

4.2 LEVEL TWO SITES

SITE NAME (MAINLAND)	SURVEY NUMBER	GRID REFERENCE
Ngaiotonga Remnants	Q05/027	Q05 314 521, Q05 317 519, Q05 316 516, Q05 312 521, Q05 311 519, Q05 318 516, Q05 309 521
Oakura Remnants	Q05/032	Q05 318 450, Q05 314 447
Taipuhi Road Remnants	Q06/008	Q06 194 349, Q06 189 346, Q06 184 348
Jubilee Road Remnant	Q06/034	Q06 350 301
Haumakariri Stream Remnant	Q06/035	Q06 302 359, Q06 309 364
Lowe Road Remnant	Q06/076	Q06 349 244
Kaiatea Remnant	Q06/084	Q06 424 201
Omaikao Stream Remnant	Q06/086	Q06 417 215
Te Toira Road Remnant	Q06/087	Q06 436 201
Kirikiritoki Remnants	Q06/088	Q06 334 254, Q06 328 256
Tutukaka Block Shrubland	Q06/096	Q06 484 188
Maddren Road Bush	Q06/107	Q06 353 270, Q06 354 273
Waiparera Shrubland	Q07/017	Q07 443 071
(ISLANDS)		
Goat Island	Q06/126	Q06 478 150

NGAIOTONGA REMNANTS

Survey no.	Q05/027
Survey date	5 February 1997
Grid reference	Q05 314 521, Q05 317 519, Q05 316 516, Q05 312 521, Q05 311 519, Q05 318 516, Q05 309 521
Area	18 ha
Altitude	15–45 m asl

Ecological unit

- (a) Taraire forest on hillslope
- (b) Kanuka/manuka-taraire-totara forest on hillslope
- (c) Kanuka/manuka-totara forest on hillslope

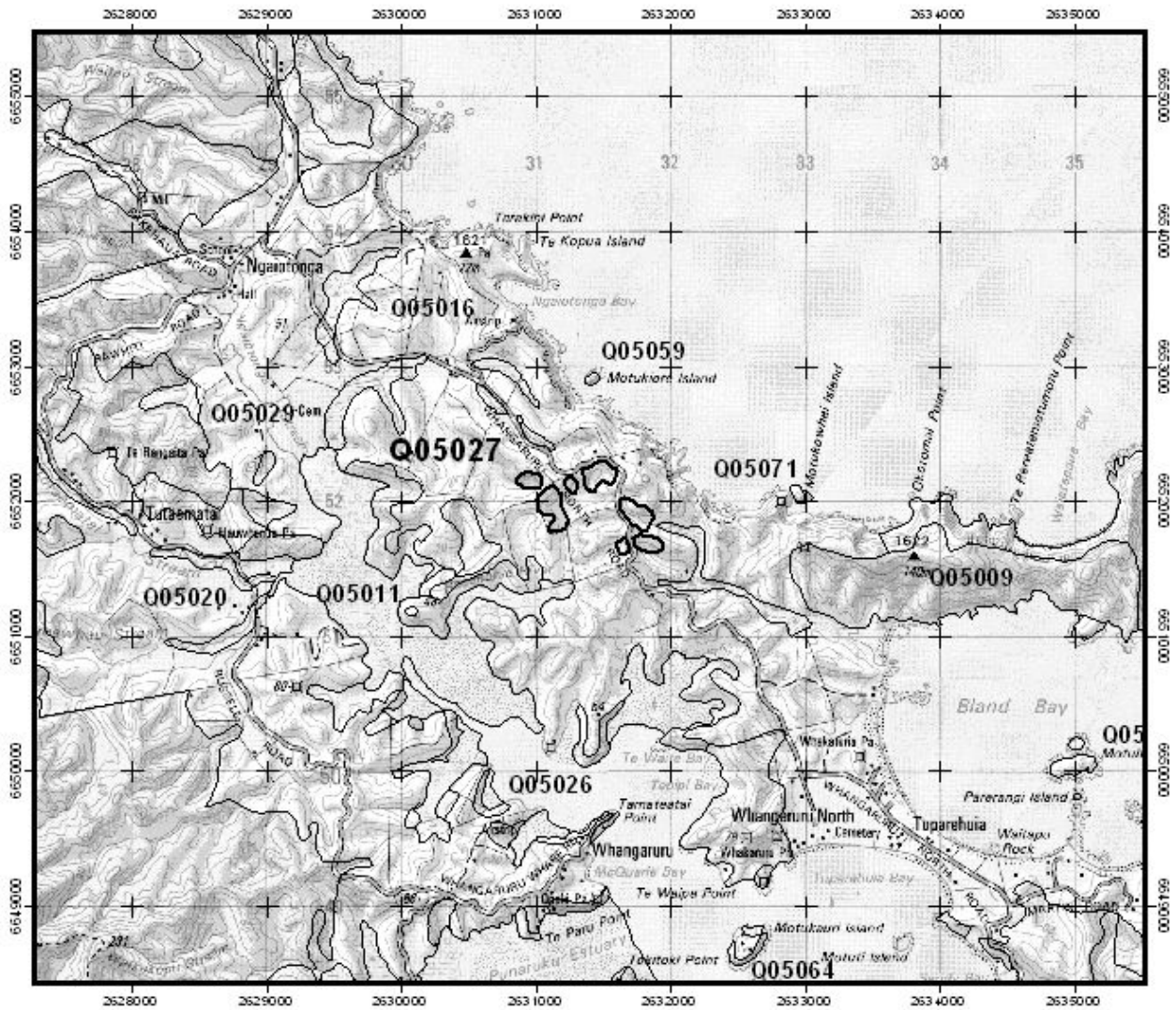
Landform/geology

Dissected coastal hillcountry in Waipapa Terrane greywacke.

Vegetation

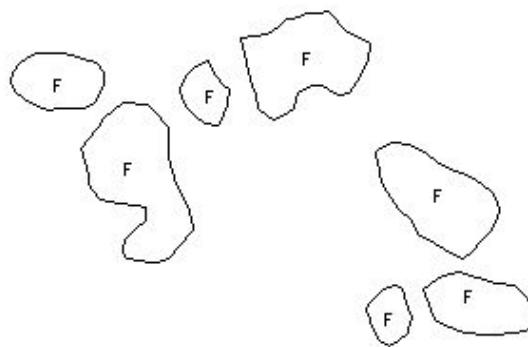
This site is composed of several small forest remnants, surrounded by either pasture or pine forest.

- (a) Taraire is dominant in some instances, with rewarewa, manuka, puriri, and totara also present.
- (b) The remnants in the pine forest are predominantly kanuka/manuka, with totara and taraire common. Kahikatea, rimu, puriri, and rewarewa are frequent, with occasional pohutukawa.
- (c) One of the remnants is dominated by kanuka/manuka and totara, with frequent kahikatea.



Ngaiotonga Remnants Q05/027

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



Fauna

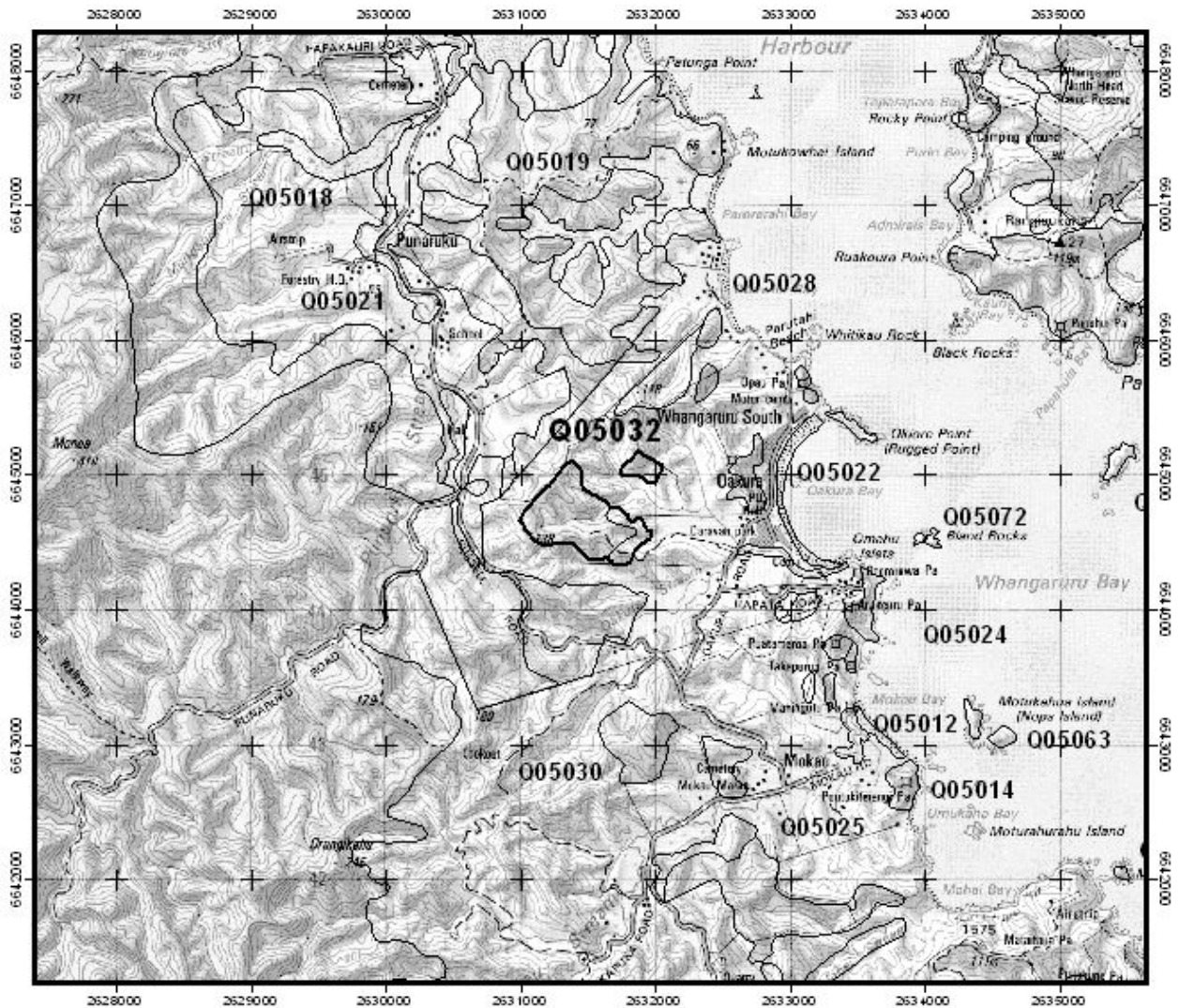
Not surveyed, but likely to provide stepping stones for birds (especially kukupa and tui) moving between Russell Forest and Bland Bay Forest/Whangaruru North Head.

