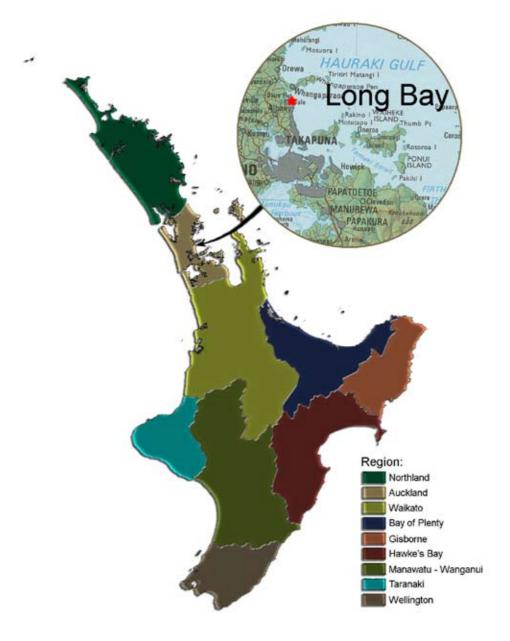
Auckland Region

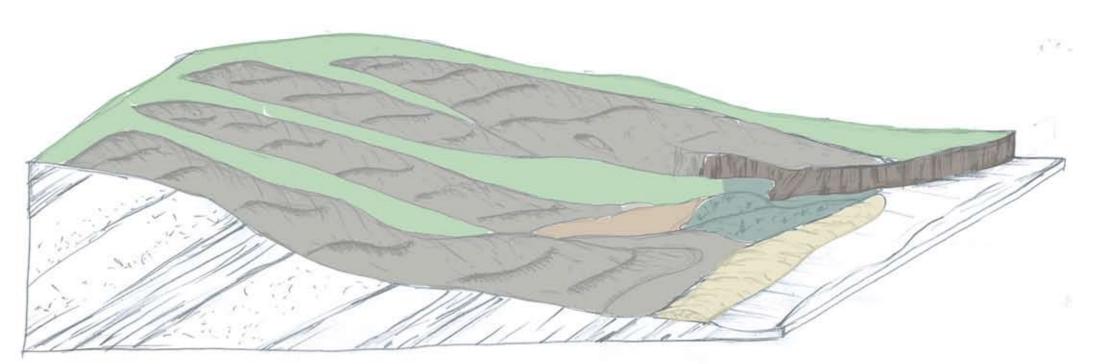
Long Bay, North Shore City re. Long Bay Structure Plan



