

## 4. Site descriptions

Midpoint grid references are given for all sites. Where more than one remnant exists, the number of remnants is given in brackets after the grid reference.

Vegetation types within ecological units are defined by 'abundant' (species which form >50% of the canopy) and 'common' (species which form 20–50% of the canopy) species. If there is more than one canopy species, these are listed in descending order of abundance. The percentage cover of ecological units has been included in the site descriptions, however individual ecological units within sites are not mapped. Broad habitat types (e.g. 'forest', 'shrubland', 'freshwater wetland', 'estuarine wetland' and 'other') have been mapped according to the classification set out in Section 3.3.3.

Records of threatened flora and fauna have been sourced from herbaria and other databases and information systems mentioned in Section 2.1, or were direct observations during the course of this survey. The status of all records was checked prior to inclusion in this report. The Fauna section of each site description lists incidental indigenous fauna observations (exotic fauna are not recorded here) and identifies significant fauna with their current New Zealand conservation status in capitals (e.g. Gradual Decline) which is derived from Hitchmough (comp.) (2002). See Appendix 8.7 for a list of fauna present in Otamatea ED Northland.

'Not surveyed' is stated in the fauna section of the site description if, at the time of publication, the Department of Conservation, Northland Conservancy, did not have any information on indigenous fauna species from that natural area.

### 4.1 LEVEL 1 SITES

The following were assessed to be Level 1 sites. These are listed in Table C, and described and mapped in the ensuing sections.

TABLE C: LIST OF LEVEL 1 SITES.

SITE NAME	SURVEY NO.	GRID REF.
Lower Pukeareinga Forest Remnants	Q08/061	Q08 355 629
Otamatea River	Q08/062	Q08 321 537
Otara Head Forest and Shrubland	Q08/063	Q08 295 505
Kowhai Road Matai-Kahikatea Remnant	Q08/064	Q08 115 612
Otuhanga Hill Forest	Q08/065	Q08 106 616
Brynderwyn Farm Pond	Q08/066	Q08 392 676
Brynderwyn Road Forest Remnants	Q08/067	Q08 389 670
North Maungaturoto Forest Remnants	Q08/069	Q08 327 659
Piroa Road Forest Remnants 2	Q08/072	Q08 354 671
Collins Scenic Reserve and Surrounds	Q08/078	Q08 327 673
Smith's Point and Mateotetawa Creek Forest Remnants	Q08/079	Q08 171 616
Hukatere Scenic Reserve and Surrounds	Q08/081	Q08 150 563
Arapaoa River	Q08/084	Q08 226 576
Hukatere North Forest	Q08/087	Q08 150 568
Hautakima South Forest	Q08/088	Q08 144 570
Te Ruruku Bay Forest Remnants	Q08/089	Q08 133 562
Quarry Forest	Q08/090	Q08 160 556
Kirikiri Creek Forest and Wetlands	Q08/091	Q08 171 546
Waitieke Creek Forest	Q08/092	Q08 152 540
Te Kiakia Bay Forest Remnants	Q08/093	Q08 171 518
Raepere Creek Forest	Q08/094	Q08 198 526
Totara Creek Forest Remnant	Q08/095	Q08 181 541
Hukatere Peninsula West Coast	Q08/096	Q08 163 520
Raepere Creek Coastal Forest	Q08/098	Q08 204 548
Ararua Road Forest Remnants	Q08/099	Q08 168 644
Upper Paparua Creek Scenic Reserve and Sherwin QEII Covenant	Q08/100	Q08 217 653
Paparua Creek Marginal Strip No. 2 and Surrounds	Q08/102	Q08 206 638
Lower Pahi River Forest Remnants	Q08/103	Q08 228 641
Pahi Coastal Strip	Q08/105	Q08 205 612
North Whakapirau Forest Remnant	Q08/107	Q08 221 606
Paparua Creek Scenic Reserve and Surrounds	Q08/108	Q08 206 644
Paparua Stream Headwaters	Q08/110	Q08 256 662
Mooney QEII Covenant	Q08/111	Q08 235 637
Pukehuia Forest Remnants	Q08/115	Q08 269 602
Te Ope Stream Remnants	Q08/116	Q08 253 588
Whakapirau Airstrip Forest	Q08/117	Q08 239 594
Te Ope Headland Forest	Q08/119	Q08 246 576
Te Pahi River Road Forest Remnants	Q08/120	Q08 238 650
Paparua Stream Riparian Forest	Q08/121	Q08 267 671
Paparua Mature Kauri Stand	Q08/122	Q08 244 666
Hames Road Forest Remnants	Q08/124	Q08 268 654
Te Opu Scenic Reserve	Q08/126	Q08 263 573
Whakapirau Creek Coastal Forest	Q08/127	Q08 271 577
Whakapirau River Scenic Reserve and North Massey Road Forest Remnants	Q08/128	Q08 256 568
Massey Creek Forest	Q08/129	Q08 268 565
South Massey Road Forest Remnants	Q08/130	Q08 254 562
Arapaoa River Scenic Reserve and Surrounds	Q08/131	Q08 256 556
Te Kowhai Creek Scenic Reserve and Surrounds	Q08/132	Q08 264 554
Linton Road West Forest	Q08/134	Q08 265 547
Whakapirau/Rocky Point Forest and Shrubland	Q08/135	Q08 272 538
Barton's Hill Forest	Q08/137	Q08 285 640