Significance

Small coastal remnants which potentially provide food for kukupa, but the fragmentation of this site limits its significance.

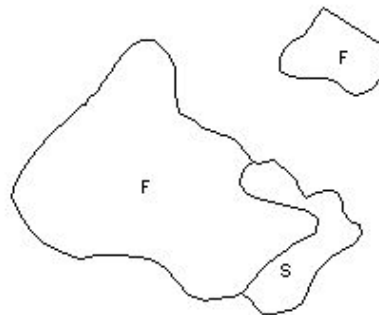
OAKURA REMNANTS

Survey no. Q05/032
 Survey date 3 February 1997
 Grid reference Q05 318 450, Q05 314 447
 Area 42 ha (36 ha forest, 6 ha shrubland)
 Altitude 20-138 m asl



Oakura Remnants Q05/032

Each grid is 1000 m x 1000 m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



Ecological unit

- (a) Kanuka/manuka forest on hillslope
- (b) Kauri-puriri forest on hillslope
- (c) Kanuka/manuka shrubland on hillslope

Landform/geology

Dissected hillcountry in Waipapa Terrane greywacke.

Vegetation

Two small forest remnants, surrounded in part by pine plantations.

- (a) The area around the high point consists of kanuka/manuka forest, with frequent emergent kauri, puriri, and totara, and occasional nikau.
- (b) South-facing slopes feature kauri-puriri forest, with totara and rimu also present.
- (c) Kanuka/manuka shrubland on the edge of the site has emergent totara and kahikatea.

Fauna

Not surveyed.

Significance

Possible linkage function, and potential seasonal food source for kukupa.

TAIPUHI ROAD REMNANTS

Survey no.	Q06/008
Survey date	10 August 1994
Grid reference	Q06 194 349, Q06 189 346, Q06 184 348
Area	78 ha
Altitude	110-240 m asl

Ecological unit

- (a) Kanuka/manuka-taraire-towai forest on hillslope
- (b) Tanekaha forest on hillslope
- (c) Kanuka/manuka forest on hillslope

Landform/geology

Hillcountry of Waipapa Terrane greywacke.

Vegetation

Three recently fragmented secondary forest and shrubland remnants. Forest types include:

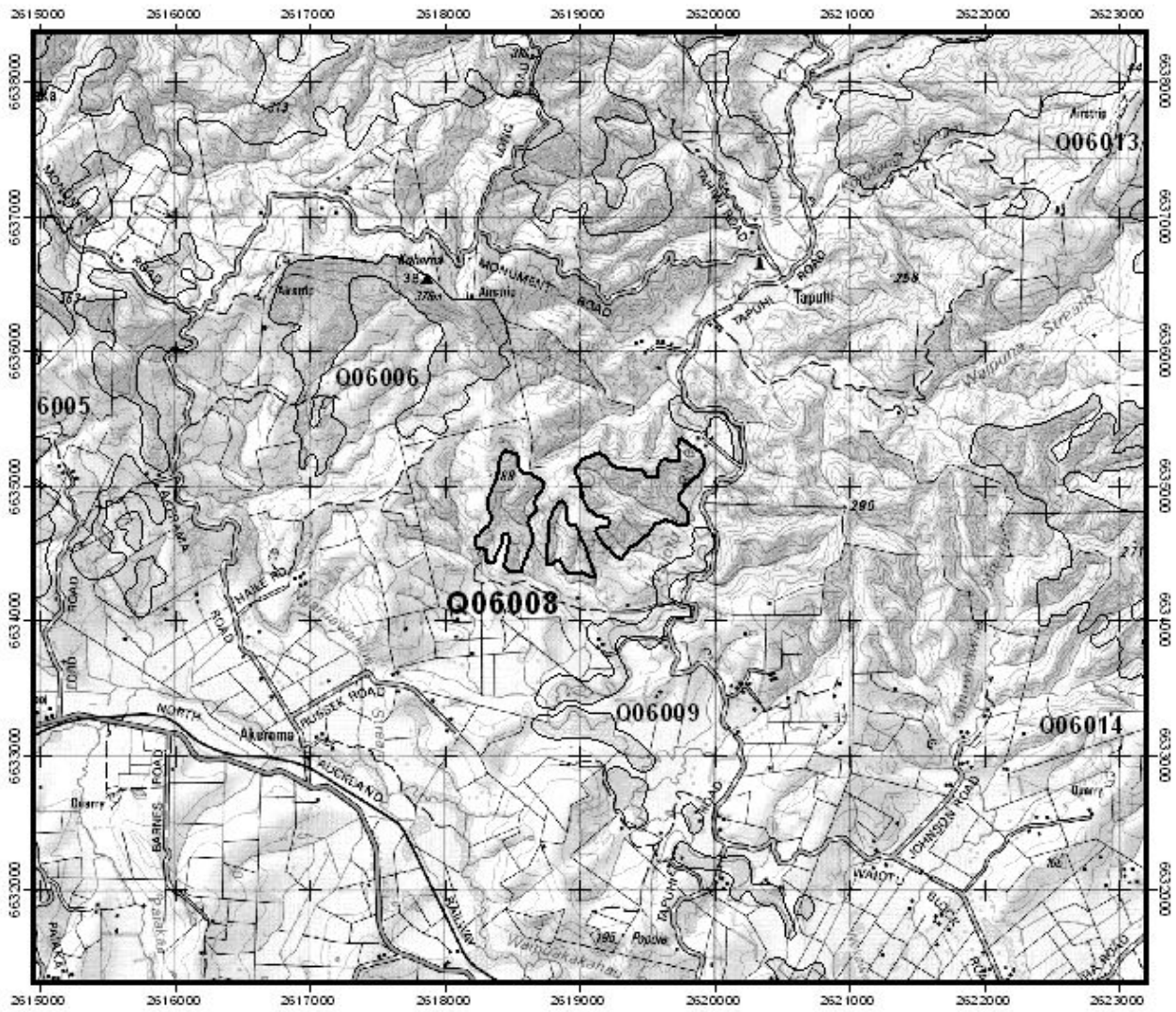
- (a) Kanuka/manuka-taraire-towai forest with frequent totara, rewarewa, kohuhu, and tanekaha, and occasional rimu and emergent northern rata.
- (b) Tanekaha forest with frequent kauri, rewarewa, and totara, and occasional rimu.
- (c) Kanuka/manuka forest with no associated species.

Fauna

Not surveyed, but is a potential food source for kukupa.

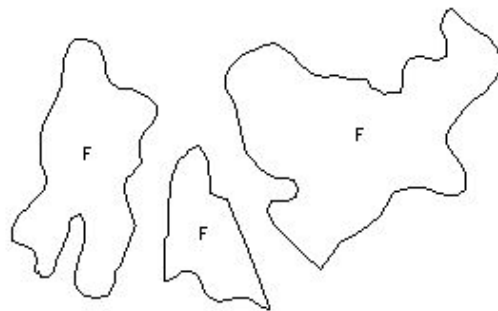
Significance

A small outlier of Russell Forest, performing a linkage and upper catchment/riparian protection function.



