**OAW3**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Mg (ppm)** | **Mn (ppm)** | **Fe (ppm)** | **Sr (ppm)** |
| **Min** | 788 | 0.1 | 2.0 | 250 |
| **Max** | 3226 | 100 | 78 | 1224 |
| **Av** | 2198 | 14.7 | 13.7 | 878 |

**RCK33**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Mg (ppm)** | **Mn (ppm)** | **Fe (ppm)** | **Sr (ppm)** |
| **Min** | 2174 | 0.1 | 0 | 654 |
| **Max** | 4496 | 26.1 | 9.0 | 1244 |
| **Av** | 3326 | 3.1 | 2.1 | 973 |

**RCK35**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Mg (ppm)** | **Mn (ppm)** | **Fe (ppm)** | **Sr (ppm)** |
| **Min** | 1728 | 0 | 3 | 608 |
| **Max** | 7160 | 61 | 34 | 1491 |
| **Av** | 3248 | 8 | 7 | 1020 |

**RCK41**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Mg (ppm)** | **Mn (ppm)** | **Fe (ppm)** | **Sr (ppm)** |
| **Min** | 1737 | 1 | 1 | 649 |
| **Max** | 4457 | 71 | 124 | 1293 |
| **Av** | 2914 | 5 | 7 | 989 |

Fig. S5. Trace element analyses (Mg, Mn, Fe, Sr) were conducted via laser ablation ICP–Mass Spectrometry at the British Geological Survey. The data were normalised to the NIST 610 glass standard and NIST 612 glass. Error was between 0.01 and 6% percentage for all elements excluding Mg which had an error between 15 and 18.3%.