

Annex D6

Ambient VOCs, Ammonia and H₂S Monitoring Results

Table D6.1 Ambient VOCs, Ammonia and H₂S Monitoring Results

| Parameters | Limit Level | Monitoring Results ($\mu\text{g m}^{-3}$) | | | |
|--------------------------|-------------------|---|----------------|----------------|----------------|
| | | AM1 | AM2 | AM3 | AM4 |
| Ammonia | 180 | <10 | <10 | <10 | <10 |
| H ₂ S | 42 | <14 | <14 | <14 | <14 |
| Methane | NA ^(a) | 0.00019% (v/v) | 0.00017% (v/v) | 0.00041% (v/v) | 0.00018% (v/v) |
| 1.1.1-Trichloroethane | 5,550 | <0.8 | <0.8 | <0.8 | <0.8 |
| 1.2-Dibromoethane (EDB) | 39 | <1.0 | <1.0 | <1.0 | <1.0 |
| 1.2-Dichloroethane | 210 | 0.9 | 0.9 | 0.4 | 1.0 |
| Benzene | 33 | 1.0 | 0.8 | <0.5 | 0.9 |
| Butan-2-ol | 667 | <0.6 | <0.6 | <0.6 | <0.6 |
| Butanethiol | 4 | <1.2 | <1.2 | <1.2 | <1.2 |
| Carbon Disulphide | 150 | 0.8 | <0.5 | <0.5 | 1.1 |
| Carbon Tetrachloride | 64 | 0.7 | 0.6 | <0.6 | 0.6 |
| Chloroform | 99 | <0.8 | <0.8 | <0.8 | <0.8 |
| Decanes | 3,608 | 0.7 | <0.7 | 1.1 | 0.7 |
| Dichlorobenzene | 120 | <1.0 | <1.0 | <1.0 | <1.0 |
| Dichlorodifluoro-methane | NA ^(a) | 1.0 | 1.1 | <0.6 | 0.9 |
| Dimethylsulphide | 8 | <0.2 | <0.2 | <0.2 | <0.2 |
| Dipropyl ether | NA ^(a) | <0.8 | <0.8 | <0.8 | <0.8 |
| Limonene | 212 | 1.1 | 1.2 | 4.0 | 1.1 |
| Ethanethiol | 13 | <0.6 | <0.6 | <0.6 | <0.6 |
| Ethanol | 19,200 | <3.8 | <3.8 | <3.8 | <3.8 |
| Ethyl butanoate | 71 | <1.0 | <1.0 | <1.0 | <1.0 |
| Ethyl propionate | 29 | <0.8 | <0.8 | <0.8 | <0.8 |
| Ethyl benzene | 738 | 1.0 | 1.0 | 1.3 | 2.0 |
| Heptane | 2,746 | <0.8 | <0.8 | <0.8 | 0.8 |
| Methanethiol | 10 | <0.4 | <0.4 | <0.4 | <0.4 |
| Methanol | 2,660 | 29.4 | 13.7 | <2.6 | 31.3 |
| Methyl butanoate | 30 | <0.8 | <0.8 | <0.8 | <0.8 |
| Methyl propionate | 353 | <0.7 | <0.7 | <0.7 | <0.7 |
| Methylene Chloride | 3,530 | 4.5 | 5.4 | 0.6 | 5.5 |
| Butyl acetate | 76 | 1.1 | <1.0 | <1.0 | 1.7 |
| Butyl benzene | 47 | <1.0 | <1.0 | <1.0 | <1.0 |
| Nonane | 11,540 | <0.9 | <0.9 | <0.9 | <0.9 |
| Propyl benzene | 19 | <0.8 | <0.8 | <0.8 | <0.8 |

| | | | | | |
|---------------------|-------------------|------|------|------|------|
| Octane | 7,942 | <0.9 | <0.9 | <0.9 | <0.9 |
| Propyl propionate | 276 | <1.0 | <1.0 | <1.0 | <1.0 |
| Terpenes | NA ^(a) | 1.0 | <0.8 | 1.8 | 2.2 |
| Tetrachloroethylene | 1,380 | <0.7 | <0.7 | <0.7 | <0.7 |
| Toluene | 1,244 | 3.5 | 3.6 | 2.6 | 5.4 |
| Trichloroethylene | 5,500 | <1.1 | <1.1 | <1.1 | <1.1 |
| Undecane | 5,562 | <1.2 | <1.2 | 1.5 | <1.2 |
| Vinyl Chloride | 26 | <0.3 | <0.3 | <0.3 | <0.3 |
| Xylenes | 534 | 3.0 | 3.0 | 5.9 | 6.3 |

Notes:

(a) No relevant WHO/USEPA/CARB's ambient criteria, odour thresholds and WEL available.