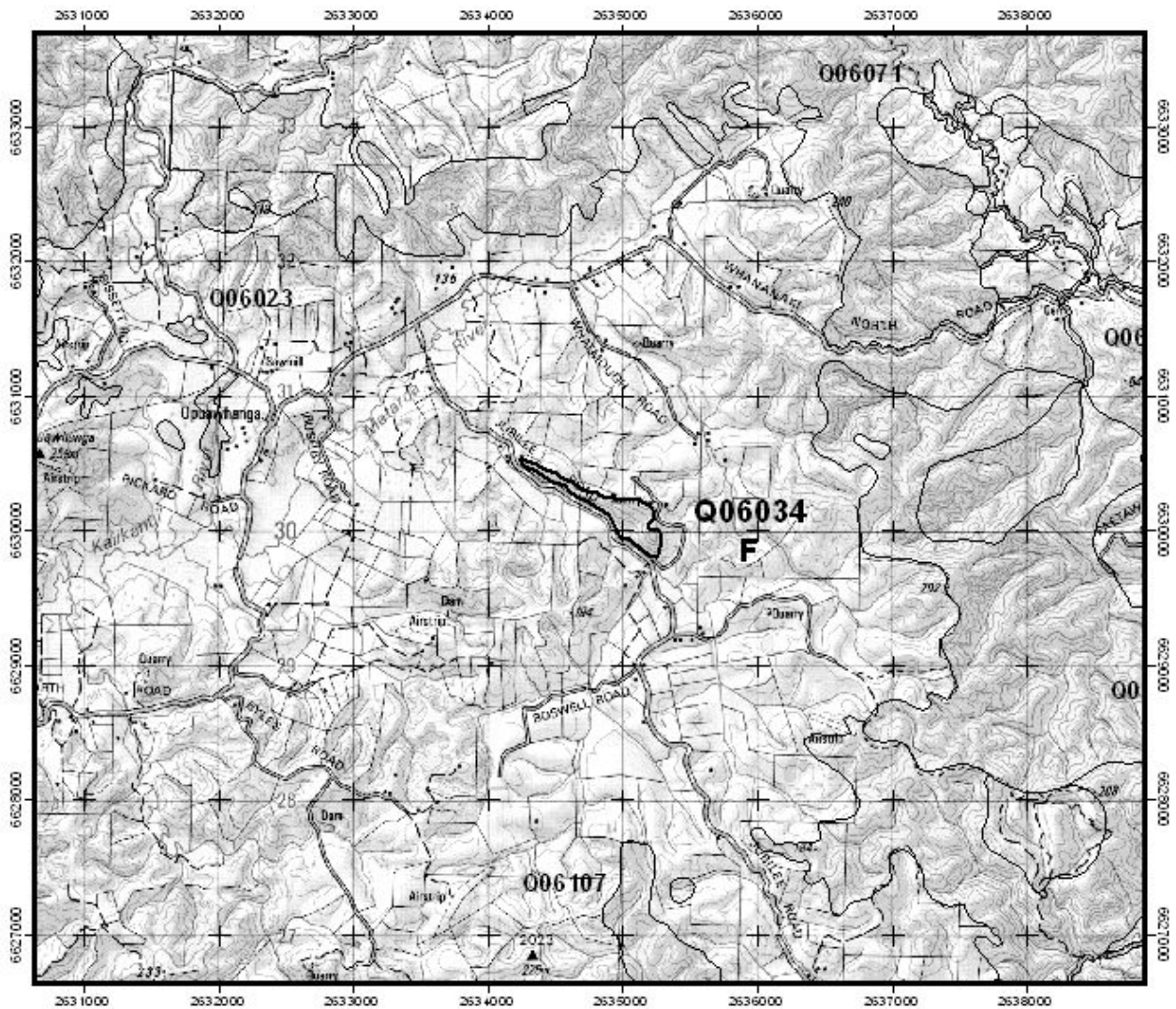
Taipuhi Road Remnants Q06/008

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



JUBILEE ROAD REMNANT

Survey no. Q06/034
 Survey date 27 February 1997
 Grid reference Q06 350 301
 Area 15 ha (13 ha forest, 2 ha shrubland)
 Altitude 120-200 m asl



Jubilee Road Remnant Q06/034

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland

Ecological unit

- (a) Totara forest on hillslope and river flats
- (b) Mahoe-five-finger shrubland on hillslope

Landform/geology

Ridge of Waipapa Terrane greywacke and chert.

Vegetation

(a) The majority of the site is composed of totara-dominant secondary forest. Kahikatea, rimu and kanuka feature on the river flats, with tanekaha, towai, and mamaku on hillslopes.

(b) The shrubland area is composed of broadleaved shrubs, with five-finger and mahoe the dominant species. Pate is also present. (This area is not shown on the map).

Fauna

Not surveyed.

Significance

An interesting mix of forest types including a small area of riverine forest, contiguous with totara forest on hillslope and an unusual shrubland dominated by broadleaved shrubs. The shrub species present are possum-preferred species, although little impact seems to have been incurred from possum browse. Although the majority of the site appears to have been fenced from stock, the quality of this site at the time of survey does not warrant Level One status.

HAUMAKARIRI STREAM REMNANT

Survey no. Q06/035
Survey date 25 February 1997
Grid reference Q06 302 359, Q06 309 364
Area 43 ha
Altitude 175-220 m asl

Ecological unit

(a) Rewarewa-totara-towai forest in gully

Landform/geology

Deeply incised valley in Waipapa Terrane greywacke with Kerikeri Volcanics basalt flow remnants and boulder colluvium.

Vegetation

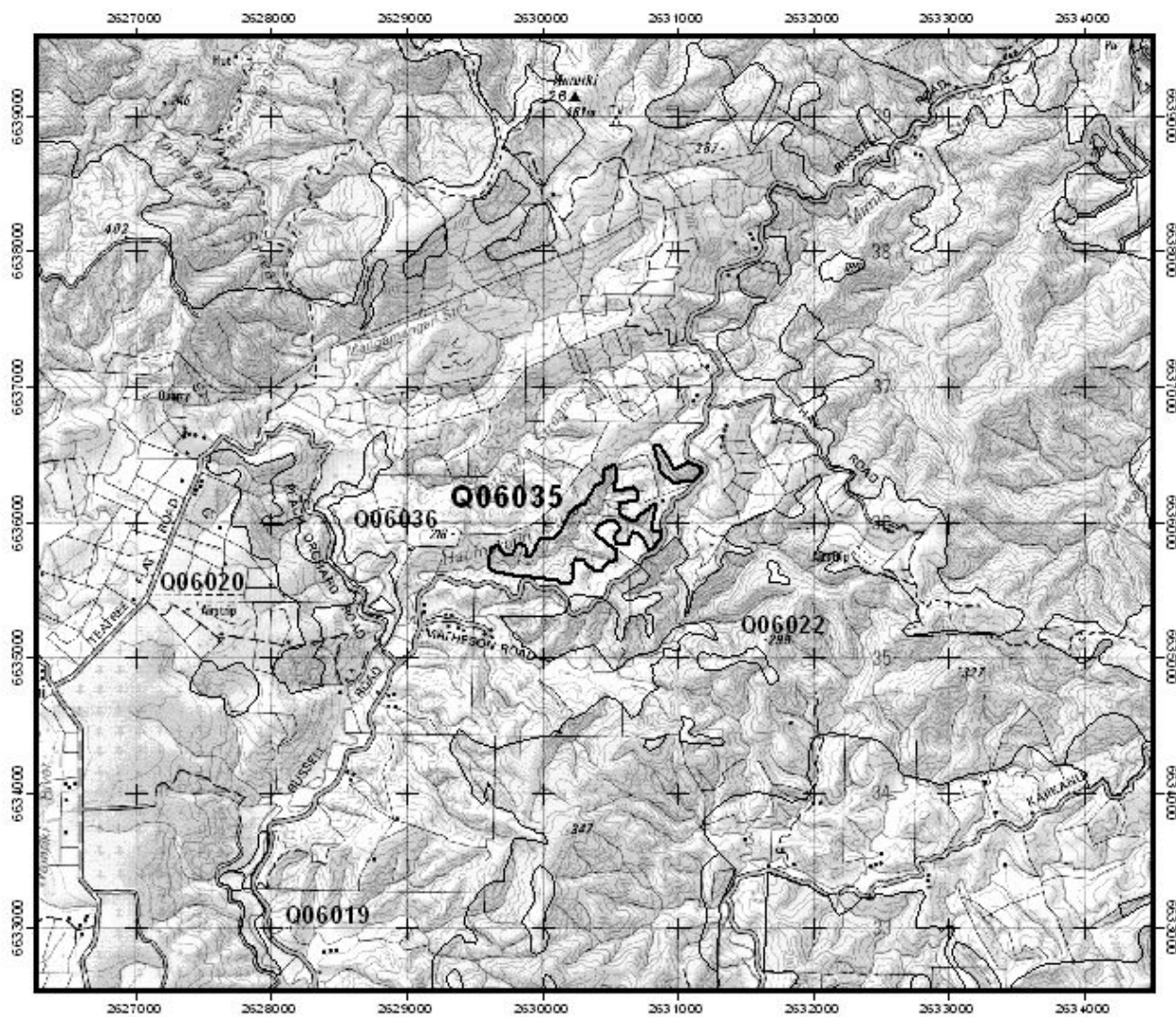
(a) A gully site adjacent to the Russell Road, with totara, towai, and emergent rewarewa common. Mamaku and kanuka/manuka are frequent, with occasional rimu, kahikatea, kauri, and nikau.