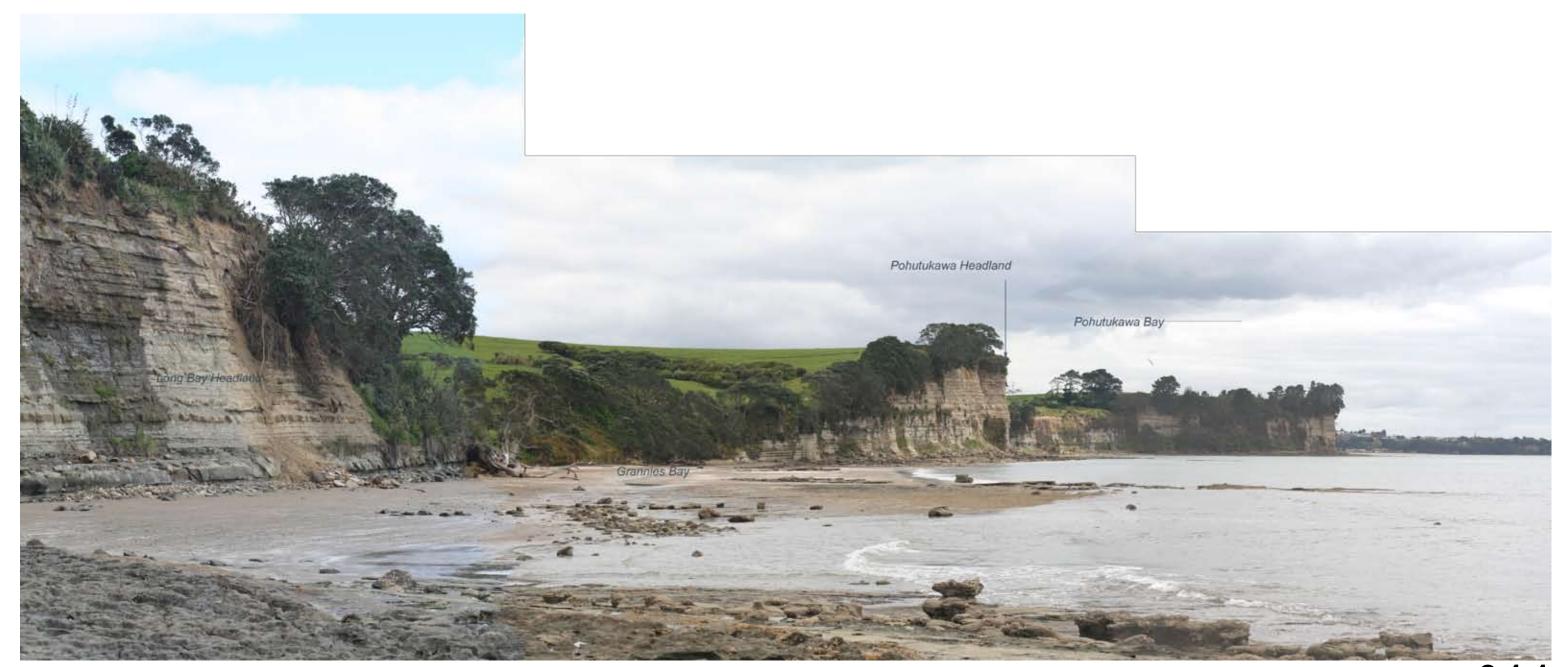


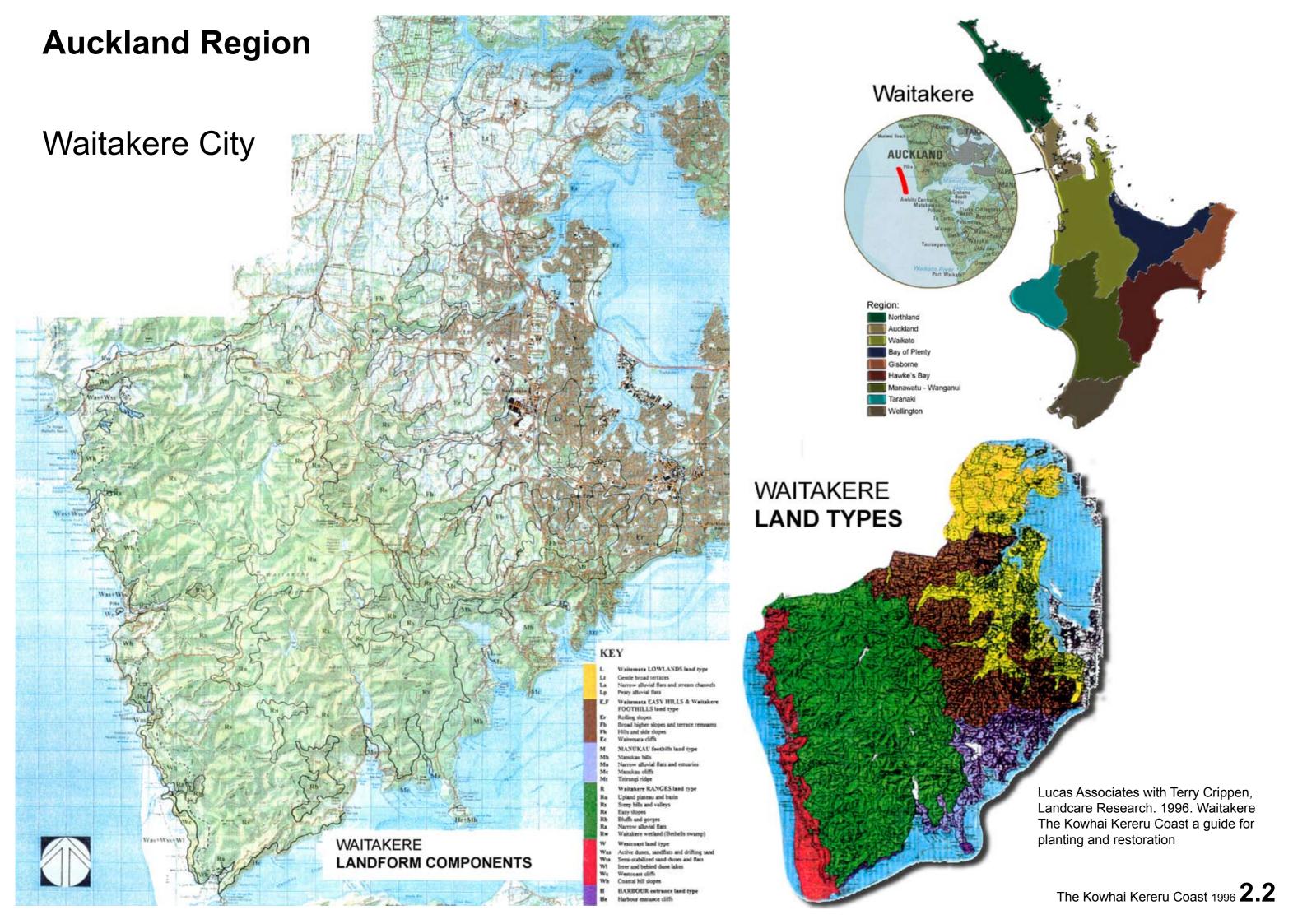
Landform Components:

