | 0.0790 |
| 16 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2327 | 0.8373 | 0.4883 | 0.3413 | 3.8641 | 7.6688 | 9.5646 | 5.9094 | 0.9089 | 0.3027 | 0.0000 | 0.6715 | 0.0000 | 6.6253 | 0.0000 | 5.7778 |
| | VKT/1000 (km-vehicle) (1000X) | 3777.0000 | 102.0000 | 513.0000 | 310.0000 | 408.0000 | 1081.0000 | 94.0000 | 460.0000 | 137.0000 | 544.0000 | 0.0000 | 133.0000 | 0.0000 | 53.0000 | 0.0000 | 23.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.5420 | 0.0530 | 0.1550 | 0.0650 | 0.9770 | 5.1350 | 0.5570 | 1.6820 | 0.0780 | 0.1020 | 0.0000 | 0.0550 | 0.0000 | 0.2190 | 0.0000 | 0.0820 |
| 17 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2309 | 0.8360 | 0.4862 | 0.3374 | 3.8529 | 7.6431 | 9.5342 | 5.8833 | 0.9161 | 0.3017 | 0.0000 | 0.6654 | 0.0000 | 6.6485 | 0.0000 | 5.7364 |
| | VKT/1000 (km-vehicle) (1000X) | 3997.0000 | 108.0000 | 543.0000 | 328.0000 | 432.0000 | 1144.0000 | 99.0000 | 486.0000 | 145.0000 | 576.0000 | 0.0000 | 141.0000 | 0.0000 | 57.0000 | 0.0000 | 24.0000 |
| | Total Ex (ton/hr) (1000X) | 0.5700 | 0.0560 | 0.1640 | 0.0690 | 1.0320 | 5.4210 | 0.5880 | 1.7760 | 0.0820 | 0.1070 | 0.0000 | 0.0580 | 0.0000 | 0.2310 | 0.0000 | 0.0870 |
| 18 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2295 | 0.8343 | 0.4860 | 0.3385 | 3.8437 | 7.6245 | 9.5565 | 5.8798 | 0.9099 | 0.2989 | 0.0000 | 0.6619 | 0.0000 | 6.5207 | 0.0000 | 5.8326 |
| | VKT/1000 (km-vehicle) (1000X) | 3297.0000 | 89.0000 | 448.0000 | 271.0000 | 356.0000 | 943.0000 | 82.0000 | 401.0000 | 120.0000 | 475.0000 | 0.0000 | 0.0000 | 0.0000 | 47.0000 | 0.0000 | 20.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.4700 | 0.0460 | 0.1350 | 0.0570 | 0.8500 | 4.4660 | 0.4840 | 1.4630 | 0.0680 | 0.0880 | 0.0000 | 0.0000 | 0.0000 | 0.1910 | 0.0000 | 0.0720 |
| 19 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2294 | 0.8316 | 0.4849 | 0.3384 | 3.8417 | 7.6201 | 9.4970 | 5.8702 | 0.9118 | 0.2981 | 0.0000 | 0.0000 | 0.0000 | 6.5387 | 0.0000 | 5.7924 |
| | VKT/1000 (km-vehicle) (1000X) | 2538.0000 | 69.0000 | 345.0000 | 209.0000 | 274.0000 | 726.0000 | 63.0000 | 309.0000 | 92.0000 | 366.0000 | 0.0000 | 0.0000 | 0.0000 | 36.0000 | 0.0000 | 15.0000 |
| | Total Ex (ton/hr) (1000X) | 0.3620 | 0.0350 | 0.1040 | 0.0440 | 0.6540 | 3.4390 | 0.3730 | 1.1260 | 0.0530 | 0.0680 | 0.0000 | 0.0000 | 0.0000 | 0.1470 | 0.0000 | 0.0550 |
| 20 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2295 | 0.8162 | 0.4850 | 0.3387 | 3.8405 | 7.6217 | 9.5263 | 5.8632 | 0.9269 | 0.2989 | 0.0000 | 0.0000 | 0.0000 | 6.5701 | 0.0000 | 5.8997 |
| | VKT/1000 (km-vehicle) (1000X) | 2052.0000 | 55.0000 | 279.0000 | 169.0000 | 222.0000 | 587.0000 | 51.0000 | 250.0000 | 74.0000 | 296.0000 | 0.0000 | 0.0000 | 0.0000 | 29.0000 | 0.0000 | 12.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.2930 | 0.0290 | 0.0840 | 0.0350 | 0.5290 | 2.7800 | 0.3010 | 0.9110 | 0.0430 | 0.0550 | 0.0000 | 0.0000 | 0.0000 | 0.1190 | 0.0000 | 0.0450 |
| 21 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2297 | 0.8484 | 0.4844 | 0.3332 | 3.8341 | 7.6201 | 9.4963 | 5.8632 | 0.9350 | 0.2990 | 0.0000 | 0.0000 | 0.0000 | 6.6024 | 0.0000 | 6.0338 |
| | VKT/1000 (km-vehicle) (1000X) | 1731.0000 | 47.0000 | 235.0000 | 142.0000 | 187.0000 | 495.0000 | 43.0000 | 211.0000 | 63.0000 | 249.0000 | 0.0000 | 0.0000 | 0.0000 | 24.0000 | 0.0000 | 10.0000 |
| | Total Ex (ton/hr) (1000X) | 0.2480 | 0.0240 | 0.0710 | 0.0300 | 0.4470 | 2.3480 | 0.2550 | 0.7690 | 0.0360 | 0.0470 | 0.0000 | 0.0000 | 0.0000 | 0.1000 | 0.0000 | 0.0380 |
| 22 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2305 | 0.8216 | 0.4861 | 0.3399 | 3.8461 | 7.6322 | 9.5417 | 5.8641 | 0.9194 | 0.3037 | 0.0000 | 0.0000 | 0.0000 | 6.7042 | 0.0000 | 6.1142 |
| | VKT/1000 (km-vehicle) (1000X) | 1459.0000 | 39.0000 | 198.0000 | 120.0000 | 158.0000 | 417.0000 | 36.0000 | 177.0000 | 53.0000 | 210.0000 | 0.0000 | 0.0000 | 0.0000 | 21.0000 | 0.0000 | 9.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.2090 | 0.0200 | 0.0600 | 0.0250 | 0.3770 | 1.9790 | 0.2140 | 0.6480 | 0.0300 | 0.0390 | 0.0000 | 0.0000 | 0.0000 | 0.0840 | 0.0000 | 0.0320 |
| 23 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2305 | 0.8251 | 0.4876 | 0.3352 | 3.8392 | 7.6360 | 9.5646 | 5.8906 | 0.9108 | 0.2988 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 5.7209 |
| Max Emission | | 0.2372 | 0.8939 | 0.4951 | 0.3433 | 3.8965 | 7.7237 | 9.8234 | 5.9530 | 1.0056 | 0.3102 | 0.0000 | 0.6753 | 0.0000 | 6.7578 | 0.0000 | 6.1142 |

## Annex D6 - Hourly Emission Factors for All Vehicle Classes on Road Links of Different Road Speeds

| Vehicular Emission Factors in 2011 (NOx @ s50kph) | | PC&LGV-TOT | PC&LGV<2.5t-TOT | LGV2.5-3.5t-TOT | PLB-TOT | LGV>3.5t-TOT | HGV<15t-TOT | HGV>15t-TOT | FBDD-TOT | MC-TOT | taxi-TOT | PrLB<3.5t-TOT | PrLB>3.5t-TOT | NFB<6.4t-TOT | NFB6.4-15t-TOT | NFB>15t-TOT | FBSD-TOT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VKT/1000 (km-vehicle) (1000X) | 15.0000 | 0.0000 | 2.0000 | 0.0000 | 2.0000 | 7.0000 | 1.0000 | 3.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0030 | 0.0000 | 0.0010 | 0.0000 | 0.0070 | 0.0510 | 0.0060 | 0.0180 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0010 |
| 0 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3218 | 0.0000 | 0.8045 | 0.0000 | 5.6315 | 11.7227 | 9.6540 | 9.6540 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 12.0000 | 0.0000 | 2.0000 | 0.0000 | 1.0000 | 6.0000 | 0.0000 | 2.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0030 | 0.0000 | 0.0010 | 0.0000 | 0.0050 | 0.0390 | 0.0040 | 0.0130 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0010 |
| 1 hr result | Total Ex/VMT (g/mile-vehicle) | 0.4023 | 0.0000 | 0.8045 | 0.0000 | 8.0450 | 10.4585 | 0.0000 | 10.4585 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 8.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 4.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0020 | 0.0000 | 0.0010 | 0.0000 | 0.0040 | 0.0270 | 0.0030 | 0.0090 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 2 hr result | Total Ex/VMT (g/mile-vehicle) | 0.4023 | 0.0000 | 1.6090 | 0.0000 | 6.4360 | 10.8608 | 0.0000 | 14.4810 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 6.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 3.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0220 | 0.0020 | 0.0080 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 3 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2682 | 0.0000 | 0.0000 | 0.0000 | 4.8270 | 11.7993 | 0.0000 | 12.8720 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 6.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 3.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0220 | 0.0020 | 0.0080 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 4 hr result | Total Ex/VMT (g/mile-vehicle) | 0.2682 | 0.0000 | 0.0000 | 0.0000 | 4.8270 | 11.7993 | 0.0000 | 12.8720 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 9.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 4.0000 | 0.0000 | 2.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0020 | 0.0000 | 0.0010 | 0.0000 | 0.0040 | 0.0300 | 0.0030 | 0.0100 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 5 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3576 | 0.0000 | 1.6090 | 0.0000 | 6.4360 | 12.0675 | 0.0000 | 8.0450 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 17.0000 | 1.0000 | 3.0000 | 0.0000 | 2.0000 | 8.0000 | 1.0000 | 3.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0040 | 0.0000 | 0.0010 | 0.0000 | 0.0080 | 0.0590 | 0.0060 | 0.0200 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0010 |
| 6 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3786 | 0.0000 | 0.5363 | 0.0000 | 6.4360 | 11.8664 | 9.6540 | 10.7267 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 39.0000 | 1.0000 | 6.0000 | 0.0000 | 5.0000 | 19.0000 | 2.0000 | 7.0000 | 1.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0090 | 0.0010 | 0.0030 | 0.0000 | 0.0180 | 0.1340 | 0.0150 | 0.0460 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0050 | 0.0000 | 0.0020 |