Fauna

Not surveyed.

Significance

Protection of water and soil values.



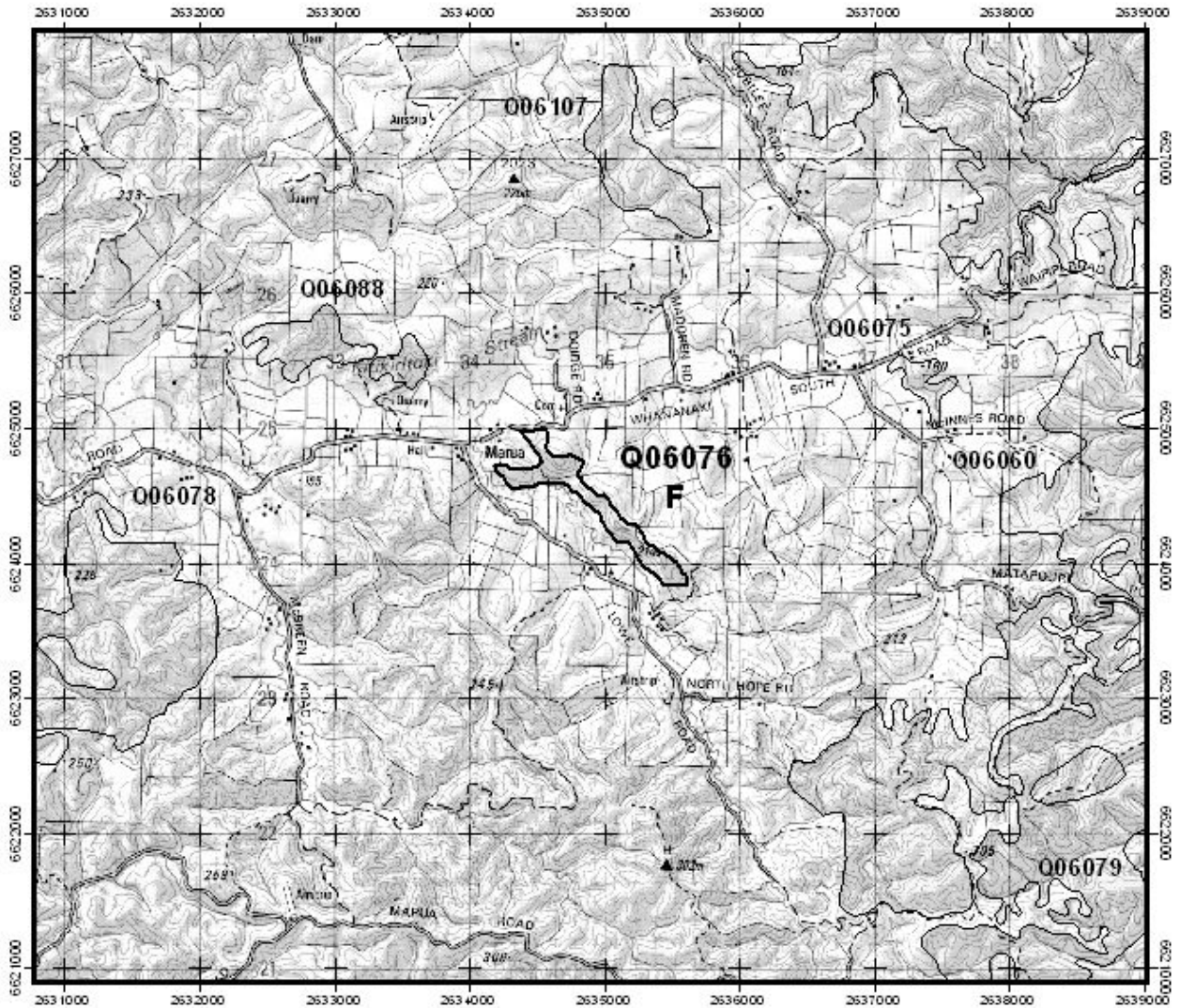
Haumakariri Stream Remnant Q06/035

Each grid is 1000 m x 1000 m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



LOWE ROAD REMNANT

Survey no.	Q06/076
Survey date	14 March 1997
Grid reference	Q06 349 244
Area	28 ha
Altitude	150-214 m asl



Low Road Remnant Q06/076

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland

Ecological unit

(a) Totara-kauri-tanekaha forest on hillslope

Landform/geology

Ridge of Waipapa Terrane chert.

Vegetation

A long, thin piece of bush, running alongside Lowe Road.

(a) Totara is abundant, with kauri and tanekaha common, and concentrated on the ridges. Towai is frequent throughout, with occasional kahikatea, tawa, rimu, puriri, rewarewa, mamaku, and ti kouka.

Fauna

Not surveyed.

Significance

Possible linkage function, and protection of water and soil values.

KAIATEA REMNANT

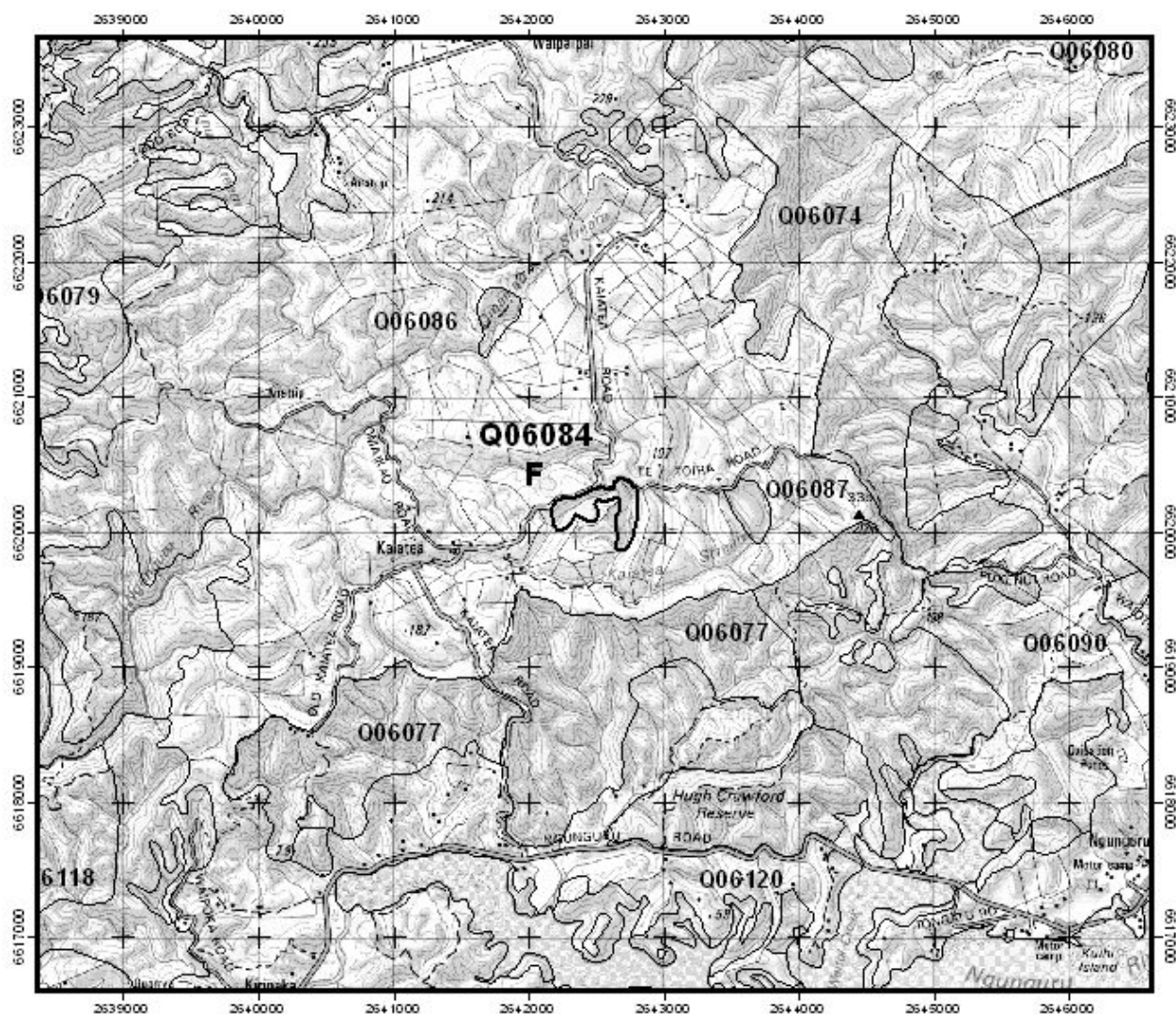
Survey no. Q06/084
Survey date 7 March 1997
Grid reference Q06 424 201
Area 14 ha
Altitude 160-180 m asl

Ecological unit

(a) Totara forest in gully

Landform/geology

Stream valley in Waipapa Terrane greywacke.



