

803.666

GEOLOGICAL SURVEY OF CANADA
MINERAL RESOURCES DIVISION
ANALYTICAL CHEMISTRY SECTION

Newhawk
Property

RVK 1990 Samples

* REPORT OF ANALYSIS *

DATE: 23-DEC-91
REPORT NO. 21-91
SUBMITTED BY: R.V.KIRKHAM
PROJECT NO. 700059
METHOD: WDS-17 + ICP-MJ1 , ICP-TR1 , Ag & Pb by AA.
FeO , H2O(t) , CO2 , C , S(t) and LOI by chemical methods.

ESTIMATE OF VALIDITY OF RESULTS

| ELEMENT | +/- | (ABSOLUTE | + | RELATIVE) |
|----------|-----|------------|---|----------------|
| SiO2 | +/- | (0.4 % | + | 1% OF CONC.) |
| TiO2 | | 0.02 | + | " |
| Al2O3 | | 0.4 | + | " |
| Fe2O3(t) | | 0.1 | + | " |
| MnO | | 0.01 | + | 2% " |
| MgO | | 0.1 | + | 1% " |
| CaO | | 0.1 | + | " |
| Na2O | | 0.5 | + | " |
| K2O | | 0.05 | + | " |
| FeO | | 0.2 | + | 5% OF CONC. |
| H2O(t) | | 0.1 | + | 5% OF CONC. |
| CO2 | | 0.1 | + | 3% OF CONC. |
| P2O5 | | 0.02 | + | 1% OF CONC. |
| S(t) | | 0.04 | + | 5% OF CONC. |
| Ba | +/- | (20 PPM | + | 10% OF CONC.) |
| Be | +/- | (0.5 PPM | + | 5% OF CONC.) |
| Co | +/- | (5 PPM | + | 5% OF CONC.) |
| Cr | +/- | (10 PPM | + | 5% OF CONC.) |
| Cu | +/- | (10 PPM | + | 5% OF CONC.) |
| La | +/- | (10 PPM | + | 5% OF CONC.) |
| Nb | +/- | (30 PPM | + | 10% OF CONC.) |
| Ni | +/- | (10 PPM | + | 5% OF CONC.) |
| Pb | +/- | (20 PPM | + | 10% OF CONC.) |
| Rb | +/- | (20 PPM | + | 2% OF CONC.) |
| Sc | +/- | (0.5 PPM | + | 5% OF CONC.) |
| Sr | +/- | (20 PPM | + | 10% OF CONC.) |
| V | +/- | (5 PPM | + | 5% OF CONC.) |
| Y | +/- | (5 PPM | + | 5% OF CONC.) |
| Yb | +/- | (0.5 PPM | + | 5% OF CONC.) |
| Zn | +/- | (5 PPM | + | 5% OF CONC.) |
| Zr | +/- | (20 PPM | + | 10% OF CONC.) |

VERIFIED.....*RL Louff*.....

REPORT OF ANALYSIS

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

| LAB. NO. | 1 104B-909 500 | 2 104B-909 501 | 3 104B-909 502 | 4 104B-909 503 | 5 104B-909 504 | 6 104B-909 517 | 7 104B-909 518 | 8 104B-909 519 |
|------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| SIO2 % : | 59.4 | 59.9 | 64.6 | 64.4 | 66.6 | 62.5 | 84.6 | 88.6 |
| TIO2 % : | 1.01 | 0.82 | 0.45 | 0.40 | 0.58 | 0.63 | 0.23 | 0.73 |
| AL2O3 % : | 12.8 | 15.5 | 13.9 | 14.9 | 14.5 | 17.5 | 6.60 | 3.40 |
| FE2O3t % : | 7.50 | 7.10 | 6.20 | 6.60 | 3.80 | 7.30 | 3.80 | 0.50 |
| FE2O3 % : | 3.9 | | 2.3 | 2.8 | | | 2.1 | 0.1 |
| FEO % : | 3.2 | | 3.5 | 3.4 | | | 1.5 | 0.4 |
| MNO % : | 0.13 | 0.04 | 0.05 | 0.06 | 0.04 | 0.00 | 0.01 | 0.00 |
| MGO % : | 6.44 | 2.14 | 1.60 | 2.15 | 1.30 | 0.51 | 0.51 | 0.18 |
| CAO % : | 4.13 | 1.29 | 1.28 | 0.73 | 0.76 | 0.39 | 0.0 | 0.0 |
| NA2O % : | 2.50 | 3.00 | 1.40 | 2.20 | 0.50 | 0.40 | 0.10 | 0.00 |
| K2O % : | 1.79 | 5.35 | 7.41 | 6.18 | 8.91 | 3.86 | 2.13 | 0.92 |
| H2Ot % : | 3.2 | | 1.7 | 1.9 | | | 1.5 | 0.7 |
| CO2t % : | 1.5 | 2.0 | 0.7 | 0.1 | 0.5 | 0.1 | 0.1 | 0.1 |
| CO2= % : | | | | | | | | |
| C % : | | | | | | | | |
| P2O5 % : | 0.26 | 0.21 | 0.22 | 0.26 | 0.14 | 0.47 | 0.18 | 0.06 |
| St % : | 0.00 | 2.34 | 0.46 | 0.09 | 1.69 | 4.40 | 0.40 | 0.62 |
| Ba ppm : | 730 | 1800 | 2700 | 4100 | 2400 | 4300 | 1300 | 23000 |
| Ag ppm : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Be ppm : | 5.6 | 1.4 | 0.9 | 1.3 | 1.6 | 1.3 | 1.1 | 0.2 |
| Co ppm : | 34 | 24 | 9 | 14 | 14 | 10 | 1 | 3 |
| Cr ppm : | 400 | 92 | 11 | 7 | 40 | 5 | 3 | 1 |
| Cu ppm : | 50 | 4500 | 4900 | 1700 | 880 | 36 | 7 | 6 |
| La ppm : | 35 | 21 | 16 | 25 | 26 | 25 | 16 | 13 |
| Nb ppm : | 18 | 0 | 0 | 0 | 0 | 0 | 5 | 0 |
| Ni ppm : | 280 | 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pb ppm : | 21 | 11 | 18 | 4 | 8 | 12 | 36 | 26 |
| Rb ppm : | 120 | 120 | 120 | 130 | 200 | 90 | 94 | 26 |
| Sc ppm : | 15 | 12 | 12 | 17 | 8.8 | 27 | 11 | 3.1 |
| Sr ppm : | 460 | 230 | 260 | 240 | 140 | 100 | 22 | 1000 |
| V ppm : | 110 | 180 | 190 | 190 | 100 | 180 | 110 | 80 |
| Y ppm : | 37 | 15 | 7 | 10 | 8 | 12 | 2 | 2 |
| Yb ppm : | 3.6 | 1.7 | 0.6 | 1.1 | 1.2 | 1.2 | 0.2 | 0.3 |
| Zn ppm : | 130 | 35 | 42 | 40 | 28 | 19 | 25 | 0 |
| Zr ppm : | 180 | 250 | 55 | 58 | 180 | 66 | 32 | 43 |
| TOTALS | 100.6 | 100.4 | 100.4 | 100.2 | 99.7 | 98.5 | 100.2 | 98.1 |

