

APPENDIX F

BULK SULPHIDE FLOTATION OF COMPOSITES PC1, PC2, SC1 AND SC2

Test PC1/BF - Stage grind to 100% -401 μm at 60% solids (10 min., 16 kg charge); stage sulphide rougher floats in 40 litre cell followed by cleaner and recleaner floats at higher densities.

(a) Flotation Conditions and Reagents

Stage	Conditions			Reagent Addition kg/t	
	Time (min.)		pH	PAX	MIBC
	Conditioning	Flotation			
Rougher Float 1	2	5	5.9	0.01	0.03
Rougher Float 2	5	5	-	0.01	-
Rougher Float 3	5	5	-	0.01	0.01
Rougher Float 4	2	5	-	0.01	-
Rougher Float 5	2	5	-	0.01	0.01
Rougher Float 6	5	5	-	0.01	-
Cleaner Float 1	-	7	5.8	-	-
Cleaner Float 2	2	5	-	0.01	-
Recleaner Float	-	7	6.0	-	-

(b) Results

Test Product	Weight %	Assay %				Distribution %			
		Sn	Acid Soluble Sn	Total S	Fe	Sn	Acid Soluble Sn	Total S	Fe
Sulphide Reel Conc.	2.61	0.35	0.27	45.3	41.2	3.84	26.57	18.64	21.22
Sulphide Reel Tail	0.25	97.39	0.235	0.02	5.30	4.10	96.16	73.43	81.54
Sulphide CI Tail	4.14								
Sulphide FO Tail	92.97								
Calc Head	100.00	0.24	0.027	6.34	5.07	100.00	100.00	100.00	100.00
Assay Head		0.24	0.02	6.30	5.09				