

mass east of the Arapaoa Fault. The shoreline probably fluctuated in position between Tinopai and Pakaurangi, and the Puketi sediments were periodically exposed to subaerial erosion and the consequent formation of soil horizons and lignite seams. One definite marine intercalation is seen on Pakaurangi Point itself, where there is an onlap sequence of very shallow-water sediments rich in Foraminifera—the Pakaurangi *Miogyopsina* Sandstone.

Little or no depositional or tectonic activity has occurred in this area since the Lower Miocene.

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APPENDIX: LOCALITIES OF FOSSIL COLLECTIONS

The following fossil localities referred to in the foregoing paper are listed with grid references to eight figures. The latter are subdivisions of the standard six-figure grid references for Sheet N28 (Maungaturoto) of the N.Z.M.S. 1 Provisional Series.

<i>Microfauna</i>	<i>Grid Reference</i>	<i>Macrofauna</i>	<i>Grid Reference</i>
N28/781	N28/81523450	N28/849	79753496-79783502
782	81433453	850	79753496
784	81263468	851	79753496-79753495
785	81513456	852	79753495
786	81133484	853	79753495-79743494
787	80993493		
788	81463474		
789	80603498	854	Waiteroa Shellbeds on east side of Coates Bay; N28/800350.
790	80903496	855	79993499-80013498
791	80713504	856	80013498
792	80043497	857	80013498-80023498
795	79763500	858	80023498
		859	80023498-80033498
<i>Microflora</i>	<i>Grid Reference</i>	860	80543502-80663504
N28/794	N28/79603480	861	80663504-80703504
		862	80503500-80543502
	<i>Earlier Workers</i>	863	80703504-80763502
<i>Macrofauna</i>	<i>and Grid References</i>	864	80243505-80263504
N28/687	Cox (1880); Park (1885); Marshall (1916); Vaughan, Marshall, and Marwick (1924); Ferrar (1934); Laws (1939-44).	865	80263504-80313504
		866	80363502-80433502
		867	80433502-80503500
		868	80763502-80953496
		869	81433482-81483465
		870	80953496-81033493
846	Subsequent general collections from Pakaurangi.	871	81033493-81073488
847	Waiteroa to Hollands Members N28/802350-805350, and G.S.3246, Fleming (1944).	872	General Pakaurangi Member and G.S.3248, Fleming (1944).
		873	81483465-81513455
		874	81073488-81113486
687	Waiteroa Shellbeds, Coates Bay, G.S.3247, Fleming (1944).	875	81113486-81153483
		876	81153483-81223474
		877	81223474-81263469
848	Waiteroa Shellbeds on the west side of Coates Bay; N28/397350.	878	81263469-81293465
		879	81513455-81523452
		880	81383457-81503451