COMMENTS:

- * ALL ANALYSES BY XRF AND/OR ICP EXCEPT FEO, H2OT, CO2T, CO2, C, S AND LOI BY CHEMICAL METHODS.
- * FE2O3 IS CALCULATED USING $FE2O3 = FE2O3T(ICP) - 1.11134 * FEO(VOLUMETRIC)$.
- * ICP-MJ1 DATA ARE OBTAINED ON 0.5 G OF SAMPLE FUSED WITH LITHIUM METABORATE, DISSOLVED IN 5% HNO3 AND DILUTED TO 250 ML.
- * ICP-TR1 DATA ARE OBTAINED ON 1.0 G OF SAMPLE (ACID + FUSION OF RESIDUE) DISSOLVED IN 10% HCL AND DILUTED TO 100 ML.

REPORT OF ANALYSIS

*Qz(mo)
vein*

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

| LAB. NO. | <i>KR-90- 9143</i> | <i>144A</i> | <i>144B</i> | <i>144C</i> | <i>144D</i> | <i>KR-90 145A</i> | <i>145B</i> | <i>145C</i> |
|----------------------|------------------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-----------------|-----------------|
| SAMPLE NO: | 104B-909 520 | 104B-909 521 | 104B-909 522 | 104B-909 523 | 104B-909 524 | 104B-909 525 | 104B-909 526 | 104B-909 527 |
| | 10 | 11 | 12 | 13 | 14 | 15 | 16 | |
| SIO2 % : | 52.9 | 60.0 | 54.1 | 57.8 | 50.3 | 87.1 | 66.3 | 57.3 |
| TIO2 % : | 0.55 | 0.38 | 0.58 | 0.53 | 0.53 | 0.26 | 0.41 | 0.41 |
| AL2O3 % : | 15.2 | 17.4 | 16.1 | 14.4 | 14.7 | 2.10 | 15.5 | 17.4 |
| FE2O3t % : | 6.30 | 4.40 | 7.20 | 4.90 | 10.0 | 5.50 | 3.50 | 5.60 |
| FE2O3 % : | 3.4 | 1.7 | 1.6 | 0.1 | | | | 0.6 |
| FEO % : | 2.6 | 2.4 | 5.0 | 4.3 | | | | 4.5 |
| MNO % : | 0.24 | 0.10 | 0.07 | 0.10 | 0.12 | 0.00 | 0.00 | 0.39 |
| MGO % : | 2.25 | 1.22 | 3.83 | 3.12 | 3.66 | 0.28 | 1.12 | 1.97 |
| CAO % : | 8.79 | 2.58 | 2.81 | 4.23 | 3.73 | 0.03 | 0.06 | 3.45 |
| NA2O % : | 2.50 | 4.20 | 2.90 | 2.20 | 2.60 | 0.10 | 0.50 | 1.90 |
| K2O % : | 2.52 | 6.47 | 5.42 | 6.20 | 5.01 | 0.62 | 9.90 | 5.94 |
| H2O _t % : | 2.7 | 1.4 | 2.8 | 2.0 | | | | 2.8 |
| CO2 _t % : | 6.7 | 1.6 | 1.8 | 3.1 | 2.7 | 0.1 | 0.0 | 2.6 |
| CO2= C % : | | | | | | | | |
| P2O5 % : | 0.26 | 0.23 | 0.32 | 0.27 | 0.31 | 0.14 | 0.12 | 0.38 |
| St % : | 0.00 | 0.12 | 0.91 | 0.59 | 3.79 | 3.04 | 1.86 | 0.69 |
| Ba ppm : | 1100 | 4600 | 2500 | 3500 | 11000 | 160 | 2200 | 4100 |
| Ag ppm : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Be ppm : | 1.0 | 1.3 | 0.7 | 0.5 | 0.7 | 0.3 | 0.7 | 1.4 |
| Co ppm : | 10 | 7 | 37 | 19 | 64 | 37 | 28 | 13 |
| Cr ppm : | 3 | 5 | 34 | 43 | 140 | 10 | 31 | 14 |
| Cu ppm : | 4 | 360 | 5400 | 610 | 1700 | 11000 | 2800 | 270 |
| La ppm : | 20 | 26 | 21 | 20 | 15 | 130 | 24 | 15 |
| Nb ppm : | 1 | 0 | 4 | 0 | 0 | 22 | 0 | 0 |
| Ni ppm : | 0 | 0 | 0 | 0 | 0 | 17 | 0 | 0 |
| Pb ppm : | 8 | 5 | 2 | 4 | 5 | 130 | 9 | 22 |
| Rb ppm : | 78 | 110 | 110 | 110 | 95 | 22 | 230 | 180 |
| Sc ppm : | 11 | 8.5 | 24 | 18 | 28 | 4.2 | 8.5 | 22 |
| Sr ppm : | 230 | 550 | 200 | 280 | 620 | 18 | 85 | 220 |
| V ppm : | 87 | 130 | 170 | 130 | 180 | 71 | 96 | 160 |
| Y ppm : | 16 | 16 | 14 | 11 | 12 | 49 | 8 | 8 |
| Yb ppm : | 1.6 | 1.5 | 1.4 | 1.1 | 1.2 | 4.2 | 0.9 | 0.9 |
| Zn ppm : | 78 | 13 | 36 | 36 | 55 | 25 | 8 | 73 |
| Zr ppm : | 67 | 75 | 160 | 44 | 15 | 0 | 99 | 33 |
| TOTALS | 100.8 | 100.4 | 99.1 | 99.4 | 98.8 | 100.4 | 99.8 | 100.8 |

