**Appendix F.1 - Trace elements detection and upper limit of analysis from** [**Activation Laboratories**](https://actlabs.com/geochemistry/lithogeochemistry-and-whole-rock-analysis/lithogeochemistry/) **(analysis code 4Litho – lithium metaborate/tetraborate fusion coupled with ICP and ICP-MS).**

|  |  |  |
| --- | --- | --- |
| **Element** | **Detection Limit (ppm)** | **Upper Limit (ppm)** |
| Ag | 0.5 | 100 |
| As | 5 | 2000 |
| Ba | 2 | 500000 |
| Be, Sc | 1 | - |
| Bi | 0.4 | 2000 |
| Ce | 0.1 | 3000 |
| Co, Nb, Sn | 1 | 1000 |
| Cr | 20 | 10000 |
| Cs | 0.5 | 10000 |
| Cu | 10 | 10000 |
| Dy, Er, Gd, Ho, Sm, Tb, Tl, U, Yb | 0.1 | 1000 |
| Eu | 0.05 | 1000 |
| Ga, Ge | 1 | 500 |
| Hf | 0.2 | 1000 |
| In | 0.2 | 200 |
| La, Nd, Th | 0.1 | 2000 |
| Lu | 0.001 | 1000 |
| Mo | 2 | 100 |
| Ni | 20 | 10000 |
| Pb, V | 5 | 10000 |
| Pr, Tm | 0.05 | 1000 |
| Rb | 2 | 1000 |
| Sb | 0.5 | 200 |
| Sr, Zr | 2 | 10000 |
| Ta | 0.1 | 500 |
| W | 1 | 5000 |
| Y | 1 | 10000 |
| Zn | 30 | 10000 |

**Appendix F.2 – Trace elements detection and upper limit of analysis from** [**ALS Global**](https://www.alsglobal.com/en/geochemistry/geochemistry-fee-schedules) **(analysis code ME-MS71L – ammonium bi-fluoride decomposition coupled with ICP-MS).**

|  |  |  |
| --- | --- | --- |
| **Element** | **Detection Limit (ppm)** | **Upper Limit (ppm)** |
| Al, Fe | 0.05% | 50% |
| B | 10 | 10000 |
| Ba, Li, V | 1 | 10000 |
| Be | 0.03 | 1000 |
| Ca, Mg | 0.01% | 50% |
| Ce, La, Mo | 0.1 | 10000 |
| Co, Nb, W | 0.2 | 10000 |
| Cs, U, Y | 0.01 | 10000 |
| Cu | 2 | 10000 |
| Dy, Ho | 0.003 | 5000 |
| Er | 0.002 | 5000 |
| Eu, Gd | 0.004 | 5000 |
| Hf | 0.008 | 10000 |
| K | 0.05% | 25% |
| Mn | 0.005% | 50% |
| Na | 0.05% | 10% |
| Nd, Sc | 0.04 | 10000 |
| P | 0.002% | 20% |
| Pb | 0.2 | 10000 |
| Pr | 0.01 | 5000 |
| Rb, Sr, Zr | 0.5 | 10000 |
| Sm | 0.006 | 5000 |
| Sr | 0.4 | 10000 |
| Ta | 0.005 | 10000 |
| Tb, Tm, Yb, Lu | 0.001 | 5000 |
| Th | 0.004 | 10000 |
| Ti | 0.0002% | 20% |