|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Metals | Non-carcinogenic health risk (HQ) | | | | Carcinogenic Health Risk (RI) | | | |
| Adult | | Child | | Adult | | Child | |
| Winter | Rainy | Winter | Rainy | Winter | Rainy | Winter | Rainy |
| **Ingestion** |  |  |  |  |  |  |  |  |
| Cr | 0.015959572 | 0.011816277 | 0.148956003 | 0.110285254 | 1.02597E-05 | 7.59618E-06 | 1.91515E-05 | 1.41795E-05 |
| Ni | 0.001813116 | 0.001151072 | 0.016922417 | 0.010743336 |  |  |  |  |
| Cu | 0.002069751 | 0.001408422 | 0.019317679 | 0.01314527 |  |  |  |  |
| As | 0.039429953 | 0.030568436 | 0.368012893 | 0.285305399 | 7.60435E-06 | 5.89534E-06 | 1.41948E-05 | 1.10046E-05 |
| Cd | 0.003606631 | 0.002743824 | 0.033661886 | 0.025609025 | 5.87366E-07 | 4.46851E-07 | 1.09642E-06 | 8.34123E-07 |
| Pb | 0.028803671 | 0.015854351 | 0.268834258 | 0.147973938 | 3.67247E-07 | 2.02143E-07 | 6.85527E-07 | 3.77334E-07 |
| **Inhalation** |  |  |  |  |  |  |  |  |
| Cr | 2.46188E-06 | 1.82275E-06 | 4.36574E-06 | 3.23234E-06 | 1.26738E-07 | 9.38351E-08 | 4.49497E-08 | 3.32802E-08 |
| Ni | 2.58869E-07 | 1.64345E-07 | 4.5906E-07 | 2.91438E-07 |  |  |  |  |
| Cu | 3.02861E-07 | 2.0609E-07 | 5.37073E-07 | 3.65467E-07 |  |  |  |  |
| As | 5.77926E-06 | 4.48042E-06 | 1.02486E-05 | 7.94528E-06 | 1.12574E-08 | 8.72742E-09 | 3.99263E-09 | 3.09532E-09 |
| Cd | 5.30387E-07 | 4.03504E-07 | 9.40553E-07 | 7.15546E-07 | 1.43204E-09 | 1.08946E-09 | 5.07898E-10 | 3.86395E-10 |
| Pb | 4.21177E-06 | 2.31827E-06 | 7.46887E-06 | 4.11107E-06 | 2.66858E-10 | 1.46886E-10 | 9.46455E-11 | 5.20955E-11 |
| **Dermal** |  |  |  |  |  |  |  |  |
| Cr | 0.001198165 | 0.000887107 | 0.00856497 | 0.006341402 | 6.16199E-07 | 4.56226E-07 | 8.80968E-07 | 6.52259E-07 |
| Ni | 1.00829E-05 | 6.40124E-06 | 7.2077E-05 | 4.57587E-05 |  |  |  |  |
| Cu | 1.03591E-05 | 7.04915E-06 | 7.40511E-05 | 5.03902E-05 |  |  |  |  |
| As | 0.00014209 | 0.000110156 | 0.030471468 | 0.023623287 | 2.78597E-08 | 2.15985E-08 | 1.19492E-06 | 9.2637E-07 |
| Cd | 0.000541536 | 0.000411985 | 0.003871117 | 0.002945038 | 8.81929E-10 | 6.70947E-10 | 1.26088E-09 | 9.59241E-10 |
| Pb | 0.000288325 | 0.000158702 | 0.002061063 | 0.001134467 | 5.51421E-10 | 3.03518E-10 | 7.88356E-10 | 4.33934E-10 |
|  |  |  |  |  |  |  |  |  |
|  | **Non-Carcinogenic risk HQsoil** | | | | **Carcinogenic risk CRsoil** | | | |
|  | 0.01530564 | 0.01060786 | 0.14483106 | 0.10054596 | 4.7124E-06 | 3.5410E-06 | 8.9108E-06 | 6.6984E-06 |
|  | **Hazard Index** | | | | **Total lifetime cancer risk TCR** | | | |
|  | 0.093886795 | 0.065133177 | 0.900843902 | 0.627219226 | 1.96039E-05 | 1.47231E-05 | 3.72557E-05 | 2.80125E-05 |