COMMENTS:

REPORT OF ANALYSIS

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

| LAB. NO. | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| SAMPLE NO: | 104B-909 528 | 104B-909 529 | 104B-909 530 | 104B-909 531 | 104B-909 532 | 104B-909 533 | 104B-909 534 | 104B-909 535 |
| <i>KQ-90 145D</i> | | | | | | | | |
| <i>145E</i> | | | | | | | | |
| <i>145F</i> | | | | | | | | |
| <i>145G</i> | | | | | | | | |
| <i>145H</i> | | | | | | | | |
| <i>145I</i> | | | | | | | | |
| <i>146A</i> | | | | | | | | |
| <i>146B</i> | | | | | | | | |
| SIO2 % : | 65.2 | 70.3 | 70.1 | 59.9 | 57.1 | 53.9 | 46.0 | 59.3 |
| TIO2 % : | 0.37 | 0.25 | 0.28 | 0.43 | 0.43 | 0.46 | 0.50 | 0.82 |
| AL2O3 % : | 14.1 | 13.3 | 14.2 | 17.1 | 16.6 | 15.9 | 14.9 | 20.5 |
| FE2O3t % : | 5.10 | 5.70 | 4.00 | 6.50 | 5.30 | 7.80 | 6.90 | 2.70 |
| FE2O3 % : | | | | | | | | 0.3 |
| FEO % : | | | | | | | | 2.2 |
| MNO % : | 0.29 | 0.05 | 0.01 | 0.05 | 0.18 | 0.10 | 0.53 | 0.05 |
| MGO % : | 1.48 | 1.15 | 0.60 | 2.50 | 1.69 | 2.50 | 4.13 | 2.20 |
| CAO % : | 1.88 | 0.21 | 0.0 | 0.55 | 3.51 | 3.68 | 9.38 | 1.11 |
| NA2O % : | 0.30 | 1.60 | 2.10 | 3.30 | 2.30 | 2.80 | 2.60 | 4.10 |
| K2O % : | 7.25 | 5.28 | 5.89 | 5.20 | 6.11 | 5.52 | 2.42 | 5.60 |
| H2O _t % : | | | | | | | | 2.5 |
| CO2 _t % : | 1.4 | 0.1 | 0.0 | 0.1 | 2.4 | 2.5 | | 0.6 |
| CO2= % : | | | | | | | 7.6 | |
| C % : | | | | | | | 1.2 | |
| P2O5 % : | 0.14 | 0.11 | 0.06 | 0.28 | 0.27 | 0.33 | 0.41 | 0.29 |
| St % : | 1.66 | 1.82 | 2.78 | 3.04 | 3.03 | 3.53 | 2.15 | 0.06 |
| Ba ppm : | 2500 | 1300 | 1600 | 4500 | 4600 | 5500 | 760 | 1700 |
| Ag ppm : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Be ppm : | 1.1 | 0.8 | 0.8 | 1.3 | 1.2 | 1.1 | 1.3 | 1.8 |
| Co ppm : | 11 | 12 | 8 | 17 | 10 | 29 | 28 | 19 |
| Cr ppm : | 65 | 22 | 22 | 15 | 12 | 11 | 28 | 54 |
| Cu ppm : | 4000 | 1600 | 14 | 140 | 150 | 160 | 170 | 43 |
| La ppm : | 20 | 18 | 16 | 21 | 19 | 18 | 29 | 28 |
| Nb ppm : | 0 | 8 | 0 | 0 | 0 | 0 | 5 | 0 |
| Ni ppm : | 0 | 0 | 0 | 0 | 0 | 0 | 37 | 10 |
| Pb ppm : | 30 | 13 | 14 | 12 | 18 | 17 | 16 | 3 |
| Rb ppm : | 170 | 150 | 150 | 140 | 170 | 140 | 72 | 150 |
| Sc ppm : | 8.0 | 5.6 | 7.1 | 18 | 16 | 19 | 16 | 13 |
| Sr ppm : | 140 | 66 | 83 | 200 | 250 | 270 | 410 | 560 |
| V ppm : | 91 | 55 | 56 | 150 | 130 | 180 | 140 | 130 |
| Y ppm : | 14 | 6 | 5 | 11 | 11 | 11 | 22 | 15 |
| Yb ppm : | 1.3 | 0.5 | 0.5 | 1.4 | 1.2 | 0.9 | 2.2 | 1.7 |
| Zn ppm : | 91 | 79 | 24 | 62 | 77 | 45 | 35 | 24 |
| Zr ppm : | 63 | 170 | 67 | 66 | 68 | 51 | 79 | 150 |
| TOTALS | 99.9 | 100.2 | 100.2 | 99.5 | 99.5 | 99.7 | 98.9 | 99.9 |

COMMENTS:

REPORT OF ANALYSIS

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

| LAB. NO. | 147A | 148A | 148B | 148C | 149A | 149B | 150A | 150B |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| SAMPLE NO: | 104B-909 537 | 104B-909 538 | 104B-909 539 | 104B-909 540 | 104B-909 541 | 104B-909 542 | 104B-909 543 | 104B-909 544 |
| SIO2 % : | 59.4 | 57.2 | 58.8 | 60.0 | 58.1 | 58.2 | 53.7 | 62.4 |
| TIO2 % : | 0.39 | 0.52 | 0.43 | 0.35 | 0.36 | 0.37 | 0.69 | 0.55 |
| AL2O3 % : | 16.7 | 16.6 | 16.3 | 15.4 | 15.8 | 16.2 | 17.8 | 15.1 |
| FE2O3t % : | 6.50 | 5.90 | 5.20 | 5.60 | 5.60 | 6.00 | 8.20 | 5.00 |
| FE2O3 % : | 1.7 | 0.9 | 1.9 | | 0.5 | 0.8 | | |
| FEO % : | 4.3 | 4.5 | 3.0 | | 4.6 | 4.7 | | |
| MNO % : | 0.14 | 0.15 | 0.11 | 0.12 | 0.13 | 0.11 | 0.16 | 0.09 |
| MGO % : | 2.86 | 2.42 | 1.80 | 1.94 | 2.72 | 3.09 | 3.87 | 2.47 |
| CAO % : | 2.81 | 5.48 | 5.34 | 3.52 | 4.18 | 3.36 | 2.39 | 2.56 |
| NA2O % : | 3.00 | 2.60 | 0.60 | 0.20 | 4.50 | 4.40 | 2.20 | 4.40 |
| K2O % : | 4.64 | 3.10 | 4.43 | 4.92 | 3.25 | 3.28 | 4.53 | 3.66 |
| H2O _t % : | 2.1 | 3.1 | 2.9 | | 2.3 | 2.4 | | |
| CO2 _t % : | 0.7 | 3.5 | 3.6 | 4.0 | 2.6 | 2.4 | 0.7 | 0.9 |
| CO2= % : | | | | | | | | |
| C % : | | | | | | | | |
| P2O5 % : | 0.25 | 0.47 | 0.43 | 0.23 | 0.24 | 0.24 | 0.30 | 0.17 |
| St % : | 0.13 | 0.09 | 0.69 | 2.37 | 0.25 | 0.33 | 4.11 | 1.25 |
| Ba ppm : | 6000 | 1800 | 2200 | 2100 | 3800 | 4100 | 920 | 880 |
| Ag ppm : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Be ppm : | 1.2 | 0.7 | 1.0 | 1.3 | 1.0 | 1.1 | 1.8 | 1.0 |
| Co ppm : | 23 | 8 | 14 | 12 | 16 | 19 | 28 | 20 |
| Cr ppm : | 43 | 23 | 23 | 35 | 37 | 39 | 58 | 46 |
| Cu ppm : | 14 | 260 | 310 | 28 | 31 | 42 | 160 | 720 |
| La ppm : | 18 | 18 | 18 | 14 | 16 | 17 | 32 | 21 |
| Nb ppm : | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 0 |
| Ni ppm : | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 3 |
| Pb ppm : | 2 | 0 | 0 | 19 | 0 | 2 | 3 | 4 |
| Rb ppm : | 90 | 87 | 110 | 160 | 64 | 69 | 180 | 90 |
| Sc ppm : | 18 | 21 | 21 | 16 | 17 | 17 | 17 | 10 |
| Sr ppm : | 890 | 240 | 160 | 130 | 580 | 570 | 95 | 450 |
| V ppm : | 140 | 190 | 180 | 120 | 130 | 130 | 130 | 99 |
| Y ppm : | 13 | 11 | 11 | 8 | 9 | 8 | 20 | 11 |
| Yb ppm : | 1.2 | 1.1 | 1.1 | 0.8 | 0.9 | 0.9 | 1.8 | 1.2 |
| Zn ppm : | 52 | 89 | 76 | 69 | 43 | 39 | 110 | 67 |
| Zr ppm : | 35 | 42 | 39 | 44 | 36 | 38 | 110 | 130 |
| TOTALS | 99.9 | 100.9 | 100.6 | 98.9 | 100.0 | 100.4 | 98.8 | 98.8 |

COMMENTS:

REPORT OF ANALYSIS

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

| LAB. NO. | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| SAMPLE NO: | 104B-909 545 | 104B-909 546 | 104B-909 547 | 104B-909 548 | 104B-909 549 | 104B-909 550 | 104B-909 551 | 104B-909 552 |
| <i>KQ-90-151A</i> | | <i>151B</i> | <i>152</i> | <i>153A</i> | <i>154A</i> | <i>154B</i> | <i>154C</i> | <i>KQ-90-154D</i> |
| SIO2 % : | 55.0 | 46.3 | 64.7 | 54.3 | 56.5 | 57.6 | 56.4 | 56.9 |
| TIO2 % : | 0.72 | 0.72 | 0.49 | 0.80 | 0.66 | 0.58 | 0.63 | 0.63 |
| AL2O3 % : | 16.6 | 14.3 | 16.0 | 18.8 | 17.8 | 17.7 | 17.1 | 17.2 |
| FE2O3t % : | 8.20 | 11.2 | 4.10 | 7.60 | 6.20 | 5.60 | 6.90 | 6.40 |
| FE2O3 % : | | | 0.5 | 1.0 | 1.6 | 0.8 | 1.7 | 1.6 |
| FEO % : | | | 3.2 | 5.9 | 4.1 | 4.3 | 4.7 | 4.3 |
| MNO % : | 0.20 | 0.30 | 0.10 | 0.12 | 0.12 | 0.12 | 0.14 | 0.11 |
| MGO % : | 1.83 | 5.23 | 1.66 | 4.07 | 2.52 | 2.91 | 2.44 | 2.62 |
| CAO % : | 3.75 | 7.31 | 1.33 | 3.42 | 3.41 | 5.16 | 5.46 | 5.45 |
| NA2O % : | 5.80 | 3.88 | 2.20 | 3.10 | 3.70 | 4.60 | 3.50 | 4.00 |
| K2O % : | 2.93 | 2.46 | 6.15 | 3.89 | 4.76 | 3.36 | 4.00 | 3.62 |
| H2O _t % : | | | 2.1 | 3.2 | 2.5 | 2.3 | 1.9 | 2.1 |
| CO2 _t % : | 1.9 | 2.1 | 0.6 | 0.1 | 0.9 | 0.3 | 1.4 | 0.8 |
| CO2= % : | | | | | | | | |
| C % : | | | | | | | | |
| P2O5 % : | 0.31 | 0.32 | 0.21 | 0.45 | 0.33 | 0.30 | 0.32 | 0.31 |
| St % : | 1.20 | 5.62 | 0.27 | 0.78 | 0.06 | 0.03 | 0.63 | 0.63 |
| Ba ppm : | 1400 | 2400 | 3700 | 1800 | 3400 | 2400 | 2900 | 3000 |
| Ag ppm : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Be ppm : | 1.2 | 0.9 | 1.3 | 1.5 | 1.6 | 1.8 | 1.6 | 1.5 |
| Co ppm : | 18 | 48 | 11 | 19 | 12 | 11 | 16 | 12 |
| Cr ppm : | 7 | 30 | 4 | 21 | 10 | 9 | 9 | 9 |
| Cu ppm : | 500 | 140 | 13 | 70 | 270 | 32 | 45 | 90 |
| La ppm : | 25 | 14 | 28 | 19 | 24 | 24 | 26 | 26 |
| Nb ppm : | 5 | | 0 | 0 | 0 | 0 | 0 | 0 |
| Ni ppm : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Pb ppm : | 4 | 6 | 24 | 45 | 2 | 22 | 24 | 13 |
| Rb ppm : | 72 | | 170 | 97 | 130 | 61 | 88 | 69 |
| Sc ppm : | 11 | 33 | 8.3 | 17 | 18 | 16 | 18 | 17 |
| Sr ppm : | 570 | 500 | 190 | 730 | 720 | 410 | 680 | 760 |
| V ppm : | 110 | 250 | 73 | 190 | 170 | 150 | 170 | 160 |
| Y ppm : | 28 | 18 | 15 | 16 | 20 | 19 | 19 | 19 |
| Yb ppm : | 2.8 | 1.7 | 1.8 | 1.5 | 2.1 | 1.9 | 1.9 | 2.0 |
| Zn ppm : | 160 | 93 | 310 | 140 | 47 | 53 | 57 | 32 |
| Zr ppm : | 130 | 45 | 110 | 59 | 94 | 93 | 89 | 90 |
| TOTALS | 98.7 | 100.1 | 100.0 | 100.3 | 99.5 | 100.4 | 100.7 | 100.7 |

