

MANOAO STREAM

Survey no. O05/005
 Survey date 30 November 1994
 Grid reference O05 405 690
 Area 17 ha
 Altitude 40-60 m asl

Ecological unit

- (a) Secondary kahikatea forest on alluvium and hillslope
- (b) Secondary totara-kahikatea forest on alluvium
- (c) Taraire-totara-puriri-kahikatea forest on alluvium
- (d) Puriri forest on hillslope

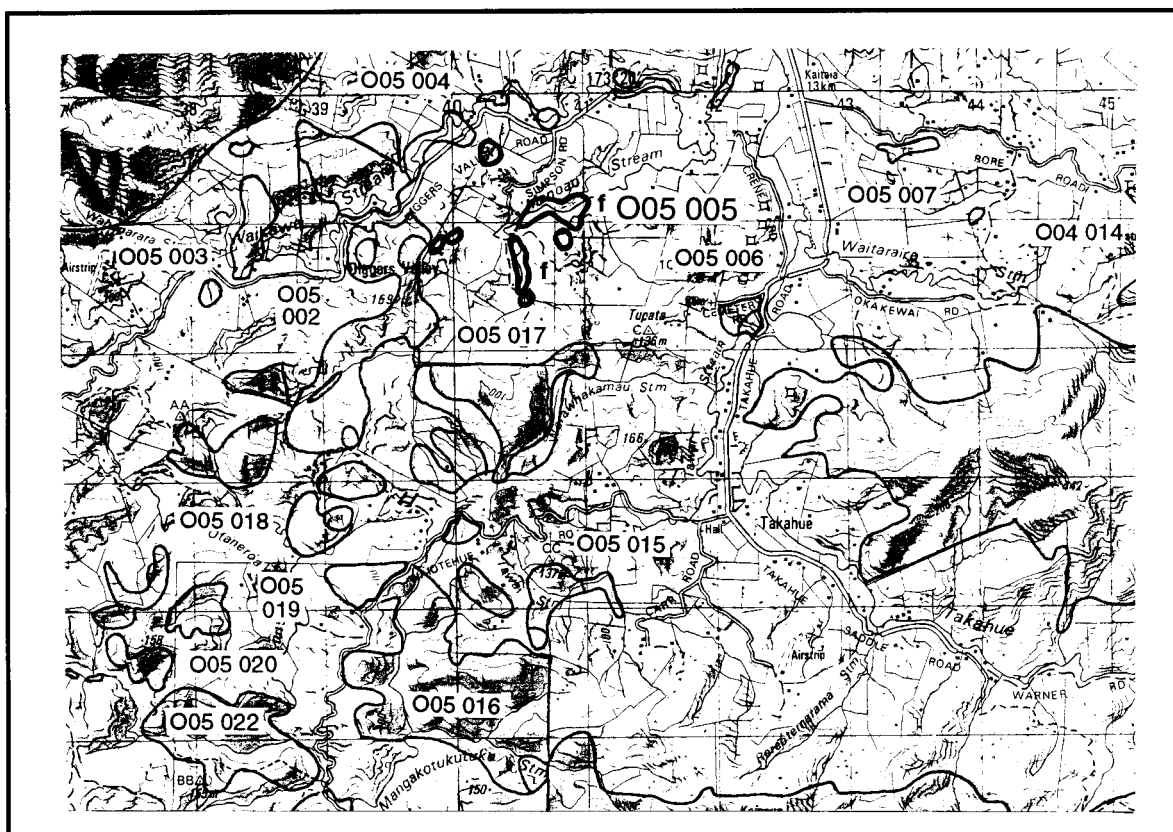
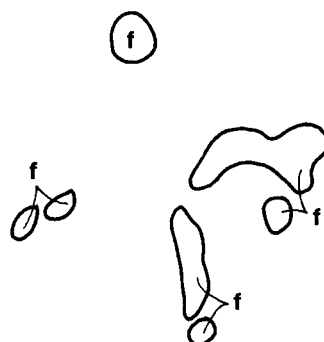


Figure 155. Manoao Stream, O05 005

Each grid is 1000 m x 1000 m and equals 100 ha.

f = forest.



(e) Secondary totara forest on hillslope

(f) Puriri-taraire forest on hillslope

Landform/geology

Holocene alluvial flats along Manoao Stream valley, and adjoining hills of Mangakahia Complex sandstone lithofacies.

Vegetation

A number of small stands:

Type (a) Secondary kahikatea forest. Occurs in remnants most southerly and northerly. In the latter, towai is frequent, cabbage tree, taraire, puriri and rimu occasional.

Type (b) Secondary totara-kahikatea forest. At GR O05 405 687. Puriri and taraire are frequent with occasional eucalyptus and macrocarpa on the southern edge.

Type (c) Taraire-totara-puriri-kahikatea forest. In the largest, central block

Type (d) Puriri forest. On the flank of the pa site. Taraire, totara and kahikatea are frequent.

Type (e) Secondary totara forest. Found in the northern block. Pine is present.

Type (f) Puriri-taraire forest. In the western-most blocks, with kahikatea and totara, and occasional towai and rimu.

All are unfenced, and it is reported that the stream sometimes dries up in summer.

Fauna

Not surveyed.

Significance

Potential food source for NZ pigeon and provides some riparian buffering.

CEMETERY RD

Survey no. O05/006

Survey date 17 March 1995

Grid reference O05 422 683

Area 7.9 ha

Altitude 70-100 m asl

Ecological unit

(a) Puriri-taraire forest on hillslope

(b) Manuka-kanuka shrubland on hillslope

Landform/geology

Spur of Mangakahia Complex sandstone lithofacies.

Vegetation

Type (a) Puriri-taraire forest. A puriri-taraire remnant with frequent towai. Also present are rewarewa, kahikatea, rimu, totara and karaka.

Type (b) Manuka-kanuka shrubland. About 4 m tall and adjoining (a), with totara, rewarewa, cabbage tree, wattle and, mamaku scattered throughout.

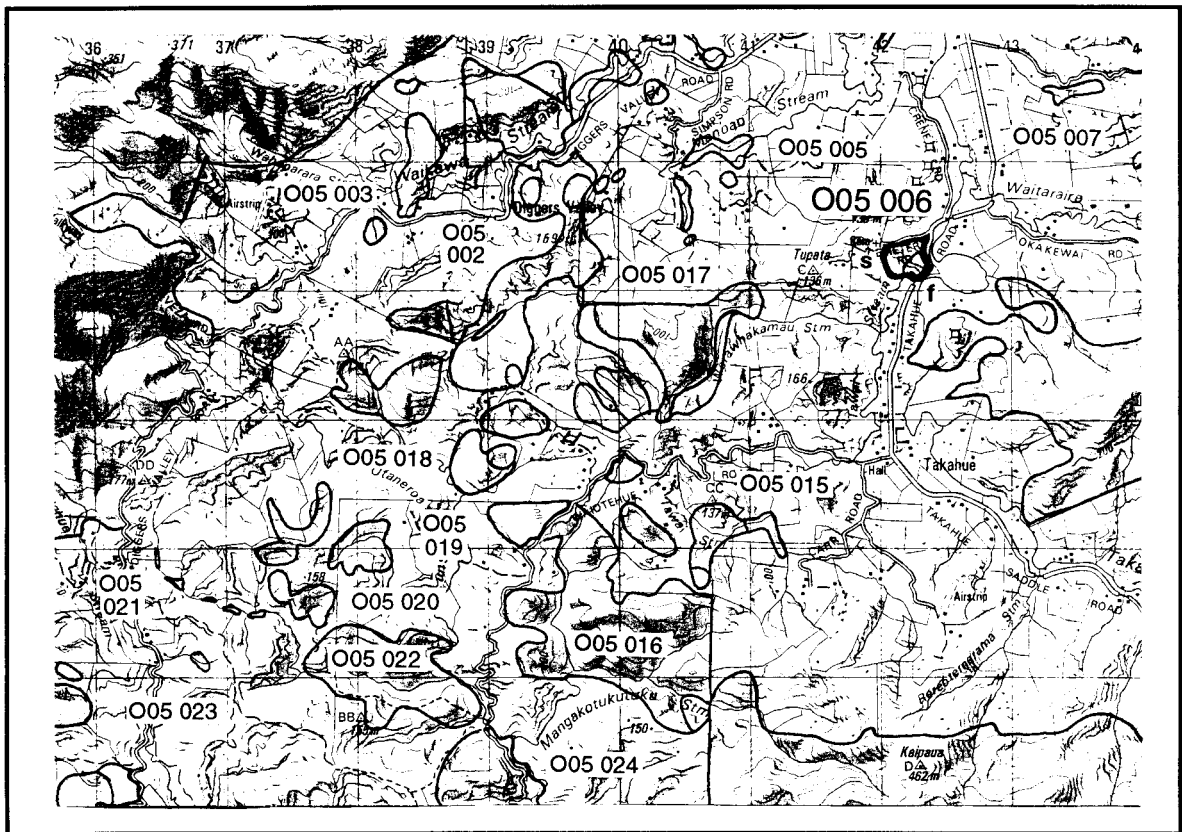


Figure 156. Cemetery Road, O05 006

Each grid is 1000 m x 1000 m and equals 100 ha.

f = forest; s = shrubland.



Fauna

NI brown kiwi (Category A threatened species).

Significance

Broadleaf remnant on steep slope providing upper catchment protection. Potential food source for NZ pigeon and utilised by kiwi, although values are limited by the area's size and isolation.

TAWAI STREAM

Survey no.	O05/015
Survey date	18 November 1994
Grid reference	O05 413 662
Area	15.8 ha
Altitude	c.100 m asl

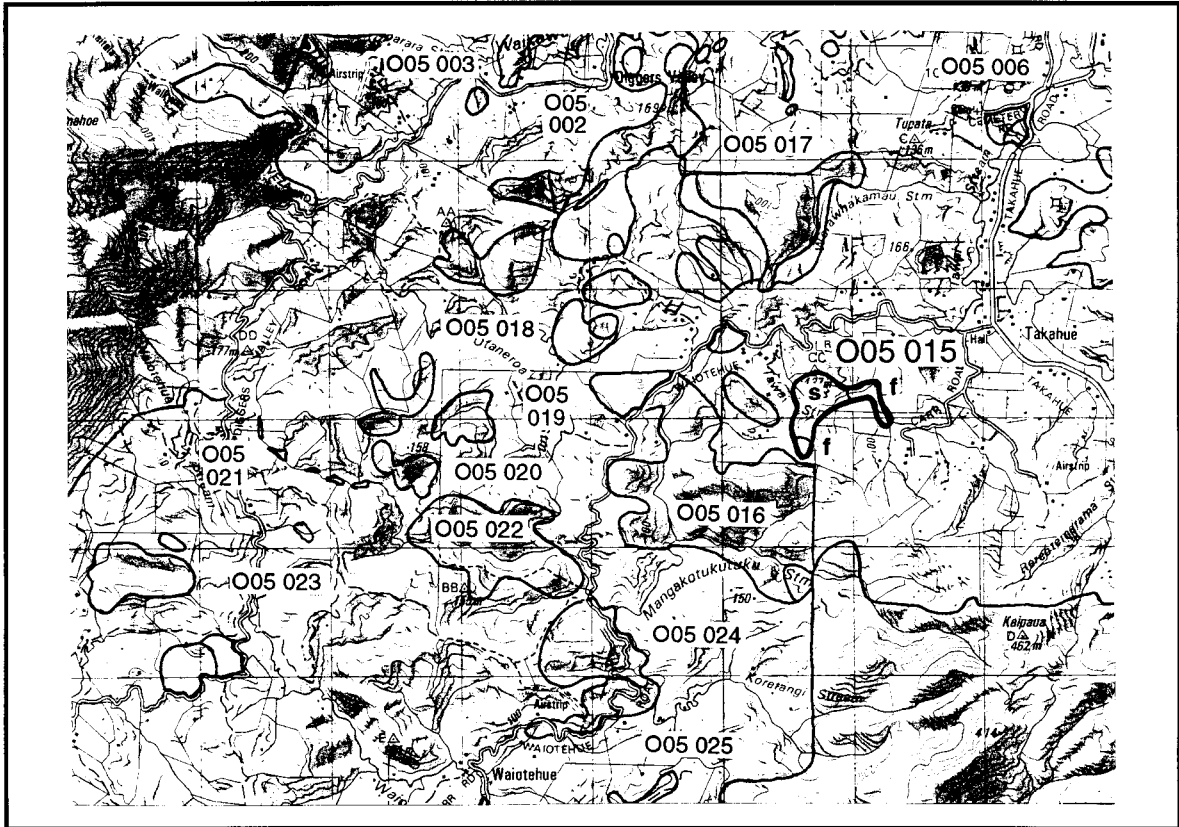
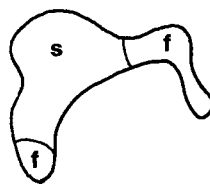


Figure 157. Tawai Stream, O05 015

Each grid is 1000 m × 1000 m and equals 100 ha.

f = forest; s = shrubland.



Ecological unit

- (a) Manuka shrubland on hillslope
- (b) Secondary totara-kahikatea forest on hillslope
- (c) Secondary kahikatea forest on toeslope
- (d) Ringfern fernland on hillslope

Landform/geology

Hill country of Mangakahia Complex sandstone lithofacies.

Vegetation

Type (a) Manuka shrubland. Half of the area is low manuka shrubland with occasional mamaku and totara, some of which is being cleared.

Type (b) Secondary totara-kahikatea forest. About 20% is totara-kahikatea with frequent puriri and occasional rimu and taraire.

Type (c) Secondary kahikatea forest. Also about 20% of the area; puriri and nikau are occasional.

Type (d) Ringfern fernland. The remainder is grass and ring fern with scattered manuka.

Fauna

Not surveyed.

Significance

Contiguous with Maungakotukutuku Stream O05/016 (Hokianga Ecological District).

BROADWOOD RD

Survey no.	O05/064
Survey date	27 February 1995
Grid reference	O05 528 603
Area	6.8 ha
Altitude	120-180 m asl

Ecological unit

- (a) Taraire forest on hillslope
- (b) Manuka/kanuka shrubland on hillslope

Landform/geology

Spur on margin of igneous massif of Tangihua Complex rock units.

