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Mineralogy of offshore sand samples from the south coast

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Offshore sand samples from the south coast were examined with results as follows:

New Harbour

50 g sample; 0.06 g concentrates consisting nearly all of quartz with a small amount of ilmenite.

Window Pane Bay

50 g sample; 0.6 g concentrates consisting nearly all of quartz with small amounts of ilmenite, garnet and zircon.

Cox Bight No. 1

50 g sample; 0.6 g concentrates consisting nearly all of quartz with small amounts of ilmenite, tourmaline, zircon and garnet.

Cox Bight No. 3

50 g sample; 0.45 g concentrates similar to No. 1.

Cox Bight No. 4

50 g sample; 0.5 g concentrates comprising 24% ilmenite, 4% rutile, 12% garnet, 13% zircon, 2% tourmaline, 1% epidote and 44% quartz.

The following are grain percentages of minerals in offshore sands from:

1. Louisa Bay 1A
2. Louisa Bay East No. 1
3. Louisa Bay No. 3
4. Louisa Bay No. 3D
5. Ketchem Bay

<i>Sample</i>	<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
Weight (g)	50	50	50	50	50
HMF (g)	1.6	2.55	1.7	2.9	0.42
Ilmenite (%)	30	14	42	17	8
Zircon (%)	7	2	7	4	26
Leucoxene (%)	10	13	8	13	8
Garnet (%)	20	7	32	20	-
Epidote (%)	3	2	8	2	2
Quartz (%)	30	54	2	40	56
Topaz (%)	tr.	6	1	4	
Cassiterite (%)	tr.	tr.			

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