

# Appendices

## **List of appendices**

- Appendix 1 Descriptions of thin sections in the project area
- Appendix 2 Descriptions of polished sections in the project area
- Appendix 3 Results of X-ray diffraction analyses in the project area
- Appendix 4 List of dating results in the project area
- Appendix 5 Analytical results and histogram of fluid inclusion in the project area.
- Appendix 6 List of ore assay in the survey area
- Appendix 7 Drilling Equipment and consumed materials
- Appendix 8 Generalized drilling results and progress records of drilling
- Appendix 9 Drilling logs
- Appendix 10 Descriptions of thin sections for drilling survey
- Appendix 11 Descriptions of polished sections for drilling survey
- Appendix 12 Results of X-ray diffraction analyses for drilling survey
- Appendix 13 List of ore assay for drilling survey
- Appendix 14 List of soil geochemical samples in Block B
- Appendix 15 Analytical results for check soil geochemical samples
- Appendix 16 Analytical results of soil geochemical samples in Block B
- Appendix 17 Statistical data of soil geochemical survey, histogram, EDA and Cumulative frequency of each elements in Block B
- Appendix 18 Distribution map of elements in Block B
- Appendix 19 List of auger geochemical samples in Block B
- Appendix 20 Analytical results for auger geochemical samples
- Appendix 21 Statistics of auger geochemical survey, histogram, EDA and cumulative frequency of each elements in Block B
- Appendix 22 List of soil geochemical samples in Block C
- Appendix 23 Analytical results of soil geochemical samples in Block C
- Appendix 24 Statistical data of soil geochemical survey histogram, EDA and cumulative frequency of each elements in Block C
- Appendix 25 Distribution map of elements in Block C
- Appendix 26 List of auger geochemical samples in Block C
- Appendix 27 Analytical results for auger geochemical samples in Block C
- Appendix 28 Statistical data of auger geochemical survey histogram, EDA and Cumulative frequency of each elements in Block C
- Appendix 29 List of soil geochemical samples in Block F
- Appendix 30 Analytical results of soil geochemical samples in Block F

- Appendix 31 Statistical data of soil geochemical survey histogram, EDA and cumulative frequency of each elements in Block F
- Appendix 32 Distribution map of elements in Block F
- Appendix 33 List of auger geochemical samples in the Serrinha do Guaranta Block F
- Appendix 34 Analytical results for auger geochemical samples in the Serrinha Block F
- Appendix 35 Statistical data of auger geochemical survey histogram, EDA and cumulative frequency of each elements in Block F
- Appendix 36 List of soil geochemical samples in Block G
- Appendix 37 Analytical results of soil geochemical samples in Block G
- Appendix 38 Statistical data of soil geochemical survey histogram, EDA and cumulative frequency of each elements in Block G
- Appendix 39 Distribution map of elements in Block G

Appendix 1 Descriptions of thin sections in the project area





## Appendix 2 Descriptions of polished sections in the project area

| Ser. No. | Sample No. | District         | Coordination |           | Descriptions                                     | Identified minerals |            |          |          |          |           |                |            |           |           |            |        |              | Gangue M.  |        |          |        |   |
|----------|------------|------------------|--------------|-----------|--|---------------------|------------|----------|----------|----------|-----------|----------------|------------|-----------|-----------|------------|--------|--------------|------------|--------|----------|--------|---|
|          |            |                  | S            | W         |  | pyrite              | pyrrhotite | goethite | hematite | limonite | magnetite | chalcocopyrite | chalcocite | covellite | malachite | sphalerite | galena | bismuthinite | gold grain | quartz | titanite | rutile |   |
| 1        | A2136a     | Block B          | 9°22'43"     | 57°26'42" | Sulphide rich quartz vein                        |                     |            | ○        | ○        | ○        |           |                |            |           |           |            |        |              |            |        |          |        |   |
| 2        | A2136b     | Block B          | 9°22'43"     | 57°26'42" | Sulphide rich quartz vein                        | ○                   |            |          |          |          |           |                | ○          |           | ○         |            |        |              |            |        |          |        |   |
| 3        | A2140a     | Block B          | 9°22'43"     | 57°26'42" | Sulphide rich quartz vein                        |                     |            | ○        | •        | ○        |           |                |            |           |           |            |        |              |            |        |          | ○      |   |
| 4        | A2140b     | Block B          | 9°22'43"     | 57°26'42" | Sulphide rich quartz vein                        |                     |            |          | ○        |          | ○         |                |            |           |           |            |        |              |            |        |          |        |   |
| 5        | A2140c     | Block B          | 9°22'43"     | 57°26'42" | Sulphide rich quartz vein                        |                     |            | ○        | ○        | ○        |           |                |            |           |           |            |        |              |            |        |          |        |   |
| 6        | A2040a     | Block C          | 9°30'56"     | 56°35'54" | Quartz vein with Py-Cp dissemination             | ○                   | •          |          |          |          | ●         | ●              |            | ○         | ○         |            |        |              |            |        |          |        |   |
| 7        | A2040b     | Block C          | 9°30'56"     | 56°35'54" | Quartz vein with Py-Cp dissemination             | ○                   | •          |          |          |          | ●         | ●              |            | ○         | ○         |            |        |              |            | •      |          |        |   |
| 8        | A2040c     | Block C          | 9°30'56"     | 56°35'54" | Quartz vein with Py-Cp dissemination             | ○                   | •          |          |          |          | ●         | •              |            | ○         | ○         |            |        |              |            | •      |          |        |   |
| 9        | A2040d     | Block C          | 9°30'56"     | 56°35'54" | Quartz vein with Py-Cp dissemination             | ○                   | •          |          |          |          | •         | •              |            | ○         | ○         |            |        |              |            | •      |          |        |   |
| 10       | A2035      | Block C          | 9°29'46"     | 56°33'50" | K-f porphyritic bi granite with Py dissemination | ○                   |            |          |          |          |           |                |            |           |           |            |        |              |            |        | ○        | ●      |   |
| 11       | B2001      | Block F          | 9°58'27"     | 54°58'00" | Quartz vein in granite                           |                     |            | ○        |          |          |           |                |            |           |           |            |        |              |            |        | ○        |        |   |
| 12       | B2044      | Block F          | 9°58'17"     | 54°58'28" | Quartz vein with Py dissemination                | ○                   |            |          |          |          | ●         | •              |            |           |           |            |        |              |            | •      |          |        |   |
| 13       | B2048      | Block F          | 9°58'13"     | 54°58'42" | Quartz vein with strong Py dissemination         | ○                   |            |          |          |          | ●         | ●              |            |           |           |            |        |              | ○          |        |          |        |   |
| 14       | B2051      | Block F          | 09°58'24"    | 54°58'18" | Quartz vein                                      |                     |            |          |          |          |           |                |            | ○         |           |            |        |              |            |        | ○        |        |   |
| 15       | P2015      | Block F          | 09°58'14"    | 54°58'46" | Quartz vein with Py dissemination                | ○                   |            |          |          |          | •         | ○              | ●          |           |           |            |        |              |            |        |          |        | ● |
| 16       | A2419      | Block G          | 9°30'39"     | 56°35'17" | Quartz vein with hematite and goethite           |                     |            | •        | •        | •        |           |                |            |           |           |            |        |              |            |        |          |        |   |
| 17       | A2431      | Block G          | 9°28'43"     | 56°36'29" | Hematite goethite quartz vein                    |                     |            | ○        | ○        | ○        |           | •              |            |           |           |            |        |              |            |        |          |        |   |
| 18       | A2438a     | Block G          | 10°02'13"    | 55°01'31" | Hematite goethite rich quartz vein               |                     |            | ○        | ○        | ○        |           |                |            |           |           |            |        |              |            | •      |          |        |   |
| 19       | A2438b     | Block G          | 10°02'02"    | 55°01'27" | Hematite goethite rich quartz vein               |                     |            | ○        | ○        | ○        |           |                |            |           |           |            |        |              |            |        |          |        |   |
| 20       | A2439      | Block G          | 10°01'32"    | 55°00'31" | Quartz vein with pyrite, hematite and goethite   | ○                   |            | ●        | •        | •        |           |                |            |           |           |            |        |              |            |        |          |        |   |
| 21       | A2441a     | Block G          | 10°01'32"    | 55°00'31" | Sulphide rich quartz vein                        | ○                   |            |          | ○        | ○        |           |                |            |           |           |            |        |              |            |        |          | ○      |   |
| 22       | A2441b     | Block G          | 10°01'32"    | 55°00'31" | Sulphide rich quartz vein                        | ○                   |            |          | ○        | ○        |           |                |            |           |           |            |        |              |            |        |          |        |   |
| 23       | A2442      | Block G          | 9°58'12"     | 54°58'45" | Pyrite disseminated, silicified granite          | ○                   |            | •        | •        | •        |           |                |            |           |           |            |        |              |            |        |          | ○      |   |
| 24       | A2448      | Block G          | 9°58'09"     | 54°58'44" | Pyrite disseminated, silicified rock             | ●                   |            |          |          |          |           | •              | •          |           |           |            |        |              |            |        |          | ○      |   |
| 25       | A2449      | Block G          | 10°01'32"    | 55°00'31" | Sulphide rich quartz vein in silicified rock     | ○                   |            |          |          |          |           |                |            |           |           |            |        |              |            |        |          |        |   |
| 26       | A2450      | Block G          | 9°57'42"     | 55°14'03" | Quartz vein with hematite, goethite in sil. rock |                     |            | ●        | ●        |          | •         |                |            |           |           |            |        |              |            |        |          |        |   |
| 27       | A2451a     | Block G          | 9°56'27"     | 55°12'57" | Fine Py dissemination in sil. rock               | ○                   |            |          |          |          | •         |                | ●          |           |           |            |        |              |            |        |          |        |   |
| 28       | A2451b     | Block G          | 9°52'23"     | 55°20'10" | Fine Py dissemination in sil. rock               | ●                   |            | •        | •        | •        |           |                |            |           |           |            |        |              |            |        |          |        |   |
| 29       | A2452a     | Block G          | 9°53'17"     | 55°20'56" | Sulphide rich quartz vein                        | ○                   |            | •        |          | •        |           | ●              |            |           |           |            |        |              |            |        |          |        |   |
| 30       | A2452b     | Block G          | 9°57'56"     | 55°21'24" | Sulphide rich quartz vein                        | ○                   |            | •        |          | •        |           | ●              |            |           |           |            |        |              |            |        |          |        |   |
| 31       | A2553      | Block G          | 9°57'56"     | 55°21'24" | Stockwork quartz vein with Cp + Py               | ●                   |            |          |          |          | •         | •              | ●          |           |           |            |        |              |            |        |          |        |   |
| 32       | A2479      | Block G          | 9°57'56"     | 55°21'24" | Py dissemination in epidote, silicified granite  | ●                   |            | •        | ●        |          |           |                |            |           |           |            |        |              |            |        |          |        |   |
| 33       | A2480      | Block G          | 9°57'56"     | 55°21'24" | Sulphide rich ore                                | ○                   |            |          |          |          | •         |                |            |           |           |            |        |              |            |        |          |        |   |
| 34       | A2482      | Block G          | 9°57'56"     | 55°21'24" | Py disseminated ore with Qtz vein network        | ○                   |            |          |          | ○        | ●         |                |            |           |           |            |        |              |            |        |          |        |   |
| 35       | A2484      | Block G          | 9°57'56"     | 55°21'24" | Py disseminated ore in Ep + Chl, silicified rock | ●                   |            | •        | ●        |          |           |                |            |           |           |            |        |              |            |        |          |        |   |
| 36       | A2517      | South of Block B | 9°57'56"     | 55°21'24" | Py disseminated ore in Ep + Chl, silicified rock |                     |            | •        | •        | •        |           |                |            |           |           |            |        |              |            |        |          |        |   |



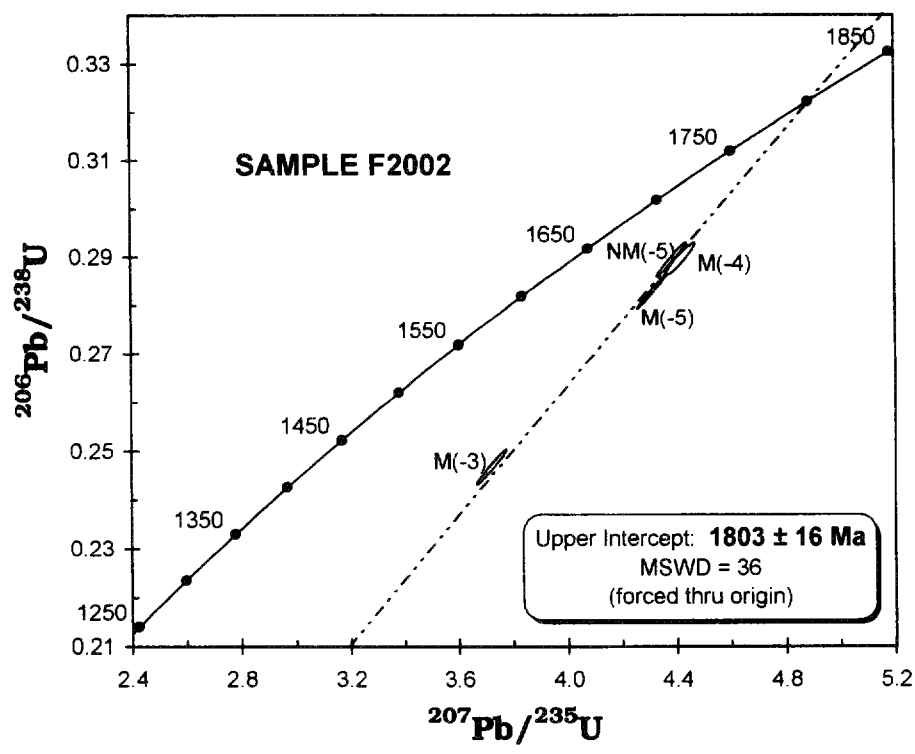
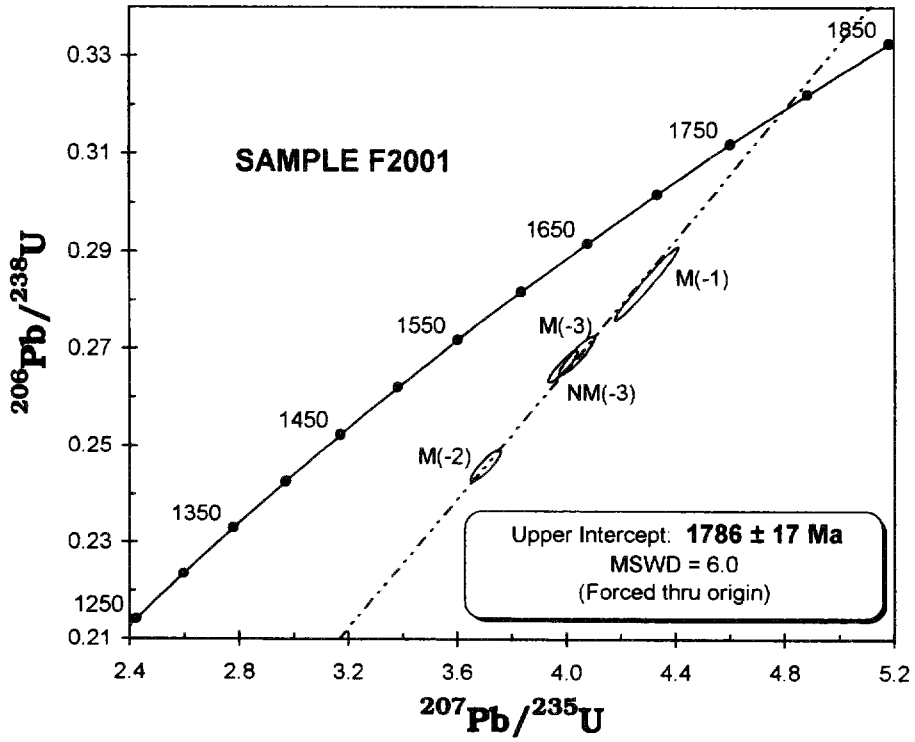
### Appendix 3 Results of X-ray diffraction analyses in the project area

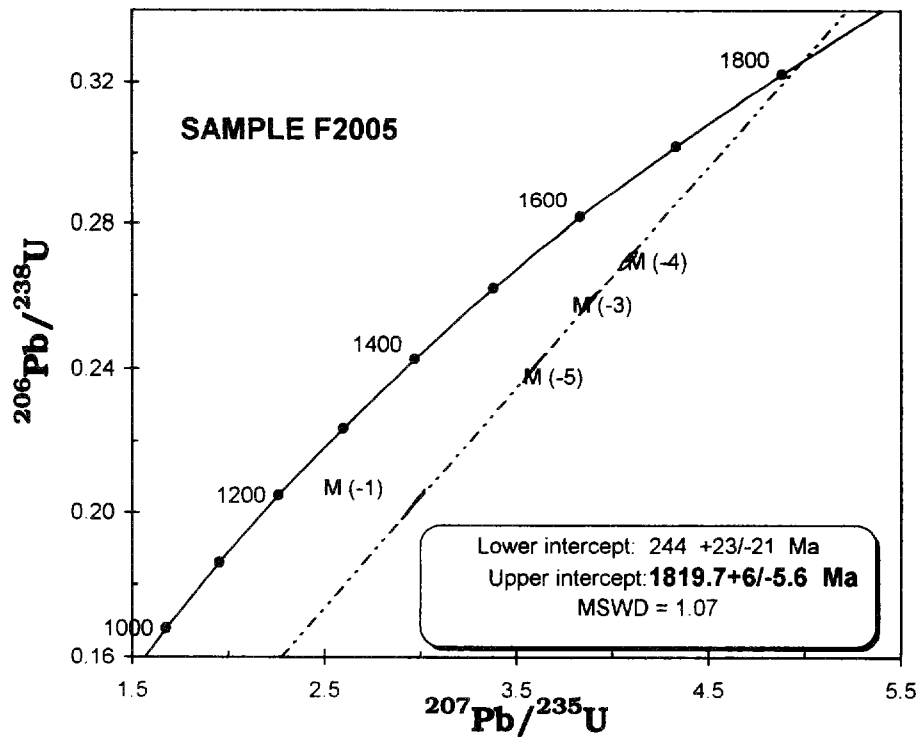
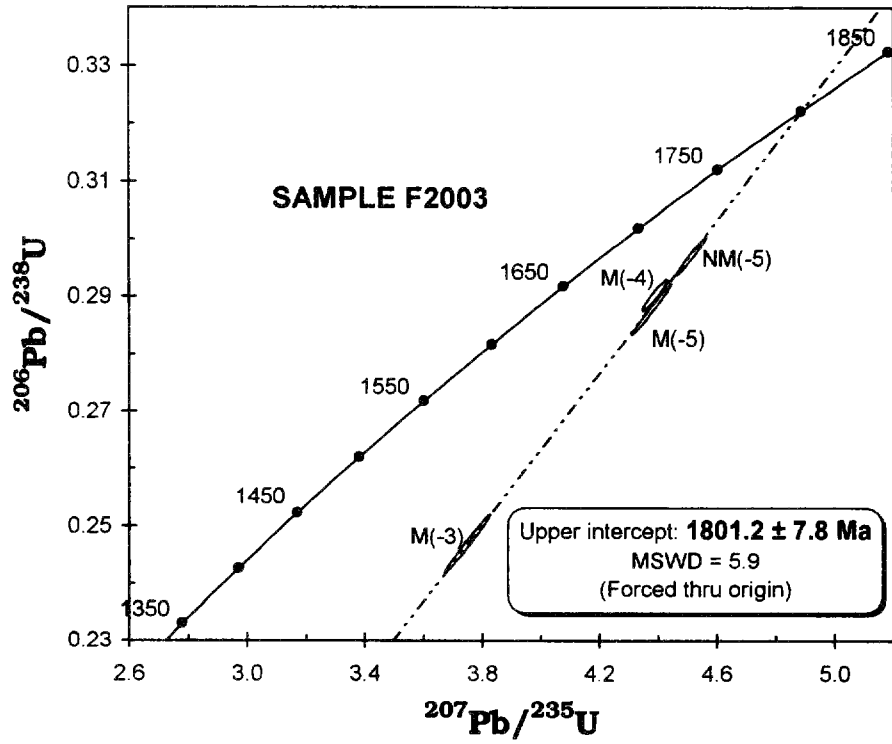
| Ser. No. | Sample No. | Block            | Coordination |           | Descriptions                  | Detected Minerals |            |        |         |          |          |           |      |     |             |           |         |          |        | Remarks |          |            |   |   |  |
|----------|------------|------------------|--------------|-----------|-------------------------------|-------------------|------------|--------|---------|----------|----------|-----------|------|-----|-------------|-----------|---------|----------|--------|---------|----------|------------|---|---|--|
|          |            |                  | S            | W         |                               | quartz            | K-feldspar | albite | biotite | sericite | chlorite | kaolinite | talc | I/S | vermiculite | Tremolite | calcite | dolomite | pyrite |         | goethite | sphalerite |   |   |  |
| 1        | A2126      | Block B          | 9°22'43"     | 56°35'54" | sheared, silicified granite   | ☉                 | ○          |        |         | ☉        |          | •         |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 2        | A2131      | Block B          | 9°22'43"     | 56°35'54" | sheared, silicified granite   | ☉                 |            |        |         | △        |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 3        | A2136      | Block B          | 9°22'43"     | 56°26'42" | sheared, silicified granite   | ☉                 | △          |        |         | ☉        |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 4        | A2140      | Block B          | 9°22'43"     | 56°26'42" | sheared, silicified granite   | ☉                 | ○          |        |         | ○        |          | •         |      |     |             |           |         |          |        |         |          |            | ○ |   |  |
| 5        | A2141      | Block B          | 9°22'43"     | 56°26'42" | silicified granite            | ☉                 | ☉          |        |         | ○        |          | △         |      |     |             |           |         | △        |        |         |          |            |   |   |  |
| 6        | A2035      | Block C          | 9°29'46"     | 56°33'50" | chl-epi, py diss. in granite  | ☉                 | ○          | ☉      |         | ☉        |          |           |      |     |             |           |         | •        |        |         |          |            |   |   |  |
| 7        | A2040      | Block C          | 9°30'56"     | 56°35'54" | qtz in granite                | ☉                 |            |        |         | △        |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 8        | A2041      | Block C          | 9°30'56"     | 56°35'54" | argillized granite            | ☉                 | ○          |        |         |          |          | ○         |      |     |             |           |         | △        |        |         |          |            |   |   |  |
| 9        | A2042      | Block C          | 9°30'56"     | 56°35'54" | argillized granite            | ☉                 | ☉          |        |         | ☉        |          | •         |      |     |             |           |         | ○        |        |         |          |            |   |   |  |
| 10       | A2043      | Block C          | 9°30'56"     | 56°35'54" | sil. granite                  | ☉                 | △          |        |         | ☉        |          | △         |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 11       | A2047      | Block C          | 9°30'56"     | 56°35'54" | argillized granite            | ☉                 | ☉          |        |         | ☉        |          | △         |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 12       | A2306      | Block F          | 10°00'55"    | 55°01'50" |                               | ☉                 |            |        |         | ○        |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 13       | A2328      | Block F          | 9°59'58"     | 54°57'15" | sil. argillized volcanic rock | ☉                 |            |        |         |          |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 14       | A2331      | Block F          | 9°56'58"     | 54°57'15" | sil. argillized rock          | ☉                 |            |        |         |          |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 15       | A2347      | Block F          | 9°59'41"     | 54°57'08" | sil. epi., qtz network        | ☉                 |            |        |         |          |          | △         |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 16       | F0701700   | Block F          | 10°01'26"    | 54°58'28" | unknown mineral (qtz?)        | ☉                 |            |        |         |          |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 17       | B2003      | Block F          | 10°01'19"    | 55°00'36" | altered rock                  |                   |            |        |         |          | ○        |           | ○    | ☉   | ○           |           |         | ○        |        |         |          |            |   |   |  |
| 18       | B2023      | Block F          | 10°01'18"    | 55°00'47" | schist (sapolite)             | ☉                 |            |        |         |          |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 19       | B2031      | Block F          | 10°01'20"    | 55°00'45" | talc-chl-schist               |                   |            |        |         |          |          | ○         |      | ○   | ☉           | △         |         | ○        |        |         |          |            |   |   |  |
| 20       | B2041      | Block F          | 10°01'29"    | 55°00'35" | schist                        | ☉                 |            |        |         |          | ○        |           | ☉    | ○   |             |           |         |          |        |         |          |            |   |   |  |
| 21       | B2050      | Block F          | 09°58'24"    | 54°58'18" | pink granite                  | ☉                 | ○          | ☉      |         | ○        |          |           |      |     |             |           |         | △        |        |         |          |            |   |   |  |
| 22       | P2014      | Block F          | 09°58'14"    | 54°58'46" | sheared rock                  |                   |            |        |         |          | ☉        |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 23       | A2428      | Block G          | 9°54'36"     | 55°20'57" | ser., sil. granite            | ☉                 |            |        |         | ☉        |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 24       | A2429      | Block G          | 9°54'36"     | 55°20'57" | sil., argillized granite      | ☉                 |            |        |         | ☉        |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 25       | A2442      | Block G          | 9°53'16"     | 55°20'56" | sil. granite                  | ☉                 | ☉          |        |         | ○        |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 26       | A2450      | Block G          | 9°52'21"     | 55°20'09" | sil. granite with hm-lim-goe  | ☉                 |            |        |         | ○        |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 27       | A2452      | Block G          | 9°52'21"     | 55°20'09" | py rich qtz vein              | ☉                 |            |        |         | ☉        |          |           |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 28       | A2467      | Block G          | 9°56'28"     | 55°12'57" | sil. argilled granite         | ☉                 |            |        |         | ○        |          | •         |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 29       | A2474      | Block G          | 9°56'26"     | 55°13'02" | sil. argilled granite         | ☉                 |            |        |         | ○        |          | ○         |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 30       | A2475      | Block G          | 9°56'26"     | 55°13'02" | sil. argilled granite         | ☉                 |            |        |         | ○        |          | ○         |      |     |             |           |         |          |        |         |          |            | • |   |  |
| 31       | A2484      | Block G          | 9°56'28"     | 55°12'57" | chl-epi sil. granite          | ☉                 |            |        |         | △        |          |           |      |     |             |           |         |          |        |         |          | △          |   | △ |  |
| 32       | A2501      | South of Block B | 9°31'59"     | 57°30'38" | silicified granite            | ☉                 | ☉          | ☉      | ☉       |          |          |           |      |     |             |           |         | △        |        |         |          |            |   |   |  |
| 33       | A2504      | South of Block B | 9°32'03"     | 57°30'49" | silicified granite            | ☉                 | ○          |        |         |          |          | ☉         |      |     |             |           |         |          |        |         |          |            |   |   |  |
| 34       | A2517      | South of Block B | 9°32'38"     | 57°36'09" | silicified granite            | ☉                 | ☉          | ☉      |         | △        |          |           |      |     |             |           |         | △        |        |         |          |            |   |   |  |

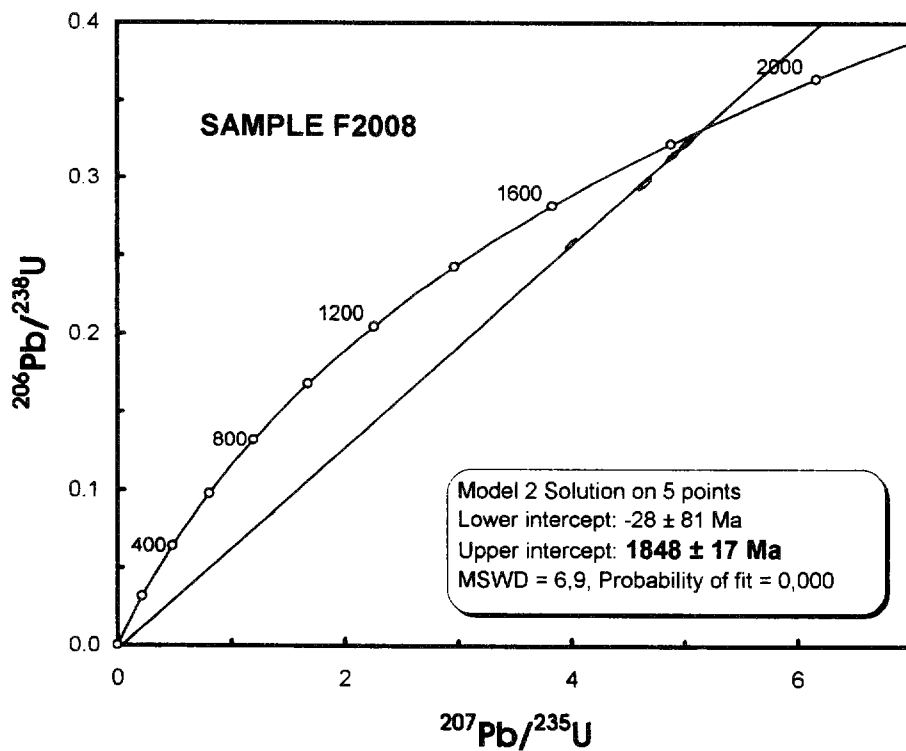
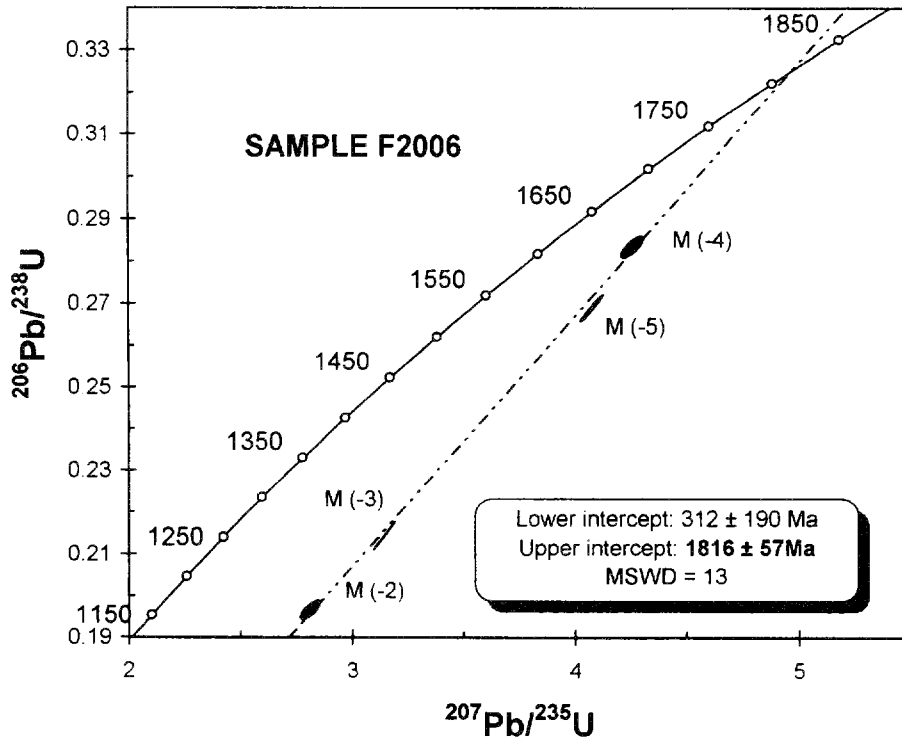
☉ : abundant, ○ : common, △ : a little, • : rare.

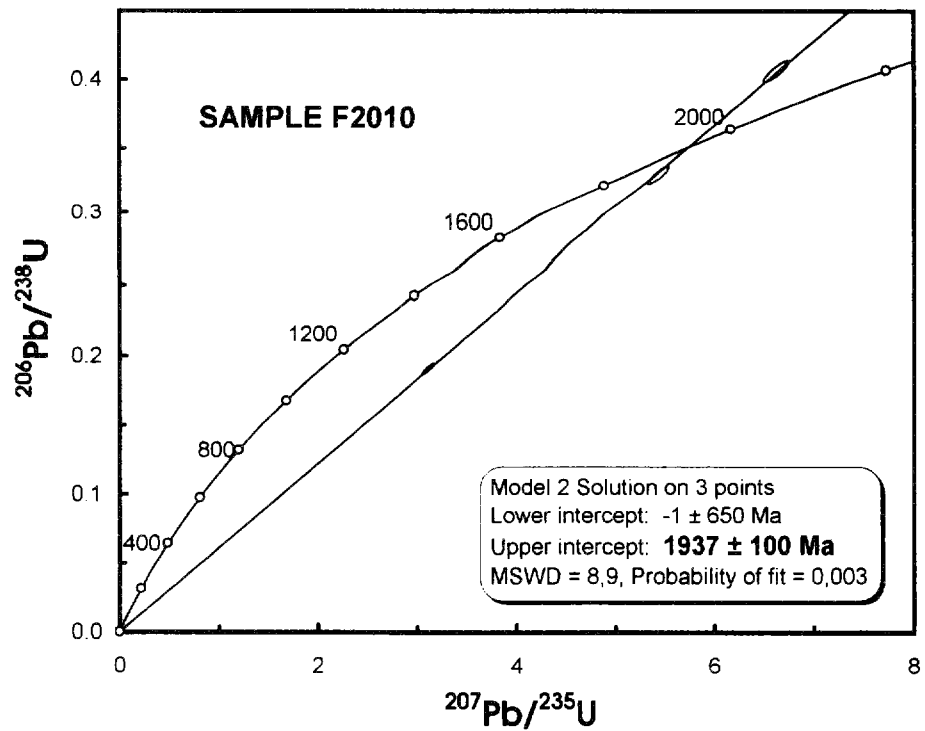
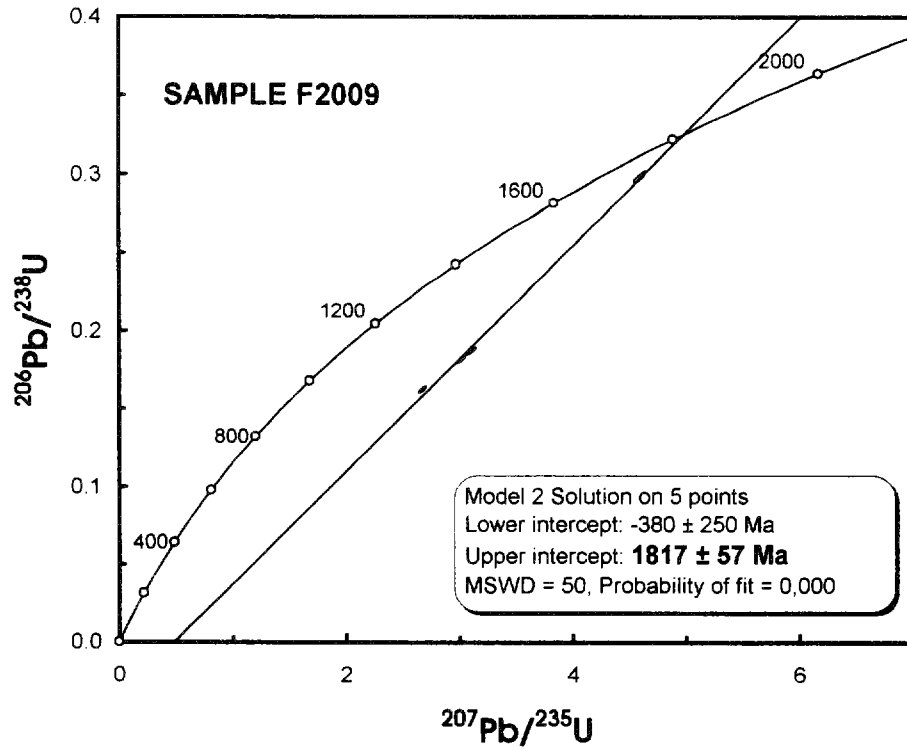
Appendix 4 List of dating results in the project area

| Ser. No. | Sample No. | Area    | Coordination |           | Rock Name            | Geol. Unite | Texture        | 207Pb/235U                                   | 206Pb/238U                                     | Age                                 |
|----------|------------|---------|--------------|-----------|----------------------|-------------|----------------|--|--|-------------------------------------|
|          |            |         | S            | W         |                      |             |                |  |  | Upper intercept                     |
| 1        | F2001      | Block C | 9°31'05"     | 56°39'15" | Rhyolite             | Puiv        | Porphyritic    | 4.03825<br>3.98633<br>3.70384<br>4.294438    | 0.268711<br>0.266479<br>0.245968<br>0.283432   | 1786 ± 17 Ma<br>(U/Pb method)       |
| 2        | F2002      | Block C | 9°27'20"     | 56°39'45" | Granodiorite         | Grillb      | Inequigranular | 3.72078<br>4.38498<br>4.3147<br>4.41599      | 0.246719<br>0.289459<br>0.282839<br>0.289439   | 1803 ± 16 Ma<br>(U/Pb method)       |
| 3        | F2003      | Block C | 9°30'52"     | 56°35'47" | Biotite monzogranite | Grillb      | Granitic       | 3.74967<br>4.51469<br>4.37845<br>4.39034     | 0.246953<br>0.297036<br>0.28774<br>0.290217    | 1801.2 ± 7.8 Ma<br>(U/Pb method)    |
| 4        | F2005      | Block B | 9°24'39"     | 57°22'05" | granite              | Grilla      | Inequigranular | 2.96239<br>3.59264<br>3.87979<br>4.08475     | 0.202159<br>0.240381<br>0.258131<br>0.269853   | 1819.7 ± 6/-5.6 Ma<br>(U/Pb method) |
| 5        | F2006      | Block B | 9°23'17"     | 57°27'50" | Granite              | Grillb      | Inequigranular | 2.79778<br>3.13026<br>4.06224<br>4.24664     | 0.196922<br>0.214863<br>0.270152<br>0.284908   | 1816 ± 57 Ma<br>(U/Pb method)       |
| 6        | F2007      | Block G | 9°58'32"     | 55°13'45" | Bi-ms monzogranite   | Grill       | Granitic       |  |  | 1823 ± 35 Ma<br>(Pb/Pb method)      |
| 7        | F2008      | Block G | 9°59'14"     | 55°20'31" | Biotite monzogranite | Grill       | Inequigranular | 4.6515<br>4<br>4.899<br>1.3605<br>5.023      | 0.2959<br>0.2576<br>0.3148<br>0.08353<br>0.323 | 1848 ± 17 Ma<br>(U/Pb method)       |
| 8        | F2009      | Block G | 9°54'37"     | 55°15'28" | Biotite granite      | Pxg         | Inequigranular | 4.595<br>3.1048<br>3.016<br>2.669<br>3.016   | 0.2982<br>0.1871<br>0.1817<br>0.1625<br>0.1817 | 1817 ± 57 Ma<br>(U/Pb method)       |
| 9        | F2010      | Block G | 9°51'16"     | 55°10'32" | Granite              | Gru         | Granoblastic   | 3.112<br>6.6238<br>5.437                     | 0.1907<br>0.4059<br>0.3303                     | 1937 ± 100 Ma<br>(U/Pb method)      |
| 10       | F1011      | Block F | 10°00'38"    | 55°01'04" | Monzogranite ?       | Pxg         | Inequigranular | 2.5978<br>2.2822<br>2.2973<br>4.516<br>5.352 | 0.158<br>0.13897<br>0.1399<br>0.2813<br>0.335  | 1894 ± 5.9 Ma<br>(U/Pb method)      |

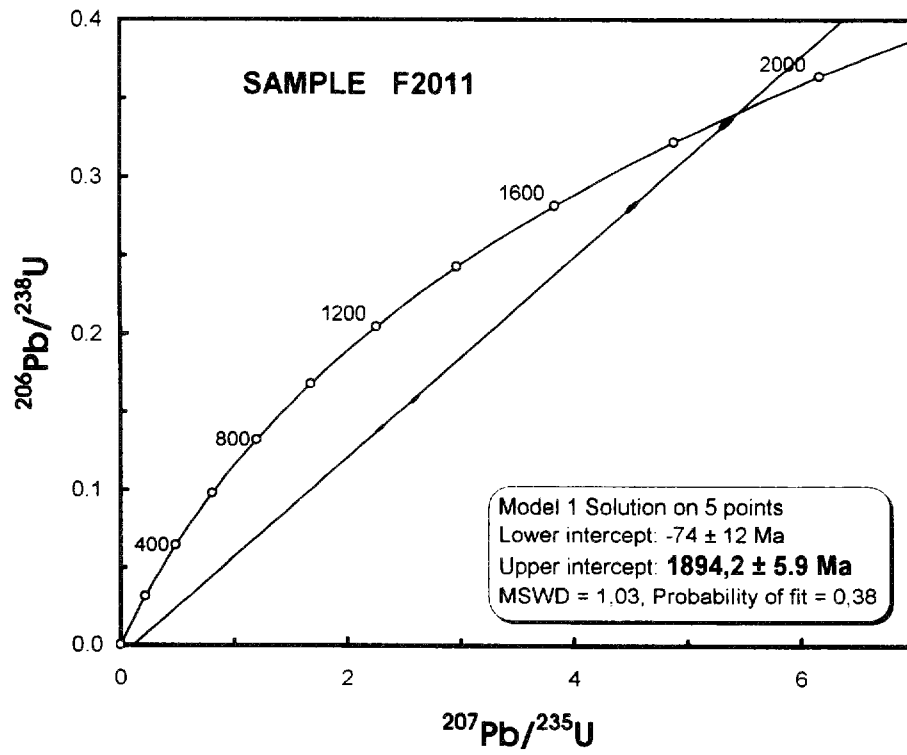


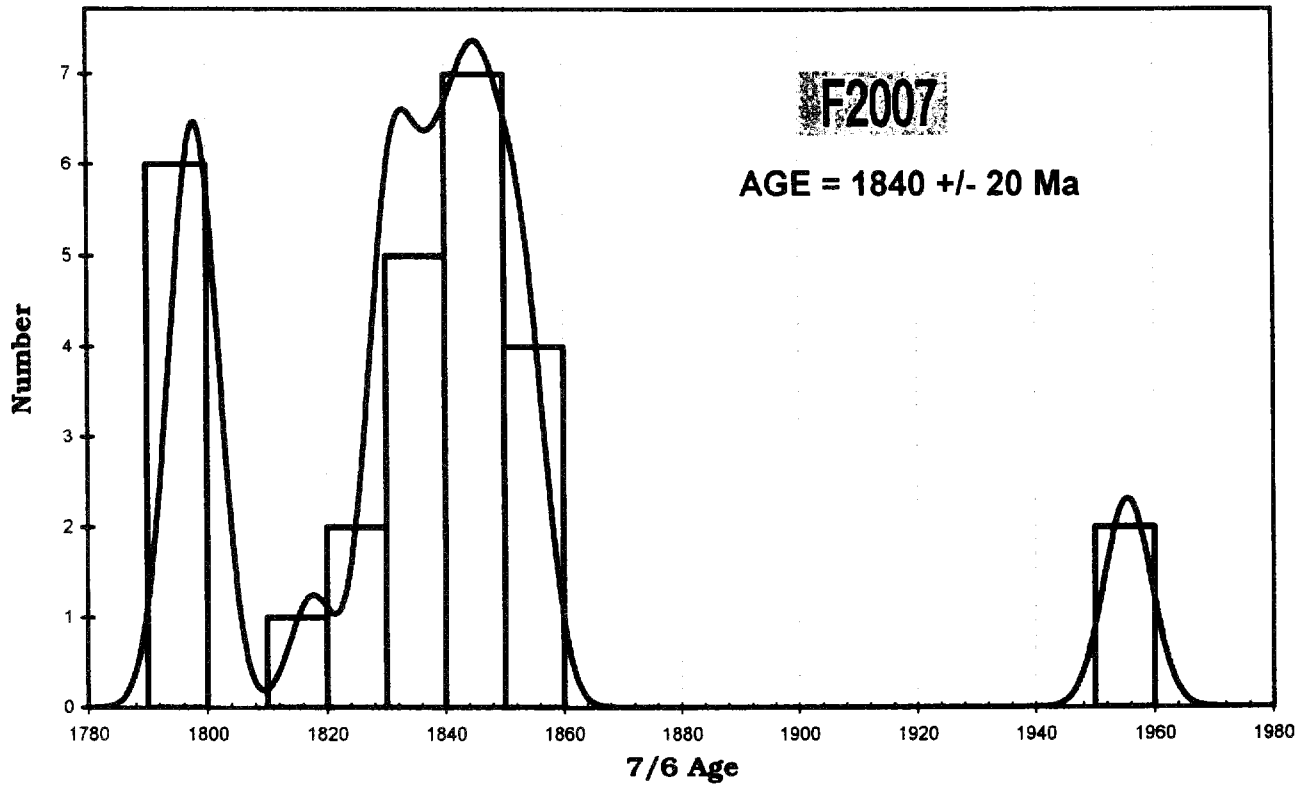












**SAMPLE FD-07**

|          | 207Pb/206Pb* | Age (Ma) |     |                              |
|----------|--------------|----------|-----|------------------------------|
| Zircon 1 | 0.1099       | 1797.75  | 0.2 | * corrected for common Pb.   |
|          | 0.1097       | 1794.43  | 0.2 |                              |
|          | 0.112        | 1832.12  | 0.2 |                              |
|          | 0.1111       | 1817.49  | 0.2 |                              |
|          | 0.1118       | 1828.88  | 0.2 |                              |
| Zircon 2 | 0.112        | 1832.12  | 0.2 |                              |
|          | 0.1128       | 1845.01  | 0.2 |                              |
|          | 0.1123       | 1836.97  | 0.2 |                              |
|          | 0.113        | 1848.21  | 0.2 |                              |
|          | 0.1125       | 1840.19  | 0.2 |                              |
|          | 0.1118       | 1828.88  | 0.2 |                              |
|          | 0.11         | 1799.40  | 0.2 |                              |
| Zircon 3 | 0.1098       | 1796.09  | 0.2 | 0.11145 1823.195             |
|          | 0.11         | 1799.40  | 0.2 | 0.002192                     |
|          | 0.112        | 1832.12  | 0.2 | 0.113642 1858.455            |
|          | 0.1123       | 1836.97  | 0.2 |                              |
|          | 0.12         | 1956.22  | 0.2 | 35.25931                     |
|          | 0.1199       | 1954.73  | 0.2 |                              |
| Zircon 4 | 0.1125       | 1840.19  | 0.2 | <b>AGE = 1823 +/- 35 Ma*</b> |
|          | 0.1134       | 1854.60  | 0.2 |                              |
|          | 0.1132       | 1851.41  | 0.2 |                              |
|          | 0.1129       | 1846.61  | 0.2 |                              |
| Zircon 5 | 0.11         | 1799.40  | 0.2 |                              |
|          | 0.1127       | 1843.40  | 0.2 |                              |
|          | 0.1132       | 1851.41  | 0.2 |                              |
|          | 0.1128       | 1845.01  | 0.2 |                              |
|          | 0.113        | 1848.21  | 0.2 |                              |

\* This age is derived from the grand average of all 207Pb/206Pb ratios. The best age estimate is derived from the graph in annex, excluding anomalously low and high ages.

Appendix 5 Analytical results and histogram of fluid inclusion  
in the project area

Temperatures and Salinity of Fluid Inclusion in the Project Area.

| Ser. No. | Sample No. | District         | Coordination |           | Rock Name   | Description   | Temperature (°C) |                |         | Salinity (%) |          | Au (g/t)          |
|----------|------------|------------------|--------------|-----------|-------------|---|------------------|----------------|---------|--------------|----------|-------------------|
|          |            |                  | S            | W         |             |   | Number           | Range          | Average | Number       | NaCl eq. |                   |
| 1        | A2126      | Block B          | 9, 2441"     | 57, 2400" | quartz vein | quartz vein   | 20               | 200.8 to 269.4 | 225.3   | 5            | 9.0      | 0.12              |
| 2        | A2136      | Block B          | 9, 2441"     | 57, 2400" | quartz vein | quartz vein   | 24               | 177.0 to 362.2 | 232.3   | 5            | 8.8      | 1.13              |
| 3        | A2009      | Block C          | 9, 2234"     | 57, 1422" | quartz vein | quartz vein with goethite                               | 21               | 150.1 to 326.6 | 183     | 5            | 18.6     | 0.01              |
| 4        | A2014      | Block C          | 9, 3242"     | 56, 3218" | quartz vein | quartz vein with hematite                               | 20               | 182.6 to 365.5 | 278.1   | 5            | 13.0     | 0.29              |
| 5        | A2040      | Block C          | 9, 3103"     | 56, 3418" | quartz vein | quartz vein with py-cp Dissemination                    | 20               | 272.1 to 386.0 | 313.4   | 5            | 11.9     | (113.44 to 76.74) |
| 6        | A2049      | Block C          | 9, 3103"     | 56, 3418" | quartz vein | quartz vein with hematite                               | 20               | 225.5 to 378.8 | 292.8   | 5            | >19.0    | 0.09              |
| 7        | B2002      | Block F          | 9, 3039"     | 56, 3517" | quartz vein | quartz vein   | 22               | 195.2 to 332.4 | 260.7   | 2            | 11.8     | 0.14              |
| 8        | B2024      | Block F          | 10, 0213"    | 55, 0131" | quartz vein | quartz vein   | 20               | 129.8 to 258.6 | 155.3   | 5            | 7.0      | 0.29              |
| 9        | B2044      | Block F          | 10, 0132"    | 55, 0031" | quartz vein | quartz vein   | 20               | 171.0 to 294.4 | 226.5   | 5            | 7.0      | 9.53              |
| 10       | B2048      | Block F          | 9, 5809"     | 54, 5844" | quartz vein | quartz vein   | 20               | 174.8 to 308.8 | 224.7   | 5            | 2.6      | 1.76              |
| 11       | B2051      | Block F          | 9, 5809"     | 54, 5844" | quartz vein | quartz vein   | 21               | 155.3 to 284.5 | 186.4   | 5            | 13.2     |                   |
| 12       | P2001      | Block F          | 9, 5223"     | 55, 2010" | quartz vein | quartz vein   | 26               | 148.4 to 190.3 | 164.7   | 5            | 7.6      | 0.73              |
| 13       | P2002      | Block F          | 9, 5223"     | 55, 2010" | quartz vein | quartz vein   | 20               | 182.5 to 282.9 | 221.5   | 5            | 1.2      | 0.03              |
| 14       | P2006      | Block F          | 9, 5223"     | 55, 2010" | quartz vein | quartz vein   | 20               | 200.8 to 269.4 | 225.4   | 5            | 9.0      | 0.85              |
| 15       | P2015      | Block F          | 9, 5223"     | 55, 2010" | quartz vein | quartz vein   | 20               | 158.8 to 280.8 | 216.8   | 5            | 7.9      | 1.55              |
| 16       | S2404      | Block G          | 9, 5223"     | 55, 2010" | quartz vein | quartz vein   | 20               | 184.7 to 332.6 | 253.4   | 5            | 9.9      | (1.87 to <0.01)   |
| 17       | A2430      | Block G          | 9, 5223"     | 55, 2010" | quartz vein | quartz vein with hm                                     | 20               | 175.1 to 343.5 | 234.8   | 5            | 7.5      | (28.73 to 45.06)  |
| 18       | A2440      | Block G          | 9, 5223"     | 55, 2010" | quartz vein | hm-goe rich quartz vein                                 | 20               | 179.0 to 279.2 | 223.8   | 5            | 5.9      | (0.05 to 10.04)   |
| 19       | A2443      | Block G          | 9, 5223"     | 55, 2010" | quartz vein | quartz vein with hm-py                                  | 20               | 189.3 to 355.0 | 260.1   | 5            | 7.9      | (0.04 to 1.41)    |
| 20       | A2450      | Block G          | 9, 5223"     | 55, 2010" | quartz vein | quartz vein with hm-ilm-goe                             | 20               | 182.4 to 341.8 | 259.1   | 5            | 2.9      | 5.76              |
| 21       | A2452      | Block G          | 9, 5223"     | 55, 2010" | quartz vein | quartz vein with hm                                     | 20               | 175.3 to 298.9 | 226.2   | 5            | 9.5      | 27.61             |
| 22       | A2491      | Block G          | 9, 5223"     | 55, 2010" | quartz vein | quartz vein with hm                                     | 20               | 187.8 to 349.3 | 258.8   | 5            | 1.9      | 0.29              |
| 23       | A2503      | South of Block B | 9, 3203"     | 57, 3049" | quartz vein | quartz vein (W. 80 cm)                                  | 20               | 180.0 to 283.9 | 230.1   | 5            | 9.0      | <0.01             |
| 24       | A2543      | South of Block B | 9, 3350"     | 57, 3529" | quartz vein | Floats of quartz veins                                  | 19               | 219.6 to 382.3 | 293.8   | 5            | 2.9      | <0.01             |
| 25       | A2544      | South of Block B | 9, 3350"     | 57, 3529" | quartz vein | Floats of quartz veins                                  | 20               | 189.9 to 355.6 | 269.5   | 5            | 3.9      | <0.01             |
| 26       | A2551      | South of Block B | 9, 3259"     | 57, 3038" | quartz vein | Float of quartz vein with ilm films along the fracture. | 20               | 190.9 to 343.2 | 257.2   | 5            | 6.9      | <0.01             |

Temperatures and Salinities of Fluid Inclusions

| Type    | Sample Block No. | Th: L+V     |             |       | Tm: Ice           |             |      | Salinity(%) (NaCl eq.) |             |       |
|---------|------------------|-------------|-------------|-------|-------------------|-------------|------|------------------------|-------------|-------|
|         |                  | Num.        | Range       | Ave.* | Num.              | Range       | Ave. |                        |             |       |
| H2O     | A2009            | 21          | 150.1_326.6 | 183   | 5                 | -18.4_-10.9 | -15  | 18.6                   |             |       |
| H2O     | A2126            | 20          | 200.8_269.4 | 225.3 | 5                 | -6.5_-5.4   | -5.8 | 9.0                    |             |       |
| H2O     | A2136            | 24          | 177.0_362.2 | 232.3 | 5                 | -7.4_-4.7   | -5.7 | 8.8                    |             |       |
| H2O     | B2024            | 20          | 129.8_258.6 | 155.3 | 5                 | -5.0_-3.7   | -4.4 | 7.0                    |             |       |
| H2O     | B2044            | 20          | 171.0_294.4 | 226.5 | 5                 | -5.2_-3.9   | -4.4 | 7.0                    |             |       |
| H2O     | B2048            | 20          | 174.8_308.8 | 224.7 | 5                 | -2.2_-1.2   | -1.5 | 2.6                    |             |       |
| H2O     | B2051            | 21          | 155.3_284.5 | 186.4 | 5                 | -13.1_-5.1  | -9.3 | 13.2                   |             |       |
| H2O     | P2001            | 26          | 148.4_190.3 | 164.7 | 5                 | -5.2_-4.3   | -4.8 | 7.6                    |             |       |
| H2O     | P2002            | 20          | 182.5_282.9 | 221.5 | 5                 | -1.2_-0.3   | -0.7 | 1.2                    |             |       |
| H2O     | P2006            | 20          | 200.8_269.4 | 225.4 | 5                 | -6.5_-5.4   | -5.8 | 9.0                    |             |       |
| H2O     | P2015            | 20          | 158.8_280.8 | 216.8 | 5                 | -7.1_-2.7   | -5.0 | 7.9                    |             |       |
| H2O     | S2404            | 20          | 184.7_332.6 | 253.4 | 5                 | -9.0_-4.9   | -6.5 | 9.9                    |             |       |
| H2O     | A2430            | 20          | 175.1_343.5 | 234.8 | 5                 | -6.4_-3.0   | -4.7 | 7.5                    |             |       |
| H2O     | A2440            | 20          | 179_279.2   | 223.8 | 5                 | -7.2_-1.3   | -3.6 | 5.9                    |             |       |
| H2O     | A2443            | 20          | 189.3_355   | 260.1 | 5                 | -5.9_-4.2   | -5.0 | 7.9                    |             |       |
| H2O     | A2450            | 20          | 182.4_341.8 | 259.1 | 5                 | -3.3_-0.9   | -1.7 | 2.9                    |             |       |
| H2O     | A2452            | 20          | 175.3_298.9 | 226.2 | 5                 | -8.0_-4.7   | -6.2 | 9.5                    |             |       |
| H2O     | A2491            | 20          | 187.8_349.3 | 258.8 | 5                 | -2.2_-0.5   | -1.1 | 1.9                    |             |       |
| H2O     | A2503            | 20          | 180_283.9   | 230.1 | 5                 | -8.5_-4.1   | -5.9 | 9.0                    |             |       |
| H2O     | A2543            | 19          | 219.6_382.3 | 293.8 | 5                 | -3.5_-0.1   | -1.7 | 2.9                    |             |       |
| H2O     | A2544            | 20          | 189.9_355.6 | 269.5 | 5                 | -3.2_-0.3   | -2.3 | 3.9                    |             |       |
| H2O     | A2552            | 20          | 190.9_343.2 | 257.2 | 5                 | -6.0_-2.1   | -4.3 | 6.9                    |             |       |
|         |                  | Th: CO2+H2O |             |       | Th: CO2(L)+CO2(V) |             |      | Tm: Dryice             |             |       |
|         |                  | Num.        | Range       | Ave.* | Num.              | Range       | Ave. | Num.                   | Range       | Ave.  |
| H2O-CO2 | A2014            | 20          | 182.6_365.5 | 278.1 | 5                 | 24.4_30.4   | 27.0 | 5                      | -57.8_-57.6 | -57.7 |
| H2O-CO2 | A2040            | 20          | 272.1_386.0 | 313.4 | 5                 | 12.8_22.0   | 18.0 | 5                      | -58.1_-57.2 | -57.4 |
| H2O-CO2 | A2049            | 20          | 225.5_378.8 | 292.8 | 5                 | 5.9_11.2    | 8.8  | 5                      | -59.6_-58.1 | -59.0 |
| H2O-CO2 | B2002            | 22          | 195.2_332.4 | 260.7 | 2                 | 20.1_31.0   | 25.6 | 5                      | -57.8_-56.9 | -57.4 |