Vegetation

Type (a) Taraire forest. Taraire-dominant with occasional emergent rimu and northern rata, kahikatea, puriri, totara, kohekohe, kowhai and eucalyptus.

Type (b) Manuka/kanuka shrubland. Located on the north-eastern side and comprises less than 5% of the site. Mamaku, mapou, totara and bracken are occasional.

Fauna

Not surveyed.

Significance

Retains an emergent element. Kowhai is present (an uncommon species in this Ecological District).

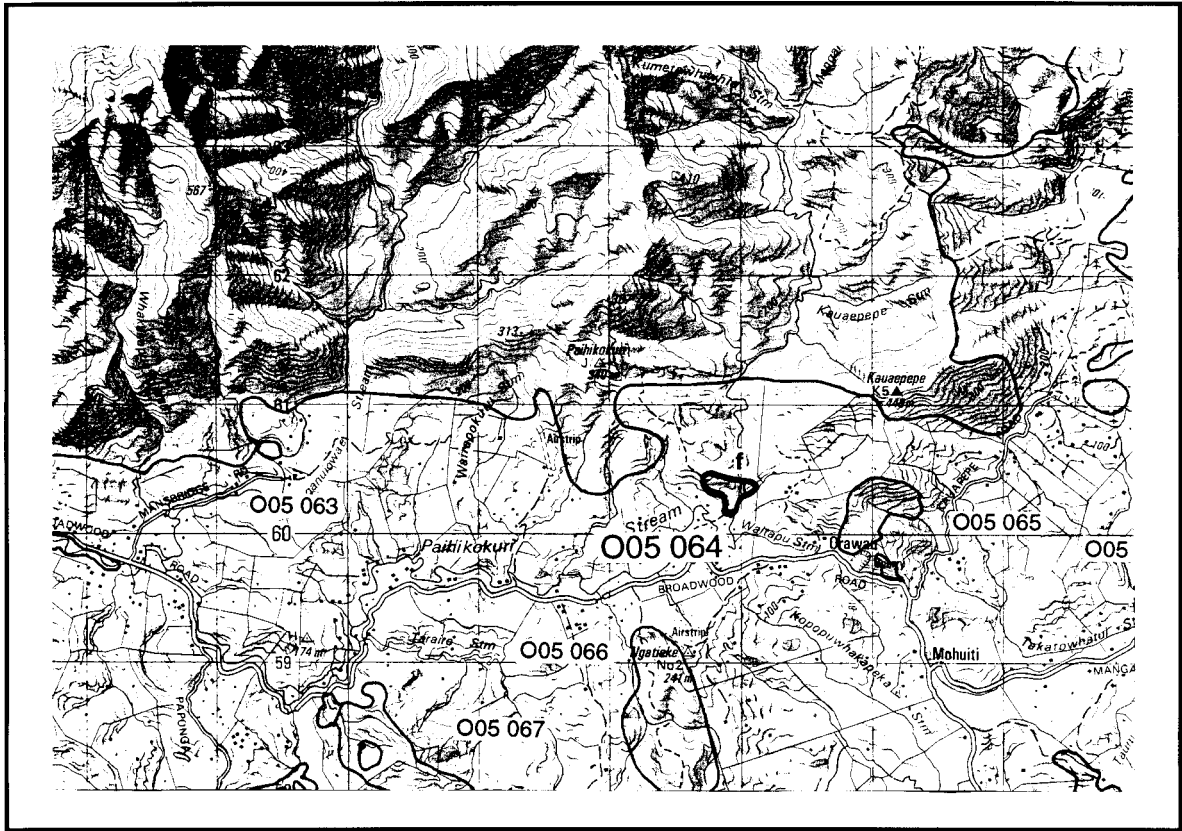


Figure 158. Broadwood Road, O05 064

Each grid is 1000 m x 1000 m and equals 100 ha.

f = forest; s = shrubland.



MUNN RD

Survey no.	O04/003
Survey date	6 December 1994
Grid reference	O04 388 727
Area	20.3 ha
Altitude	60-130 m asl

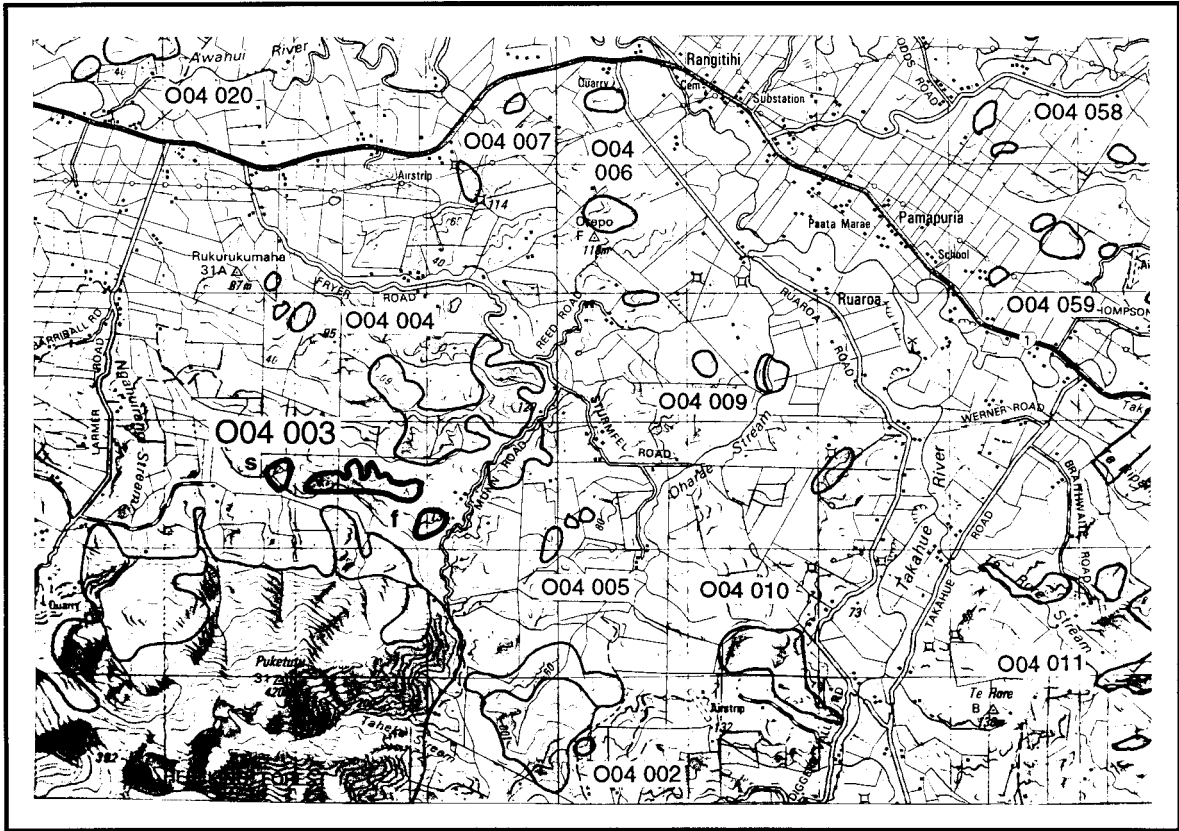


Figure 159. Munn Road, O04 003
 Each grid is 1000 m x 1000 m and equals 100 ha.
 f = forest; s = shrubland.



Ecological unit

- (a) Manuka-kanuka shrubland on hillslope
- (b) Secondary kahikatea forest on toeslope
- (c) Taraire-puriri forest on hillslope

Landform/geology

Ridge of Mangakahia Complex sandstone rock units.

Vegetation

Type (a) Manuka-kanuka shrubland. On the margins of Type (c) and also adjoining Type (b), where it contains occasional rimu, mamaku, kahikatea and towai. This area was being cleared at the time of survey.

Type (b) Secondary kahikatea forest. Rimu and puriri are occasional.

Type (c) Taraire-puriri forest. Rimu, kahikatea, totara, mamaku and cabbage tree are occasional.

Fauna

NI brown kiwi (Category A threatened species).

Significance

Habitat for kiwi but the recorded call rate is low (less than 3 calls per hour), and the site appears to be the subject to incremental clearance.

FRYER–MUNN ROADS

Survey no. 004/004
Survey date 6 December 1994
Grid reference 004 397 733
Area 74.4 ha
Altitude 60-120 m asl

Ecological unit

- (a) Puriri forest on hillslope
- (b) Taraire forest on hillslope
- (c) Secondary totara-kanuka forest on hillslope
- (d) Manuka-kanuka shrubland on hillslope
- (e) Secondary totara forest on hillslope

Landform/geology

Dissected hill country of Motatau Complex calcareous mudstone.

Vegetation

Type (a) Puriri forest. In lower Fryer Road are three small remnants, all with puriri abundant or common, as well as towai, taraire and manuka.

Type (b) Taraire forest. Further up the valley is a taraire dominant area with puriri. Rimu, kahikatea and northern rata also occur.

Type (c) Totara-kanuka forest. Adjacent to (b) containing kahikatea, rimu and puriri.

Type (d) Manuka-kanuka shrubland. Mostly 3-4 m tall and contains mamaku, totara, mahoe, wattle and tobacco weed. About one-third of it is taller with totara, cabbage tree, mamaku and mahoe scattered throughout. Adjoins Type (c).

Some of this area has been strip-cleared since the time of survey.

Across Munn Rd is further low manuka shrubland with a tiny podocarp remnant.

Type (e) Secondary totara forest. A small area with manuka and taraire.

Fauna

Not surveyed.

Significance

Potential food source for NZ pigeon.

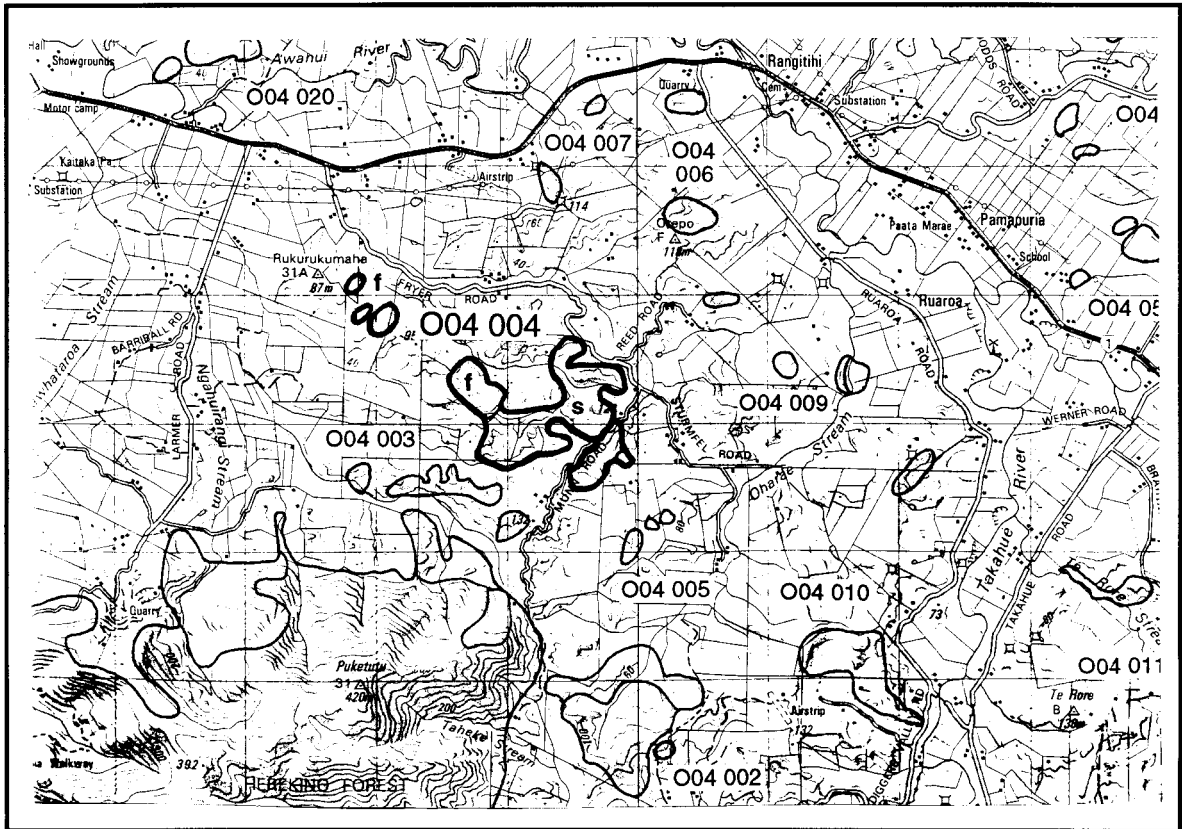
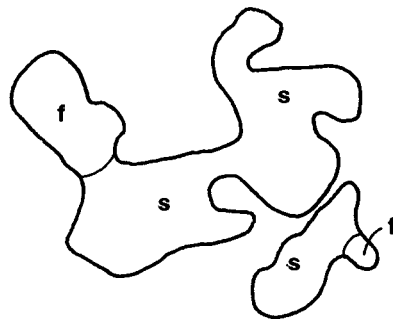
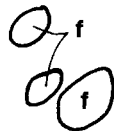


Figure 160. Fryer-Munn Roads, O04 004

Each grid is 1000 m × 1000 m and equals 100 ha.

f = forest; s = shrubland.