COMMENTS:

REPORT OF ANALYSIS

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

| LAB. NO. | KQ-90-154E 41 | 155A 42 | 155B 43 | 156A 44 | 156B 45 | 157A 46 | 157B 47 | KQ-90-157C 48 |
|------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|
| SAMPLE NO: | 104B-909 553 | 104B-909 554 | 104B-909 555 | 104B-909 556 | 104B-909 557 | 104B-909 558 | 104B-909 559 | 104B-909 560 |
| SIO2 % : | 56.2 | 54.4 | 57.6 | 59.7 | 62.6 | 52.8 | 81.1 | 83.3 |
| TIO2 % : | 0.60 | 0.58 | 0.62 | 0.60 | 0.62 | 0.17 | 0.38 | 0.24 |
| AL2O3 % : | 17.0 | 15.0 | 15.6 | 16.7 | 18.1 | 4.67 | 10.6 | 6.60 |
| FE2O3t % : | 5.80 | 7.70 | 6.90 | 5.60 | 6.70 | 1.64 | 1.80 | 3.60 |
| FE2O3 % : | 1.4 | | | 4.7 | 5.7 | | | |
| FEO % : | 4.0 | | | 0.8 | 0.9 | | | |
| MNO % : | 0.10 | 0.10 | 0.07 | 0.16 | 0.09 | 0.00 | 0.01 | 0.00 |
| MGO % : | 2.05 | 3.42 | 3.94 | 1.30 | 0.77 | 0.17 | 0.50 | 0.30 |
| CAO % : | 5.29 | 5.56 | 6.36 | 4.20 | 1.96 | 0.03 | 0.0 | 0.04 |
| NA2O % : | 4.30 | 1.60 | 3.30 | 3.00 | 1.40 | 0.09 | 0.10 | 0.10 |
| K2O % : | 4.43 | 6.27 | 3.81 | 4.14 | 4.46 | 1.16 | 2.90 | 1.72 |
| H2Ot % : | 1.8 | | | 2.2 | 2.5 | | | |
| CO2t % : | 2.0 | 3.1 | 0.3 | 2.7 | 1.4 | 0.0 | 0.0 | 0.0 |
| CO2= % : | | | | | | | | |
| C % : | | | | | | | | |
| P2O5 % : | 0.30 | 0.30 | 0.34 | 0.27 | 0.25 | 0.03 | 0.02 | 0.05 |
| St % : | 0.56 | 1.69 | 1.22 | 0.00 | 0.00 | 6.57 | 1.12 | 3.08 |
| Ba ppm : | 3200 | 2300 | 1400 | 2100 | 1800 | 210000 | 1800 | 950 |
| Ag ppm : | 0 | 0 | 0 | 0 | 0 | 470 | 4 | 790 |
| Be ppm : | 1.6 | 1.3 | 1.4 | 1.5 | 1.5 | 0.4 | 0.7 | 0.4 |
| Co ppm : | 13 | 18 | 19 | 14 | 13 | 2 | 3 | 2 |
| Cr ppm : | 10 | 110 | 110 | 14 | 6 | 2 | 3 | 4 |
| Cu ppm : | 87 | 200 | 120 | 12 | 5 | 43 | 13 | 3800 |
| La ppm : | 25 | 17 | 25 | 29 | 27 | 11 | 17 | 14 |
| Nb ppm : | 0 | 0 | 3 | 4 | 5 | | 3 | 10 |
| Ni ppm : | 0 | 190 | 38 | 0 | 0 | 0 | 0 | 0 |
| Pb ppm : | 13 | 15 | 10 | 10 | 10 | 290 | 27 | 640 |
| Rb ppm : | 77 | 120 | 92 | 120 | 140 | | 130 | 53 |
| Sc ppm : | 16 | 14 | 14 | 9.5 | 10 | 2.7 | 7.2 | 5.3 |
| Sr ppm : | 730 | 390 | 460 | 230 | 90 | 3100 | 38 | 18 |
| V ppm : | 160 | 180 | 160 | 100 | 110 | 30 | 63 | 42 |
| Y ppm : | 19 | 17 | 20 | 18 | 13 | 3 | 10 | 8 |
| Yb ppm : | 1.9 | 1.4 | 1.8 | 1.9 | 1.5 | 0.5 | 1.1 | 1.1 |
| Zn ppm : | 39 | 33 | 28 | 78 | 53 | 1000 | 32 | 3100 |
| Zr ppm : | 86 | 86 | 91 | 110 | 100 | 26 | 73 | 43 |
| TOTALS | 100.4 | 100.1 | 100.3 | 100.8 | 101.0 | 88.4 | 98.7 | 100.0 |

COMMENTS:

REPORT OF ANALYSIS

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

| LAB. NO. | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| SAMPLE NO: | 104B-909 561 | 104B-909 562 | 104B-909 563 | 104B-909 564 | 104B-909 565 | 104B-909 566 | 104B-909 567 | 104B-909 568 |
| <i>KR-90-157D</i> | | | | | | | | |
| <i>KR-90-157E</i> | | | | | | | | |
| <i>KR-90-157F</i> | | | | | | | | |
| <i>KR-90-157G</i> | | | | | | | | |
| <i>KR-90-159 "Standard"</i> | | | | | | | | |
| <i>161</i> | | | | | | | | |
| <i>162A</i> | | | | | | | | |
| <i>163A</i> | | | | | | | | |
| SIO2 % : | 93.8 | 80.3 | 91.8 | 71.3 | 59.9 | 90.5 | 61.0 | 58.2 |
| TIO2 % : | 0.08 | 0.29 | 0.10 | 0.51 | 1.00 | 0.04 | 0.35 | 0.60 |
| AL2O3 % : | 2.60 | 9.70 | 3.90 | 14.8 | 12.8 | 3.50 | 17.0 | 14.5 |
| FE2O3t % : | 1.50 | 3.50 | 1.00 | 4.20 | 7.40 | 2.20 | 4.40 | 6.50 |
| FE2O3 % : | | | | 1.5 | 4.0 | | 2.1 | |
| FEO % : | | | | 2.4 | 3.1 | | 2.1 | |
| MNO % : | 0.00 | 0.01 | 0.00 | 0.00 | 0.13 | 0.00 | 0.07 | 0.06 |
| MGO % : | 0.17 | 0.52 | 0.27 | 0.69 | 6.29 | 0.17 | 1.07 | 3.00 |
| CAO % : | 0.02 | 0.0 | 0.0 | 0.08 | 4.06 | 0.0 | 2.59 | 4.56 |
| NA2O % : | 0.00 | 0.00 | 0.00 | 0.10 | 2.40 | 0.00 | 4.40 | 2.50 |
| K2O % : | 0.65 | 2.86 | 1.11 | 4.44 | 1.82 | 1.71 | 5.85 | 7.48 |
| H2Ot % : | 0.7 | | 0.9 | 2.8 | 3.6 | | 1.3 | |
| CO2t % : | 0.1 | 0.3 | 0.1 | 0.2 | 1.4 | 0.1 | 1.5 | 0.1 |
| CO2= % : | | | | | | | | |
| C % : | | | | | | | | |
| P2O5 % : | 0.07 | 0.11 | 0.04 | 0.19 | 0.25 | 0.08 | 0.21 | 0.31 |
| St % : | 0.44 | 1.06 | 0.30 | 0.68 | 0.00 | 1.48 | 0.08 | 1.25 |
| Ba ppm : | 710 | 2000 | 560 | 2700 | 680 | 790 | 4000 | 2100 |
| Ag ppm : | 27 | 20 | 75 | 11 | 0 | 50 | 0 | 0 |
| Be ppm : | 0.3 | 0.8 | 0.3 | 1.3 | 5.5 | 0.2 | 1.6 | 1.7 |
| Co ppm : | 1 | 4 | 1 | 5 | 33 | 1 | 9 | 14 |
| Cr ppm : | 1 | 7 | 2 | 9 | 390 | 3 | 4 | 160 |
| Cu ppm : | 23 | 28 | 130 | 28 | 49 | 66 | 220 | 260 |
| La ppm : | 11 | 13 | 18 | 17 | 35 | 12 | 23 | 33 |
| Nb ppm : | 6 | 4 | 12 | 7 | 17 | 5 | 0 | 0 |
| Ni ppm : | 0 | 0 | 0 | 0 | 280 | 0 | 0 | 0 |
| Pb ppm : | 69 | 23 | 150 | 30 | 26 | 210 | 8 | 9 |
| Rb ppm : | 28 | 110 | 44 | 160 | 120 | 50 | 110 | 140 |
| Sc ppm : | 1.5 | 6.4 | 2.7 | 11 | 14 | 1.5 | 8.4 | 14 |
| Sr ppm : | 19 | 8 | 5 | 30 | 470 | 26 | 840 | 560 |
| V ppm : | 13 | 56 | 47 | 91 | 110 | 23 | 130 | 170 |
| Y ppm : | 1 | 4 | 1 | 7 | 35 | 0 | 12 | 19 |
| Yb ppm : | 0.1 | 0.4 | 0.2 | 0.8 | 3.5 | 0.0 | 1.3 | 1.5 |
| Zn ppm : | 100 | 35 | 61 | 62 | 130 | 4800 | 12 | 4 |
| Zr ppm : | 9 | 49 | 19 | 87 | 180 | 1 | 68 | 83 |
| TOTALS | 100.2 | 98.9 | 99.6 | 100.0 | 101.0 | 100.4 | 100.1 | 99.4 |

COMMENTS:

REPORT OF ANALYSIS

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

| LAB. NO. | <i>KR-90-163B</i> 57 | <i>163C</i> 58 | <i>163D</i> 59 | <i>163E</i> 60 | <i>164</i> 61 | <i>KR-90-164A</i> 62 | <i>164AA</i> 63 | <i>164B</i> 64 |
|----------------------|-------------------------|-------------------|-------------------|-------------------|------------------|-------------------------|--------------------|-------------------|
| SAMPLE NO: | 104B-909 569 | 104B-909 570 | 104B-909 571 | 104B-909 572 | 104B-909 575 | 104B-909 576 | 104B-909 574 | 104B-909 577 |
| SIO2 % : | 53.0 | 47.4 | 41.7 | 54.4 | 33.7 | 25.3 | 40.8 | 56.3 |
| TIO2 % : | 0.88 | 0.82 | 0.95 | 0.68 | 0.19 | 0.09 | 0.44 | 0.57 |
| AL2O3 % : | 16.5 | 17.0 | 14.6 | 15.4 | 7.25 | 4.29 | 13.5 | 13.9 |
| FE2O3t % : | 12.1 | 12.4 | 16.9 | 8.70 | 22.1 | 28.9 | 8.40 | 7.80 |
| FE2O3 % : | | | | | | | | |
| FEO % : | | | | | | | | |
| MNO % : | 0.14 | 0.07 | 0.19 | 0.10 | 0.29 | 0.17 | 0.39 | 0.12 |
| MGO % : | 4.01 | 3.38 | 2.67 | 2.39 | 2.56 | 2.41 | 3.26 | 4.94 |
| CAO % : | 1.69 | 4.66 | 4.44 | 4.29 | 9.37 | 6.40 | 11.2 | 4.34 |
| NA2O % : | 0.00 | 2.90 | 2.45 | 5.30 | 0.09 | 0.12 | 0.00 | 4.30 |
| K2O % : | 6.86 | 4.11 | 3.53 | 1.64 | 1.73 | 0.39 | 4.73 | 1.43 |
| H2O _t % : | | | | | | | | |
| CO2 _t % : | 0.1 | 0.0 | 2.5 | 2.8 | 7.1 | 6.0 | 12.6 | 3.4 |
| CO2= % : | | | | | | | | |
| C % : | | | | | | | | |
| P2O5 % : | 0.68 | 0.56 | 0.54 | 0.44 | 0.16 | 0.09 | 0.32 | 0.36 |
| St % : | 3.24 | 3.41 | 10.5 | 3.99 | 14.5 | 20.1 | 3.82 | 1.86 |
| Ba ppm : | 1500 | 1600 | 620 | 540 | 930 | 370 | 1200 | 990 |
| Ag ppm : | | 0 | 0 | 0 | 150 | 320 | 2 | 0 |
| Be ppm : | | 1.0 | 1.7 | 1.2 | 0.9 | 0.5 | 1.8 | 1.6 |
| Co ppm : | | 47 | 55 | 30 | 190 | 69 | 120 | 24 |
| Cr ppm : | | 1 | 120 | 79 | 20 | 7 | 60 | 220 |
| Cu ppm : | | 1200 | 1300 | 810 | 40000 | 113000 | 160 | 570 |
| La ppm : | | 18 | 27 | 24 | 760 | 1200 | 100 | 20 |
| Nb ppm : | 40 | 0 | | 13 | | | 5 | 3 |
| Ni ppm : | | 0 | 58 | 29 | 62 | 42 | 0 | 110 |
| Pb ppm : | | 16 | 11 | 11 | 41 | 220 | 38 | 2 |
| Rb ppm : | 270 | 90 | | 53 | | | 140 | 34 |
| Sc ppm : | | 18 | 25 | 19 | 12 | 14 | 13 | 15 |
| Sr ppm : | 120 | 1200 | 150 | 170 | 230 | 170 | 270 | 340 |
| V ppm : | | 290 | 230 | 230 | 260 | 360 | 200 | 210 |
| Y ppm : | | 18 | 15 | 9 | 16 | 18 | 14 | 14 |
| Yb ppm : | | 1.5 | 1.3 | 1.0 | 1.4 | 2.3 | 1.1 | 1.2 |
| Zn ppm : | | 24 | 60 | 35 | 1800 | 4900 | 180 | 41 |
| Zr ppm : | 200 | 140 | 57 | 80 | 32 | 14 | 53 | 62 |
| TOTALS | 99.4 | 97.2 | 101.2 | 100.3 | 103.5 | 106.3 | 99.7 | 99.6 |

COMMENTS:

REPORT OF ANALYSIS

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

| LAB. NO. | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| SAMPLE NO: | 104B-909 578 | 104B-909 597 | 104B-909 598 | 104B-909 599 | 104B-909 600 | 104B-909 601 | 104B-909 602 | 104B-909 603 |
| SIO2 % : | 54.5 | 62.9 | 57.7 | 60.5 | 55.7 | 48.1 | 57.4 | 54.9 |
| TIO2 % : | 0.47 | 0.38 | 0.77 | 0.54 | 0.72 | 0.66 | 0.43 | 0.68 |
| AL2O3 % : | 16.1 | 16.0 | 15.9 | 14.8 | 15.3 | 13.7 | 8.50 | 16.6 |
| FE2O3t % : | 7.20 | 3.70 | 6.60 | 3.10 | 6.50 | 8.80 | 6.70 | 8.10 |
| FE2O3 % : | | 0.9 | 2.2 | 0.5 | 1.6 | 2.5 | 1.7 | |
| FEO % : | | 2.5 | 4.0 | 2.3 | 4.4 | 5.7 | 4.5 | |
| MNO % : | 0.12 | 0.06 | 0.09 | 0.07 | 0.07 | 0.16 | 0.07 | 0.34 |
| MGO % : | 2.69 | 1.35 | 2.93 | 2.28 | 6.39 | 6.97 | 3.81 | 3.00 |
| CAO % : | 4.85 | 1.21 | 2.81 | 3.63 | 5.69 | 7.41 | 8.33 | 3.22 |
| NA2O % : | 1.30 | 2.10 | 2.70 | 4.40 | 4.70 | 3.00 | 0.90 | 2.60 |
| K2O % : | 5.07 | 8.37 | 4.26 | 4.00 | 2.88 | 1.82 | 3.11 | 4.86 |
| H2Ot % : | | 1.8 | 3.2 | 1.7 | 2.3 | 4.4 | 2.8 | |
| CO2t % : | 3.3 | 1.0 | 1.7 | 2.3 | 1.1 | 5.0 | 6.3 | 2.4 |
| CO2= % : | | | | | | | | |
| C % : | | | | | | | | |
| P2O5 % : | 0.39 | 0.22 | 0.54 | 0.36 | 0.35 | 0.30 | 0.19 | 0.33 |
| St % : | 2.87 | 0.27 | 0.56 | 0.66 | 0.05 | 0.29 | 0.73 | 1.21 |
| Ba ppm : | 1800 | 3200 | 1200 | 12000 | 1200 | 1500 | 760 | 4100 |
| Ag ppm : | 0 | 0 | 2 | 0 | 0 | 1 | 2 | 0 |
| Be ppm : | 1.5 | 0.8 | 1.1 | 0.7 | 1.3 | 1.1 | 0.7 | 1.0 |
| Co ppm : | 23 | 13 | 17 | 11 | 21 | 18 | 18 | 24 |
| Cr ppm : | 48 | 4 | 38 | 15 | 200 | 290 | 170 | 35 |
| Cu ppm : | 35 | 2400 | 6600 | 3900 | 340 | 2100 | 8800 | 22 |
| La ppm : | 17 | 16 | 17 | 16 | 17 | 17 | 15 | 13 |
| Nb ppm : | 10 | 0 | 5 | 0 | 5 | 6 | 6 | 0 |
| Ni ppm : | 0 | 0 | 10 | 0 | 120 | 92 | 88 | 0 |
| Pb ppm : | 32 | 5 | 1 | 0 | 0 | 3 | 5 | 23 |
| Rb ppm : | 160 | 150 | 130 | 68 | 86 | 52 | 66 | 110 |
| Sc ppm : | 17 | 10 | 25 | 12 | 17 | 17 | 11 | 24 |
| Sr ppm : | 170 | 190 | 160 | 820 | 390 | 320 | 290 | 330 |
| V ppm : | 160 | 110 | 270 | 170 | 180 | 150 | 180 | 180 |
| Y ppm : | 9 | 11 | 15 | 15 | 17 | 16 | 12 | 12 |
| Yb ppm : | 0.8 | 1.3 | 1.4 | 1.4 | 1.4 | 1.1 | 1.1 | 1.2 |
| Zn ppm : | 76 | 24 | 34 | 22 | 18 | 32 | 32 | 160 |
| Zr ppm : | 46 | 90 | 55 | 38 | 160 | 150 | 41 | 67 |
| TOTALS | 99.1 | 99.7 | 100.2 | 99.8 | 101.5 | 100.5 | 99.8 | 98.7 |

