→ M/Y Falls

885899 [PDA '92 Core Shack]

STRATIGRAPHY OF THE GAP-BATTLE AREA
MYRA FALLS OPERATIONS
WESTMIN RESOURCES LIMITED
VANCOUVER ISLAND, B.C.

UPPER MINE STRATIGRAPHY

1)Mafic Purple and Green: fine tuff to agglomeratic lapilli tuff, hematite (+/-chlorite) altered, monolithic, well sorted to unsorted, massive to thinly bedded, >100m thick.

2) Upper Rhyolite:

2a) Jasper: blood red, thinly bedded, trace pyrite, <5% quartz + calcite veinlets, <3m thick.

2b) Rhyolite (+/- argillite/mudstone): lapilli tuff to tuffaceous agglomerate, medium to dark green (+/-red), unsorted, subangular clasts to 10cm, <5% 0.5-3.0mm quartz phenocrysts, >15% 1-8mm plagioclase phenocrysts, moderate variable epidote-hematite alteration, tr pyrite, trace sphalerite, <15m thick.

3) Heterolithic Purple and Green: mafic-andesite-dacite (+/- rhyolite) agglomeratic lapilli tuff, unsorted, subangular clasts, thick bedded, epidote-hematite altered, >60m thick.

4) Ore Clast Breccia:heterolithic (mafic-andesite-rhyolite-argillite-sulphide) lapilli tuff to agglomeratic lapilli tuff, dark green, weakly feldspar porphyritic, pyrite>chalcopyrite>sphalerite clasts to 20 cm, moderately to well sorted, <60m thick.

5) Hangingwall Andesite: fine tuff to agglomeratic lapilli tuff, dark green feldspar porphyritic, monolithic, thin-thick bedded, epidote-chlorite altered, 0-50m thick.

H-W HORIZON MINE STRATIGRAPHY

6) H-W Rhyolite:

6a) Quartz Feldspar Porphyry: massive flow to tuffaceous agglomerate, poorly preserved texture, colour varies with alteration (quartz>sericite>>>chlorite>>>hematite), >3% 1-4mm quartz phenocrysts, 3-80m thick.

6b) Rhyolite-Chert lapilli tuff: thin bedded, locally brecciated (+/- vitric/crystal fragments), tr quartz phenocrysts, <2m thick.

6c) Chert: pale green-grey, thin disrupted bedding, 0-10% stringer pyrite/sphalerite/galena, <2mthick.

7) GAP Lense:

7a) sphalerite-barite-galena-(bornite-chalcopyrite-chalcocite)
ddh L14-720, 194.8m
3.3g/T Au, 101 g/T Ag, 1.5% Cu, 5.0% Pb, 24.2% Zn, 37% Ba, 1.4% Fe

7b) sphalerite-barite-bornite-(chalcopyrite-tennantite-chalcocite)
ddh L14-720, 202.1m
6.4 g/T Au, 199 g/T Ag, 3.1% Cu, 2.2% Pb, 28.1% Zn, 28% Ba, 3.4% Fe
ddh L14-713, 195.1m
1.1 g/T Au, 55 g/T Ag, 1.3% Cu, 3.3% Pb, 35.7% Zn, 20% Ba, 3.7% Fe

7c) Pyrite-sphalerite-bornite-(barite)
ddh L14-713, 206.2m
4.7 g/T Au, 460 g/T Ag, 5.7% Cu, 1.2% Pb, 21.6% Zn, 6.2% Ba, 21.5% Fe
ddh L14-713, 220.8m
1.1 g/T Au, 480 g/T Ag, 4.8% Cu, 0.1% Pb, 21.8% Zn, 4.3% Ba, 19.6% Fe

7d) Pyrite-bornite-chalcopyrite-sphalerite-(barite)
ddh L15-446 159.7m
2.5 g/T Au, 712 g/T Ag. 8.0% Cu, 0.05% Pb, 17.9% Zn, 4.6% Ba, 24.6% Fe

7e) Pyrite-chalcopyrite-sphalerite-(barite)
ddh L15-446 170.1m
0.9 g/T Au, 72 g/T Ag, 2.6% Cu, 0.2% Pb, 7.0% Zn, 2.4% Ba, 30.5% Fe

7f) Pyrite-chalcopyrite
ddh L15-450, 183.6m
0.5 g/T Au, 38.2 g/T Ag, 2.3% Cu, 0.1% Pb, 0.6% Zn, 0.6% Ba, 39.1% Fe

8) H-W Rhyolite

8a) Quartz-feldspar-porphyry

8b) Rhyolite-chert lapilli tuff

8c) Chert: massive to thinly bedded

9) Battle Lense

9a) Sphalerite-galena-chalcolyrite-tennantite
ddh L14-906 267.6m
2.3 g/T Au, 33.1 g/T Ag, 1.4% Cu, 7.2% Pb, 23.1% Zn, tr Ba, 10.9% Fe

9b) Sphalerite-chalcopyrite-(pyrite)
ddh L14-906, 270.7m
1.5 g/T Au, 21.7 g/T Ag, 4.5% Cu, 0.1% Pb, 17.0% Zn, tr Ba, 24.0% Fe

9c) Chalcopyrite-pyrite
ddh L14-906 273.5m
1.7 g/T Au, 35.6 g/T Ag, 4.5% Cu, tr Pb, 0.3% Zn, tr Ba, 33.5% Fe

10 Footwall "Andesite": 2-20% coarse grained pyrite, tr-10% chalcopyrite, feldspar porphyritic, vitric-like wispy "fragments, very strong sericite alteration, >200m thick.