STURMFEL RD

Survey no.	O04/005
Survey date	6 December 1994
Grid reference	O04 400 720
Area	5.5 ha
Altitude	40-100 m asl

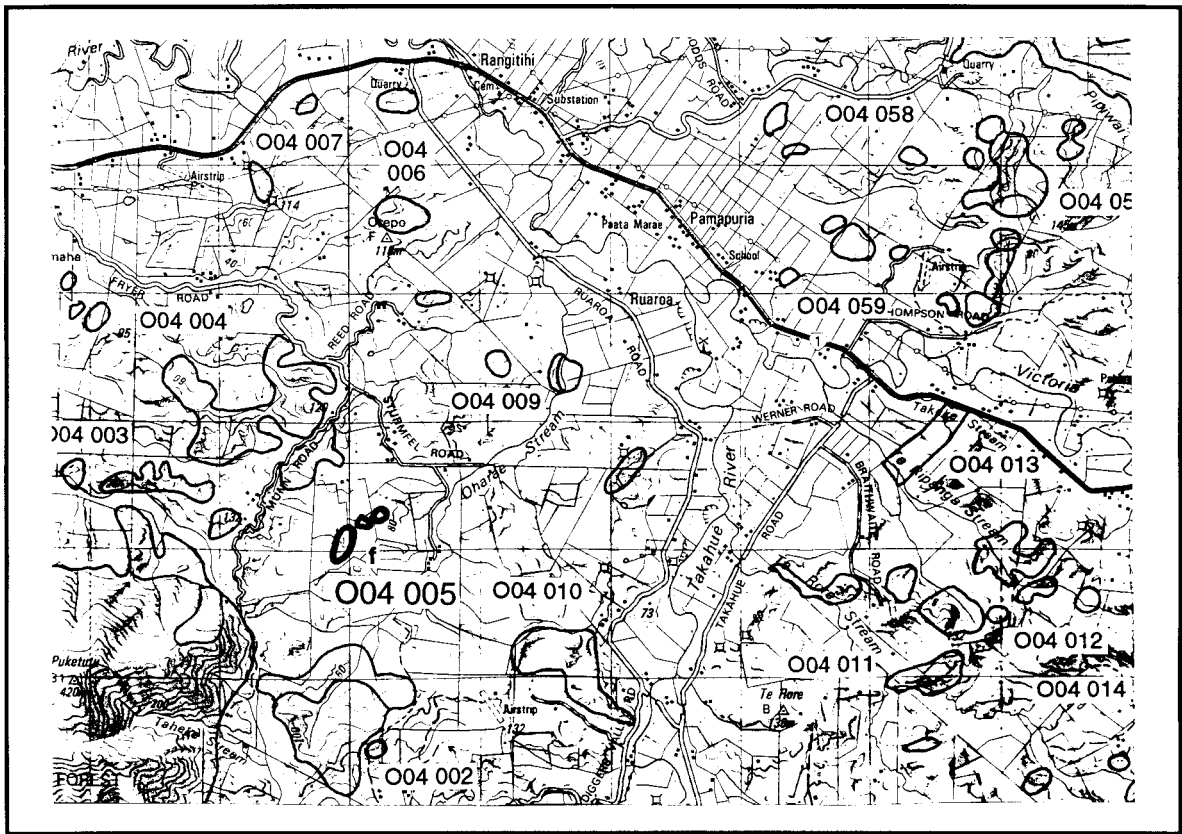


Figure 161. Sturmfel Road, O04 005

Each grid is 1000 m x 1000 m and equals 100 ha.

f = forest; s = shrubland.



Ecological unit

(a) Puriri forest on hillslope

Landform/geology

Gullies and hillslopes on Mangakahia Complex sandstone and siliceous mudstone rock units.

Vegetation

Puriri dominant with kahikatea, taraire and kanuka. Cabbage tree, nikau, mamaku and totara are also present.

Fauna

Not surveyed.

Significance

Potential food supply for NZ pigeon.

SUNNYNOOK

Survey no. O04/007
Survey date 29 November 1994
Grid reference O04 395 750
Area 5.1 ha
Altitude 60-100 m asl

Ecological unit

- (a) Taraire forest on hillslope
- (b) Taraire-puriri forest on hillslope

Landform/geology

Steep gullies in hill country of Motatau Complex calcareous mudstone.

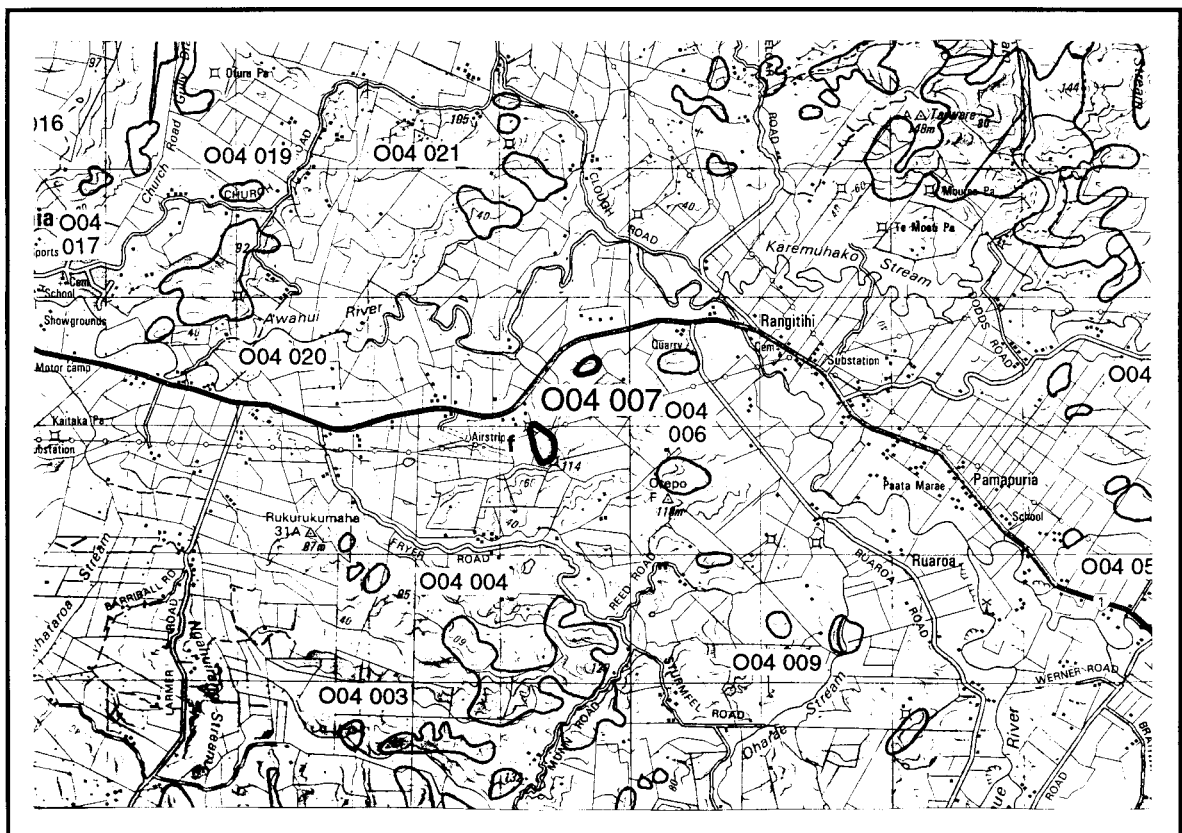


Figure 162. Sunnynook, O04 007

Each grid is 1000 m x 1000 m and equals 100 ha.

f = forest.

f

f

Vegetation

Two small broadleaf remnants; one is taraire-dominant with puriri and kahikatea and occasional totara, towai and rimu.

The other is taraire-puriri with towai and occasional rewarewa and kahikatea.

Fauna

Not surveyed.

Significance

Potential food supply for NZ pigeon.

RUAROA RD

Survey no. O04/009
Survey date 17 November 1994
Grid reference O04 416 730
Area 9.8 ha
Altitude 30-80 m asl

Ecological unit

- (a) Puriri-kahikatea forest on hillslope
- (b) Puriri-taraire forest on hillslope
- (c) Puriri-totara forest on hillslope

Landform/geology

Hillslopes and gullies on Motatau Complex calcareous mudstone.

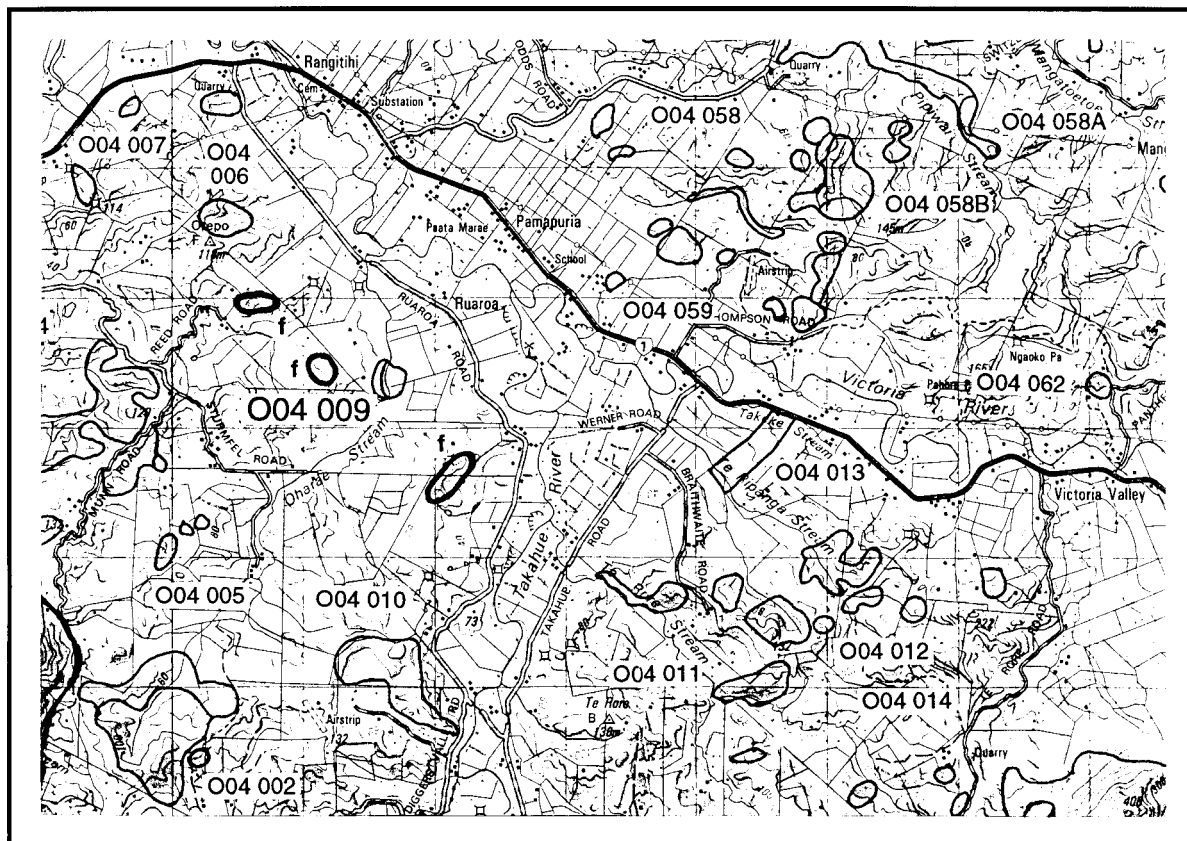


Figure 163. Ruaroa Road, O04 009

Each grid is 1000 m x 1000 m and equals 100 ha. f = forest.

Vegetation

A group of small broadleaf remnants with puriri dominant or co-dominant and taraire, totara and kahikatea common.

Type (a) Puriri-kahikatea forest. Occurs at GR O04 412 735 with occasional rimu and taraire.

Type (b) Puriri-taraire forest. Occurs in the eastern block with occasional kahikatea, totara, pukatea, rimu, towai and cabbage tree

Type (c) Puriri-totara forest. Occurs in the western block GR O04 407 739 with occasional kahikatea, rimu and taraire.

Fauna

Not surveyed.

Significance

Potential food source for NZ pigeon.

MURRAY

Survey no.	O04/010
Survey date	30 November 1994
Grid reference	O04 415 710
Area	39.8 ha
Altitude	60-100 m asl

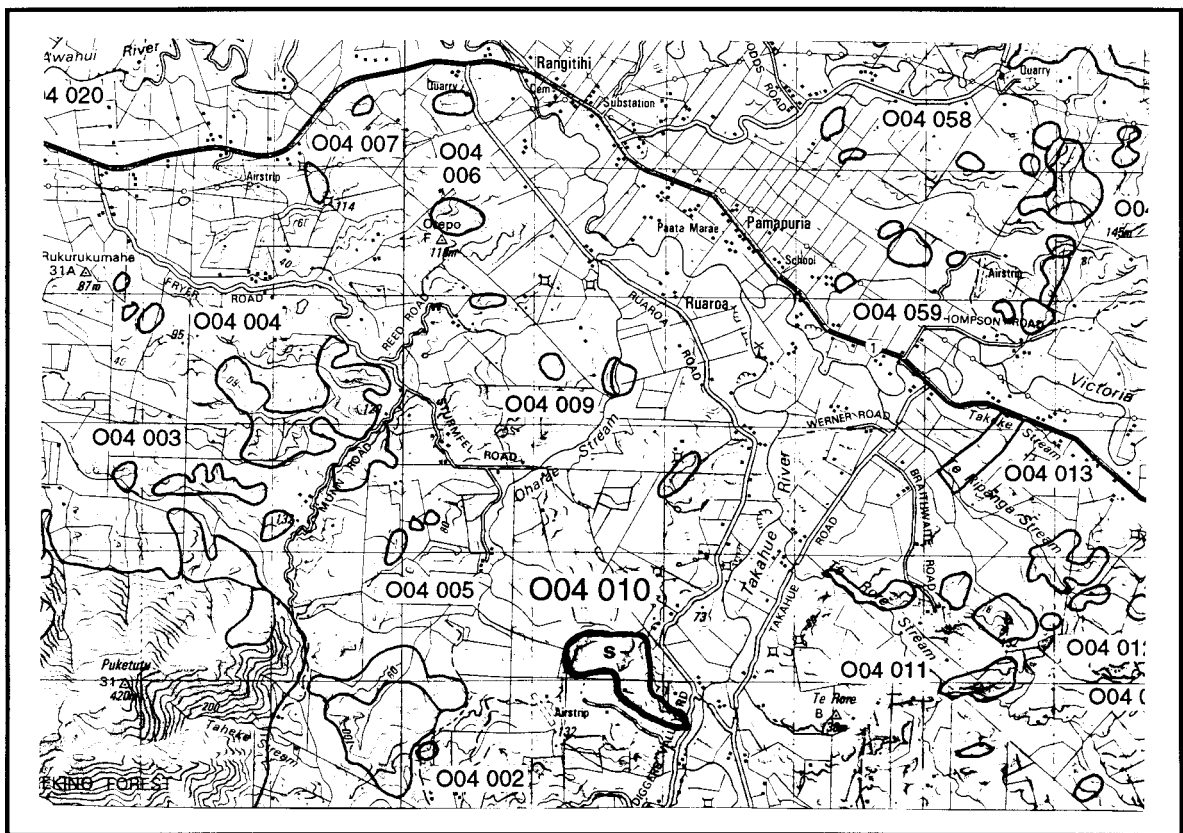


Figure 164. Murray, O04 010

Each grid is 1000 m x 1000 m and equals 100 ha. s = shrubland.