COMMENTS:

REPORT OF ANALYSIS

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

| LAB. NO. | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| SAMPLE NO: | 104B-909 604 | 104B-909 605 | 104B-909 606 | 104B-909 607 | 104B-909 608 | 21-91-78 #19 | 21-91-79 #39 | 21-91-80 #50 |
| SiO2 % : | 57.7 | 55.2 | 48.9 | 52.9 | 52.9 | 70.0 | 56.4 | 80.7 |
| TiO2 % : | 0.57 | 0.43 | 0.60 | 0.55 | 0.49 | 0.28 | 0.63 | 0.28 |
| Al2O3 % : | 19.0 | 14.7 | 15.4 | 17.0 | 16.0 | 14.1 | 17.0 | 9.70 |
| Fe2O3t % : | 7.40 | 5.50 | 6.70 | 7.00 | 6.90 | 4.10 | 6.90 | 3.40 |
| Fe2O3 % : | | | 0.9 | | 1.1 | | 1.6 | |
| FeO % : | | | 5.2 | | 5.2 | | 4.8 | |
| MNO % : | 0.34 | 0.33 | 0.19 | 0.44 | 0.38 | 0.01 | 0.14 | 0.01 |
| MGO % : | 1.47 | 2.45 | 3.02 | 2.69 | 2.79 | 0.62 | 2.42 | 0.52 |
| CAO % : | 0.89 | 6.50 | 8.40 | 4.40 | 6.17 | 0.03 | 5.44 | 0.0 |
| NA2O % : | 1.60 | 3.10 | 4.00 | 0.90 | 2.10 | 2.00 | 3.50 | 0.00 |
| K2O % : | 6.08 | 3.45 | 2.83 | 5.53 | 4.29 | 5.97 | 3.99 | 2.84 |
| H2O _t % : | | | 2.9 | | 3.2 | | 2.0 | |
| CO2 _t % : | 0.2 | 4.8 | 6.8 | 4.3 | 4.6 | 0.0 | 1.4 | 0.2 |
| CO2= % : | | | | | | | | |
| C % : | | | | | | | | |
| P2O5 % : | 0.32 | 0.33 | 0.38 | 0.28 | 0.30 | 0.06 | 0.32 | 0.11 |
| St % : | 2.09 | 1.10 | 0.34 | 2.90 | 0.65 | 2.81 | 0.59 | 1.06 |
| Ba ppm : | 3400 | 3100 | 1000 | 1900 | 2100 | 1600 | 3000 | 2000 |
| Ag ppm : | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| Be ppm : | 1.8 | 0.9 | 1.3 | 1.3 | 1.0 | 0.8 | 1.5 | 0.8 |
| Co ppm : | 16 | 13 | 17 | 20 | 14 | 8 | 13 | 3 |
| Cr ppm : | 10 | 14 | 66 | 21 | 18 | 20 | 9 | 7 |
| Cu ppm : | 230 | 77 | 98 | 160 | 320 | 10 | 40 | 20 |
| La ppm : | 13 | 14 | 21 | 15 | 16 | 13 | 23 | 13 |
| Nb ppm : | 0 | 0 | 3 | 5 | 0 | 3 | 0 | 3 |
| Ni ppm : | 0 | 0 | 17 | 0 | 0 | 0 | 0 | 0 |
| Pb ppm : | 200 | 21 | 12 | 10 | 16 | 15 | 11 | 20 |
| Rb ppm : | 160 | 84 | 69 | 160 | 130 | 150 | 87 | 110 |
| Sc ppm : | 15 | 19 | 15 | 20 | 18 | 6.6 | 17 | 6.3 |
| Sr ppm : | 140 | 380 | 680 | 130 | 320 | 97 | 690 | 20 |
| V ppm : | 110 | 140 | 180 | 150 | 140 | 54 | 160 | 54 |
| Y ppm : | 12 | 12 | 14 | 12 | 12 | 3 | 18 | 3 |
| Yb ppm : | 1.7 | 1.4 | 1.3 | 1.3 | 1.4 | 0.3 | 1.8 | 0.4 |
| Zn ppm : | 1700 | 110 | 80 | 56 | 120 | 19 | 120 | 99 |
| Zr ppm : | 110 | 54 | 67 | 71 | 60 | 64 | 86 | 48 |
| TOTALS | 98.3 | 98.3 | 100.1 | 99.2 | 100.5 | 100.2 | 100.6 | 99.1 |

COMMENTS:

REPORT OF ANALYSIS

NAME: R.V.KIRKHAM

PROJECT: 700059

REQN. NO: 21-91

LAB. NO. 81
SAMPLE NO: 21-91-81

#67

SIO2 % : 58.1
TIO2 % : 0.77
AL2O3 % : 16.0
FE2O3t % : 6.70
FE2O3 % : 2.3
FEO % : 4.0
MNO % : 0.09
MGO % : 2.99
CAO % : 2.79
NA2O % : 2.80
K2O % : 4.26

H2Ot % : 3.2
CO2t % : 1.6
CO2= % :
C % :
P2O5 % : 0.55
St % : 0.56

Ba ppm : 1100
Ag ppm : 1
Be ppm : 1.1
Co ppm : 18
Cr ppm : 38
Cu ppm : 6700
La ppm : 18
Nb ppm : 13
Ni ppm : 13
Pb ppm : 7
Rb ppm : 130
Sc ppm : 25
Sr ppm : 160
V ppm : 280
Y ppm : 15
Yb ppm : 1.4
Zn ppm : 66
Zr ppm : 54

TOTALS 100.8

COMMENTS: