# Hamilton Air Monitoring Network - TSP Report

**Station** : STN29567
**Location** : Niagara / Land, Hamilton

**Sample Matrix** : Glass Fibre
**Method** : ICP/ MS

| Parameter | TSP | Cd | Cr | Fe | Cu | Pb | Mn | Ni | V |
|---|---|---|---|---|---|---|---|---|---|
| Name | | Cadmium | Chromium | Iron | Copper | Lead | Manganese | Nickel | Vanadium |
| Units | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ |
| MDL | 1 | 0.01 | 0.002 | 0.01 | 0.004 | 0.04 | 0.002 | 0.02 | 0.01 |
| Date | | | | | | | | | |
| 03-Jan-11 | 26 | 0.005 | 0.003 | 0.70 | 0.209 | 0.02 | 0.075 | 0.01 | 0.005 |
| 09-Jan-11 | 19 | 0.005 | 0.002 | 0.24 | 0.091 | 0.02 | 0.088 | 0.01 | 0.005 |
| 15-Jan-11 | 27 | 0.005 | 0.005 | 0.49 | 0.113 | 0.02 | 0.063 | 0.01 | 0.005 |
| 21-Jan-11 | 37 | 0.005 | 0.022 | 2.36 | 0.141 | 0.02 | 1.566 | 0.01 | 0.005 |
| 27-Jan-11 | 26 | 0.005 | 0.018 | 0.91 | 0.197 | 0.02 | 0.383 | 0.01 | 0.005 |
| 02-Feb-11 | 12 | 0.005 | 0.004 | 0.37 | 0.020 | 0.02 | 0.034 | 0.01 | 0.005 |
| 08-Feb-11 | 31 | 0.005 | 0.057 | 1.14 | 0.094 | 0.02 | 1.540 | 0.01 | 0.005 |
| 14-Feb-11 | 20 | 0.005 | 0.004 | 0.78 | 0.086 | 0.02 | 0.324 | 0.01 | 0.005 |
| 20-Feb-11 | 25 | 0.005 | 0.007 | 0.73 | 0.081 | 0.02 | 0.159 | 0.01 | 0.005 |
| 26-Feb-11 | 50 | 0.005 | 0.033 | 1.73 | 0.188 | 0.02 | 0.866 | 0.01 | 0.005 |
| ------ | | | | | | | | | |
| 04-Mar-11 | 65 | 0.005 | 0.058 | 4.70 | 0.217 | 0.02 | 0.468 | 0.03 | 0.008 |
| 10-Mar-11 | 25 | 0.005 | 0.005 | 0.71 | 0.141 | 0.02 | 0.080 | 0.01 | 0.005 |
| 16-Mar-11 | 69 | 0.005 | 0.015 | 1.97 | 0.241 | 0.02 | 0.980 | 0.01 | 0.005 |
| 22-Mar-11 | 23 | 0.005 | 0.002 | 0.42 | 0.085 | 0.02 | 0.066 | 0.01 | 0.005 |
| 28-Mar-11 | 74 | 0.005 | 0.044 | 3.27 | 0.164 | 0.02 | 2.464 | 0.01 | 0.007 |
| 03-Apr-11 | 76 | 0.005 | 0.017 | 1.56 | 0.199 | 0.02 | 0.605 | 0.01 | 0.005 |
| 09-Apr-11 | 72 | 0.005 | 0.012 | 2.97 | 0.179 | 0.02 | 0.268 | 0.01 | 0.007 |
| 15-Apr-11 | 215 | 0.005 | 0.036 | 11.33 | 0.086 | 0.04 | 1.000 | 0.01 | 0.020 |
| 21-Apr-11 | 88 | 0.005 | 0.036 | 5.61 | 0.149 | 0.02 | 1.489 | 0.02 | 0.012 |