Ecological unit

(a) Manuka-kanuka shrubland on hillslope

(b) Manuka-towai shrubland on hillslope

Landform/geology

Hill country in area of Mangakahia Complex sandstone rock units.

Vegetation

Type (a) Manuka-kanuka shrubland. Of low height, comprising half of the area.

Type (b) Manuka-towai shrubland. Between 3 and 4 m tall with occasional mamaku and tobacco weed, comprising 50% of the area.

Fauna

Not surveyed.

Significance

Habitat suitable for kiwi which are present in the general area.

TE RORE STREAM

Survey no.	O04/011
Survey date	29 November 1994
Grid reference	O04 444 710
Area	24.7 ha
Altitude	40-100 m asl

Ecological unit

(a) Towai shrubland on hillslope

(b) Manuka-kanuka shrubland on hillslope

(c) Secondary kahikatea forest in gully

(d) Manuka-kanuka treeland on alluvium

(e) Taraire forest on hillslope

(f) Taraire-puriri forest on hillslope

(g) Kanuka-towai shrubland on hillslope

(h) Totara-kahikatea forest on alluvium

(i) Raupo reedland on alluvium

Landform/geology

Holocene alluvial flats in valley of Te Rore Stream, and hillslopes and gullies on bounding area of Mangakahia Complex sandstone.

Vegetation

This site comprises a number of different areas in the catchment of the Te Rore stream, particularly adjoining that watercourse and includes an area of raupo.

Type (a) Towai shrubland. About half of the vegetation is tall towai shrubland which contains occasional kahikatea, tanekaha, totara, rewarewa, northern rata and mamaku.

Type (b) Manuka-kanuka shrubland. About 20% of the vegetation is tall manuka-kanuka shrubland with occasional totara, kahikatea and mamaku.

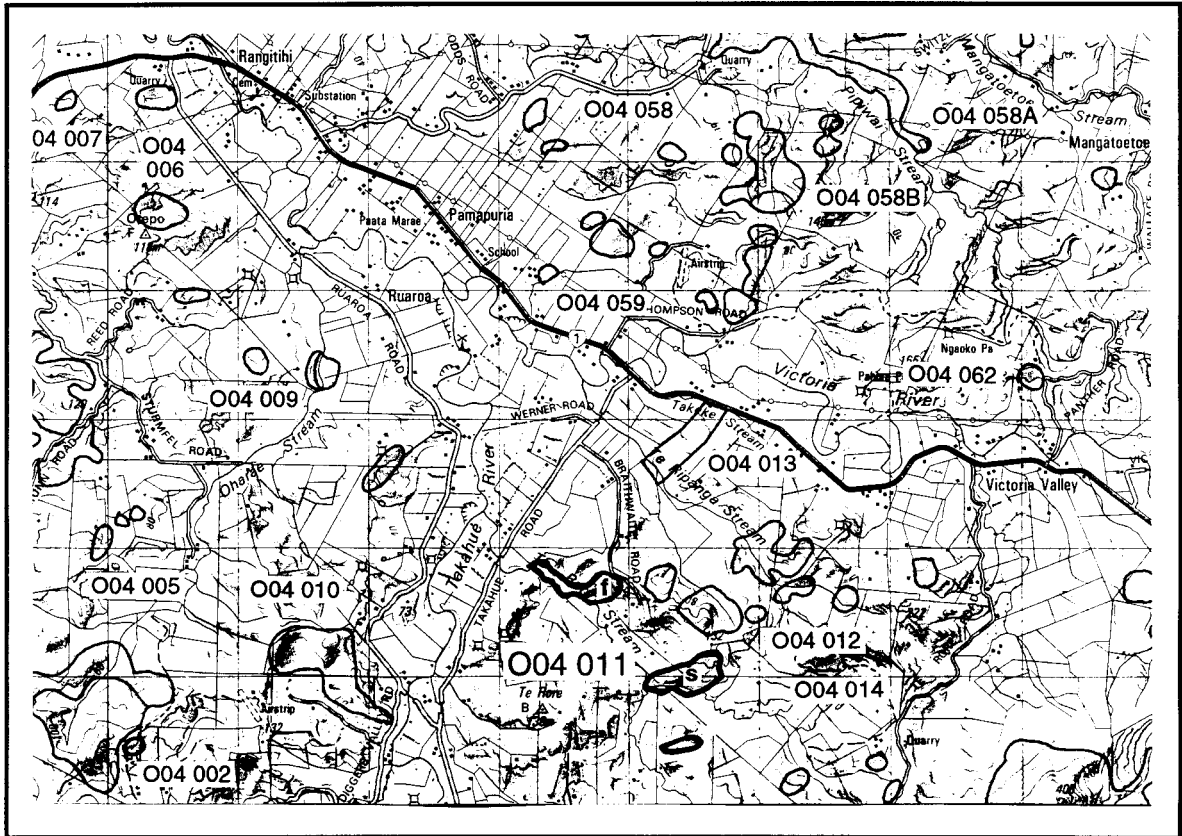
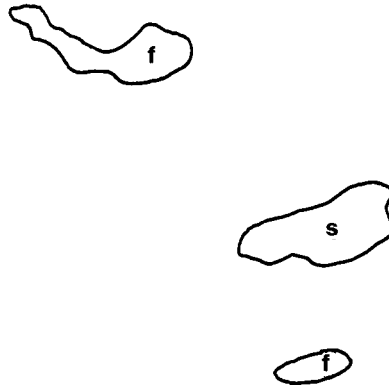


Figure 165. Te Rore Stream, O04 011

Each grid is 1000 m x 1000 m and equals 100 ha.

f = forest; s = shrubland.



Type (c) Secondary kahikatea forest. Some small pockets of secondary kahikatea with occasional puriri and taraire with kahikatea, towai and puriri.

Type (d) Manuka-kanuka treeland. Occurs near Takahue Rd with frequent totara, puriri and oak, and occasional kahikatea, cabbage tree, rimu, poplar, willow and macrocarpa.

Type (e) Taraire forest. Occurs in a small pocket, with occasional puriri, nikau and totara.

Type (f) Taraire-puriri forest. Taraire is dominant, puriri common and kahikatea and towai frequent. Emergent rimu is occasional as are mapou, totara, manuka-kanuka on the margins.

Type (g) Kanuka-towai shrubland. Comprises 5% of the area.

Type (h) Totara-kahikatea forest. Puriri is occasional and macrocarpa occurs on the margins.

Type (i) Raupo reedland (not mapped). Occurs in the stream valley.

Fauna

Not surveyed.

Significance

Riparian protection and buffer on alluvium, in a tributary of Awanui River.

TE RORE REMNANTS

Survey no.	O04/014
Survey date	29 November 1994
Grid reference	O05 450 695, O04 460 710
Area	18.7 ha
Altitude	80-150 m asl

Ecological unit

- (a) Taraire forest on hillslope
- (b) Puriri-kahikatea forest on hillslope
- (c) Taraire-puriri-kahikatea-totara forest on hillslope
- (d) Taraire-puriri forest on hillslope

Landform/geology

Hill country on the margin of a Tangihua Complex igneous massif.

Vegetation

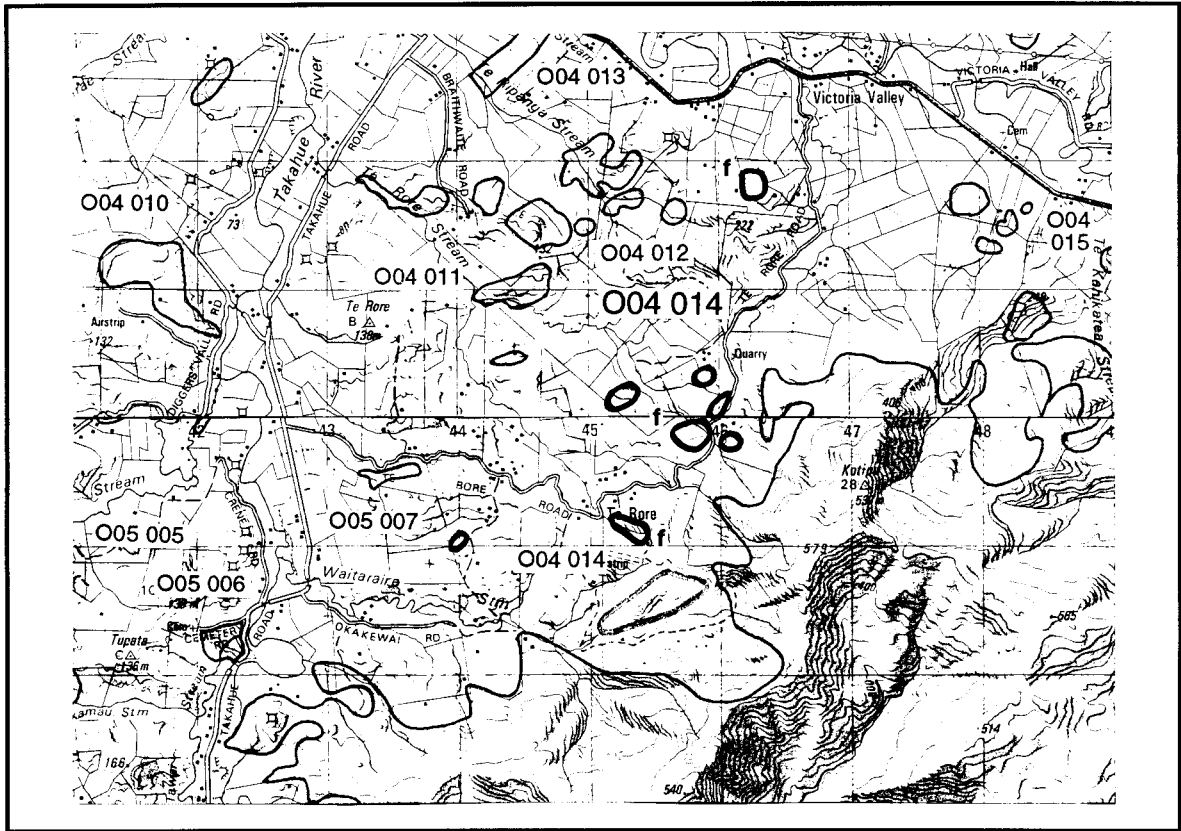
Several mostly taraire-dominant remnants, with puriri and kahikatea often frequent. The other species present are nikau, rewarewa, pukatea, totara, towai, karaka and rimu. All are small and apparently grazed.

Fauna

Not surveyed.

Significance

Potential seasonal source of food for NZ pigeon.

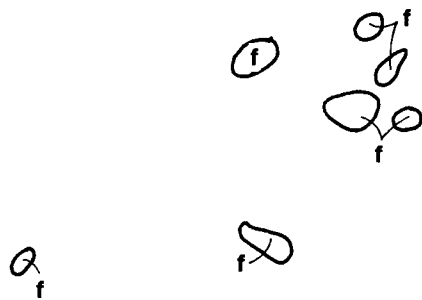


f

Figure 166. Te Rore Remnants, O04 014

Each grid is 1000 m x 1000 m and equals 100 ha.

f = forest.



VICTORIA VALLEY REMNANTS

Survey no.	O04/015
Survey date	29 November 1994
Grid reference	O04 480 715
Area	15.8 ha
Altitude	60-100 m asl

Ecological unit

- (a) Secondary kanuka forest on hillslope
- (b) Puriri-taraire-totara forest on hillslope
- (c) Secondary totara on hillslope
- (d) Taraire forest on hillslope

Landform/geology

Hillslopes and gullies of Mangakahia Complex sandstone (north-western site) and Tangihua Complex igneous rocks (south-western sites).

Vegetation

Four small areas:

Type (a) Kanuka forest. With towai and kahikatea and occasional rimu, totara, puriri and rata.

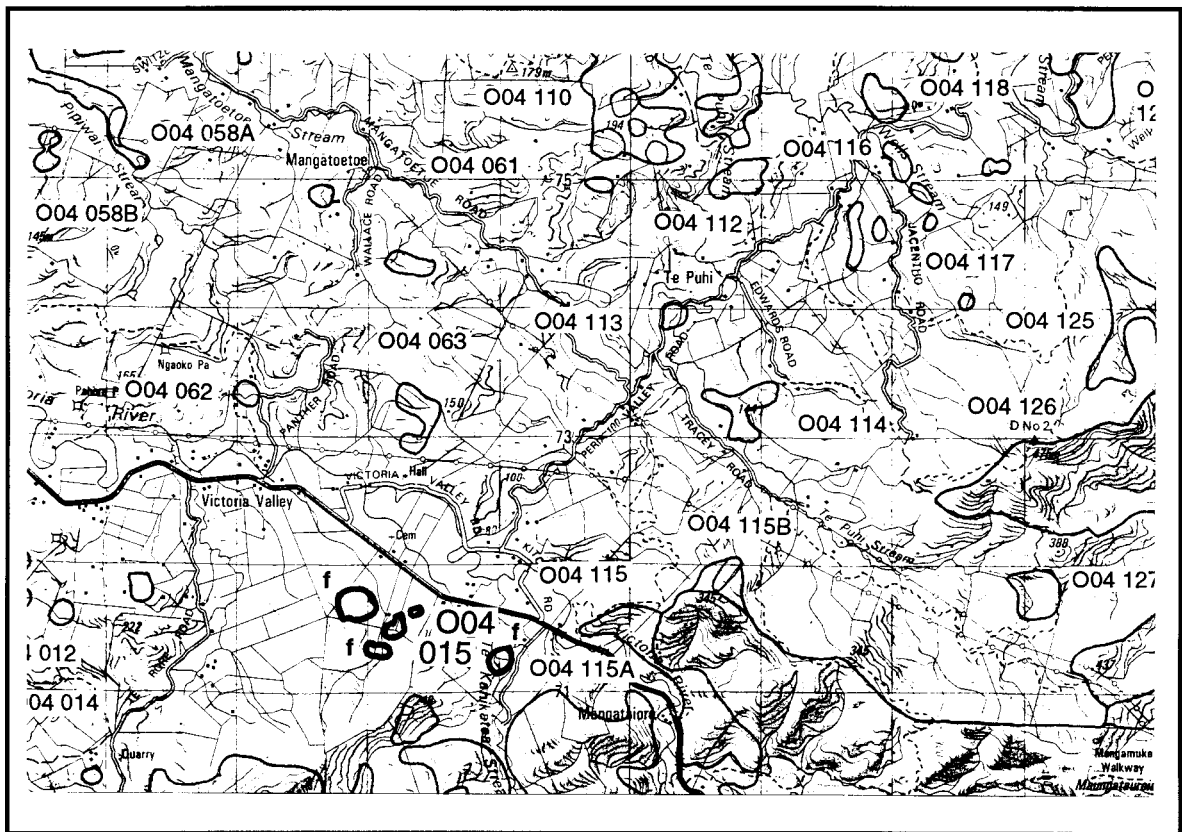
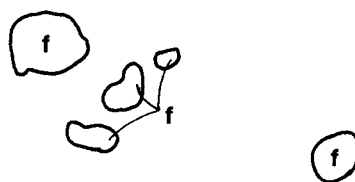


Figure 167. Victoria Valley Remnants, O04 015
Each grid is 1000 m x 1000 m and equals 100 ha.
f = forest.



Type (b) Puriri-taraire-totara forest.

Type (c) Secondary totara forest. With puriri and occasional rimu and kahikatea.

Type (d) Taraire forest. Near the Te Kahikatea Stream is a small taraire remnant with totara and kahikatea, and occasional northern rata, rimu, puriri and towai.

Fauna

NI brown kiwi (Category A threatened species) present in eastern-most block.

Significance

Small sites but which are currently forming an important ecological function by containing fruit-bearing species which may provide for NZ pigeon, and in the case of the eastern-most block, habitat for kiwi.

EMPIRE STREET

Survey no. O04/016
Survey date 9 November 1994
Grid reference O04 353 769
Area 4.4 ha
Altitude 20-60 m asl

Ecological unit

(a) Taraire forest on hillslope

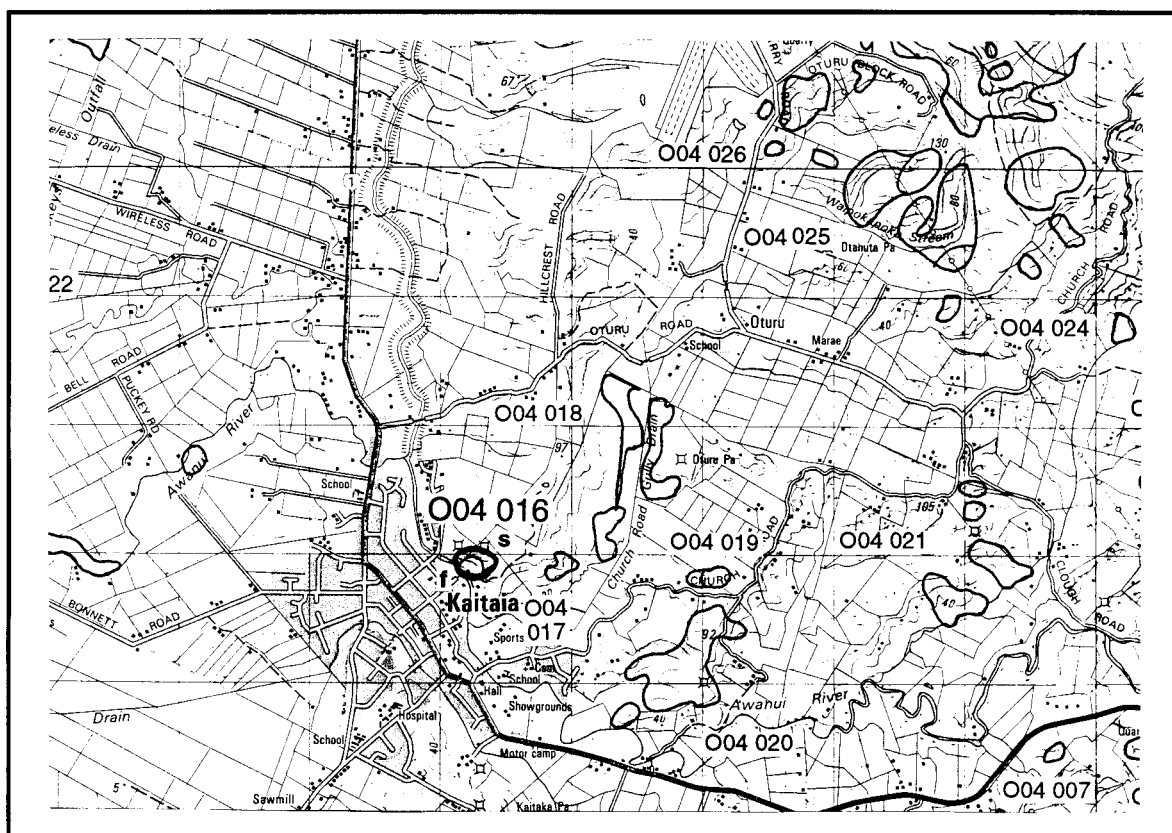


Figure 168. Empire Street, O04 016

Each grid is 1000 m x 1000 m and equals 100 ha. f = forest; s = shrubland.

(b) Towai-manuka shrubland on hillslope

Landform/geology

Gully in Mangakahia Complex sandstone running down to the Awanui River.

Vegetation

Type (a) Taraire forest. Half of this small area is taraire with puriri and occasional rewarewa and pukatea.

Type (b) Towai-manuka shrubland. Contains kohekohe, mamaku, cabbage tree, mapou, gorse and kahili ginger.

Fauna

Not surveyed.

Significance

Very close to Kaitaia Town Centre, and on the edge of the Awanui River.

KAITAIA RECYCLE

Survey no.	O04/017
Survey date	9 November 1994
Grid reference	O04 359 769
Area	2.9 ha
Altitude	40-60 m asl

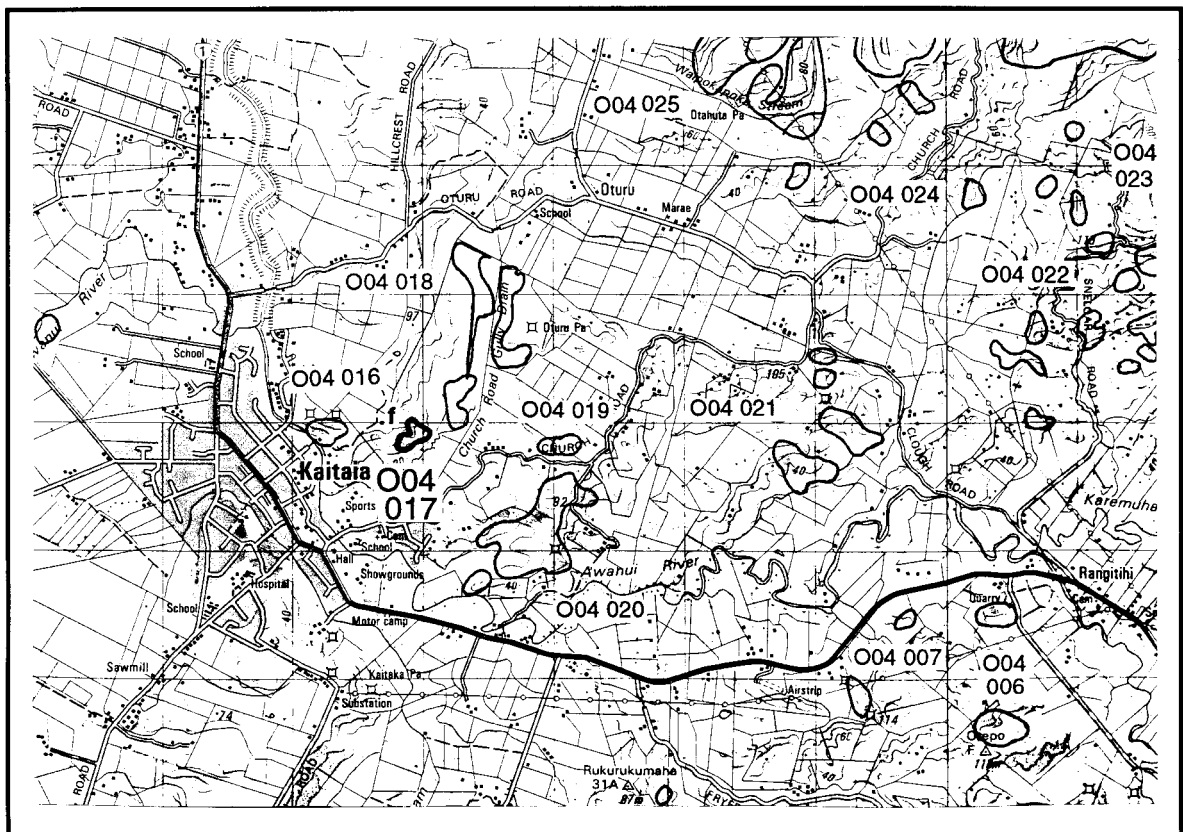


Figure 169. Kaitaia Recycle, O04 017

Each grid is 1000 m x 1000 m and equals 100 ha. f = forest.

Ecological unit

(a) Taraire forest on hillslope

Landform/geology

Hillslope in Mangakahia Complex mudstone.

Vegetation

A small area of taraire bush with towai and puriri. Also present are rewarewa, kahikatea, kohekohe, pukatea and mamaku.

Ponga occurs in the sub-canopy. The area is heavily grazed with no understorey. A few large puriri (about 1 m diameter) are present.

Fauna

Not surveyed.

Significance

Large puriri are increasingly uncommon in the Ecological District. The site may provide a seasonal food source for NZ pigeon.

LOWER CHURCH RD

Survey no.	O04/019
Survey date	9 November 1994
Grid reference	O04 370 768
Area	3.7 ha
Altitude	40-60 m asl

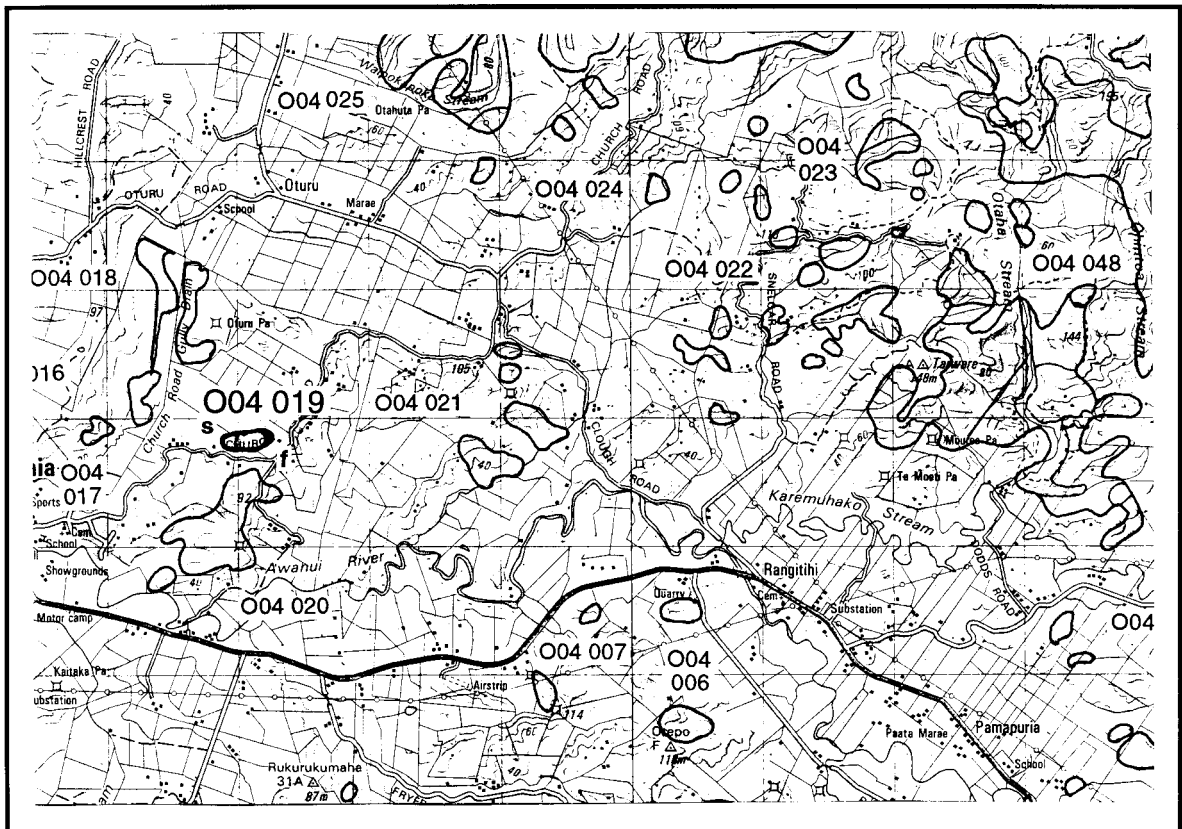


Figure 170. Lower Church Road, O04 019

Each grid is 1000 m x 1000 m and equals 100 ha. f = forest; s = shrubland.

Ecological unit

- (a) Manuka shrubland on hillslope
- (b) Puriri-taraire forest in gully

Landform/geology

Hillslope on Mangakahia Complex mudstone.

Vegetation

A small area, half of which is manuka shrubland with towai and occasional pate, cabbage tree, kahikatea, totara and mamaku, and the other half is puriri-taraire forest with kahikatea and occasional totara, nikau, cabbage tree and pukatea.

Fauna

Not surveyed.

Significance

Seasonal food source for NZ pigeon.

QUARRY/OTURU RD

Survey no.	O04/026
Survey date	1 November 1994
Grid reference	O04 377 806
Area	18.9 ha
Altitude	40-80 m asl

Ecological unit

- (a) Puriri-taraire forest on hillslope
- (b) Puriri forest on hillslope
- (c) Manuka shrubland on hillslope
- (d) Puriri-totara-kahikatea forest on hillslope
- (e) Manuka-tobacco weed shrubland on hillslope
- (f) Raupo reedland on valley floor

Landform/geology

Hillslopes and gullies in Motatau Complex calcareous mudstone.

Vegetation

Type (a) Puriri-taraire forest. The main area is puriri-taraire with kanuka and occasional kahikatea, rimu, kauri and northern rata. The three other remnants are also puriri-taraire.

Type (b) Puriri forest. A small remnant with frequent totara.

Type (c) Manuka shrubland. With occasional kahikatea. Adjoins the main forest area.

Type (d) Kahikatea-totara-puriri forest. Occurs below Oтуру Block Rd.

Type (e) Manuka-tobacco weed shrubland. Adjoins Type (c) and contains frequent puriri and occasional kahikatea, totara, towai, taraire, mamaku and cabbage tree.

Type (f) Raupo swamp. Occurs below Type (d).

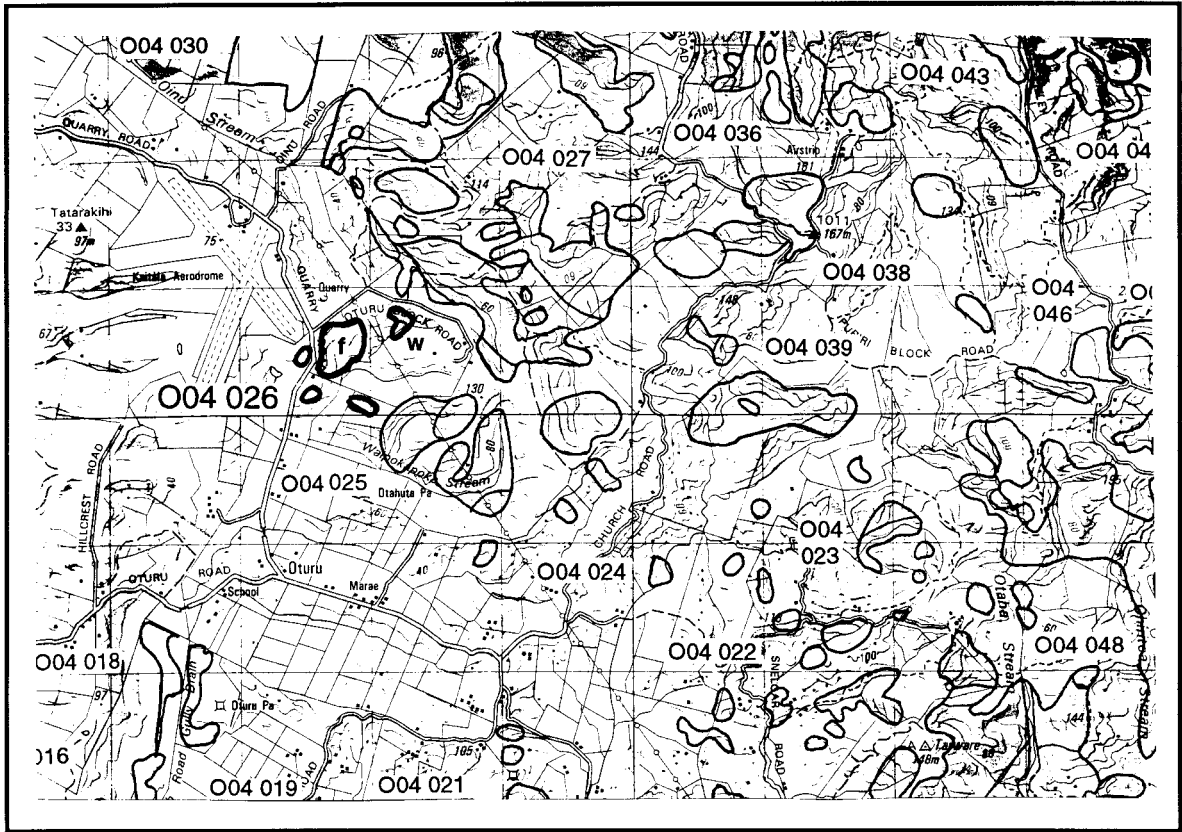
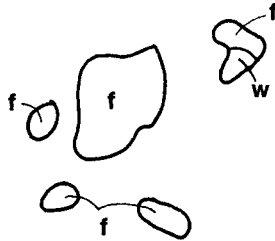


Figure 171. Quarry/Oturu Road, O04 026
 Each grid is 1000 m x 1000 m and equals 100 ha.
 f = forest; w = wetland.



Fauna

Not surveyed but NI brown kiwi (Category A threatened species) recorded nearby in 1992.

Significance

Broadleaf remnants are potential food source for NZ pigeon.

KAREPONIA

Survey no.	O04/030
Survey date	1 November 1994
Grid reference	O04 380 830
Area	140.2 ha
Altitude	10-60 m asl

Ecological unit

(a) Manuka shrubland on raised marine terrace and slope

(b) Puriri forest in gully

Landform/geology

Hill country of Motatau Complex calcareous mudstone and sandstone lithofacies with podsolised sand deposits on erosional (marine) terrace remnants on ridge tops, and Holocene alluvial flats in Mangatakawero Stream Valley and an area of consolidated parabolic dunes to the north of the valley.

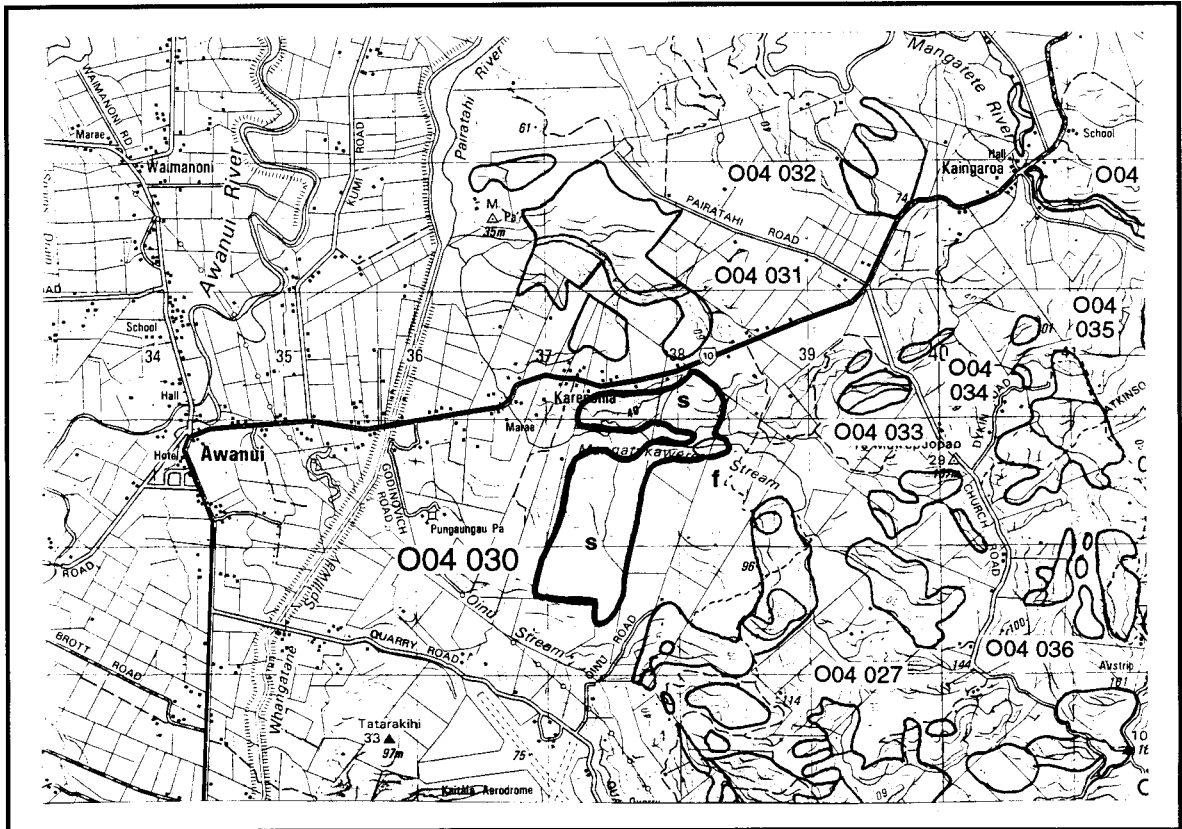
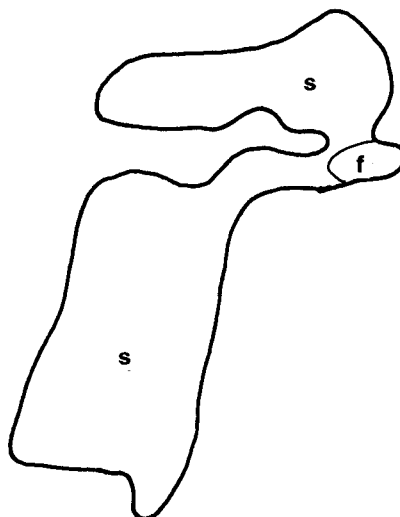


Figure 172. Kareponia, O04 030

Each grid is 1000 m x 1000 m and equals 100 ha.

f = forest; s = shrubland.



Vegetation

Type (a) Manuka shrubland. Most of this area is manuka shrubland between 2 and 4 m tall. Other species occurring occasionally or frequently are *Acacia longifolia*, tobacco weed, mamaku, cabbage tree and pampas.

Type (b) Puriri forest. In the Managatakawero Stream valley is a small area of puriri with frequent totara and kahikatea and occasional rewarewa.

Fauna

Not surveyed but NI brown kiwi (Category A threatened species) present in an adjacent area.

Significance

Geomorphological characteristics providing a habitat type of limited distribution in the Ecological District (gumland).

Further surveying is needed to determine particular values, especially in relation to the presence of kiwi and native orchids.

ARAWHATA RD

Survey no.	O04/032
Survey date	17 November 1994
Grid reference	O04 397 860
Area	33.8 ha
Altitude	20-74 m asl

Ecological unit

(a) Manuka shrubland on flat ridge and hillslope

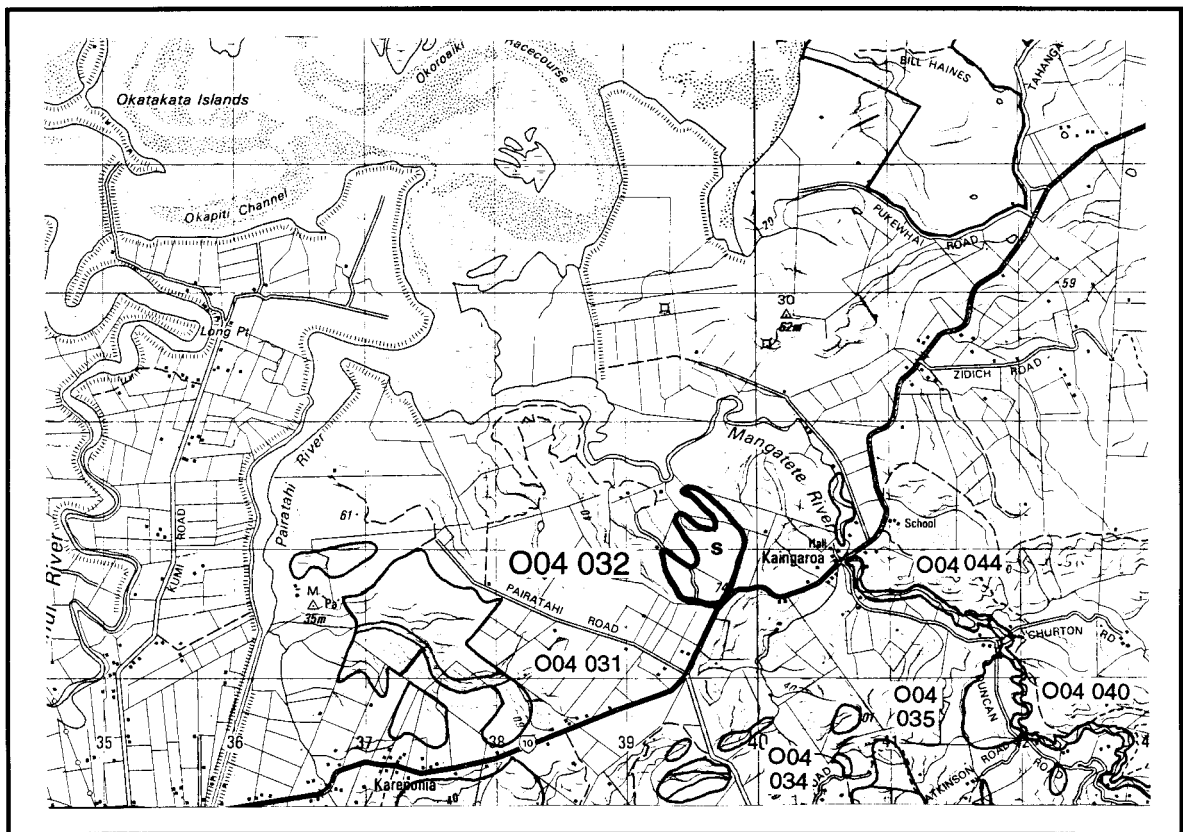


Figure 173. Arawhata Road, O04 032

Each grid is 1000 m x 1000 m and equals 100 ha. s = shrubland.

Landform/geology

Coastal hills of Motatau Complex calcareous mudstone and sandstone lithofacies with podsolised sand deposits on erosional (marine) terrace remnants on ridge tops.

Vegetation

Almost all manuka about 2-3 m tall, but in a small area, mamaku is frequent.

Fauna

Not surveyed, but presence of NI brown kiwi (Category A threatened species) likely.

Significance

Habitat occurring on gumland soils which is uncommon in the Ecological District, and which may contain kiwi and NI fernbird. Further surveying is needed to determine the actual values of this site.

DYKIN RD WETLAND

Survey no. O04/034
Survey date 1 November 1994
Grid reference O04 407 844
Area 1.8 ha
Altitude <20 m asl

Ecological unit

(a) Raupo reedland on alluvium

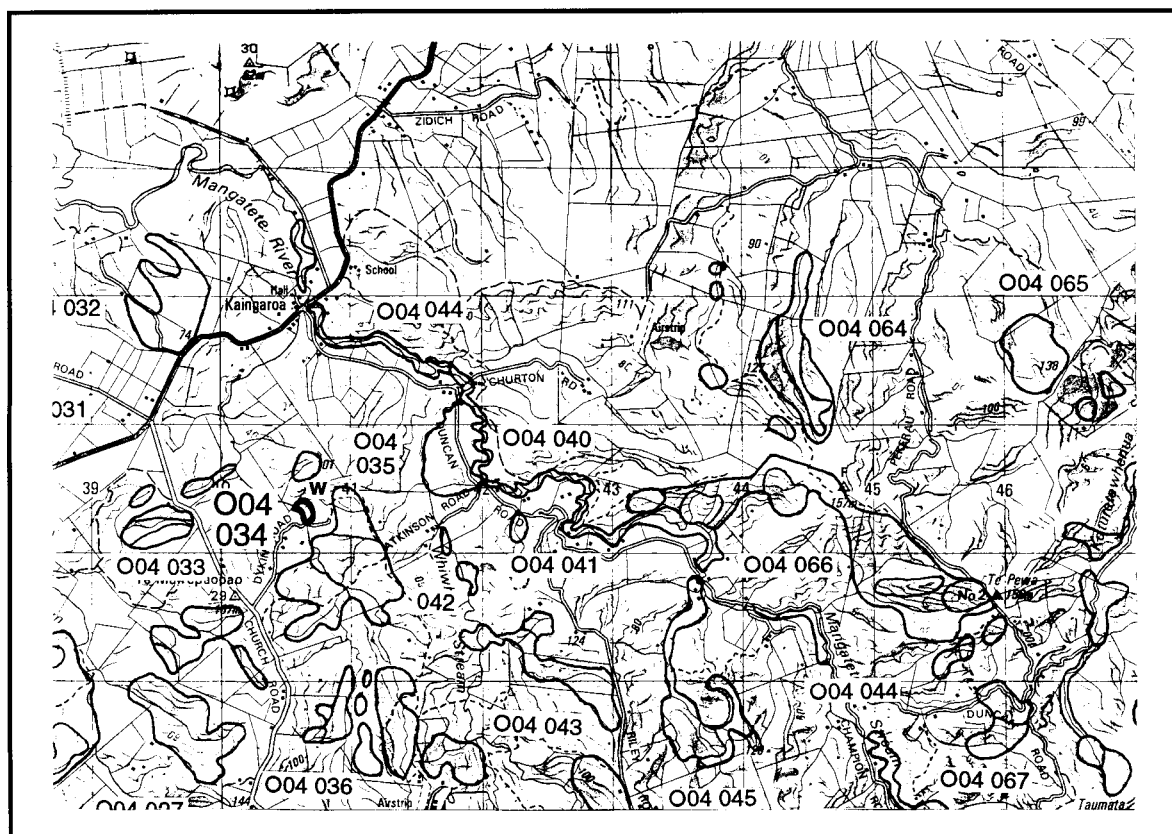


Figure 174. Dykin Road Wetland, O04 034

Each grid is 1000 m x 1000 m and equals 100 ha. w = wetland.

Landform/geology

Freshwater wetland on Holocene alluvium in a valley in Motatau Complex calcareous mudstone and sandstone hill country.

Vegetation

Raupo with occasional flax. There is some manuka, totara and willow on the margin.

Fauna

Not surveyed.

Significance

A small wetland with potential for habitat restoration, and likely to support spotless crane and visiting Australasian bitterns.

PAICE

Survey no.	O04/041
Survey date	29 September 1994
Grid reference	O04 423 843
Area	1.8 ha
Altitude	20 m asl

Ecological unit

(a) Secondary totara-kahikatea forest on alluvium

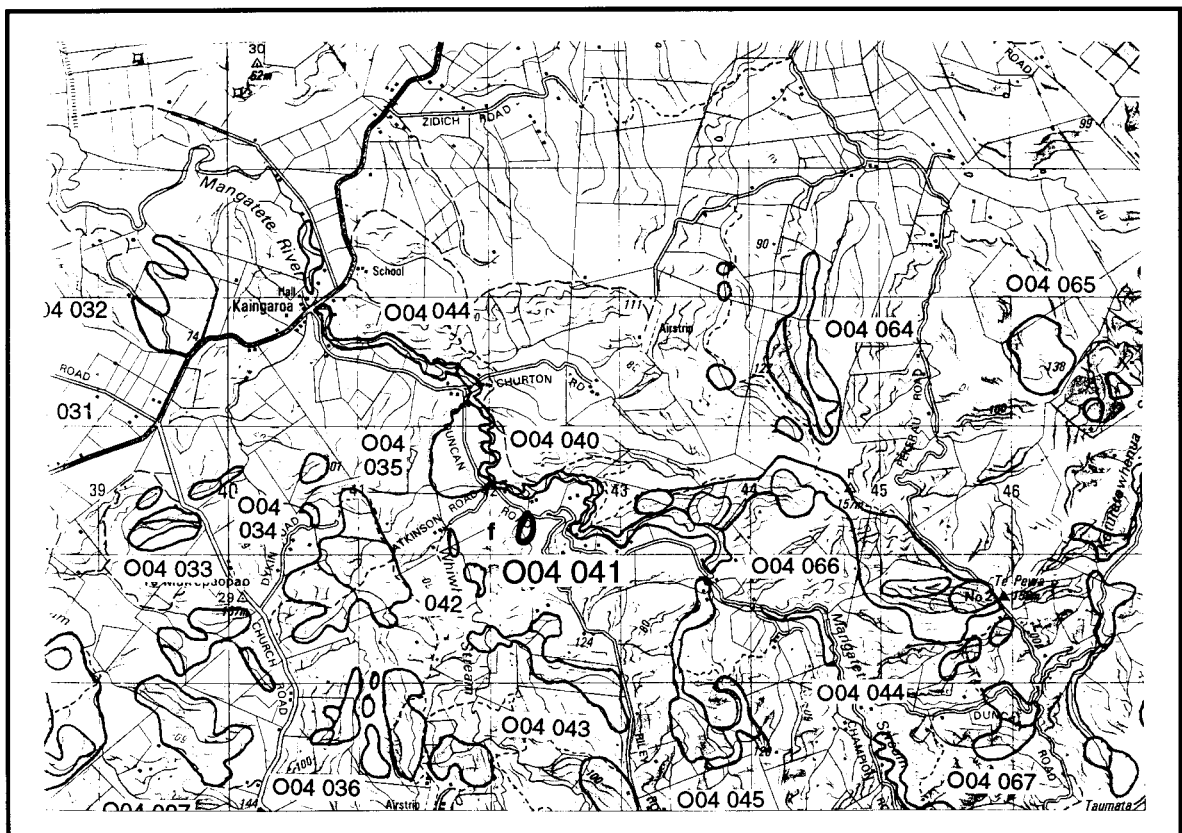


Figure 175. Paice (Duncan Road), O04 041
Each grid is 1000 m x 1000 m and equals 100 ha. f = forest.

Landform/geology

Valley in Motatau Complex calcareous mudstone and sandstone hill country.

Vegetation

A secondary totara-kahikatea remnant with puriri, cabbage tree and taraire.

Fauna

Not surveyed.

Significance

A small example of podocarp forest on alluvium, an uncommon vegetation type in the Ecological District and Region. Potential food source for NZ pigeon.

ATKINSON

Survey no. O04/042
Survey date 10 October 1994
Grid reference O04 418 840
Area 3.7 ha
Altitude to 20 m asl

Ecological unit

- (a) Cabbage tree-totara treeland on alluvium
- (b) Puriri forest on alluvium

Landform/geology

Holocene alluvial flats in valley of Whiwhero Stream

Vegetation

Type (a) Cabbage tree-totara treeland. An area of cabbage tree and totara with occasional puriri, taraire, manuka, tobacco weed and macrocarpa.

Further upstream, cabbage tree is less common and puriri and kahikatea rarely present.

The landowner has a small pond at one end. Pines are growing on the slope across the river.

Type (b) Puriri forest. A small remnant with frequent totara and taraire, and occasional kohekohe, rimu and kahikatea.

Fauna

NI brown kiwi (Category A threatened species).

Significance

Riparian buffer and habitat for kiwi but limited by small size and fragmentation.

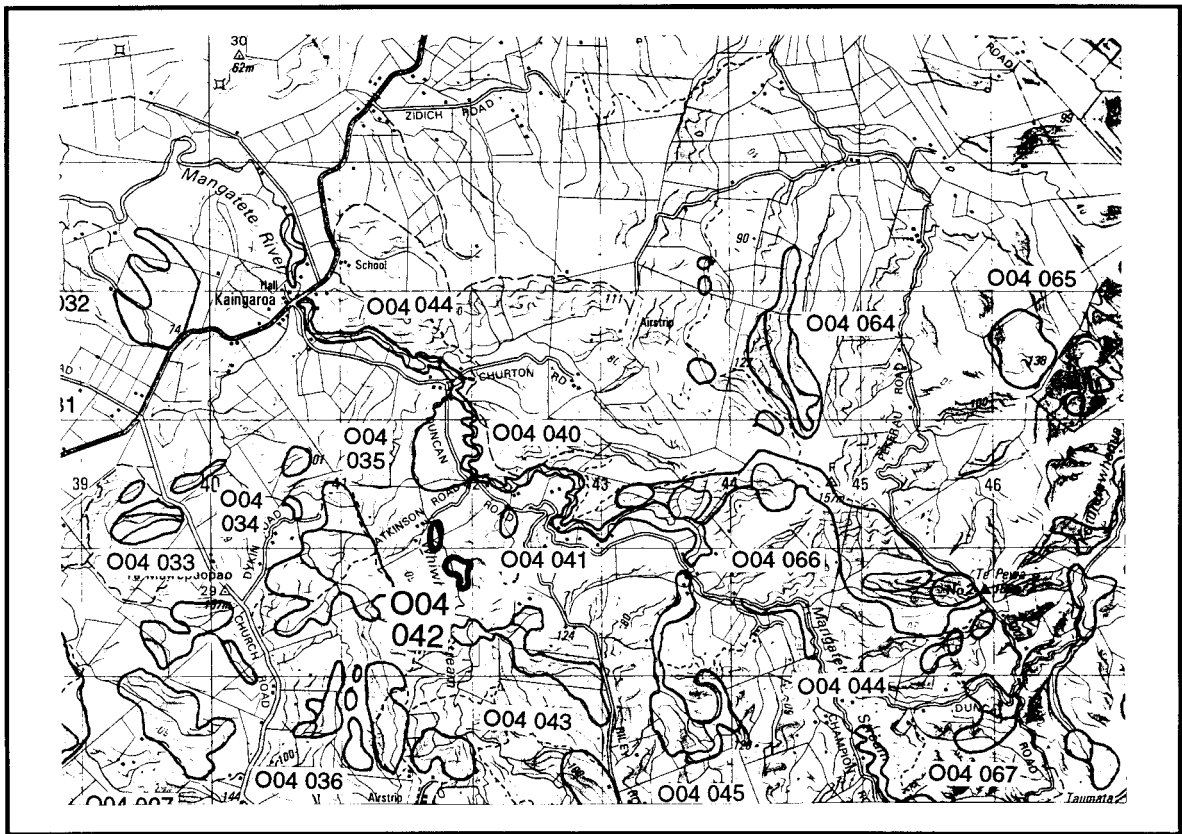
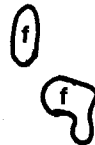


Figure 176. Atkinson, O04 042

Each grid is 1000 m x 1000 m and equals 100 ha.

f = forest.



ELSTOB

Survey no. O04/053
 Survey date 3 October 1994
 Grid reference O04 448 784
 Area 1.8 ha
 Altitude c. 150 m asl

Ecological unit

(a) Taraire forest on hillslope

Landform/geology

Gully head in Motatau Complex calcareous mudstone and sandstone hill country.

Vegetation

A taraire-dominant remnant with totara and towai. Puriri, rewarewa, rimu and kahikatea also occur.

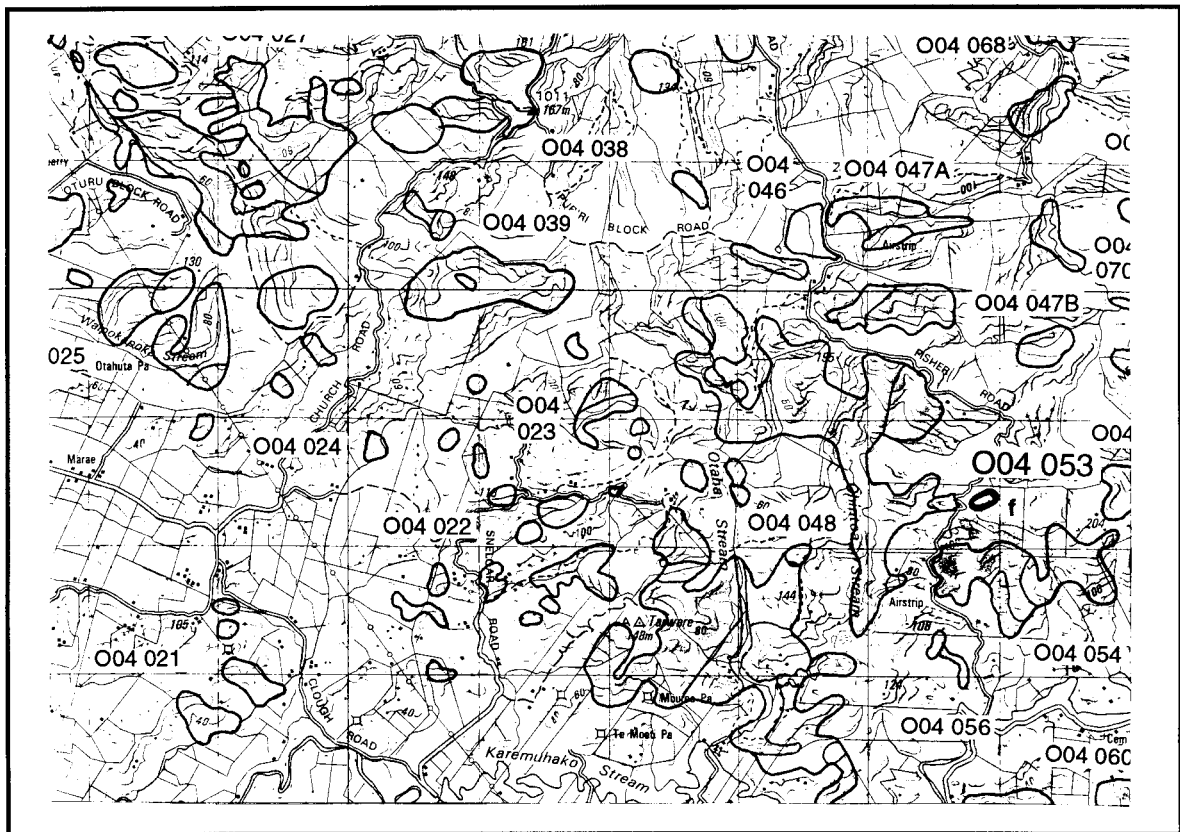


Figure 177. Elstob, PO4 053
 Each grid is 1000 m × 1000 m and equals 100 ha. f = forest.

Fauna

Not surveyed.

Significance

A small, unfenced remnant, which may be providing a seasonal food source for NZ pigeon.

TE PUHI SWAMP #2

Survey no. O04/056
 Survey date 3 October 1994
 Grid reference O04 447 771
 Area 4.6 ha
 Altitude c. 40 m asl

Ecological unit

- (a) Raupo reedland in valley bottom
- (b) Secondary kahikatea forest on toe slope

Landform/geology

Holocene alluvium and wetland along a tributary of the Te Puhi Stream.

Vegetation

A small raupo wetland with scattered wheki, cabbage tree, swamp maire, willow and kiokio.

There is a small adjoining stand of secondary kahikatea with occasional totara.

Pines are planted on the hillside behind the swamp.

Significant flora

Swamp maire - uncommon in the Ecological District.

Fauna

Not surveyed.

Significance

A wetland which may support swamp birds and with a small amount of swamp maire and kahikatea forest, both now uncommon in the Ecological District.

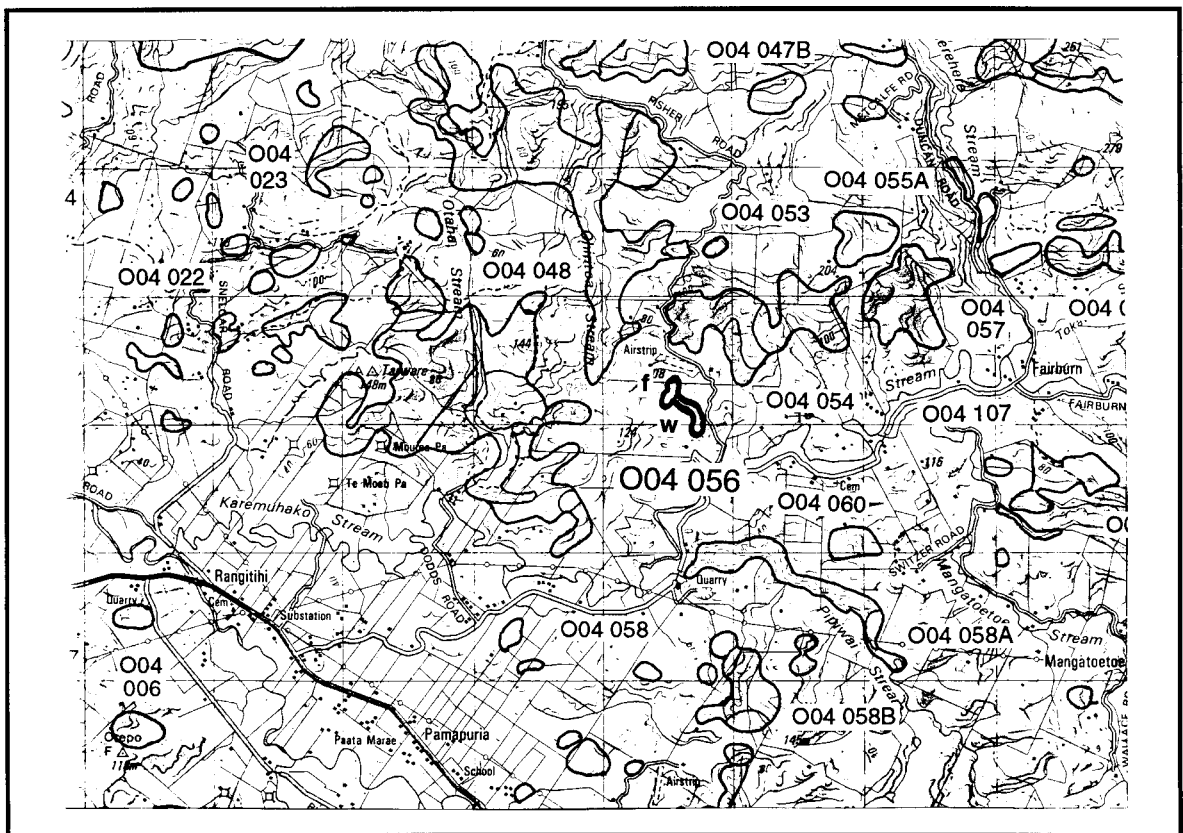


Figure 178. Te Pahi Swamp #2, O04 056

Each grid is 1000 m x 1000 m and equals 100 ha.

f = forest; w = wetland.



THOMPSON RD REMNANTS

Survey no. O04/059
 Survey date 10 November 1994
 Grid reference O04 440 744
 Area 18.3 ha
 Altitude 40 - 80 m asl

Ecological unit

- (a) Secondary kahikatea forest on alluvium
- (b) Secondary kahikatea-manuka forest on gentle hillslope
- (c) Secondary kahikatea-puriri forest on gentle hillslope
- (d) Puriri forest on hillslope

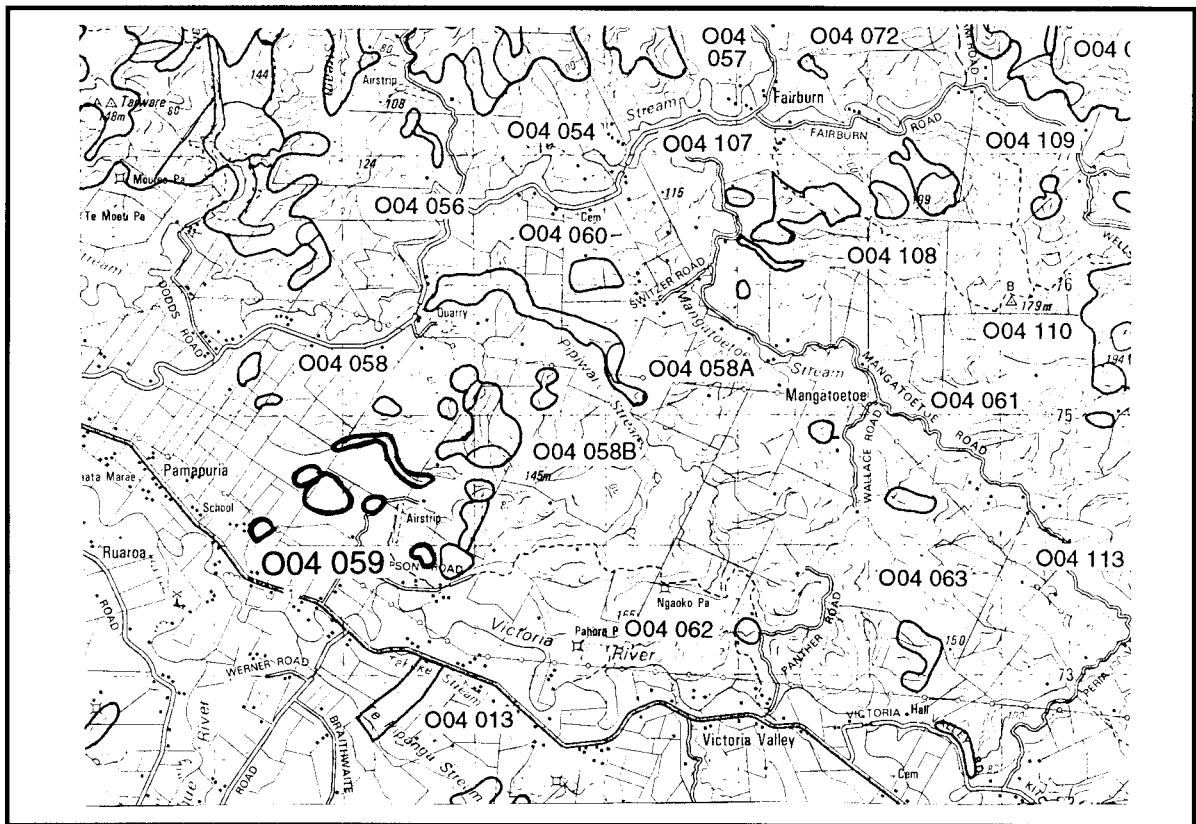
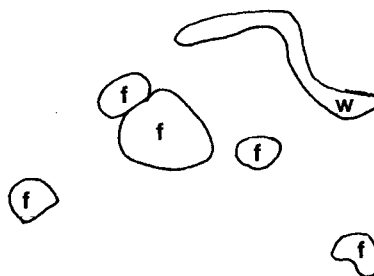


Figure 179. Thompson Road Remnants, O04 059
 Each grid is 1000 m x 1000 m and equals 100 ha.
 f = forest; w = wetland.



(e) Raupo reedland on alluvium

Landform/geology

Low hill country of Motatau Complex calcareous mudstone.

Vegetation

These remnants are either puriri- or kahikatea-dominant.

The other species occurring include totara, kanuka, cabbage tree, rimu, towai, karaka, and kohekohe.

In a gully to the north (GR O04 433 747) is a long, narrow raupo swamp.

Fauna

Not surveyed.

Significance

Small sites which are part of a suite of remnant habitats in the general area providing a seasonal source of fruit for NZ pigeon and possibly refuge for kiwi, which have been reported in the larger area.

A more detailed survey is required to establish the full values present, including the wetland which is likely to support wetland bird species.

FOUR CROSSROADS

Survey no.	O04/067
Survey date	13 September 1994
Grid reference	O04 460 820
Area	16 ha
Altitude	4-120 m asl

Ecological unit

- (a) Manuka-kanuka shrubland on hillslope
- (b) Taraire-puriri forest on hillslope
- (c) Secondary totara-kanuka forest on hillslope
- (d) Puriri forest on hillslope

Landform/geology

Dissected hill country in Motatau Complex calcareous mudstone and sandstone.

Vegetation

Type (a) Manuka-kanuka shrubland. Tall vegetation with occasional totara, puriri and mamaku, comprising about half of the area.

Type (b) Taraire-puriri forest. Most of the remainder is taraire-puriri forest with totara and kohekohe. Also present are rimu, tanekaha, rewarewa and mamaku.

Type (c) Totara-kanuka forest. A small area with taraire, puriri and occasional tanekaha.

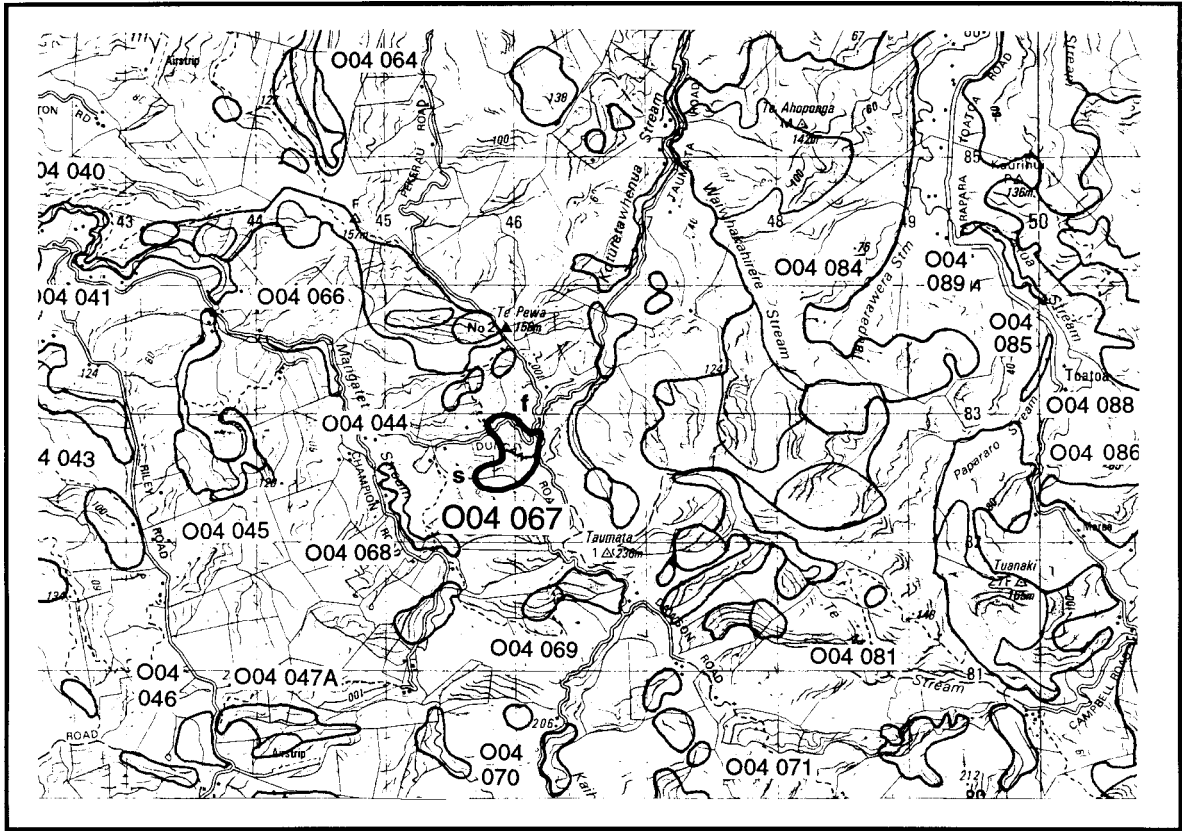
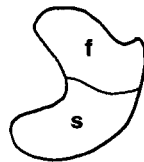


Figure 180. Four Crossroads, O04 067
 Each grid is 1000 m x 1000 m and equals 100 ha.
 f = forest; s = shrubland.



Type (d) Puriri forest. A small remnant across the road is mostly puriri with kahikatea, totara and taraire with some pine and macrocarpa.

Fauna

Not surveyed.

Significance

Catchment protection for a tributary of Mangatete Stream.