

## APPENDIX E

FLOTATION TEST PROCEDURES AND RESULTS OF  
COMPOSITES PC1, PC2, SC1 AND SC2

Test PC1/F1 - Stage grind to 100% -75  $\mu$ m at 60% solids (8½ min., 500 g charge);  
deslime at 7  $\mu$ m; sulphide pre-float; stage tin rougher float  
with PTAA as collector.

(a) Flotation Conditions and Reagents

Stage	Conditions			Reagent Additions kg/t			
	Time (min.)		pH	SSBX	PTAA	H <sub>2</sub> SO <sub>4</sub>	MIBC
	Conditioning	Flotation					
Sulphide Ro Float 1	2	5	6.5	0.01	-	-	0.04
Sulphide Ro Float 2	2	5	6.5	0.01	-	-	0.02
Tin Ro Float 1	5	5	5.0	-	0.25	0.162	0.02
Tin Ro Float 2	5	5	5.0	-	0.25	0.034	0.01
Tin Ro Float 3	5	5	5.0	-	0.20	0.028	0.01
Tin Ro Float 4	5	5	5.0	-	0.20	0.026	0.01
Tin Ro Float 5	5	5	5.0	-	0.20	0.020	0.01
Tin Ro Float 6	5	5	5.0	-	0.20	0.020	0.01

(b) Results

	Weight %	Assay % Sn	Distribution % Sn
Sulphide Ro Conc	9.32	0.27	9.84
Tin Ro Conc 1	4.73	6.63	30.33
Tin Ro Conc 2	1.90		
Tin Ro Conc 3	1.19	2.62	45.27
Tin Ro Conc 4	1.43		
Tin Ro Conc 5	1.18	2.21	9.42
Tin Ro Conc 6	1.03		
(Tin Ro Conc 1 to 6)	(11.46)	(1.90)	(85.02)
Tin Ro Tail	73.41	0.01	2.87
Slime -7 $\mu$ m	5.80	0.10	2.27
Calc Head	100.00	0.26	100.00
Assay Head		0.26	