| 7 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3713 | 1.6090 | 0.8045 | 0.0000 | 5.7924 | 11.3477 | 12.0675 | 10.5734 | 1.6090 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 8.0450 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 48.0000 | 2.0000 | 8.0000 | 1.0000 | 6.0000 | 23.0000 | 2.0000 | 9.0000 | 1.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0110 | 0.0010 | 0.0030 | 0.0000 | 0.0220 | 0.1660 | 0.0180 | 0.0570 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0030 |
| 8 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3687 | 0.8045 | 0.6034 | 0.0000 | 5.8997 | 11.6128 | 14.4810 | 10.1903 | 1.6090 | 0.4023 | 0.0000 | 0.0000 | 0.0000 | 9.6540 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 48.0000 | 2.0000 | 7.0000 | 1.0000 | 6.0000 | 23.0000 | 2.0000 | 9.0000 | 1.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0110 | 0.0010 | 0.0030 | 0.0000 | 0.0220 | 0.1640 | 0.0180 | 0.0560 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0030 |
| 9 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3687 | 0.8045 | 0.6896 | 0.0000 | 5.8997 | 11.4729 | 14.4810 | 10.0116 | 1.6090 | 0.4023 | 0.0000 | 0.0000 | 0.0000 | 9.6540 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 45.0000 | 1.0000 | 7.0000 | 0.0000 | 6.0000 | 22.0000 | 2.0000 | 8.0000 | 1.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0100 | 0.0010 | 0.0030 | 0.0000 | 0.0210 | 0.1550 | 0.0170 | 0.0530 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 10 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3576 | 1.6090 | 0.6896 | 0.0000 | 5.6315 | 11.3361 | 13.6765 | 10.6596 | 1.6090 | 0.4023 | 0.0000 | 0.0000 | 0.0000 | 9.6540 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 45.0000 | 1.0000 | 7.0000 | 0.0000 | 6.0000 | 22.0000 | 2.0000 | 8.0000 | 1.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0100 | 0.0010 | 0.0030 | 0.0000 | 0.0210 | 0.1550 | 0.0170 | 0.0530 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 11 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3576 | 1.6090 | 0.6896 | 0.0000 | 5.6315 | 11.3361 | 13.6765 | 10.6596 | 1.6090 | 0.4023 | 0.0000 | 0.0000 | 0.0000 | 9.6540 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 53.0000 | 2.0000 | 9.0000 | 1.0000 | 7.0000 | 21.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0120 | 0.0010 | 0.0040 | 0.0000 | 0.0250 | 0.1500 | 0.0160 | 0.0530 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 12 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3643 | 0.8045 | 0.7151 | 0.0000 | 5.7464 | 11.4929 | 12.8720 | 10.6596 | 0.8045 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 9.6540 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 55.0000 | 2.0000 | 9.0000 | 1.0000 | 7.0000 | 22.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0120 | 0.0010 | 0.0040 | 0.0000 | 0.0250 | 0.1540 | 0.0170 | 0.0540 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 13 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3511 | 0.8045 | 0.7151 | 0.0000 | 5.9763 | 11.2630 | 13.6765 | 10.8608 | 0.8045 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 9.6540 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 55.0000 | 2.0000 | 9.0000 | 1.0000 | 7.0000 | 22.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0120 | 0.0010 | 0.0040 | 0.0000 | 0.0260 | 0.1550 | 0.0170 | 0.0550 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 14 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3511 | 0.8045 | 0.7151 | 0.0000 | 5.9763 | 11.3361 | 13.6765 | 11.0619 | 0.8045 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 9.6540 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 55.0000 | 2.0000 | 9.0000 | 1.0000 | 7.0000 | 22.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0120 | 0.0010 | 0.0040 | 0.0000 | 0.0260 | 0.1540 | 0.0170 | 0.0540 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 15 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3511 | 0.8045 | 0.7151 | 0.0000 | 5.9763 | 11.2630 | 13.6765 | 10.8608 | 0.8045 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 9.6540 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 56.0000 | 2.0000 | 9.0000 | 1.0000 | 7.0000 | 22.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0120 | 0.0010 | 0.0040 | 0.0000 | 0.0260 | 0.1560 | 0.0170 | 0.0550 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 16 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3448 | 0.8045 | 0.7151 | 0.0000 | 5.9763 | 11.4093 | 13.6765 | 11.0619 | 0.8045 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 9.6540 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 58.0000 | 2.0000 | 9.0000 | 1.0000 | 8.0000 | 23.0000 | 2.0000 | 9.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0130 | 0.0010 | 0.0040 | 0.0000 | 0.0270 | 0.1620 | 0.0180 | 0.0570 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 17 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3606 | 0.8045 | 0.7151 | 0.0000 | 5.4304 | 11.3330 | 14.4810 | 10.1903 | 0.8045 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 9.6540 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 62.0000 | 2.0000 | 10.0000 | 1.0000 | 8.0000 | 24.0000 | 2.0000 | 9.0000 | 2.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0130 | 0.0020 | 0.0050 | 0.0000 | 0.0280 | 0.1720 | 0.0190 | 0.0600 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0070 | 0.0000 | 0.0020 |
| 18 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3374 | 1.6090 | 0.8045 | 0.0000 | 5.6315 | 11.5312 | 15.2855 | 10.7267 | 0.8045 | 0.4023 | 0.0000 | 0.0000 | 0.0000 | 11.2630 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 51.0000 | 2.0000 | 8.0000 | 1.0000 | 7.0000 | 20.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0110 | 0.0010 | 0.0040 | 0.0000 | 0.0230 | 0.1410 | 0.0150 | 0.0500 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0050 | 0.0000 | 0.0020 |
| 19 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3470 | 0.8045 | 0.8045 | 0.0000 | 5.2867 | 11.3435 | 12.0675 | 10.0563 | 0.8045 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 8.0450 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 39.0000 | 1.0000 | 6.0000 | 1.0000 | 5.0000 | 15.0000 | 1.0000 | 6.0000 | 1.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0090 | 0.0010 | 0.0030 | 0.0000 | 0.0180 | 0.1090 | 0.0120 | 0.0380 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0020 |
| 20 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3713 | 1.6090 | 0.8045 | 0.0000 | 5.7924 | 11.6921 | 19.3080 | 10.1903 | 1.6090 | 0.8045 | 0.0000 | 0.0000 | 0.0000 | 6.4360 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 32.0000 | 1.0000 | 5.0000 | 0.0000 | 4.0000 | 12.0000 | 1.0000 | 5.0000 | 1.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0070 | 0.0010 | 0.0020 | 0.0000 | 0.0150 | 0.0880 | 0.0100 | 0.0310 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0010 |
| 21 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3520 | 1.6090 | 0.6436 | 0.0000 | 6.0338 | 11.7993 | 16.0900 | 9.9758 | 1.6090 | 0.8045 | 0.0000 | 0.0000 | 0.0000 | 4.8270 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 27.0000 | 1.0000 | 4.0000 | 0.0000 | 3.0000 | 11.0000 | 1.0000 | 4.0000 | 1.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0060 | 0.0010 | 0.0020 | 0.0000 | 0.0120 | 0.0740 | 0.0080 | 0.0260 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0010 |
| 22 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3576 | 1.6090 | 0.8045 | 0.0000 | 6.4360 | 10.8242 | 12.8720 | 10.4585 | 1.6090 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 23.0000 | 1.0000 | 4.0000 | 0.0000 | 3.0000 | 9.0000 | 1.0000 | 3.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0050 | 0.0010 | 0.0020 | 0.0000 | 0.0100 | 0.0630 | 0.0070 | 0.0220 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0010 |
| 23 hr result | Total Ex/VMT (g/mile-vehicle) | 0.3498 | 1.6090 | 0.8045 | 0.0000 | 5.3633 | 11.2630 | 11.2630 | 11.7993 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Max Emission | | 0.4023 | 1.6090 | 1.6090 | 0.0000 | 8.0450 | 12.0675 | 19.3080 | 14.4810 | 1.6090 | 0.8045 | 0.0000 | 0.0000 | 0.0000 | 11.2630 | 0.0000 | 0.0000 |

## Annex D6 - Hourly Emission Factors for All Vehicle Classes on Road Links of Different Road Speeds

| Vehicular Emission Factors in 2011 (RSP @ 80kph) | | PC&LGV-TOT | PC&LGV<2.5t-TOT | LGV2.5-3.5t-TOT | PLB-TOT | LGV>3.5t-TOT | HGV<15t-TOT | HGV>15t-TOT | FBDD-TOT | MC-TOT | taxi-TOT | PrLB<3.5t-TOT | PrLB>3.5t-TOT | NFB<6.4t-TOT | NFB6.4-15t-TOT | NFB>15t-TOT | FBSD-TOT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VKT/1000 (km-vehicle) (1000X) | 1567.0000 | 39.0000 | 193.0000 | 113.0000 | 155.0000 | 1448.0000 | 126.0000 | 311.0000 | 28.0000 | 140.0000 | 0.0000 | 0.0000 | 0.0000 | 36.0000 | 0.0000 | 16.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0030 | 0.0040 | 0.0110 | 0.0120 | 0.0230 | 0.4380 | 0.0390 | 0.0290 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0080 | 0.0000 | 0.0030 |
| 0 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0031 | 0.1650 | 0.0917 | 0.1709 | 0.2388 | 0.4867 | 0.4980 | 0.1500 | 0.0575 | 0.0115 | 0.0000 | 0.0000 | 0.0000 | 0.3576 | 0.0000 | 0.3017 |
| | VKT/1000 (km-vehicle) (1000X) | 1200.0000 | 30.0000 | 148.0000 | 87.0000 | 119.0000 | 1108.0000 | 97.0000 | 238.0000 | 22.0000 | 107.0000 | 0.0000 | 0.0000 | 0.0000 | 28.0000 | 0.0000 | 13.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0030 | 0.0030 | 0.0090 | 0.0090 | 0.0180 | 0.3350 | 0.0300 | 0.0220 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 1 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0040 | 0.1609 | 0.0978 | 0.1664 | 0.2434 | 0.4865 | 0.4976 | 0.1487 | 0.0731 | 0.0150 | 0.0000 | 0.0000 | 0.0000 | 0.3448 | 0.0000 | 0.2475 |
| | VKT/1000 (km-vehicle) (1000X) | 824.0000 | 21.0000 | 102.0000 | 60.0000 | 81.0000 | 762.0000 | 66.0000 | 163.0000 | 15.0000 | 73.0000 | 0.0000 | 0.0000 | 0.0000 | 19.0000 | 0.0000 | 9.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0020 | 0.0020 | 0.0060 | 0.0060 | 0.0120 | 0.2300 | 0.0210 | 0.0150 | 0.0000 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0010 |
| 2 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0039 | 0.1532 | 0.0946 | 0.1609 | 0.2384 | 0.4857 | 0.5120 | 0.1481 | 0.0000 | 0.0220 | 0.0000 | 0.0000 | 0.0000 | 0.3387 | 0.0000 | 0.1788 |
| | VKT/1000 (km-vehicle) (1000X) | 678.0000 | 17.0000 | 83.0000 | 49.0000 | 67.0000 | 626.0000 | 55.0000 | 134.0000 | 12.0000 | 60.0000 | 0.0000 | 0.0000 | 0.0000 | 16.0000 | 0.0000 | 7.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0020 | 0.0050 | 0.0050 | 0.0100 | 0.1890 | 0.0170 | 0.0120 | 0.0000 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0010 |
| 3 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0024 | 0.1893 | 0.0969 | 0.1642 | 0.2401 | 0.4858 | 0.4973 | 0.1441 | 0.0000 | 0.0268 | 0.0000 | 0.0000 | 0.0000 | 0.3017 | 0.0000 | 0.2299 |
| | VKT/1000 (km-vehicle) (1000X) | 678.0000 | 17.0000 | 83.0000 | 49.0000 | 67.0000 | 626.0000 | 55.0000 | 134.0000 | 12.0000 | 60.0000 | 0.0000 | 0.0000 | 0.0000 | 16.0000 | 0.0000 | 7.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0020 | 0.0050 | 0.0050 | 0.0100 | 0.1890 | 0.0170 | 0.0120 | 0.0000 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0010 |
| 4 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0024 | 0.1893 | 0.0969 | 0.1642 | 0.2401 | 0.4858 | 0.4973 | 0.1441 | 0.0000 | 0.0268 | 0.0000 | 0.0000 | 0.0000 | 0.3017 | 0.0000 | 0.2299 |
| | VKT/1000 (km-vehicle) (1000X) | 898.0000 | 23.0000 | 111.0000 | 65.0000 | 89.0000 | 829.0000 | 72.0000 | 178.0000 | 16.0000 | 80.0000 | 0.0000 | 0.0000 | 0.0000 | 21.0000 | 0.0000 | 9.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0020 | 0.0020 | 0.0060 | 0.0070 | 0.0130 | 0.2510 | 0.0230 | 0.0170 | 0.0000 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0010 |
| 5 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0036 | 0.1399 | 0.0870 | 0.1733 | 0.2350 | 0.4872 | 0.5140 | 0.1537 | 0.0000 | 0.0201 | 0.0000 | 0.0000 | 0.0000 | 0.3065 | 0.0000 | 0.1788 |
| | VKT/1000 (km-vehicle) (1000X) | 179.0000 | 45.0000 | 220.0000 | 129.0000 | 177.0000 | 1651.0000 | 144.0000 | 354.0000 | 32.0000 | 159.0000 | 0.0000 | 0.0000 | 0.0000 | 41.0000 | 0.0000 | 19.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0050 | 0.0130 | 0.0140 | 0.0260 | 0.5000 | 0.0450 | 0.0330 | 0.0010 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0090 | 0.0000 | 0.0030 |
| 6 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.1788 | 0.0951 | 0.1746 | 0.2364 | 0.4873 | 0.5028 | 0.1500 | 0.0503 | 0.0202 | 0.0000 | 0.0000 | 0.0000 | 0.3532 | 0.0000 | 0.2541 |
| | VKT/1000 (km-vehicle) (1000X) | 4090.0000 | 103.0000 | 504.0000 | 296.0000 | 404.0000 | 3778.0000 | 329.0000 | 810.0000 | 74.0000 | 364.0000 | 0.0000 | 126.0000 | 0.0000 | 94.0000 | 0.0000 | 43.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0090 | 0.0110 | 0.0290 | 0.0320 | 0.0600 | 1.1430 | 0.1030 | 0.0750 | 0.0020 | 0.0030 | 0.0000 | 0.0210 | 0.0000 | 0.0200 | 0.0000 | 0.0070 |
| 7 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0035 | 0.1718 | 0.0926 | 0.1739 | 0.2390 | 0.4868 | 0.5037 | 0.1490 | 0.0435 | 0.0133 | 0.0000 | 0.2682 | 0.0000 | 0.3423 | 0.0000 | 0.2619 |
| | VKT/1000 (km-vehicle) (1000X) | 5053.0000 | 127.0000 | 623.0000 | 365.0000 | 499.0000 | 4667.0000 | 407.0000 | 1001.0000 | 92.0000 | 450.0000 | 0.0000 | 155.0000 | 0.0000 | 116.0000 | 0.0000 | 53.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0110 | 0.0130 | 0.0360 | 0.0390 | 0.0740 | 1.4120 | 0.1270 | 0.0930 | 0.0020 | 0.0040 | 0.0000 | 0.0260 | 0.0000 | 0.0250 | 0.0000 | 0.0080 |
| 8 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0035 | 0.1647 | 0.0930 | 0.1719 | 0.2386 | 0.4868 | 0.5021 | 0.1495 | 0.0350 | 0.0143 | 0.0000 | 0.2699 | 0.0000 | 0.3468 | 0.0000 | 0.2429 |
| | VKT/1000 (km-vehicle) (1000X) | 4979.0000 | 125.0000 | 614.0000 | 360.0000 | 492.0000 | 4599.0000 | 401.0000 | 987.0000 | 90.0000 | 443.0000 | 0.0000 | 153.0000 | 0.0000 | 115.0000 | 0.0000 | 52.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0110 | 0.0130 | 0.0360 | 0.0390 | 0.0730 | 1.3910 | 0.1250 | 0.0920 | 0.0020 | 0.0040 | 0.0000 | 0.0260 | 0.0000 | 0.0250 | 0.0000 | 0.0080 |
| 9 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0036 | 0.1673 | 0.0943 | 0.1743 | 0.2387 | 0.4867 | 0.5016 | 0.1500 | 0.0358 | 0.0145 | 0.0000 | 0.2734 | 0.0000 | 0.3498 | 0.0000 | 0.2475 |
| | VKT/1000 (km-vehicle) (1000X) | 4686.0000 | 117.0000 | 577.0000 | 339.0000 | 463.0000 | 4328.0000 | 377.0000 | 928.0000 | 85.0000 | 417.0000 | 0.0000 | 144.0000 | 0.0000 | 108.0000 | 0.0000 | 49.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0100 | 0.0120 | 0.0330 | 0.0370 | 0.0680 | 1.3090 | 0.1180 | 0.0860 | 0.0020 | 0.0040 | 0.0000 | 0.0240 | 0.0000 | 0.0230 | 0.0000 | 0.0080 |
| 10 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0034 | 0.1650 | 0.0920 | 0.1756 | 0.2363 | 0.4866 | 0.5036 | 0.1491 | 0.0379 | 0.0154 | 0.0000 | 0.2682 | 0.0000 | 0.3427 | 0.0000 | 0.2627 |
| | VKT/1000 (km-vehicle) (1000X) | 4686.0000 | 117.0000 | 577.0000 | 339.0000 | 463.0000 | 4328.0000 | 377.0000 | 928.0000 | 85.0000 | 417.0000 | 0.0000 | 144.0000 | 0.0000 | 108.0000 | 0.0000 | 49.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0100 | 0.0120 | 0.0330 | 0.0370 | 0.0680 | 1.3090 | 0.1180 | 0.0860 | 0.0020 | 0.0040 | 0.0000 | 0.0240 | 0.0000 | 0.0230 | 0.0000 | 0.0080 |
| 11 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0034 | 0.1650 | 0.0920 | 0.1756 | 0.2363 | 0.4866 | 0.5036 | 0.1491 | 0.0379 | 0.0154 | 0.0000 | 0.2682 | 0.0000 | 0.3427 | 0.0000 | 0.2627 |
| | VKT/1000 (km-vehicle) (1000X) | 4492.0000 | 120.0000 | 598.0000 | 259.0000 | 480.0000 | 3210.0000 | 280.0000 | 743.0000 | 101.0000 | 421.0000 | 0.0000 | 113.0000 | 0.0000 | 86.0000 | 0.0000 | 37.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0100 | 0.0130 | 0.0350 | 0.0280 | 0.0710 | 0.9710 | 0.0870 | 0.0690 | 0.0020 | 0.0040 | 0.0000 | 0.0190 | 0.0000 | 0.0190 | 0.0000 | 0.0060 |
| 12 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0036 | 0.1743 | 0.0942 | 0.1739 | 0.2380 | 0.4867 | 0.4999 | 0.1494 | 0.0319 | 0.0153 | 0.0000 | 0.2705 | 0.0000 | 0.3555 | 0.0000 | 0.2609 |
| | VKT/1000 (km-vehicle) (1000X) | 4631.0000 | 124.0000 | 616.0000 | 267.0000 | 495.0000 | 3309.0000 | 289.0000 | 766.0000 | 104.0000 | 434.0000 | 0.0000 | 117.0000 | 0.0000 | 89.0000 | 0.0000 | 38.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0100 | 0.0130 | 0.0360 | 0.0290 | 0.0730 | 1.0010 | 0.0900 | 0.0710 | 0.0030 | 0.0040 | 0.0000 | 0.0200 | 0.0000 | 0.0190 | 0.0000 | 0.0060 |
| 13 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0035 | 0.1687 | 0.0940 | 0.1748 | 0.2373 | 0.4867 | 0.5011 | 0.1491 | 0.0464 | 0.0148 | 0.0000 | 0.2750 | 0.0000 | 0.3435 | 0.0000 | 0.2541 |
| | VKT/1000 (km-vehicle) (1000X) | 4662.0000 | 125.0000 | 620.0000 | 268.0000 | 498.0000 | 3331.0000 | 291.0000 | 771.0000 | 105.0000 | 437.0000 | 0.0000 | 117.0000 | 0.0000 | 89.0000 | 0.0000 | 39.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0100 | 0.0130 | 0.0360 | 0.0290 | 0.0740 | 1.0080 | 0.0910 | 0.0720 | 0.0030 | 0.0040 | 0.0000 | 0.0200 | 0.0000 | 0.0190 | 0.0000 | 0.0060 |
| 14 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0035 | 0.1673 | 0.0934 | 0.1741 | 0.2391 | 0.4869 | 0.5032 | 0.1503 | 0.0460 | 0.0147 | 0.0000 | 0.2750 | 0.0000 | 0.3435 | 0.0000 | 0.2475 |
| | VKT/1000 (km-vehicle) (1000X) | 4631.0000 | 124.0000 | 616.0000 | 267.0000 | 495.0000 | 3309.0000 | 289.0000 | 766.0000 | 104.0000 | 434.0000 | 0.0000 | 117.0000 | 0.0000 | 89.0000 | 0.0000 | 38.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0100 | 0.0130 | 0.0360 | 0.0290 | 0.0730 | 1.0010 | 0.0900 | 0.0710 | 0.0030 | 0.0040 | 0.0000 | 0.0200 | 0.0000 | 0.0190 | 0.0000 | 0.0060 |
| 15 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0035 | 0.1687 | 0.0940 | 0.1748 | 0.2373 | 0.4867 | 0.5011 | 0.1491 | 0.0464 | 0.0148 | 0.0000 | 0.2750 | 0.0000 | 0.3435 | 0.0000 | 0.2541 |
| | VKT/1000 (km-vehicle) (1000X) | 4700.0000 | 126.0000 | 625.0000 | 271.0000 | 502.0000 | 3359.0000 | 293.0000 | 777.0000 | 106.0000 | 440.0000 | 0.0000 | 118.0000 | 0.0000 | 90.0000 | 0.0000 | 39.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0100 | 0.0130 | 0.0360 | 0.0290 | 0.0740 | 1.0160 | 0.0910 | 0.0720 | 0.0030 | 0.0040 | 0.0000 | 0.0200 | 0.0000 | 0.0200 | 0.0000 | 0.0060 |
| 16 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0034 | 0.1660 | 0.0927 | 0.1722 | 0.2372 | 0.4867 | 0.4997 | 0.1491 | 0.0455 | 0.0146 | 0.0000 | 0.2727 | 0.0000 | 0.3576 | 0.0000 | 0.2475 |
| | VKT/1000 (km-vehicle) (1000X) | 4908.0000 | 132.0000 | 653.0000 | 283.0000 | 524.0000 | 3507.0000 | 306.0000 | 811.0000 | 111.0000 | 460.0000 | 0.0000 | 124.0000 | 0.0000 | 94.0000 | 0.0000 | 41.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0110 | 0.0140 | 0.0380 | 0.0300 | 0.0770 | 1.0610 | 0.0950 | 0.0760 | 0.0030 | 0.0040 | 0.0000 | 0.0210 | 0.0000 | 0.0200 | 0.0000 | 0.0060 |
| 17 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0036 | 0.1707 | 0.0936 | 0.1706 | 0.2364 | 0.4868 | 0.4995 | 0.1508 | 0.0435 | 0.0140 | 0.0000 | 0.2725 | 0.0000 | 0.3423 | 0.0000 | 0.2355 |
| | VKT/1000 (km-vehicle) (1000X) | 5194.0000 | 139.0000 | 691.0000 | 299.0000 | 555.0000 | 3711.0000 | 324.0000 | 859.0000 | 117.0000 | 487.0000 | 0.0000 | 131.0000 | 0.0000 | 100.0000 | 0.0000 | 43.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0110 | 0.0150 | 0.0400 | 0.0320 | 0.0820 | 1.1230 | 0.1010 | 0.0800 | 0.0030 | 0.0050 | 0.0000 | 0.0230 | 0.0000 | 0.0220 | 0.0000 | 0.0070 |
| 18 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0034 | 0.1736 | 0.0931 | 0.1722 | 0.2377 | 0.4869 | 0.5016 | 0.1498 | 0.0413 | 0.0165 | 0.0000 | 0.2825 | 0.0000 | 0.3540 | 0.0000 | 0.2619 |
| | VKT/1000 (km-vehicle) (1000X) | 4284.0000 | 115.0000 | 570.0000 | 247.0000 | 458.0000 | 3061.0000 | 267.0000 | 708.0000 | 97.0000 | 401.0000 | 0.0000 | 0.0000 | 0.0000 | 82.0000 | 0.0000 | 36.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0090 | 0.0120 | 0.0330 | 0.0270 | 0.0680 | 0.9260 | 0.0830 | 0.0660 | 0.0020 | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0180 | 0.0000 | 0.0060 |
| 19 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0034 | 0.1679 | 0.0932 | 0.1759 | 0.2389 | 0.4867 | 0.5002 | 0.1500 | 0.0332 | 0.0160 | 0.0000 | 0.0000 | 0.0000 | 0.3532 | 0.0000 | 0.2682 |
| | VKT/1000 (km-vehicle) (1000X) | 3298.0000 | 88.0000 | 439.0000 | 190.0000 | 352.0000 | 2357.0000 | 206.0000 | 545.0000 | 74.0000 | 309.0000 | 0.0000 | 0.0000 | 0.0000 | 63.0000 | 0.0000 | 27.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0070 | 0.0090 | 0.0250 | 0.0200 | 0.0520 | 0.7130 | 0.0640 | 0.0510 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0140 | 0.0000 | 0.0040 |
| 20 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0034 | 0.1646 | 0.0916 | 0.1694 | 0.2377 | 0.4867 | 0.4999 | 0.1506 | 0.0435 | 0.0156 | 0.0000 | 0.0000 | 0.0000 | 0.3576 | 0.0000 | 0.2384 |
| | VKT/1000 (km-vehicle) (1000X) | 2666.0000 | 71.0000 | 355.0000 | 153.0000 | 285.0000 | 1905.0000 | 166.0000 | 441.0000 | 60.0000 | 250.0000 | 0.0000 | 0.0000 | 0.0000 | 51.0000 | 0.0000 | 22.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0060 | 0.0080 | 0.0210 | 0.0170 | 0.0420 | 0.5760 | 0.0520 | 0.0410 | 0.0010 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0110 | 0.0000 | 0.0040 |
| 21 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0036 | 0.1813 | 0.0952 | 0.1788 | 0.2371 | 0.4865 | 0.5040 | 0.1496 | 0.0268 | 0.0129 | 0.0000 | 0.0000 | 0.0000 | 0.3470 | 0.0000 | 0.2925 |
| | VKT/1000 (km-vehicle) (1000X) | 2250.0000 | 60.0000 | 299.0000 | 130.0000 | 240.0000 | 1608.0000 | 140.0000 | 372.0000 | 51.0000 | 211.0000 | 0.0000 | 0.0000 | 0.0000 | 43.0000 | 0.0000 | 19.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0050 | 0.0060 | 0.0170 | 0.0140 | 0.0350 | 0.4860 | 0.0440 | 0.0350 | 0.0010 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0090 | 0.0000 | 0.0030 |
| 22 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0036 | 0.1609 | 0.0915 | 0.1733 | 0.2346 | 0.4863 | 0.5057 | 0.1514 | 0.0315 | 0.0153 | 0.0000 | 0.0000 | 0.0000 | 0.3368 | 0.0000 | 0.2541 |
| | VKT/1000 (km-vehicle) (1000X) | 1896.0000 | 51.0000 | 252.0000 | 109.0000 | 202.0000 | 1355.0000 | 118.0000 | 313.0000 | 43.0000 | 178.0000 | 0.0000 | 0.0000 | 0.0000 | 36.0000 | 0.0000 | 16.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0040 | 0.0050 | 0.0150 | 0.0120 | 0.0300 | 0.4100 | 0.0370 | 0.0290 | 0.0010 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0080 | 0.0000 | 0.0030 |
| 23 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0034 | 0.1577 | 0.0958 | 0.1771 | 0.2390 | 0.4869 | 0.5045 | 0.1491 | 0.0374 | 0.0181 | 0.0000 | 0.0000 | 0.0000 | 0.3576 | 0.0000 | 0.3017 |
| Max Emission | | 0.0040 | 0.1893 | 0.0978 | 0.1788 | 0.2434 | 0.4873 | 0.5140 | 0.1537 | 0.0731 | 0.0268 | 0.0000 | 0.2825 | 0.0000 | 0.3576 | 0.0000 | 0.3017 |

## Annex D6 - Hourly Emission Factors for All Vehicle Classes on Road Links of Different Road Speeds

| Vehicular Emission Factors in 2011 (RSP @ 70kph) | | PC&LGV-TOT | PC&LGV<2.5t-TOT | LGV2.5-3.5t-TOT | PLB-TOT | LGV>3.5t-TOT | HGV<15t-TOT | HGV>15t-TOT | FBDD-TOT | MC-TOT | taxi-TOT | PrLB<3.5t-TOT | PrLB>3.5t-TOT | NFB<6.4t-TOT | NFB6.4-15t-TOT | NFB>15t-TOT | FBSD-TOT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VKT/1000 (km-vehicle) (1000X) | 78.0000 | 0.0000 | 1.0000 | 277.0000 | 1.0000 | 46.0000 | 4.0000 | 3.0000 | 0.0000 | 5.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0140 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 0 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0116 | 0.0000 | 0.4897 | 0.4023 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 60.0000 | 0.0000 | 1.0000 | 212.0000 | 1.0000 | 35.0000 | 3.0000 | 2.0000 | 0.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0110 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 1 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0076 | 0.0000 | 0.5057 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 41.0000 | 0.0000 | 0.0000 | 146.0000 | 0.0000 | 24.0000 | 2.0000 | 1.0000 | 0.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0070 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0110 | 0.0000 | 0.4693 | 0.8045 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 34.0000 | 0.0000 | 0.0000 | 120.0000 | 0.0000 | 20.0000 | 2.0000 | 1.0000 | 0.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0060 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 3 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0134 | 0.0000 | 0.4827 | 0.8045 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 34.0000 | 0.0000 | 0.0000 | 120.0000 | 0.0000 | 20.0000 | 2.0000 | 1.0000 | 0.