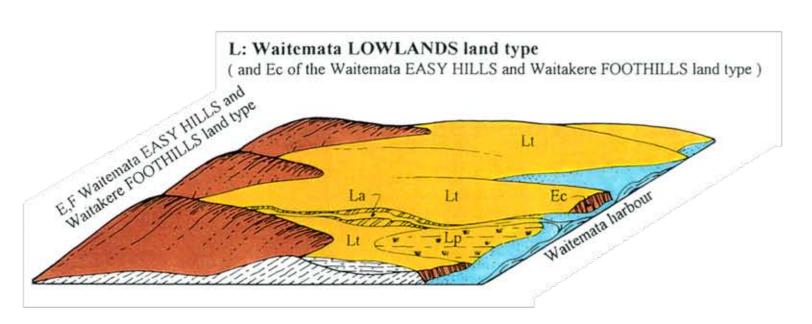
- Fb Rolling higher slopes- ridge lines
- Fh Strongly rolling to moderate steep slopes
- Ec Steep to very steep cliffs
- Lp Peaty alluvial flats
- La Alluvial flats
- Db Dunes and beach deposits

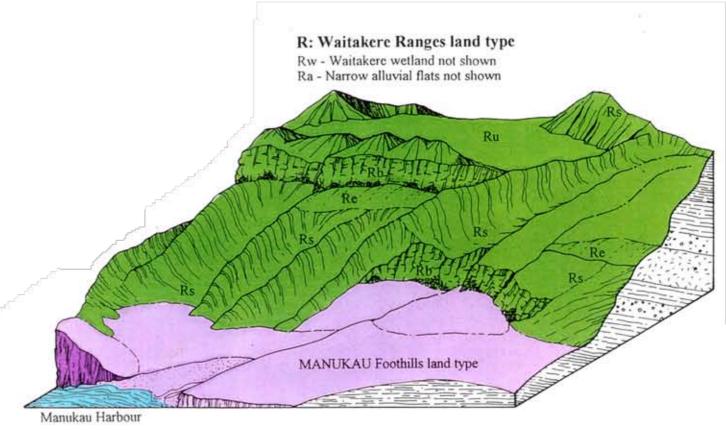


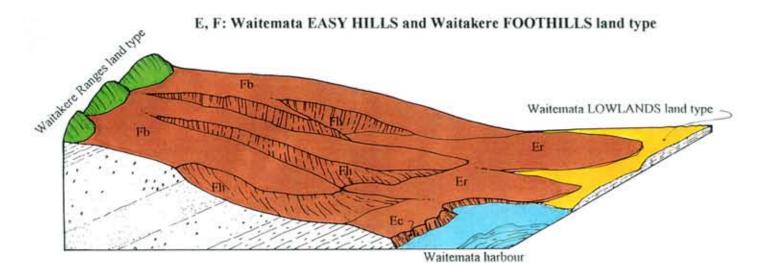
Land Type is as for Waitemata Harbour and Weiti-Karepioro Bay