Kaiatea Remnant Q06/084

Each grid is 1000m x 1000m
and = 100 ha
S = shrubland
F = forest
W = wetland
E = estuarine
D = duneland

Vegetation

A gully adjacent to the junction of Kaiatea and Te Toira Roads.

(a) Totara is common, with frequent taraire, rewarewa, kahikatea, and rimu. Occasionally occurring species include towai, puriri, nikau and ti kouka.

Fauna

Australasian harrier, grey warbler, NZ kingfisher, NI fantail.

Significance

There is a deer farm adjacent to the site, and deer have access to the bush. Possible linkage function, and protection of water and soil values.

OMAIKAO STREAM REMNANT

Survey no.	Q06/086
Survey date	7 March 1997
Grid reference	Q06 417 215
Area	10 ha
Altitude	160-180 m asl

Ecological unit

(a) Totara forest on hillslope

Landform/geology

Stream valley in Waipapa Terrane greywacke.

Vegetation

A small forest remnant, which can be seen from Kaiatea Road.

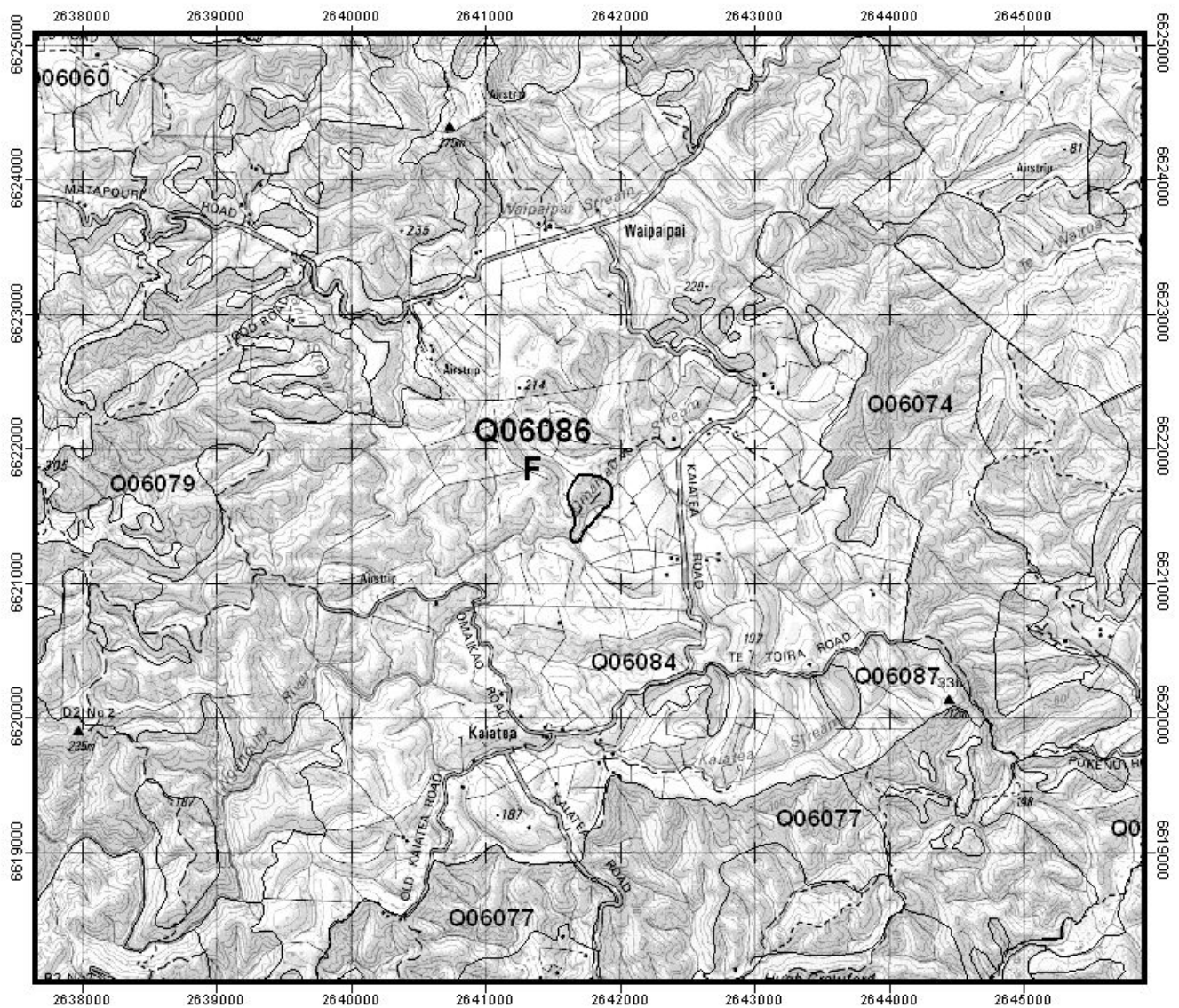
(a) Totara is abundant, with rimu frequent. Occasional species include puriri, kauri, rewarewa, kahikatea, northern rata, nikau, and tree ferns.

Fauna

Not surveyed.

Significance

Possible linkage function, and protection of water and soil values.



Omaikao Stream Remnant Q06/086

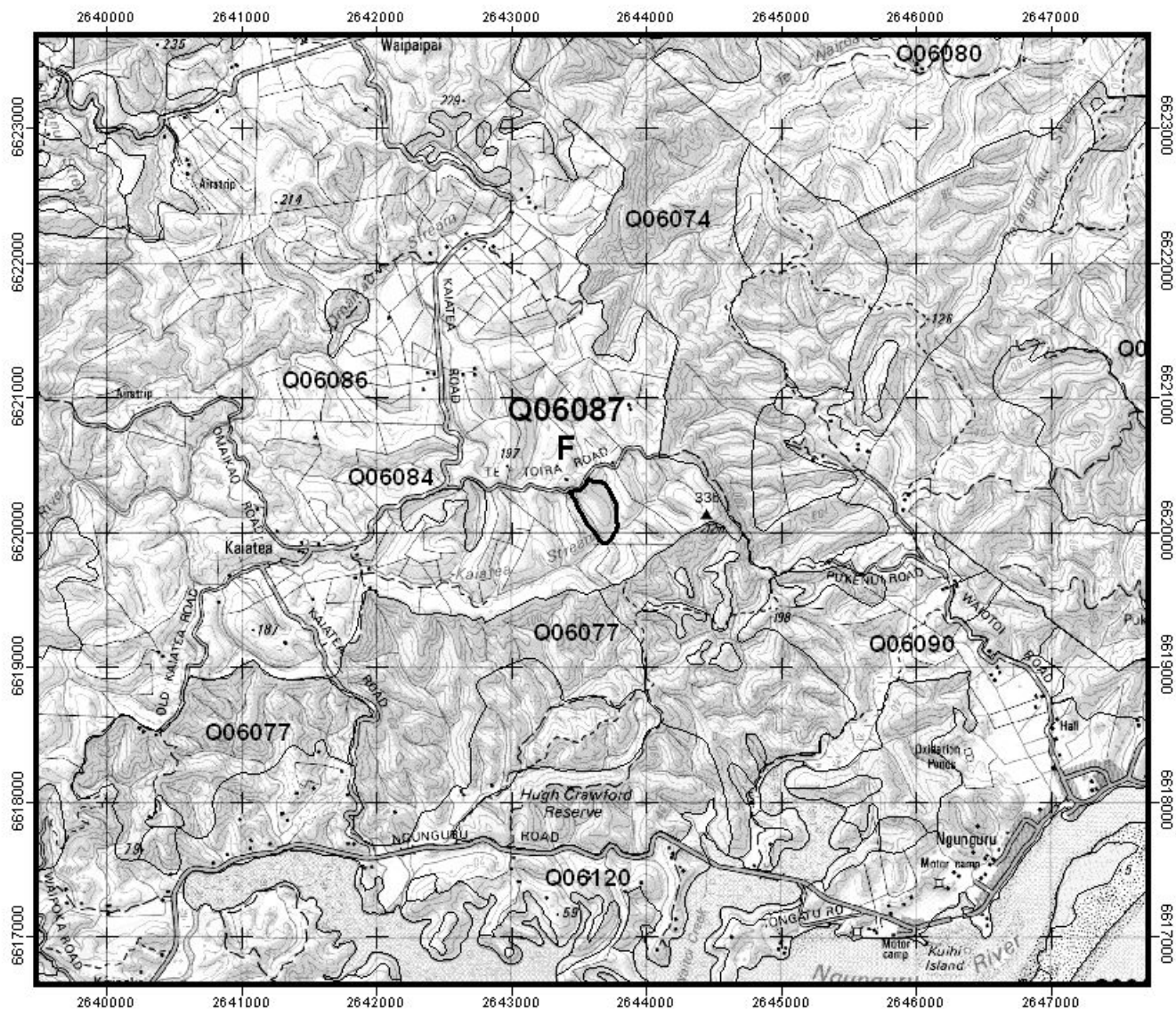
Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland

TE TOIRA ROAD REMNANT

Survey no. Q06/087
 Survey date 7 March 1997
 Grid reference Q06 436 201
 Area 10 ha
 Altitude 170-190 m asl

Ecological unit

(a) Taraire-totara forest in gully



Te Toira Road Remnant Q06/087

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland

Landform/geology

Hillcountry in Waipapa Terrane greywacke.