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0060 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 4 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0134 | 0.0000 | 0.4827 | 0.8045 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 45.0000 | 0.0000 | 0.0000 | 159.0000 | 0.0000 | 26.0000 | 2.0000 | 1.0000 | 0.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0080 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 5 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0101 | 0.0000 | 0.4951 | 0.8045 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 89.0000 | 0.0000 | 1.0000 | 316.0000 | 1.0000 | 52.0000 | 4.0000 | 3.0000 | 0.0000 | 5.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0160 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 6 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0102 | 0.0000 | 0.4951 | 0.4023 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 205.0000 | 1.0000 | 2.0000 | 724.0000 | 2.0000 | 119.0000 | 10.0000 | 7.0000 | 0.0000 | 12.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0360 | 0.0030 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 7 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0089 | 0.0000 | 0.4868 | 0.4827 | 0.2299 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 253.0000 | 1.0000 | 2.0000 | 894.0000 | 2.0000 | 147.0000 | 13.0000 | 8.0000 | 0.0000 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0050 | 0.0000 | 0.0450 | 0.0040 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 8 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0064 | 0.0000 | 0.0000 | 0.0090 | 0.0000 | 0.4926 | 0.4951 | 0.2011 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 249.0000 | 1.0000 | 2.0000 | 881.0000 | 2.0000 | 145.0000 | 12.0000 | 8.0000 | 0.0000 | 15.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0050 | 0.0000 | 0.0440 | 0.0040 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 9 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0065 | 0.0000 | 0.0000 | 0.0091 | 0.0000 | 0.4882 | 0.5363 | 0.2011 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 234.0000 | 1.0000 | 2.0000 | 829.0000 | 2.0000 | 137.0000 | 12.0000 | 8.0000 | 0.0000 | 14.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0050 | 0.0000 | 0.0410 | 0.0040 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 10 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0069 | 0.0000 | 0.0000 | 0.0097 | 0.0000 | 0.4815 | 0.5363 | 0.2011 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 234.0000 | 1.0000 | 2.0000 | 829.0000 | 2.0000 | 137.0000 | 12.0000 | 8.0000 | 0.0000 | 14.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0050 | 0.0000 | 0.0410 | 0.0040 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 11 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0069 | 0.0000 | 0.0000 | 0.0097 | 0.0000 | 0.4815 | 0.5363 | 0.2011 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 256.0000 | 0.0000 | 0.0000 | 603.0000 | 0.0000 | 36.0000 | 3.0000 | 33.0000 | 0.0000 | 39.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0110 | 0.0010 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 12 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0063 | 0.0000 | 0.0000 | 0.0107 | 0.0000 | 0.4916 | 0.5363 | 0.1463 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4023 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 264.0000 | 0.0000 | 0.0000 | 621.0000 | 0.0000 | 38.0000 | 3.0000 | 34.0000 | 0.0000 | 41.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0110 | 0.0010 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 13 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0061 | 0.0000 | 0.0000 | 0.0104 | 0.0000 | 0.4658 | 0.5363 | 0.1420 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4023 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 266.0000 | 0.0000 | 0.0000 | 625.0000 | 0.0000 | 38.0000 | 3.0000 | 35.0000 | 0.0000 | 41.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0110 | 0.0010 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 14 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0060 | 0.0000 | 0.0000 | 0.0103 | 0.0000 | 0.4658 | 0.5363 | 0.1379 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4023 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 264.0000 | 0.0000 | 0.0000 | 621.0000 | 0.0000 | 38.0000 | 3.0000 | 34.0000 | 0.0000 | 41.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0110 | 0.0010 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 15 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0061 | 0.0000 | 0.0000 | 0.0104 | 0.0000 | 0.4658 | 0.5363 | 0.1420 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4023 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 268.0000 | 0.0000 | 0.0000 | 631.0000 | 0.0000 | 38.0000 | 3.0000 | 35.0000 | 0.0000 | 41.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0120 | 0.0010 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 16 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0060 | 0.0000 | 0.0000 | 0.0102 | 0.0000 | 0.5081 | 0.5363 | 0.1379 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4023 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 280.0000 | 0.0000 | 0.0000 | 658.0000 | 0.0000 | 40.0000 | 3.0000 | 36.0000 | 0.0000 | 43.0000 | 0.0000 | 0.0000 | 0.0000 | 5.0000 | 0.0000 | 2.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0120 | 0.0010 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 17 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0057 | 0.0000 | 0.0000 | 0.0098 | 0.0000 | 0.4827 | 0.5363 | 0.1341 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.3218 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 296.0000 | 0.0000 | 0.0000 | 697.0000 | 0.0000 | 42.0000 | 4.0000 | 39.0000 | 0.0000 | 46.0000 | 0.0000 | 0.0000 | 0.0000 | 5.0000 | 0.0000 | 2.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0130 | 0.0010 | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 18 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0054 | 0.0000 | 0.0000 | 0.0092 | 0.0000 | 0.4980 | 0.4023 | 0.1650 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.3218 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 244.0000 | 0.0000 | 0.0000 | 575.0000 | 0.0000 | 35.0000 | 3.0000 | 32.0000 | 0.0000 | 38.0000 | 0.0000 | 0.0000 | 0.0000 | 4.0000 | 0.0000 | 2.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0110 | 0.0010 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 19 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0066 | 0.0000 | 0.0000 | 0.0112 | 0.0000 | 0.5057 | 0.5363 | 0.1508 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.4023 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 188.0000 | 0.0000 | 0.0000 | 442.0000 | 0.0000 | 27.0000 | 2.0000 | 25.0000 | 0.0000 | 29.0000 | 0.0000 | 0.0000 | 0.0000 | 3.0000 | 0.0000 | 1.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0080 | 0.0010 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 20 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0109 | 0.0000 | 0.4767 | 0.8045 | 0.1287 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5363 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 152.0000 | 0.0000 | 0.0000 | 358.0000 | 0.0000 | 22.0000 | 2.0000 | 20.0000 | 0.0000 | 23.0000 | 0.0000 | 0.0000 | 0.0000 | 3.0000 | 0.0000 | 1.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0070 | 0.0010 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 21 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0090 | 0.0000 | 0.5120 | 0.8045 | 0.1609 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5363 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 128.0000 | 0.0000 | 0.0000 | 302.0000 | 0.0000 | 18.0000 | 2.0000 | 17.0000 | 0.0000 | 20.0000 | 0.0000 | 0.0000 | 0.0000 | 2.0000 | 0.0000 | 1.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0060 | 0.0000 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 22 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0107 | 0.0000 | 0.5363 | 0.0000 | 0.1893 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 108.0000 | 0.0000 | 0.0000 | 254.0000 | 0.0000 | 15.0000 | 1.0000 | 14.0000 | 0.0000 | 17.0000 | 0.0000 | 0.0000 | 0.0000 | 2.0000 | 0.0000 | 1.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0020 | 0.0000 | 0.0050 | 0.0000 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 23 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0127 | 0.0000 | 0.5363 | 0.0000 | 0.1149 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Max Emission | | 0.0069 | 0.0000 | 0.0000 | 0.0134 | 0.0000 | 0.5363 | 0.8045 | 0.2299 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.5363 | 0.0000 | 0.0000 |