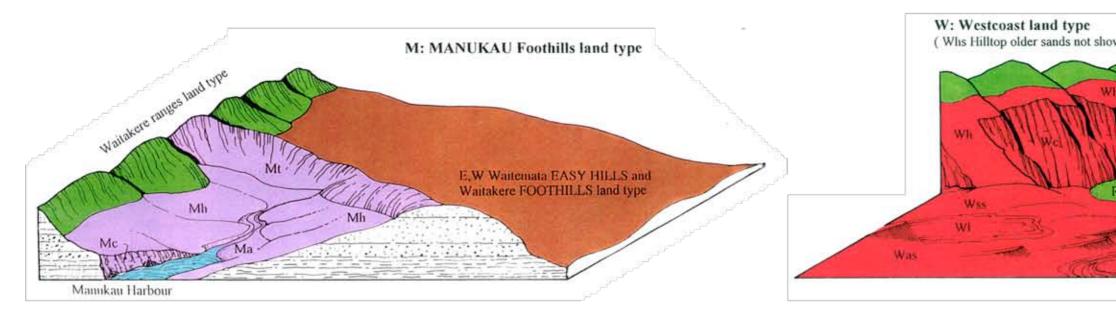


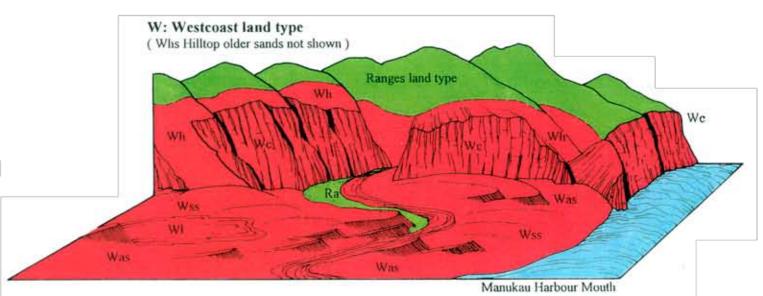




M: MANUKAU Foothills land type

WAITAKERE LAND TYPE **BLOCK DIAGRAMS**



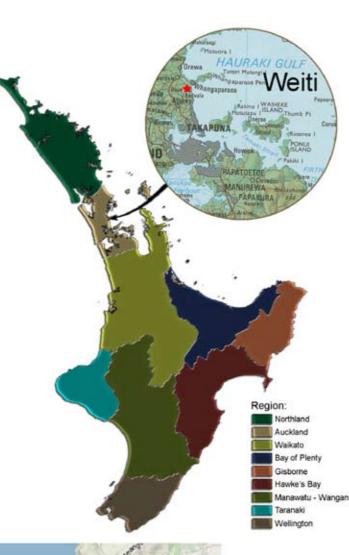


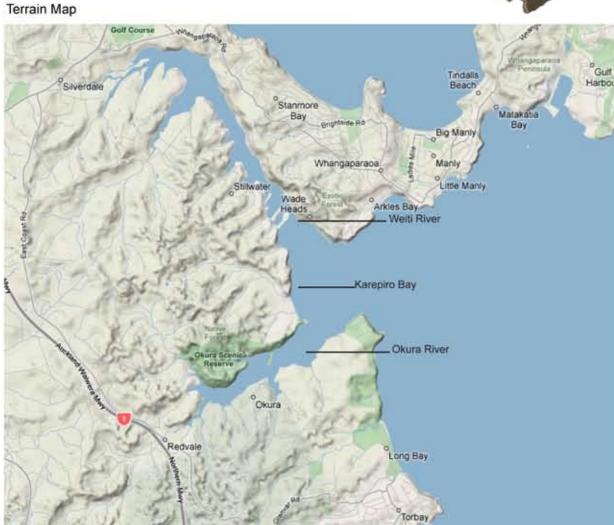
Auckland Region

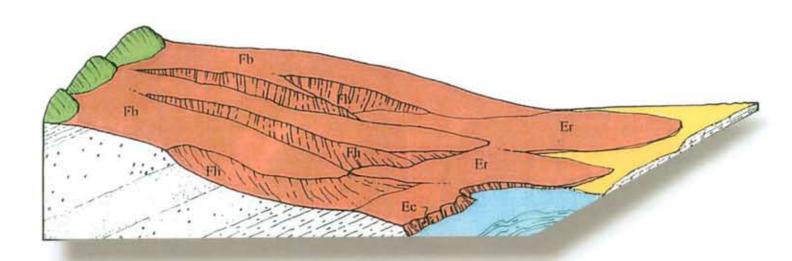
Weiti-Karepiro Bay Rodney District

Land Types

Eastern Bays Formation







Er: Rolling slopes	Harbour; <150m asl; 1400-1800mm asoft weathered alternating bedded sandstones and mudstones: (East Coast Bay Formation of the Waitemata group, Miocene age)	<100m; rolling to strongly rolling	fine sand and clay loams on clayey weathered Waitemata group rocks; imperfectly to poorly drained and some well to moderately well drained: podzolised yellow-brown earths (Mahurangi, Hukerenui series), and leached yellow-brown earths (Warkworth series), some complexes as found in Li
Fb: Broad higher slopes and 'terrace' remnants	soft weathered alternating sandstones and mudstones, and thick bedded volcanic sandstones: (East Coast Bay and Comwallis Formations of the Waitemata group, Miocene age). Also erosional and weathered volcanic materials from the adjacent Ranges land type	40-120m; undulating to rolling	clay loams on weathered volcanic or sedimentary materials; well to moderately well drained and some poorly drained soils: leached brown granular loams and clays (Parau, Cornwallis scries) and yellow-brown earths (Warkworth series), and podzolized yellow-brown earths (Mahurangi series)
