*Table 5:Major elements in (wt %) and trace elements in (ppm) for the Kekem dykes*

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample ID | tb | tc | Ma | M2 | M3 | D10 | D20 | M1 | TA |
| SiO2 | 46.20 | 46.03 | 46.23 | 45.95 | 44.74 | 46.70 | 45.75 | 49.70 | 46.59 |
| Al2O3 | 14.86 | 14.52 | 15.08 | 14.23 | 14.25 | 15.19 | 14.62 | 15.24 | 15.07 |
| Fe2O3 | 10.33 | 10.71 | 10.86 | 11.25 | 10.95 | 11.09 | 13.40 | 12.11 | 11.54 |
| MgO | 9.95 | 10.91 | 9.82 | 12.03 | 9.57 | 9.72 | 8.85 | 7.22 | 9.48 |
| CaO | 9.32 | 8.98 | 9.26 | 8.92 | 9.44 | 10.26 | 8.73 | 9.11 | 9.08 |
| Na2O | 2.62 | 2.41 | 2.25 | 2.29 | 2.37 | 2.51 | 2.21 | 2.13 | 2.58 |
| K2O | 0.94 | 0.98 | 0.87 | 0.57 | 0.49 | 0.99 | 0.76 | 0.35 | 0.83 |
| TiO2 | 1.80 | 1.79 | 1.84 | 1.30 | 1.34 | 2.05 | 2.10 | 1.33 | 1.56 |
| P2O5 | 0.29 | 0.27 | 0.27 | 0.19 | 0.19 | 0.26 | 0.37 | 0.20 | 0.24 |
| MnO | 0.16 | 0.16 | 0.17 | 0.17 | 0.17 | 0.18 | 0.33 | 0.13 | 0.17 |
| Cr2O3 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 | 0.06 | 0.06 | 0.05 | 0.03 |
| LOI | 3.34 | 2.53 | 2.81 | 2.79 | 3.37 | 3.41 | 2.57 | 1.57 | 2.60 |
| Total | 99.87 | 99.35 | 99.52 | 99.74 | 96.93 | 102.42 | 99.74 | 99.14 | 99.76 |
|  |  |  |  |  |  |  |  |  |  |
| Cs | 0.10 | 0.21 | 1.00 | 0.20 | 0.14 | 3.95 |  |  |  |
| Ba | 301 | 270 | 269 | 172 | 172 | 212 | 354 | 273 | 884 |
| Rb | 11 | 12 | 25 | 7 | 6 | 24 | 25 | 15 | 279 |
| Th | 1.90 | 1.70 | 1.90 | 1.30 | 1.10 | 2.20 |  |  |  |
| Sr | 408 | 399 | 409 | 294 | 303 | 384 | 532 | 330 | 661 |
| Ta | 0.46 | 0.34 | 0.39 | 0.11 | 0.06 | 0.51 |  |  |  |
| Sn | 0.80 | 0.70 | 0.80 | 0.70 | 0.50 | 1.20 |  |  |  |
| Nb | 13 | 12 | 15 | 9 | 9 | 16 | 19 | 6 | 37 |
| Zr | 156 | 149 | 157 | 84 | 86 | 155 | 181 | 86 | 381 |
| Y | 23 | 21 | 23 | 20 | 21 | 24 | 16 | 10 | 65 |
| Co | 50 | 50 | 54 | 63 | 57 | 57 |  |  |  |
| Cr | 410 | 410 | 410 | 342 | 342 | 410 | 379 | 328 | 190 |
| Cu | 53 | 51 | 65 | 70 | 67 | 68 |  |  |  |
| Ga | 18.20 | 17.30 | 18.30 | 16.90 | 17.10 | 19.60 |  |  |  |
| Hf | 3.64 | 3.55 | 3.62 | 2.36 | 2.33 | 3.79 |  |  |  |
| Ni | 144 | 165 | 189 | 234 | 197 | 182 | 154 | 170 | 15 |
| V | 170 | 168 | 161 | 148 | 180 | 233 |  |  |  |
| W | 1.10 | 1.10 | 0.90 | 1.10 | 1.90 | 1.20 |  |  |  |
| Zn | 95 | 91 | 87 | 92 | 89 | 96 |  |  |  |
| U | 0.44 | 0.40 | 0.48 | 0.30 | 0.31 | 0.57 |  |  |  |
| La | 21.40 | 19.20 | 24.50 | 16.80 | 15.70 | 25.30 |  |  |  |
| Ce | 40.30 | 38.00 | 43.10 | 26.50 | 25.90 | 41.70 |  |  |  |
| Pr | 5.19 | 4.83 | 5.52 | 3.41 | 3.36 | 5.21 |  |  |  |
| Nd | 20.80 | 19.40 | 21.80 | 13.90 | 13.80 | 20.90 |  |  |  |
| Sm | 4.80 | 4.60 | 5.00 | 3.60 | 3.40 | 5.00 |  |  |  |
| Eu | 1.56 | 1.48 | 1.60 | 1.20 | 1.18 | 1.59 |  |  |  |
| Gd | 4.97 | 4.53 | 4.93 | 3.96 | 3.91 | 5.29 |  |  |  |
| Tb | 0.76 | 0.70 | 0.75 | 0.62 | 0.65 | 0.82 |  |  |  |
| Dy | 4.48 | 4.34 | 4.54 | 3.90 | 3.95 | 4.85 |  |  |  |
| Ho | 0.91 | 0.85 | 0.88 | 0.80 | 0.82 | 0.95 |  |  |  |
| Er | 2.48 | 2.30 | 2.41 | 2.28 | 2.21 | 2.59 |  |  |  |
| Tm | 0.35 | 0.34 | 0.35 | 0.37 | 0.34 | 0.35 |  |  |  |
| Yb | 2.20 | 2.00 | 2.10 | 2.00 | 2.00 | 2.10 |  |  |  |
| Lu | 0.32 | 0.30 | 0.31 | 0.30 | 0.30 | 0.32 |  |  |  |