Vegetation

A gully adjacent to Te Toira Road, dominated by taraire, and with totara common. Kahikatea and rewarewa are frequent, with occasional puriri, rimu, and kauri.

Fauna

NZ kingfisher.

Significance

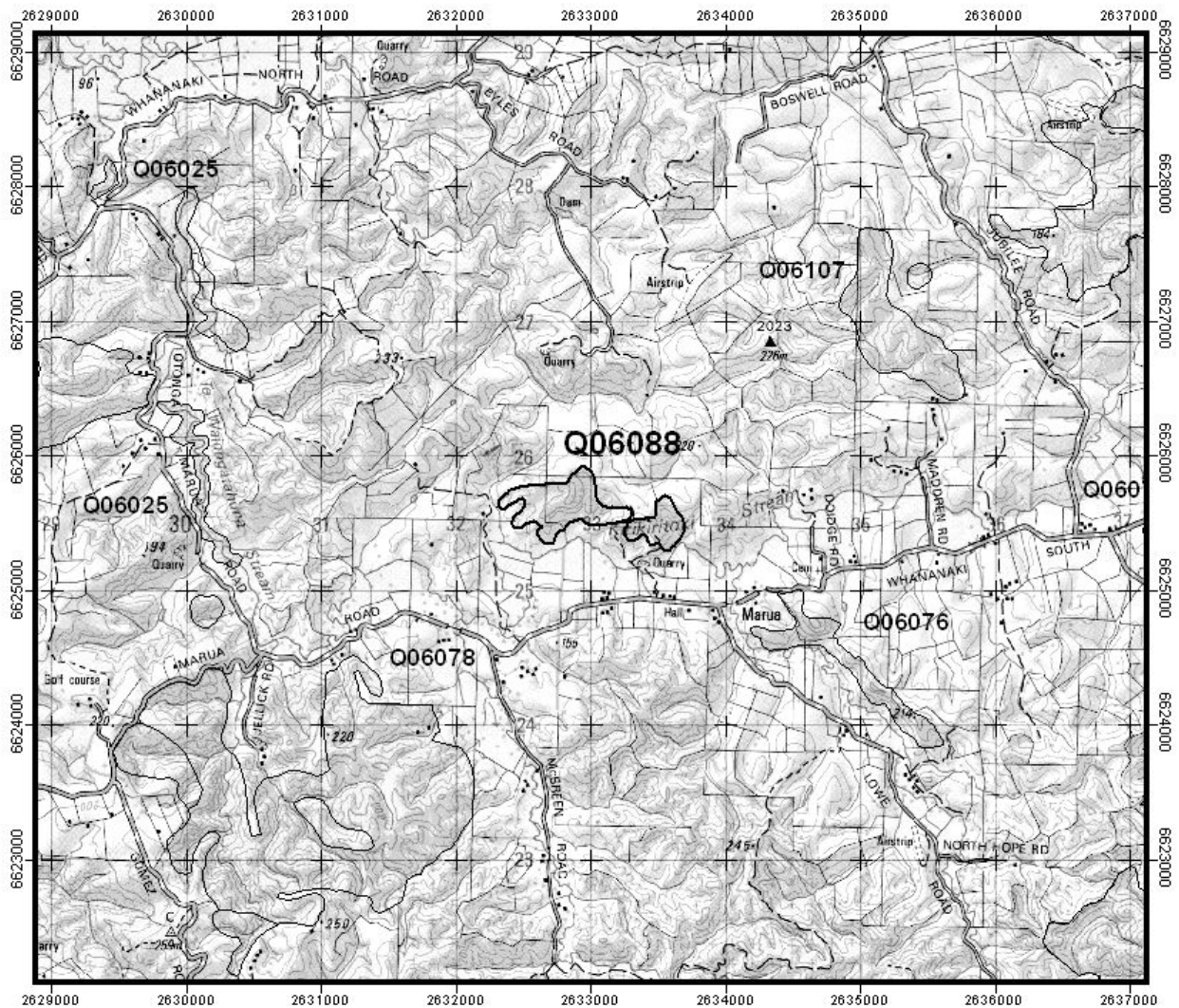
Possible linkage function, and protection of water and soil values.

KIRIKIRITOKI REMNANTS

Survey no. Q06/088
 Survey date 13 March 1997
 Grid reference Q06 334 254, Q06 328 256
 Area 35 ha (25 ha forest, 10 ha shrubland)
 Altitude 140-180 m asl

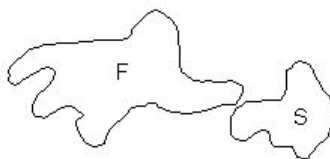
Ecological unit

- (a) Totara-towai forest on hillslope
- (b) Kauri forest on ridge
- (c) Totara forest on hillslope
- (d) Kanuka/manuka-totara shrubland on hillslope



Kirikiritoki Remnants Q06/088

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



Landform/geology

Hillcountry in Waipapa Terrane chert.

Vegetation

Site is made up of two remnants.

(a) The western remnant has a small area of totara-towai secondary forest, with frequent taraire, puriri, rewarewa, and tanekaha. Occasional species are pukatea, northern rata, tawa, nikau, and ti kouka.

(b) Kauri is the dominant species on the ridge in this area, with frequent rimu and tanekaha.

(c) Next to these sites is a large area of totara secondary forest, with frequent kanuka/manuka, and a few tanekaha and mamaku.

(d) The eastern remnant consists of kanuka/manuka shrubland, with totara common throughout. Puriri and *Pinus radiata* occur occasionally.

Fauna

Not surveyed.

Significance

The eastern area is marginal, and almost divorced from the main forest area. There are enclaves of pasture within the site, and it is obviously browsed. Three goats were observed within one clearing at the time of the survey.

TUTUKAKA BLOCK SHRUBLAND

Survey no.	Q06/096
Survey date	25 March 1997
Grid reference	Q06 484 188
Area	49 ha
Altitude	20-100 m asl

Ecological unit

(a) Kanuka/manuka shrubland on hillslope (90%)

(b) Kanuka/manuka shrubland in gully (10%)

Landform/geology

Steeply dissected hillcountry of Waipapa Terrane greywacke.

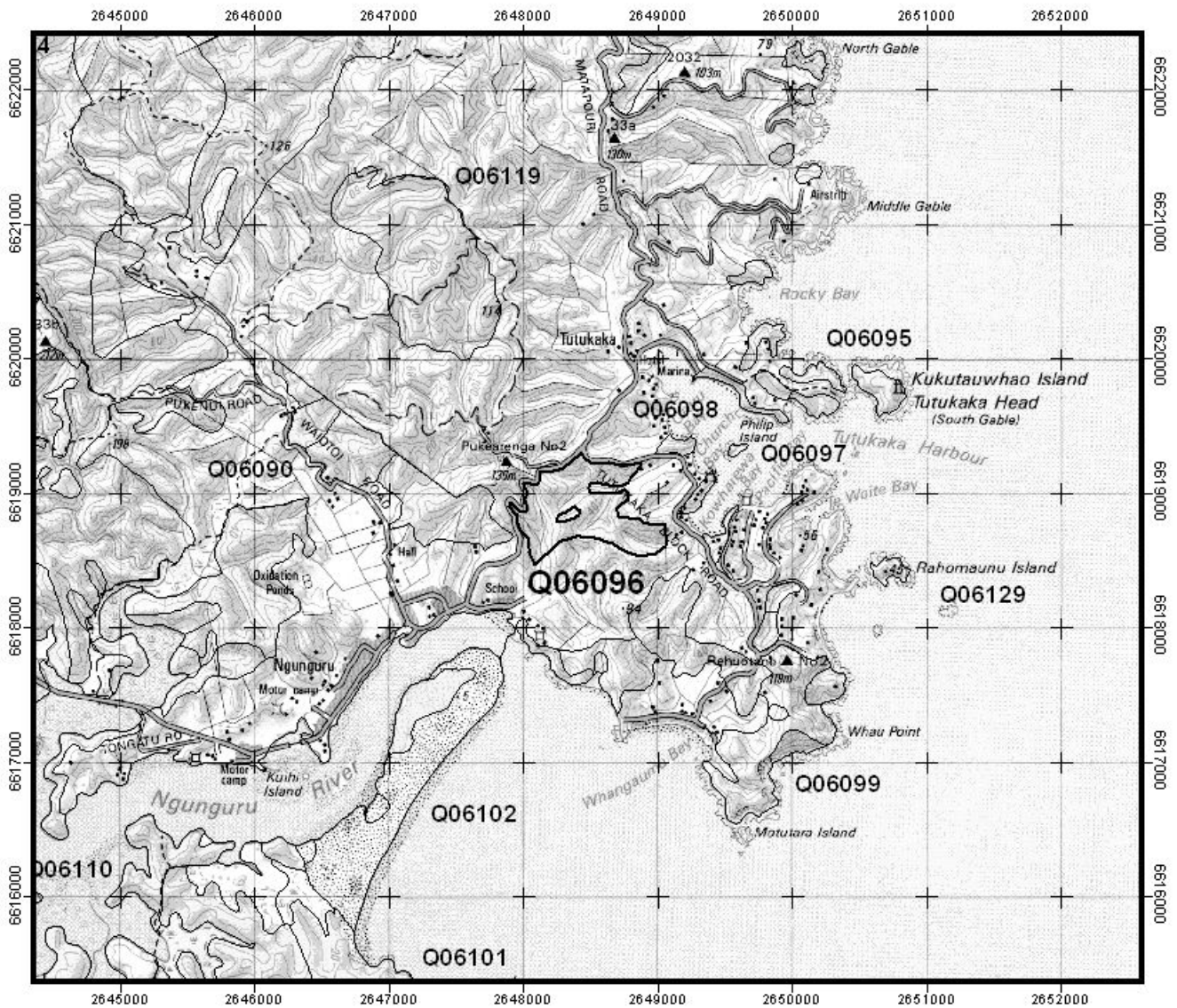
Vegetation

(a) An area of shrubland adjacent to the Matapouri Road. The majority of the site is composed of kanuka/manuka of up to 4 m tall on the hillslopes. Frequent species are puriri, as well as emergent rimu and tanekaha. Throughout the site is the occasional taraire, nikau, pohutukawa, totara, and emergent rewarewa, kauri, and kawaka.

(b) Gullies are also dominated by kanuka/manuka, with mamaku, totara, taraire, and puriri frequent. Less common species are mahoe, nikau, ti kouka, tanekaha, and emergent rewarewa. Flame trees and pampas are also present.

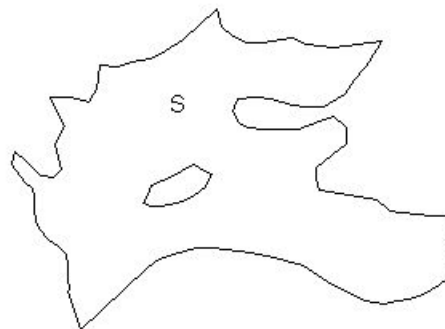
Fauna

NI brown kiwi (Serious Decline) reported in 1991. Grey warbler, NI fantail.



Tutukaka Block Shrubland Q06/096

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



Significance

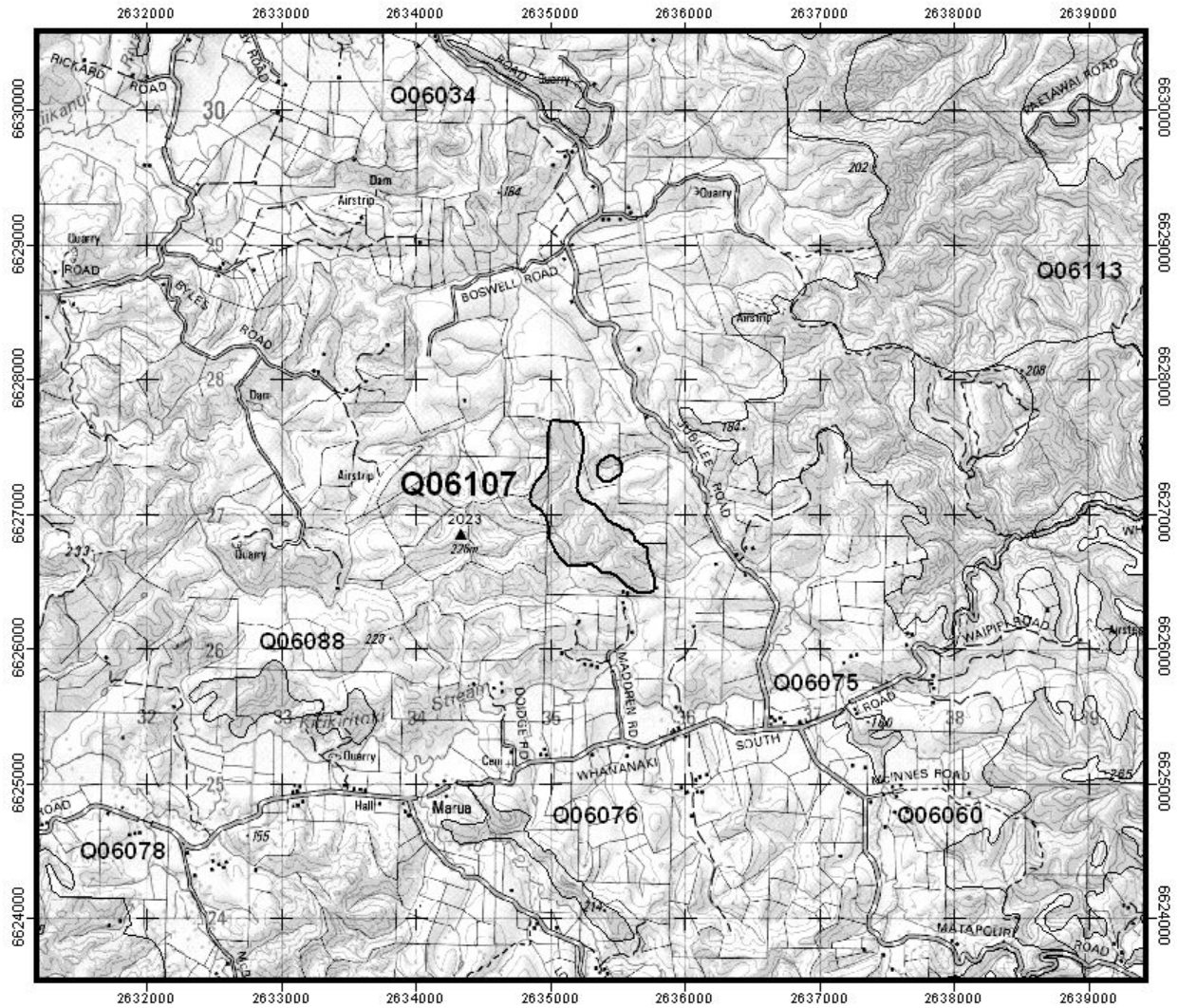
The site contains two small wetland areas which were not sighted, which are a rare habitat type in the District. Survey of current status of NI brown kiwi is recommended.

MADDREN ROAD BUSH

Survey no. Q06/107
 Survey date 21 April 1997
 Grid reference Q06 353 270, Q06 354 273
 Area 51 ha
 Altitude 160-220 m asl

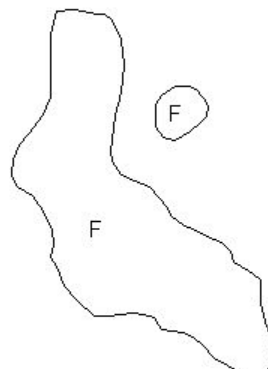
Ecological unit

(a) Rimu-totara-towai forest on hillslope



Maddren Road Bush Q06/107

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland



Landform/geology

Hillcountry of Waipapa Terrane greywacke.

Vegetation

This remnant is dominated by totara-towai-rimu forest, with kahikatea, puriri, rewarewa, kauri, and nikau frequent throughout. Tanekaha occurs less frequently.

Fauna

Not surveyed.

Significance

A good example of relatively mature forest.

WAIPARERA SHRUBLAND

Survey no. Q07/017
Survey date 29 July 1997
Grid reference Q07 443 071
Area 28 ha
Altitude 20-80 m asl

Ecological unit

(a) Kanuka/manuka shrubland on hillslope

Landform/geology

Hillcountry of Waipapa Terrane greywacke.