## Annex D6 - Hourly Emission Factors for All Vehicle Classes on Road Links of Different Road Speeds

| Vehicular Emission Factors in 2011 (RSP @ 50kph) | | PC&LGV-TOT | PC&LGV<2.5t-TOT | LGV2.5-3.5t-TOT | PLB-TOT | LGV>3.5t-TOT | HGV<15t-TOT | HGV>15t-TOT | FBDD-TOT | MC-TOT | taxi-TOT | PrLB<3.5t-TOT | PrLB>3.5t-TOT | NFB<6.4t-TOT | NFB6.4-15t-TOT | NFB>15t-TOT | FBSD-TOT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VKT/1000 (km-vehicle) (1000X) | 1124.0000 | 35.0000 | 173.0000 | 142.0000 | 139.0000 | 392.0000 | 34.0000 | 172.0000 | 31.0000 | 269.0000 | 0.0000 | 0.0000 | 0.0000 | 20.0000 | 0.0000 | 9.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0060 | 0.0080 | 0.0200 | 0.0310 | 0.0420 | 0.2200 | 0.0200 | 0.0330 | 0.0010 | 0.0070 | 0.0000 | 0.0000 | 0.0000 | 0.0080 | 0.0000 | 0.0030 |
| 0 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0086 | 0.3678 | 0.1860 | 0.3513 | 0.4862 | 0.9030 | 0.9465 | 0.3087 | 0.0519 | 0.0419 | 0.0000 | 0.0000 | 0.0000 | 0.6436 | 0.0000 | 0.5363 |
| | VKT/1000 (km-vehicle) (1000X) | 861.0000 | 27.0000 | 132.0000 | 109.0000 | 106.0000 | 300.0000 | 26.0000 | 131.0000 | 24.0000 | 206.0000 | 0.0000 | 0.0000 | 0.0000 | 15.0000 | 0.0000 | 7.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0050 | 0.0060 | 0.0160 | 0.0240 | 0.0320 | 0.1680 | 0.0150 | 0.0250 | 0.0010 | 0.0050 | 0.0000 | 0.0000 | 0.0000 | 0.0060 | 0.0000 | 0.0020 |
| 1 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0093 | 0.3576 | 0.1950 | 0.3543 | 0.4857 | 0.9010 | 0.9283 | 0.3071 | 0.0670 | 0.0391 | 0.0000 | 0.0000 | 0.0000 | 0.6436 | 0.0000 | 0.4597 |
| | VKT/1000 (km-vehicle) (1000X) | 591.0000 | 18.0000 | 91.0000 | 75.0000 | 73.0000 | 20.0000 | 18.0000 | 90.0000 | 16.0000 | 141.0000 | 0.0000 | 0.0000 | 0.0000 | 11.0000 | 0.0000 | 5.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0030 | 0.0040 | 0.0110 | 0.0160 | 0.0220 | 0.0110 | 0.0100 | 0.0170 | 0.0000 | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0040 | 0.0000 | 0.0020 |
| 2 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0082 | 0.3576 | 0.1945 | 0.3433 | 0.4849 | 0.8850 | 0.8939 | 0.3039 | 0.0000 | 0.0456 | 0.0000 | 0.0000 | 0.0000 | 0.5851 | 0.0000 | 0.6436 |
| | VKT/1000 (km-vehicle) (1000X) | 486.0000 | 15.0000 | 75.0000 | 61.0000 | 60.0000 | 169.0000 | 15.0000 | 74.0000 | 13.0000 | 116.0000 | 0.0000 | 0.0000 | 0.0000 | 9.0000 | 0.0000 | 4.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0030 | 0.0030 | 0.0090 | 0.0130 | 0.0180 | 0.0950 | 0.0080 | 0.0140 | 0.0000 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0010 |
| 3 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0099 | 0.3218 | 0.1931 | 0.3429 | 0.4827 | 0.9045 | 0.8581 | 0.3044 | 0.0000 | 0.0416 | 0.0000 | 0.0000 | 0.0000 | 0.5363 | 0.0000 | 0.4023 |
| | VKT/1000 (km-vehicle) (1000X) | 486.0000 | 15.0000 | 75.0000 | 61.0000 | 60.0000 | 169.0000 | 15.0000 | 74.0000 | 13.0000 | 116.0000 | 0.0000 | 0.0000 | 0.0000 | 9.0000 | 0.0000 | 4.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0030 | 0.0030 | 0.0090 | 0.0130 | 0.0180 | 0.0950 | 0.0080 | 0.0140 | 0.0000 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0010 |
| 4 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0099 | 0.3218 | 0.1931 | 0.3429 | 0.4827 | 0.9045 | 0.8581 | 0.3044 | 0.0000 | 0.0416 | 0.0000 | 0.0000 | 0.0000 | 0.5363 | 0.0000 | 0.4023 |
| | VKT/1000 (km-vehicle) (1000X) | 644.0000 | 20.0000 | 99.0000 | 81.0000 | 80.0000 | 225.0000 | 19.0000 | 98.0000 | 18.0000 | 154.0000 | 0.0000 | 0.0000 | 0.0000 | 12.0000 | 0.0000 | 5.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0040 | 0.0040 | 0.0120 | 0.0180 | 0.0240 | 0.1260 | 0.0110 | 0.0190 | 0.0010 | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0050 | 0.0000 | 0.0020 |
| 5 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0100 | 0.3218 | 0.1950 | 0.3576 | 0.4827 | 0.9010 | 0.9315 | 0.3119 | 0.0894 | 0.0418 | 0.0000 | 0.0000 | 0.0000 | 0.6704 | 0.0000 | 0.6436 |
| | VKT/1000 (km-vehicle) (1000X) | 1282.0000 | 40.0000 | 197.0000 | 162.0000 | 158.0000 | 447.0000 | 39.0000 | 196.0000 | 36.0000 | 306.0000 | 0.0000 | 0.0000 | 0.0000 | 23.0000 | 0.0000 | 10.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0070 | 0.0090 | 0.0230 | 0.0350 | 0.0480 | 0.2500 | 0.0220 | 0.0380 | 0.0010 | 0.0080 | 0.0000 | 0.0000 | 0.0000 | 0.0090 | 0.0000 | 0.0030 |
| 6 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0088 | 0.3620 | 0.1879 | 0.3476 | 0.4888 | 0.8999 | 0.9076 | 0.3119 | 0.0447 | 0.0421 | 0.0000 | 0.0000 | 0.0000 | 0.6296 | 0.0000 | 0.4827 |
| | VKT/1000 (km-vehicle) (1000X) | 2934.0000 | 91.0000 | 451.0000 | 370.0000 | 363.0000 | 1023.0000 | 89.0000 | 448.0000 | 81.0000 | 701.0000 | 0.0000 | 159.0000 | 0.0000 | 53.0000 | 0.0000 | 23.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0170 | 0.0200 | 0.0530 | 0.0800 | 0.1090 | 0.5730 | 0.0510 | 0.0860 | 0.0020 | 0.0180 | 0.0000 | 0.0550 | 0.0000 | 0.0210 | 0.0000 | 0.0080 |
| 7 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0093 | 0.3536 | 0.1891 | 0.3479 | 0.4831 | 0.9012 | 0.9220 | 0.3089 | 0.0397 | 0.0413 | 0.0000 | 0.5566 | 0.0000 | 0.6375 | 0.0000 | 0.5597 |
| | VKT/1000 (km-vehicle) (1000X) | 3625.0000 | 113.0000 | 557.0000 | 458.0000 | 448.0000 | 1263.0000 | 109.0000 | 553.0000 | 84.0000 | 866.0000 | 0.0000 | 196.0000 | 0.0000 | 65.0000 | 0.0000 | 29.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0210 | 0.0240 | 0.0660 | 0.0990 | 0.1350 | 0.7080 | 0.0630 | 0.1060 | 0.0030 | 0.0220 | 0.0000 | 0.0680 | 0.0000 | 0.0260 | 0.0000 | 0.0090 |
| 8 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0093 | 0.3417 | 0.1907 | 0.3478 | 0.4849 | 0.9020 | 0.9300 | 0.3084 | 0.0575 | 0.0409 | 0.0000 | 0.5582 | 0.0000 | 0.6436 | 0.0000 | 0.4993 |
| | VKT/1000 (km-vehicle) (1000X) | 3572.0000 | 111.0000 | 1032.0000 | 451.0000 | 441.0000 | 1245.0000 | 108.0000 | 545.0000 | 99.0000 | 854.0000 | 0.0000 | 193.0000 | 0.0000 | 64.0000 | 0.0000 | 28.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0210 | 0.0240 | 0.1220 | 0.0980 | 0.1330 | 0.6970 | 0.0620 | 0.1050 | 0.0030 | 0.0220 | 0.0000 | 0.0670 | 0.0000 | 0.0260 | 0.0000 | 0.0090 |
| 9 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0095 | 0.3479 | 0.1902 | 0.3496 | 0.4853 | 0.9008 | 0.9237 | 0.3100 | 0.0488 | 0.0414 | 0.0000 | 0.5586 | 0.0000 | 0.6537 | 0.0000 | 0.5172 |
| | VKT/1000 (km-vehicle) (1000X) | 3361.0000 | 105.0000 | 517.0000 | 424.0000 | 415.0000 | 1172.0000 | 101.0000 | 513.0000 | 93.0000 | 803.0000 | 0.0000 | 182.0000 | 0.0000 | 60.0000 | 0.0000 | 26.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0190 | 0.0230 | 0.0610 | 0.0920 | 0.1250 | 0.6560 | 0.0580 | 0.0980 | 0.0030 | 0.0200 | 0.0000 | 0.0630 | 0.0000 | 0.0240 | 0.0000 | 0.0090 |
| 10 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0091 | 0.3524 | 0.1898 | 0.3491 | 0.4846 | 0.9006 | 0.9240 | 0.3074 | 0.0519 | 0.0401 | 0.0000 | 0.5570 | 0.0000 | 0.6436 | 0.0000 | 0.5570 |
| | VKT/1000 (km-vehicle) (1000X) | 3361.0000 | 105.0000 | 517.0000 | 424.0000 | 415.0000 | 1172.0000 | 101.0000 | 513.0000 | 93.0000 | 803.0000 | 0.0000 | 182.0000 | 0.0000 | 60.0000 | 0.0000 | 26.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0190 | 0.0230 | 0.0610 | 0.0920 | 0.1250 | 0.6560 | 0.0580 | 0.0980 | 0.0030 | 0.0200 | 0.0000 | 0.0630 | 0.0000 | 0.0240 | 0.0000 | 0.0090 |
| 11 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0091 | 0.3524 | 0.1898 | 0.3491 | 0.4846 | 0.9006 | 0.9240 | 0.3074 | 0.0519 | 0.0401 | 0.0000 | 0.5570 | 0.0000 | 0.6436 | 0.0000 | 0.5570 |
| | VKT/1000 (km-vehicle) (1000X) | 3457.0000 | 93.0000 | 469.0000 | 284.0000 | 374.0000 | 989.0000 | 86.0000 | 421.0000 | 125.0000 | 498.0000 | 0.0000 | 122.0000 | 0.0000 | 49.0000 | 0.0000 | 21.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0200 | 0.0200 | 0.0560 | 0.0620 | 0.1130 | 0.5540 | 0.0490 | 0.0810 | 0.0040 | 0.0130 | 0.0000 | 0.0420 | 0.0000 | 0.0200 | 0.0000 | 0.0070 |
| 12 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0093 | 0.3460 | 0.1921 | 0.3513 | 0.4861 | 0.9013 | 0.9168 | 0.3096 | 0.0515 | 0.0420 | 0.0000 | 0.5539 | 0.0000 | 0.6567 | 0.0000 | 0.5363 |
| | VKT/1000 (km-vehicle) (1000X) | 3564.0000 | 96.0000 | 484.0000 | 293.0000 | 385.0000 | 1020.0000 | 88.0000 | 434.0000 | 129.0000 | 513.0000 | 0.0000 | 125.0000 | 0.0000 | 50.0000 | 0.0000 | 21.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0200 | 0.0210 | 0.0570 | 0.0630 | 0.1160 | 0.5710 | 0.0510 | 0.0830 | 0.0040 | 0.0130 | 0.0000 | 0.0430 | 0.0000 | 0.0200 | 0.0000 | 0.0070 |
| 13 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0090 | 0.3520 | 0.1895 | 0.3460 | 0.4848 | 0.9007 | 0.9325 | 0.3077 | 0.0499 | 0.0408 | 0.0000 | 0.5535 | 0.0000 | 0.6436 | 0.0000 | 0.5363 |
| | VKT/1000 (km-vehicle) (1000X) | 3587.0000 | 97.0000 | 487.0000 | 295.0000 | 388.0000 | 1027.0000 | 89.0000 | 436.0000 | 130.0000 | 517.0000 | 0.0000 | 126.0000 | 0.0000 | 51.0000 | 0.0000 | 22.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0210 | 0.0210 | 0.0580 | 0.0640 | 0.1170 | 0.5750 | 0.0510 | 0.0840 | 0.0040 | 0.0130 | 0.0000 | 0.0440 | 0.0000 | 0.0200 | 0.0000 | 0.0070 |
| 14 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0094 | 0.3483 | 0.1916 | 0.3491 | 0.4852 | 0.9009 | 0.9220 | 0.3100 | 0.0495 | 0.0405 | 0.0000 | 0.5619 | 0.0000 | 0.6310 | 0.0000 | 0.5120 |
| | VKT/1000 (km-vehicle) (1000X) | 3564.0000 | 96.0000 | 484.0000 | 293.0000 | 385.0000 | 1020.0000 | 88.0000 | 434.0000 | 129.0000 | 513.0000 | 0.0000 | 125.0000 | 0.0000 | 50.0000 | 0.0000 | 21.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0200 | 0.0210 | 0.0570 | 0.0630 | 0.1160 | 0.5710 | 0.0510 | 0.0830 | 0.0040 | 0.0130 | 0.0000 | 0.0430 | 0.0000 | 0.0200 | 0.0000 | 0.0070 |
| 15 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0090 | 0.3520 | 0.1895 | 0.3460 | 0.4848 | 0.9007 | 0.9325 | 0.3077 | 0.0499 | 0.0408 | 0.0000 | 0.5535 | 0.0000 | 0.6436 | 0.0000 | 0.5363 |
| | VKT/1000 (km-vehicle) (1000X) | 3617.0000 | 98.0000 | 491.0000 | 297.0000 | 391.0000 | 1035.0000 | 90.0000 | 440.0000 | 131.0000 | 521.0000 | 0.0000 | 127.0000 | 0.0000 | 51.0000 | 0.0000 | 22.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0210 | 0.0210 | 0.0580 | 0.0640 | 0.1180 | 0.5800 | 0.0520 | 0.0840 | 0.0040 | 0.0130 | 0.0000 | 0.0440 | 0.0000 | 0.0200 | 0.0000 | 0.0070 |
| 16 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0093 | 0.3448 | 0.1901 | 0.3467 | 0.4856 | 0.9017 | 0.9296 | 0.3072 | 0.0491 | 0.0401 | 0.0000 | 0.5574 | 0.0000 | 0.6310 | 0.0000 | 0.5120 |
| | VKT/1000 (km-vehicle) (1000X) | 3777.0000 | 102.0000 | 513.0000 | 310.0000 | 408.0000 | 1081.0000 | 94.0000 | 460.0000 | 137.0000 | 544.0000 | 0.0000 | 133.0000 | 0.0000 | 53.0000 | 0.0000 | 23.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0220 | 0.0220 | 0.0610 | 0.0670 | 0.1230 | 0.6050 | 0.0540 | 0.0880 | 0.0040 | 0.0140 | 0.0000 | 0.0460 | 0.0000 | 0.0210 | 0.0000 | 0.0070 |
| 17 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0094 | 0.3470 | 0.1913 | 0.3478 | 0.4851 | 0.9005 | 0.9243 | 0.3078 | 0.0470 | 0.0414 | 0.0000 | 0.5565 | 0.0000 | 0.6375 | 0.0000 | 0.4897 |
| | VKT/1000 (km-vehicle) (1000X) | 3997.0000 | 108.0000 | 543.0000 | 328.0000 | 432.0000 | 1144.0000 | 99.0000 | 486.0000 | 145.0000 | 576.0000 | 0.0000 | 141.0000 | 0.0000 | 57.0000 | 0.0000 | 24.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0230 | 0.0230 | 0.0640 | 0.0710 | 0.1300 | 0.6410 | 0.0570 | 0.0930 | 0.0040 | 0.0150 | 0.0000 | 0.0490 | 0.0000 | 0.0230 | 0.0000 | 0.0080 |
| 18 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0093 | 0.3427 | 0.1896 | 0.3483 | 0.4842 | 0.9015 | 0.9264 | 0.3079 | 0.0444 | 0.0419 | 0.0000 | 0.5592 | 0.0000 | 0.6492 | 0.0000 | 0.5363 |
| | VKT/1000 (km-vehicle) (1000X) | 3297.0000 | 89.0000 | 448.0000 | 271.0000 | 356.0000 | 943.0000 | 82.0000 | 401.0000 | 120.0000 | 475.0000 | 0.0000 | 0.0000 | 0.0000 | 47.0000 | 0.0000 | 20.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0190 | 0.0190 | 0.0530 | 0.0590 | 0.1080 | 0.5280 | 0.0470 | 0.0770 | 0.0040 | 0.0120 | 0.0000 | 0.0000 | 0.0000 | 0.0190 | 0.0000 | 0.0070 |
| 19 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0093 | 0.3435 | 0.1904 | 0.3503 | 0.4881 | 0.9009 | 0.9222 | 0.3090 | 0.0536 | 0.0406 | 0.0000 | 0.0000 | 0.0000 | 0.6504 | 0.0000 | 0.5632 |
| | VKT/1000 (km-vehicle) (1000X) | 2538.0000 | 69.0000 | 345.0000 | 209.0000 | 274.0000 | 726.0000 | 63.0000 | 309.0000 | 92.0000 | 366.0000 | 0.0000 | 0.0000 | 0.0000 | 36.0000 | 0.0000 | 15.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0150 | 0.0150 | 0.0410 | 0.0450 | 0.0830 | 0.4070 | 0.0360 | 0.0590 | 0.0030 | 0.0090 | 0.0000 | 0.0000 | 0.0000 | 0.0140 | 0.0000 | 0.0050 |
| 20 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0095 | 0.3498 | 0.1912 | 0.3464 | 0.4874 | 0.9020 | 0.9194 | 0.3072 | 0.0525 | 0.0396 | 0.0000 | 0.0000 | 0.0000 | 0.6257 | 0.0000 | 0.5363 |
| | VKT/1000 (km-vehicle) (1000X) | 2052.0000 | 55.0000 | 279.0000 | 169.0000 | 222.0000 | 587.0000 | 51.0000 | 250.0000 | 74.0000 | 296.0000 | 0.0000 | 0.0000 | 0.0000 | 29.0000 | 0.0000 | 12.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0120 | 0.0120 | 0.0330 | 0.0370 | 0.0670 | 0.3290 | 0.0290 | 0.0480 | 0.0020 | 0.0070 | 0.0000 | 0.0000 | 0.0000 | 0.0120 | 0.0000 | 0.0040 |
| 21 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0094 | 0.3511 | 0.1903 | 0.3523 | 0.4856 | 0.9018 | 0.9149 | 0.3089 | 0.0435 | 0.0381 | 0.0000 | 0.0000 | 0.0000 | 0.6658 | 0.0000 | 0.5363 |
| | VKT/1000 (km-vehicle) (1000X) | 1731.0000 | 47.0000 | 235.0000 | 142.0000 | 187.0000 | 495.0000 | 43.0000 | 211.0000 | 63.0000 | 249.0000 | 0.0000 | 0.0000 | 0.0000 | 24.0000 | 0.0000 | 10.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0100 | 0.0100 | 0.0280 | 0.0310 | 0.0560 | 0.2780 | 0.0250 | 0.0400 | 0.0020 | 0.0060 | 0.0000 | 0.0000 | 0.0000 | 0.0100 | 0.0000 | 0.0030 |
| 22 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0093 | 0.3423 | 0.1917 | 0.3513 | 0.4818 | 0.9036 | 0.9355 | 0.3050 | 0.0511 | 0.0388 | 0.0000 | 0.0000 | 0.0000 | 0.6704 | 0.0000 | 0.4827 |
| | VKT/1000 (km-vehicle) (1000X) | 1459.0000 | 39.0000 | 198.0000 | 120.0000 | 158.0000 | 417.0000 | 36.0000 | 177.0000 | 53.0000 | 210.0000 | 0.0000 | 0.0000 | 0.0000 | 21.0000 | 0.0000 | 9.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0080 | 0.0090 | 0.0230 | 0.0260 | 0.0480 | 0.2340 | 0.0210 | 0.0340 | 0.0020 | 0.0050 | 0.0000 | 0.0000 | 0.0000 | 0.0080 | 0.0000 | 0.0030 |
| 23 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0088 | 0.3713 | 0.1869 | 0.3486 | 0.4888 | 0.9029 | 0.9386 | 0.3091 | 0.0607 | 0.0383 | 0.0000 | 0.0000 | 0.0000 | 0.6130 | 0.0000 | 0.5363 |
| Max Emission | | 0.0100 | 0.3713 | 0.1950 | 0.3576 | 0.4888 | 0.9045 | 0.9465 | 0.3119 | 0.0894 | 0.0456 | 0.0000 | 0.5619 | 0.0000 | 0.6704 | 0.0000 | 0.6436 |

## Annex D6 - Hourly Emission Factors for All Vehicle Classes on Road Links of Different Road Speeds

| Vehicular Emission Factors in 2011 (RSP @ s50kph) | | PC&LGV-TOT | PC&LGV<2.5t-TOT | LGV2.5-3.5t-TOT | PLB-TOT | LGV>3.5t-TOT | HGV<15t-TOT | HGV>15t-TOT | FBDD-TOT | MC-TOT | taxi-TOT | PrLB<3.5t-TOT | PrLB>3.5t-TOT | NFB<6.4t-TOT | NFB6.4-15t-TOT | NFB>15t-TOT | FBSD-TOT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VKT/1000 (km-vehicle) (1000X) | 15.0000 | 0.0000 | 2.0000 | 0.0000 | 2.0000 | 7.0000 | 1.0000 | 3.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0070 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 0 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.8045 | 1.6090 | 1.6090 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 12.0000 | 0.0000 | 2.0000 | 0.0000 | 1.0000 | 6.0000 | 0.0000 | 2.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0050 | 0.0000 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 1 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 1.3408 | 0.0000 | 0.8045 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 8.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 4.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0040 | 0.0000 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 2 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 1.6090 | 0.0000 | 1.6090 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 6.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 3.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 3 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 6.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 3.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 4 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 9.0000 | 0.0000 | 1.0000 | 0.0000 | 1.0000 | 4.0000 | 0.0000 | 2.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0040 | 0.0000 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 5 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 1.6090 | 0.0000 | 0.8045 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 17.0000 | 1.0000 | 3.0000 | 0.0000 | 2.0000 | 8.0000 | 1.0000 | 3.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0010 | 0.0080 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 6 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.5363 | 0.0000 | 0.8045 | 1.6090 | 1.6090 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 39.0000 | 1.0000 | 6.0000 | 0.0000 | 5.0000 | 19.0000 | 2.0000 | 7.0000 | 1.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0010 | 0.0000 | 0.0030 | 0.0190 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 7 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0413 | 0.0000 | 0.2682 | 0.0000 | 0.9654 | 1.6090 | 1.6090 | 0.6896 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 48.0000 | 2.0000 | 8.0000 | 1.0000 | 6.0000 | 23.0000 | 2.0000 | 9.0000 | 1.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0020 | 0.0000 | 0.0030 | 0.0230 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 8 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0335 | 0.8045 | 0.4023 | 0.0000 | 0.8045 | 1.6090 | 1.6090 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 48.0000 | 2.0000 | 7.0000 | 1.0000 | 6.0000 | 23.0000 | 2.0000 | 9.0000 | 1.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0020 | 0.0000 | 0.0030 | 0.0230 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 9 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0335 | 0.8045 | 0.4597 | 0.0000 | 0.8045 | 1.6090 | 1.6090 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 45.0000 | 1.0000 | 7.0000 | 0.0000 | 6.0000 | 22.0000 | 2.0000 | 8.0000 | 1.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0010 | 0.0000 | 0.0030 | 0.0210 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 10 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0358 | 1.6090 | 0.2299 | 0.0000 | 0.8045 | 1.5359 | 1.6090 | 0.6034 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 45.0000 | 1.0000 | 7.0000 | 0.0000 | 6.0000 | 22.0000 | 2.0000 | 8.0000 | 1.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0010 | 0.0000 | 0.0030 | 0.0210 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 11 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0358 | 1.6090 | 0.2299 | 0.0000 | 0.8045 | 1.5359 | 1.6090 | 0.6034 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 53.0000 | 2.0000 | 9.0000 | 1.0000 | 7.0000 | 21.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0020 | 0.0000 | 0.0040 | 0.0210 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 12 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0304 | 0.8045 | 0.3576 | 0.0000 | 0.9194 | 1.6090 | 1.6090 | 0.6034 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 55.0000 | 2.0000 | 9.0000 | 1.0000 | 7.0000 | 22.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0020 | 0.0000 | 0.0040 | 0.0210 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 13 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0293 | 0.8045 | 0.3576 | 0.0000 | 0.9194 | 1.5359 | 1.6090 | 0.6034 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 55.0000 | 2.0000 | 9.0000 | 1.0000 | 7.0000 | 22.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0020 | 0.0000 | 0.0040 | 0.0210 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 14 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0293 | 0.8045 | 0.3576 | 0.0000 | 0.9194 | 1.5359 | 1.6090 | 0.6034 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 55.0000 | 2.0000 | 9.0000 | 1.0000 | 7.0000 | 22.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0020 | 0.0000 | 0.0040 | 0.0210 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 15 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0293 | 0.8045 | 0.3576 | 0.0000 | 0.9194 | 1.5359 | 1.6090 | 0.6034 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 56.0000 | 2.0000 | 9.0000 | 1.0000 | 7.0000 | 22.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0020 | 0.0000 | 0.0040 | 0.0220 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 16 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0287 | 0.8045 | 0.3576 | 0.0000 | 0.9194 | 1.6090 | 1.6090 | 0.6034 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 58.0000 | 2.0000 | 9.0000 | 1.0000 | 8.0000 | 23.0000 | 2.0000 | 9.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0020 | 0.0000 | 0.0040 | 0.0230 | 0.0020 | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 17 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0277 | 0.8045 | 0.3576 | 0.0000 | 0.8045 | 1.6090 | 1.6090 | 0.7151 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 62.0000 | 2.0000 | 10.0000 | 1.0000 | 8.0000 | 24.0000 | 2.0000 | 9.0000 | 2.0000 | 4.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0020 | 0.0000 | 0.0040 | 0.0240 | 0.0020 | 0.0040 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 18 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0260 | 0.8045 | 0.3218 | 0.0000 | 0.8045 | 1.6090 | 1.6090 | 0.7151 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 51.0000 | 2.0000 | 8.0000 | 1.0000 | 7.0000 | 20.0000 | 2.0000 | 8.0000 | 2.0000 | 3.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0010 | 0.0020 | 0.0000 | 0.0030 | 0.0200 | 0.0020 | 0.0030 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0000 |
| 19 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0315 | 0.8045 | 0.4023 | 0.0000 | 0.6896 | 1.6090 | 1.6090 | 0.6034 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 39.0000 | 1.0000 | 6.0000 | 1.0000 | 5.0000 | 15.0000 | 1.0000 | 6.0000 | 1.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0010 | 0.0000 | 0.0030 | 0.0150 | 0.0010 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 20 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0413 | 0.0000 | 0.2682 | 0.0000 | 0.9654 | 1.6090 | 1.6090 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 32.0000 | 1.0000 | 5.0000 | 0.0000 | 4.0000 | 12.0000 | 1.0000 | 5.0000 | 1.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 1.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0010 | 0.0000 | 0.0020 | 0.0120 | 0.0010 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 21 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0503 | 0.0000 | 0.3218 | 0.0000 | 0.8045 | 1.6090 | 1.6090 | 0.6436 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 27.0000 | 1.0000 | 4.0000 | 0.0000 | 3.0000 | 11.0000 | 1.0000 | 4.0000 | 1.0000 | 2.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (ton/hr) (1000X) | 0.0010 | 0.0000 | 0.0010 | 0.0000 | 0.0020 | 0.0100 | 0.0010 | 0.0020 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 22 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0596 | 0.0000 | 0.4023 | 0.0000 | 1.0727 | 1.4627 | 1.6090 | 0.8045 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | VKT/1000 (km-vehicle) (1000X) | 23.0000 | 1.0000 | 4.0000 | 0.0000 | 3.0000 | 9.0000 | 1.0000 | 3.0000 | 1.0000 | 1.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| | Total Ex (1000X) (ton/hr) (1000X) | 0.0000 | 0.0000 | 0.0010 | 0.0000 | 0.0020 | 0.0090 | 0.0010 | 0.0010 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 23 hr result | Total Ex/VMT (g/mile-vehicle) | 0.0000 | 0.0000 | 0.4023 | 0.0000 | 1.0727 | 1.6090 | 1.6090 | 0.5363 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| Max Emission | | 0.0596 | 1.6090 | 0.5363 | 0.0000 | 1.6090 | 1.6090 | 1.6090 | 1.6090 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 1.6090 | 0.0000 | 0.0000 |