| 27-Apr-11 | 55 | 0.005 | 0.011 | 3.30 | 0.278 | 0.02 | 0.257 | 0.01 | 0.017 |
| 03-May-11 | 31 | 0.005 | 0.004 | 0.88 | 0.126 | 0.02 | 0.173 | 0.01 | 0.006 |
| 09-May-11 | 84 | 0.005 | 0.013 | 3.23 | 0.225 | 0.02 | 0.411 | 0.01 | 0.009 |
| 15-May-11 | 21 | 0.005 | 0.002 | 0.59 | 0.093 | 0.02 | 0.066 | 0.01 | 0.005 |
| 21-May-11 | 73 | 0.005 | 0.012 | 2.34 | 0.406 | 0.02 | 0.285 | 0.01 | 0.007 |
| 27-May-11 | 25 | 0.005 | 0.003 | 0.67 | 0.116 | 0.02 | 0.120 | 0.01 | 0.005 |
| 02-Jun-11 | 127 | 0.005 | 0.044 | 3.29 | 0.091 | 0.02 | 2.586 | 0.01 | 0.007 |
| 08-Jun-11 | 93 | 0.005 | 0.011 | 2.61 | 0.175 | 0.02 | 0.310 | 0.01 | 0.007 |
| 14-Jun-11 | 62 | 0.005 | 0.010 | 2.33 | 0.053 | 0.02 | 0.238 | 0.01 | 0.009 |
| 20-Jun-11 | 62 | 0.005 | 0.006 | 2.39 | 0.060 | 0.02 | 0.175 | 0.01 | 0.006 |
| 26-Jun-11 | 32 | 0.005 | 0.004 | 1.31 | 0.093 | 0.02 | 0.205 | 0.01 | 0.005 |

| Parameter | TSP | Cd | Cr | Fe | Cu | Pb | Mn | Ni | V |
|---|---|---|---|---|---|---|---|---|---|
| Name | | Cadmium | Chromium | Iron | Copper | Lead | Manganese | Nickel | Vanadium |
| Units | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ | µg/m³ |
| MDL | 1 | 0.01 | 0.002 | 0.01 | 0.004 | 0.04 | 0.002 | 0.02 | 0.01 |
| Date | | | | | | | | | |
| 02-Jul-11 | 101 | 0.005 | 0.022 | 4.88 | 0.125 | 0.04 | 0.598 | 0.01 | 0.008 |
| 08-Jul-11 | 96 | 0.005 | 0.013 | 2.76 | 0.070 | 0.04 | 0.338 | 0.01 | 0.008 |
| 14-Jul-11 | 73 | 0.005 | 0.011 | 2.90 | 0.081 | 0.02 | 0.350 | 0.01 | 0.006 |
| 20-Jul-11 | 91 | 0.005 | 0.021 | 2.80 | 0.160 | 0.02 | 0.722 | 0.01 | 0.005 |
| 26-Jul-11 | 115 | 0.005 | 0.032 | 3.78 | 0.108 | 0.02 | 2.783 | 0.02 | 0.008 |
| 01-Aug-11 | 49 | 0.005 | 0.010 | 2.71 | 0.116 | 0.02 | 0.531 | 0.01 | 0.005 |
| 07-Aug-11 | 55 | 0.005 | 0.010 | 1.59 | 0.108 | 0.02 | 0.147 | 0.01 | 0.005 |
| 13-Aug-11 | 69 | 0.005 | 0.009 | 2.89 | 0.120 | 0.02 | 0.312 | 0.01 | 0.005 |
| 19-Aug-11 | 70 | 0.005 | 0.011 | 2.71 | 0.157 | 0.02 | 0.867 | 0.01 | 0.015 |
| 25-Aug-11 | 71 | 0.005 | 0.016 | 2.93 | 0.104 | 0.02 | 1.060 | 0.01 | 0.005 |
| 31-Aug-11 | 104 | 0.005 | 0.016 | 4.12 | 0.105 | 0.02 | 0.596 | 0.01 | 0.014 |
| 06-Sep-11 | 29 | 0.005 | 0.001 | 0.80 | 0.053 | 0.02 | 0.072 | 0.01 | 0.002 |
| 12-Sep-11 | 67 | 0.005 | 0.083 | 2.73 | 0.307 | 0.02 | 0.427 | 0.10 | 0.004 |
| 18-Sep-11 | 77 | 0.005 | 0.016 | 12.92 | 0.113 | 0.02 | 0.364 | 0.01 | 0.008 |
| 24-Sep-11 | 37 | 0.005 | 0.007 | 1.34 | 0.172 | 0.01 | 0.182 | 0.01 | 0.004 |
| 30-Sep-11 | 27 | 0.005 | 0.005 | 1.28 | 0.226 | 0.02 | 0.223 | 0.01 | 0.002 |
| 06-Oct-11 | 124 | 0.005 | 0.028 | 7.43 | 0.186 | 0.02 | 1.283 | 0.04 | 0.012 |
| 12-Oct-11 | 37 | 0.005 | 0.005 | 1.43 | 0.056 | 0.02 | 0.116 | 0.01 | 0.005 |
| 18-Oct-11 | 59 | 0.005 | 0.009 | 2.14 | 0.133 | 0.02 | 0.537 | 0.01 | 0.005 |
| 24-Oct-11 | 51 | 0.005 | 0.012 | 2.03 | 0.184 | 0.02 | 0.357 | 0.01 | 0.005 |
| 30-Oct-11 | 29 | 0.005 | 0.002 | 0.91 | 0.189 | 0.02 | 0.091 | 0.01 | 0.006 |
| 05-Nov-11 | 34 | 0.005 | 0.005 | 1.33 | 0.113 | 0.02 | 0.089 | 0.01 | 0.005 |
| 11-Nov-11 | 81 | 0.005 | 0.020 | 3.07 | 0.115 | 0.02 | 0.796 | 0.01 | 0.012 |
| 17-Nov-11 | 61 | 0.005 | 0.009 | 2.63 | 0.142 | 0.02 | 0.478 | 0.01 | 0.005 |
| 23-Nov-11 | 31 | 0.005 | 0.006 | 3.32 | 0.085 | 0.02 | 0.283 | 0.01 | 0.005 |
| 29-Nov-11 | 10 | 0.005 | 0.002 | 0.56 | 0.038 | 0.02 | 0.096 | 0.01 | 0.014 |
| 05-Dec-11 | 13 | 0.005 | 0.008 | 1.21 | 0.069 | 0.02 | 0.519 | 0.01 | 0.005 |
| 11-Dec-11 | 26 | 0.005 | 0.002 | 0.45 | 0.132 | 0.02 | 0.061 | 0.01 | 0.005 |
| 17-Dec-11 | 40 | 0.005 | 0.009 | 5.07 | 0.088 | 0.02 | 0.150 | 0.04 | 0.005 |
| 23-Dec-11 | 19 | 0.005 | 0.002 | 0.94 | 0.060 | 0.02 | 0.078 | 0.01 | 0.005 |
| 29-Dec-11 | 58 | 0.005 | 0.011 | 3.50 | 0.105 | 0.02 | 0.372 | 0.01 | 0.006 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Geo Mean | 47 | 0.005 | 0.009 | 1.816 | 0.119 | 0.020 | 0.308 | 0.011 | 0.006 |
| Max | 215 | 0.005 | 0.083 | 12.920 | 0.406 | 0.044 | 2.783 | 0.101 | 0.020 |
| Min | 10 | 0.005 | 0.001 | 0.240 | 0.020 | 0.009 | 0.034 | 0.010 | 0.002 |
| AAQC | 120 | 0.025 | 1.5 | 17.5 | 50 | 0.5 | 2.5 | 2 | 2 |
| No. > AAQC | 3 | 0 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| No. of Samples | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 |