

DESK-TOP PALAEOONTOLOGY ASSESSMENT: TINLEY MANOR PHASE 2 NORTH & SOUTH BANKS

Dr Alan Smith Pr. Sci. Nat. (9/11/2015)

TERMS OF REFERENCE

Provide a Desk-top Palaeontological Assessment for Tinley Manor Phase 2 North and South Banks. The geology was obtained from the 1:250 000 Geological Map (Thomas, 1988).



Fig. 1: GoogleEarth image of the Tinley Manor Phase 2 North & South Bank.

TINLEY MANOR PHASE 2 NORTH BANK

Four lithologies crop out in the Tinley Manor Phase 2 North Bank:

1. Dolerite: Present as sills exposed on the beach and on a single hill top. This rock is also likely to be exposed as dykes. This rock is igneous and NOT FOSSILIFEROUS.
2. Natal Group Sandstone: This rock is NOT FOSSILIFEROUS.
3. Vryheid Formation: This rock is rich in trace fossils but it is extremely common in KwaZulu-Natal and has no scarcity value.
4. Berea Formation: This formation is not consolidated. Although it is described as Berea Formation it probably contains dunes of varies ages. No palaeontology reports are known.

TINLEY MANOR PHASE 2 SOUTH BANK

Three lithologies crop out in the Tinley Manor Phase 2 South Bank:

1. Dolerite: Present as sills exposed on the beach and on a single hill top. This rock is also likely to be exposed as dykes. This rock is igneous and NOT FOSSILIFEROUS.
2. Pietermaritzburg Formation: This rock is rich in trace fossils but it is extremely common in KwaZulu-Natal and has no scarcity value.
3. Berea Formation: This formation is not consolidated. Although it is described as Berea Formation it probably contains dunes of varies ages. No palaeontology reports are known.
4. Natal Group Sandstone (NOT FOSSILIFEROUS). This rock is not exposed but maybe present at depth.

REFERENCE: Thomas, RJ (1988). 2930 DURBAN 125 000 geological map. According to the 2930 DURBAN 125 000 geological map. Council for Geosciences, Government Printer, Pretoria.