Fh: Hills and side slopes	weathered and partially weathered, alternating sandstones and mudstones, and thick bedded volcanic sandstones: (East Coast Bay and Comwallis Formations). Also erosional and weathered volcanic materials from the adjacent Ranges land type	40-120m; strongly rolling to moderately steep	clay loams on weathered volcanic or sedimentary materials; well to moderately well drained; and some poorly drained soils: leached brown granular loams and clays (Parau, Cornwallis series) and yellow-brown earths (Warkworth series), and podzolized yellow-brown earths (Mahurangi series), and associated hill soils
Ec: Waitemata cliffs	moderately hard, or soft if partially weathered, alternating bedded sandstone and mudstone: (East Coast Bays formation)	<20m; very steep to precipitous	

adapted from Waitakere - The Kowhai Kereru Coast, Lucas Associates & Huia Conservators, 1996



Planting guide for Waitakere City Council

Long Bay Reserve development plan - October 2005

Te Wairoa, Clevedon, Manukau City Te Wairoa **Land Types** Region: Auckland **Land Types** Waikato Bay of Plenty **Bottom lands** Hawke's Bay Flat to very gently sloping estuarine mud flats and low floodplain terraces with Fluid Sulphuric Gley and/or Fluid-Sulphuric Raw soils. 2. Beach deposits of loose sand, gravel and shell 3. Low terraces of alluvium, estuarine, swamp and fan deposits Hill country 4. Strongly rolling hill country underlain by Greywacke 5. Strongly rolling to moderately steep hill country underlain by Greywacke Wairoa River Pukekawa