Vegetation

Kanuka/manuka shrubland of up to 3 m in height. Totara is a frequent emergent throughout, with puriri and mamaku occasional.

Fauna

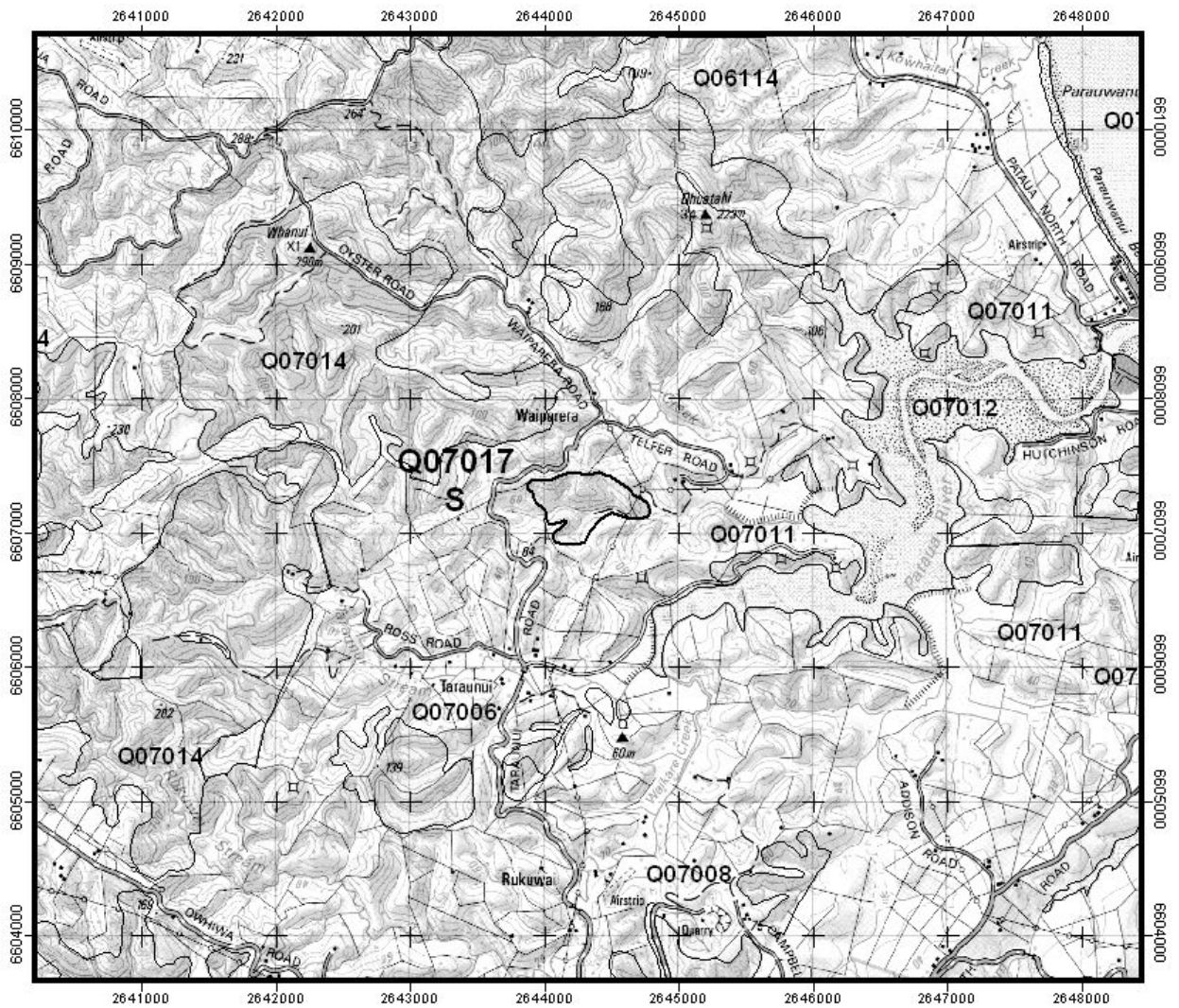
Not surveyed.

Significance

Linkage function, and protection of water and soil values.

GOAT ISLAND

Survey no. Q06/126
Survey date 12 September 1992
Grid reference Q06 478 150
Area 2.7 ha
Altitude 1-30 m asl



Waiparera Shrubland Q07/017

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland

Ecological unit

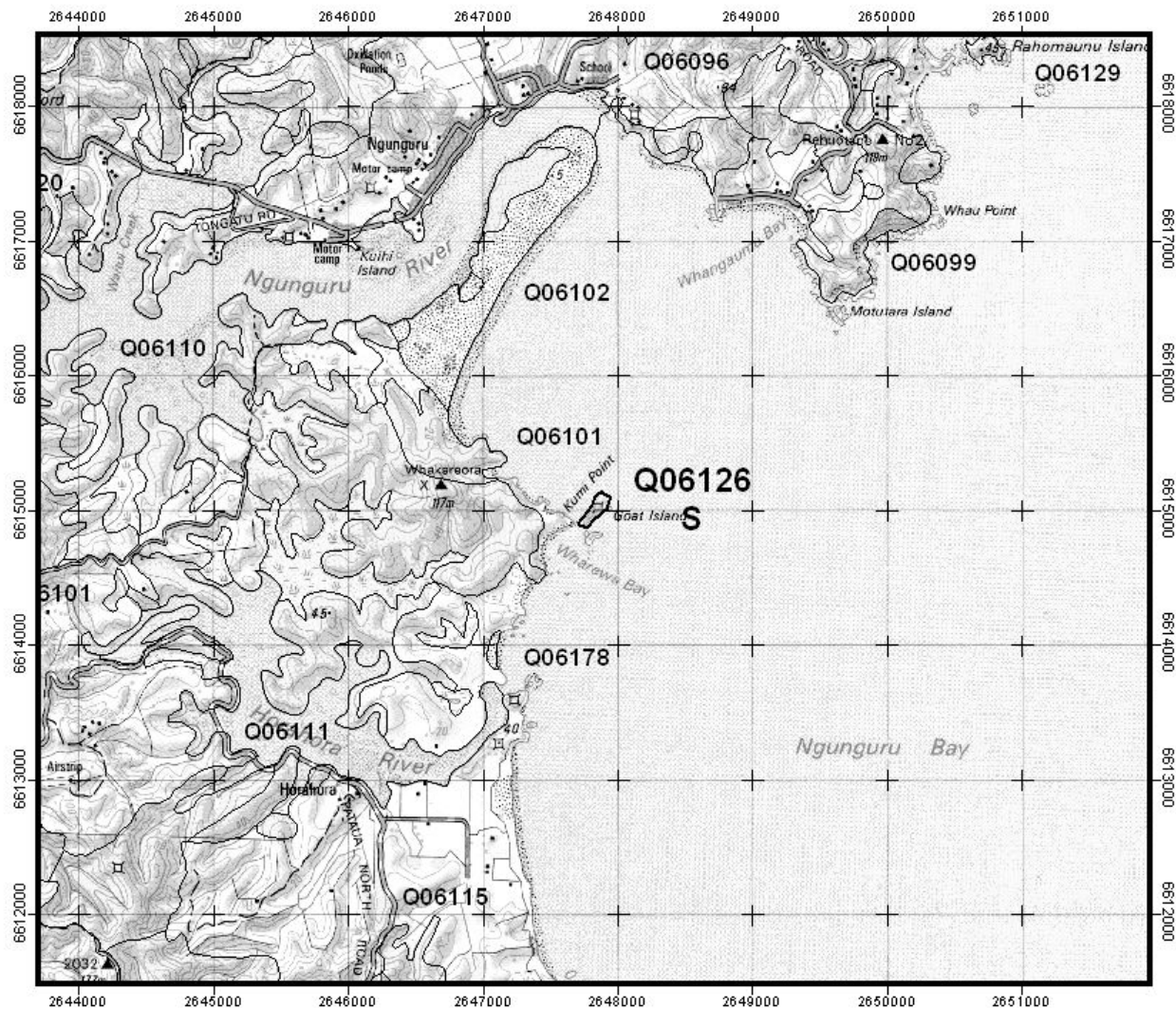
(a) Harakeke coastal flaxland on hillslope

Landform/geology

Cliffed islets of Waipapa Terrane greywacke, connected to mainland by sandspit at low tide.

Vegetation

(a) Harakeke flaxland dominates the island, with some bracken and knobby clubbrush throughout. Ti kouka occur occasionally. Introduced grasses occur in some areas.



Goat Island Q06/126

Each grid is 1000m x 1000m
 and = 100 ha
 S = shrubland
 F = forest
 W = wetland
 E = estuarine
 D = duneland

Fauna

The flax snail *Placostylus hongii* (Range Restricted) formerly present, now presumed extinct.

Significance

Presence of a rare vegetation type, and the past presence of a threatened species. The site, however, is very modified and is grazed by sheep, so does not warrant Level 1 status.