附表2 底砾岩及部分花岗岩全岩地球化学成分(主量元素，%；微量元素，ug/g)，S-01-2为S-01重复样

Table S2. Whole rock geochemistry of two basal conglomerate samples and six granite samples (Major elements, %; Trace elements, ug/g). S-01-2 is duplicate of S-01.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Sample | Id-01 | Id-04 | Id-06 | Id-17 | Id-25 | Id-26 | S-01 | S-01-2 | S-02 |
| SiO2 | 74.18 | 74.25 | 63.55 | 76.09 | 75.57 | 76.29 | 71.21 | 71.32 | 68.65 |
| TiO2 | 0.34 | 0.12 | 0.95 | 0.11 | 0.06 | 0.14 | 0.34 | 0.34 | 0.30 |
| Al2O3 | 11.94 | 13.48 | 15.49 | 12.33 | 12.85 | 13.73 | 14.03 | 14.08 | 13.45 |
| Fe2O3 | 2.48 | 1.45 | 4.7 | 1.14 | 1.16 | 0.87 | 1.27 | 1.27 | 1.72 |
| MnO | 0.05 | 0.04 | 0.08 | 0.05 | 0.04 | 0.01 | 0.03 | 0.03 | 0.05 |
| MgO | 0.59 | 0.26 | 2.25 | 0.11 | 0.04 | 0.04 | 0.36 | 0.38 | 0.45 |
| CaO | 1.7 | 0.66 | 4.98 | 0.88 | 0.86 | 0.05 | 1.92 | 1.93 | 3.49 |
| Na2O | 2.36 | 2.82 | 3.41 | 2.53 | 3.09 | 3.69 | 2.01 | 1.99 | 2.06 |
| K2O | 4.24 | 5.62 | 2.74 | 4.77 | 5.22 | 3.81 | 4.95 | 4.95 | 4.87 |
| P2O5 | 0.14 | 0.02 | 0.22 | 0.02 | 0.01 | 0.02 | 0.08 | 0.08 | 0.07 |
| LOI | 1.56 | 0.92 | 1.28 | 1.62 | 0.72 | 1.02 | 3.35 | 3.36 | 4.39 |
| SUM | 99.58 | 99.64 | 99.65 | 99.65 | 99.62 | 99.67 | 99.55 | 99.73 | 99.49 |
| Be | 3.24  | 9.09  | 2.21  | 6.77  | 4.51  | 7.11  | 1.54 | 1.49 | 1.65 |
| Sc | 6.43  | 5.50  | 16.30  | 5.70  | 2.94  | 2.34  | 6.46 | 6.32 | 5.80 |
| V | 22.34  | 7.92  | 128.45  | 6.45  | 2.22  | 2.01  | 21.4 | 21.2 | 20.6 |
| Cr | 7.97  | 5.79  | 18.72  | 11.53  | 6.27  | 4.69  | 4.76 | 4.58 | 3.52 |
| Co | 95.93  | 82.14  | 61.73  | 157.94  | 93.11  | 87.69  | 2.82 | 2.79 | 3.31 |
| Ni | 2.86  | 2.44  | 7.18  | 3.36  | 2.22  | 1.90  | 2.93 | 2.72 | 2.60 |
| Cu | 3.61  | 1.53  | 12.44  | 1.32  | 0.81  | 3.86  | 7.95 | 7.95 | 5.00 |
| Zn | 34.73  | 24.04  | 51.66  | 18.63  | 15.32  | 14.34  | 28.1 | 29.2 | 37.3 |
| Ga | 18.22  | 17.61  | 18.75  | 16.74  | 17.24  | 22.77  | 12.6 | 12.6 | 13.3 |
| Rb | 271.86  | 415.90  | 104.77  | 383.83  | 341.63  | 461.32  | 221 | 222 | 201 |
| Sr | 75.90  | 69.38  | 423.90  | 34.77  | 41.70  | 35.62  | 111 | 111 | 122 |
| Y | 31.80  | 63.65  | 29.68  | 71.57  | 40.12  | 40.92  | 54.7 | 54.6 | 19.6 |
| Zr | 175.00  | 123.23  | 175.84  | 102.53  | 90.80  | 187.36  | 210 | 205 | 160 |
| Nb | 20.43  | 22.72  | 16.06  | 19.24  | 14.77  | 77.71  | 15.0 | 14.9 | 12.7 |
| Cs | 7.36  | 20.58  | 9.41  | 18.79  | 7.02  | 5.58  | 13.6 | 13.6 | 8.20 |
| Ba | 336.31  | 198.52  | 535.36  | 91.49  | 93.85  | 55.40  | 796 | 800 | 775 |
| La | 48.57  | 18.61  | 37.05  | 20.86  | 15.87  | 80.37  | 14.5 | 14.4 | 19.4 |
| Ce | 103.90  | 38.07  | 76.91  | 41.91  | 32.68  | 139.11  | 27.8 | 27.6 | 55.1 |
| Pr | 11.48  | 5.01  | 8.77  | 5.46  | 4.34  | 13.05  | 3.38 | 3.33 | 5.16 |
| Nd | 40.06  | 18.99  | 31.76  | 20.08  | 15.92  | 37.82  | 14.1 | 14.3 | 19.2 |
| Sm | 8.17  | 5.79  | 6.30  | 6.02  | 4.42  | 6.10  | 3.51 | 3.38 | 4.07 |
| Eu | 0.86  | 0.48  | 1.35  | 0.34  | 0.32  | 0.23  | 0.79 | 0.81 | 0.88 |
| Gd | 7.00  | 6.25  | 5.81  | 6.55  | 4.30  | 5.94  | 3.92 | 3.94 | 3.79 |
| Tb | 1.10  | 1.46  | 1.00  | 1.56  | 0.90  | 1.01  | 0.66 | 0.66 | 0.60 |
| Dy | 5.44  | 9.02  | 5.16  | 9.67  | 5.25  | 5.66  | 4.30 | 4.31 | 3.48 |
| Ho | 0.97  | 1.94  | 1.01  | 2.12  | 1.13  | 1.23  | 0.99 | 1.03 | 0.67 |
| Er | 2.80  | 6.11  | 2.95  | 6.70  | 3.41  | 3.98  | 3.81 | 3.84 | 2.05 |
| Tm | 0.45  | 1.07  | 0.44  | 1.22  | 0.61  | 0.69  | 0.79 | 0.79 | 0.31 |
| Yb | 3.03  | 6.96  | 2.77  | 8.44  | 4.03  | 4.63  | 5.01 | 5.03 | 2.12 |
| Lu | 0.46  | 1.13  | 0.44  | 1.38  | 0.65  | 0.71  | 0.84 | 0.83 | 0.31 |
| Hf | 5.05  | 4.34  | 5.09  | 4.45  | 3.52  | 6.80  | 6.01 | 5.98 | 4.79 |
| Ta | 2.30  | 4.79  | 1.65  | 6.19  | 2.49  | 9.48  | 1.33 | 1.34 | 1.17 |
| Pb | 33.09  | 52.67  | 36.64  | 46.65  | 42.14  | 9.00  | 26.7 | 26.7 | 29.8 |
| Th | 31.62  | 29.12  | 19.23  | 30.22  | 38.00  | 72.20  | 26.9 | 27.0 | 26.1 |
| U | 8.23  | 13.58  | 4.58  | 14.45  | 11.71  | 12.12  | 2.71 | 2.70 | 2.89 |

花岗岩数据来源于本团队先前工作