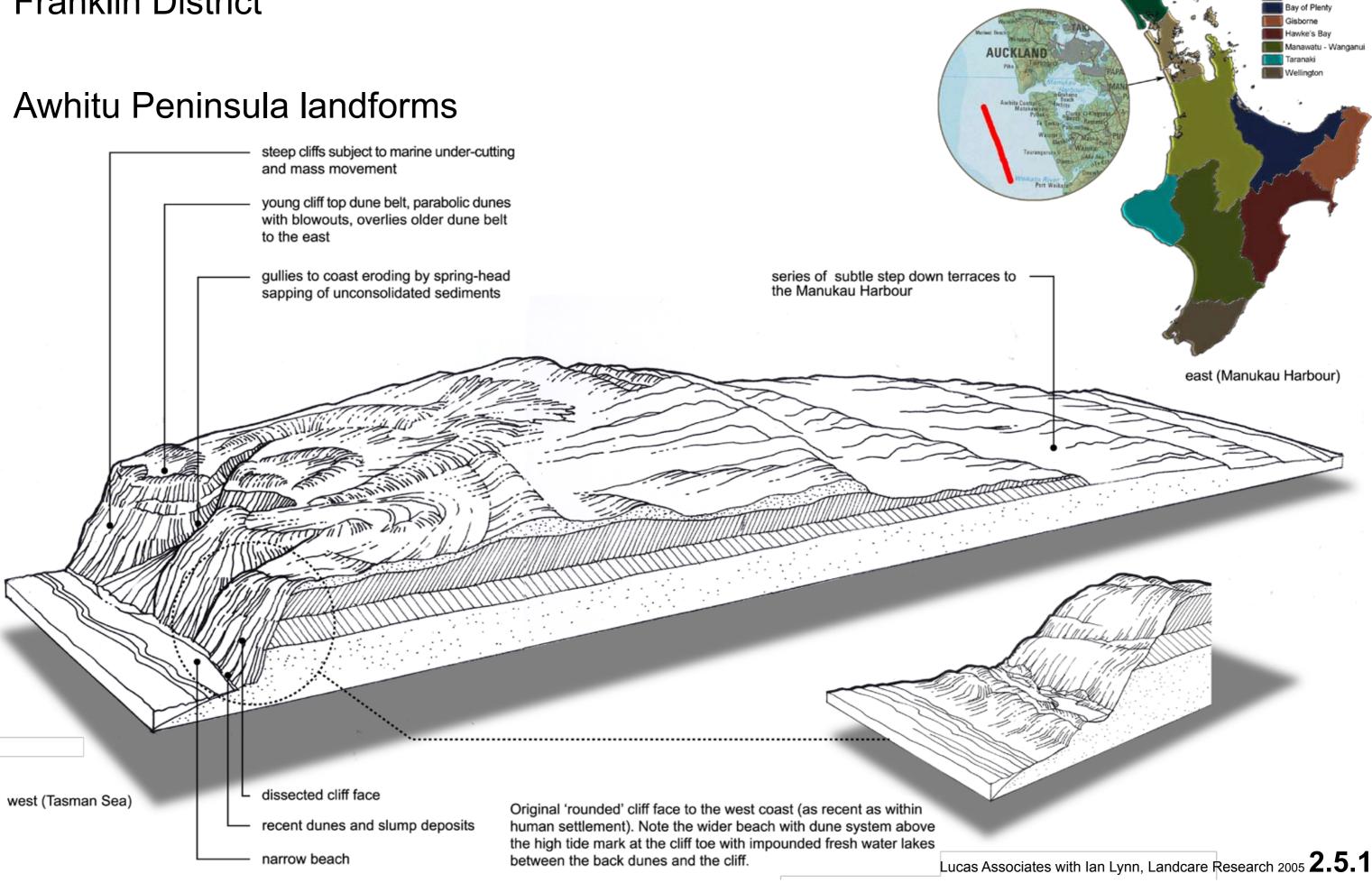
Whakakaiwhara



Awhitu Peninsula

Auckland Region

Franklin District



Awhitu

Peninsula

Region:



Awhitu Peninsula view north from above Kariotahi Beach and cliffs across the sand peninsula to the Manukau Harbour



Awhitu Peninsula dissected cliff face, recent dunes and slump deposits, narrow beach landforms