SITE NAME	SURVEY NO.	GRID REF.
Upper Pahi River Riparian Forest	Q08/138	Q08 274 640
Page Point Forest and Shrubland	Q08/140	Q08 232 570
Te Tawhiti Forest Remnants	Q08/144	Q08 322 581
Raepare Creek Headland Forest	Q08/145	Q08 343 578
Wahiwaka Creek Forest Remnants	Q08/146	Q08 357 595
James Road Forest	Q08/147	Q08 347 597
Bickerstaffe Road Forest 2	Q08/148	Q08 323 600
Bickerstaffe Railbridge Forest Remnants	Q08/149	Q08 345 614
Upper Wairau River Coastal Forest Remnants	Q08/151	Q08 341 629
Bickerstaffe Rail Station Forest	Q08/152	Q08 322 623
Bickerstaffe Forest and Shrubland	Q08/153	Q08 316 614
Point Curtis Road Coastal Forest Remnants	Q08/156	Q08 365 610
Donaldson's Forest	Q08/157	Q08 380 606
Un-named Island in Kaiwaka River	Q08/158	Q08 377 608
Kaitara Constructed Lake	Q08/159	Q08 383 594
Rotokiekie Creek Forest Remnants	Q08/161	Q08 364 560
Takahoa Creek Forest	Q08/163	Q08 342 550
Takahoa Government Purpose Wildlife Management Reserve	Q08/164	Q08 349 545
Rangiora Road Forest Remnants	Q08/166	Q08 320 531
Mangaiti Creek Forest Remnants	Q08/167	Q08 329 530
Mohinui Forest Remnant 1	Q08/169	Q08 333 504
Pahi River Headwaters	Q08/170	Q08 315 666
Waipikopiko Stream Headwaters	Q08/171	Q08 316 679
Wairau River Riparian Forest Remnants	Q08/173	Q08 368 662
Kaiwhitu Island	Q08/175	Q08 174 506
Kohatutahi Forest and Wetland	Q08/178	Q08 108 597
Owhareao Point Remnants	Q08/179	Q08 186 510
Pukehau QEII Covenant	Q08/182	Q08 233 549
Puriri Point Forest and Shrubland	Q08/183	Q08 239 548
Pakaurangi Forest and Shrubland	Q08/185	Q08 260 520
Hamlin Road Shrubland	Q08/188	Q08 200 565
Mohinui Forest Remnant 3	Q08/190	Q08 350 505
Payne Road Forest Remnants	Q08/192	Q08 414 511
Otuhanga Coastal Forest Remnants	Q08/194	Q08 099 626
Kaitara Creek Forest Remnants	Q08/196	Q08 382 565
Nathan Road Forest and Shrubland	Q08/198	Q08 375 550
Huarau Ridge Forest Remnants	Q08/200	Q08 289 647
Hillstone Road Forest Remnants 3	Q08/208	Q08 310 577
Oruawharo Road Stream	Q08/209	Q08 423 527
Bayer Road Shrubland	Q08/211	Q08 392 526
Te Mira Road Wetland	Q08/212	Q08 212 524
Eastern Boundary Forest (Carter Holt Harvey)	Q08/214	Q08 238 520
Parry Road Wetland	Q08/215	Q08 232 511
Tinopai Road Wetland	Q08/216	Q08 204 511
Hanerau Stream Forest Remnants	Q08/218	Q08 330 559
Timber Bay Forest	Q09/001	Q09 272 480
Puketotara Forest Remnants 2	Q09/005	Q09 261 481
Puketotara Forest Remnants 3	Q09/006	Q09 272 458
Puketotara Forest Remnant 4	Q09/008	Q09 256 471
Moturoa Island	Q09/013	Q09 248 454
Motuouhi Island	Q09/014	Q09 249 450
Puketotara Forest Remnant 9	Q09/016	Q09 281 458
Puketotara Forest Remnant 10	Q09/017	Q09 288 477
Oruawharo River North Coast	Q09/020	Q09 338 453

SITE NAME	SURVEY NO.	GRID REF.
Otamatea River Confluence	Q09/021	Q09 243 479
Oneriri Station Homestead Forest	Q09/022	Q09 291 444
Puketotara Forest Remnant 13	Q09/024	Q09 304 440
Kaipara Forest, Puketotara	Q09/026	Q09 305 422
Oneriri Pa Forest	Q09/027	Q09 320 430
Upper Whakaki River Forest Remnants	Q09/028	Q09 328 466
Kaira Creek Forest	Q09/029	Q09 345 465
Ruataniwha Forest Remnant	Q09/030	Q09 305 438
Gittos Point Forest and Shrubland	Q09/032	Q09 352 455
Oruawharo School Forest	Q09/033	Q09 373 469
Koareare Creek Forest Remnants	Q09/036	Q09 399 487
Topuni River Forest Remnant 1	Q09/037	Q09 427 500
Topuni River Confluence Forest	Q09/038	Q09 420 481
Wainonororo Constructed Lake	Q09/039	Q09 319 489
The Funnel Pohutukawa Fringe	Q09/043	Q09 267 493
Mohinui Forest Remnant 4	Q09/044	Q09 350 500
Puketotara Forest Remnant 15	Q09/045	Q09 286 493
Bushy Point Forest Remnants	Q09/046	Q09 198 485
Kumete Bluff Forest Remnants	Q09/047	Q09 220 481
Otaiwhata Bay Forest and Shrubland	Q09/049	Q09 192 497

## LOWER PUKEAREINGA FOREST REMNANTS

Survey no.	Q08/061
Survey date	9 November 2005
Grid reference	Q08 355 629 (3 remnants)
Area	16.9 ha
Altitude	32–102 m asl

### *Ecological units*

- (a) Totara–kahikatea forest on moderate to steep hillslope (80%)
- (b) Totara–kanuka forest on moderate hillslope (15%)
- (c) Totara–rimu forest on ridge top (5%)

### *Landform/geology*

Hillsides and gullies underlain by Oligocene micritic limestone (Mahurangi Limestone, Motatau Complex) and melange (undifferentiated Mangakahia & Motatau Complex lithologies).

### *Vegetation*

Two remnant examples of mature secondary forest (types (a) and (c)) are connected by a younger secondary forest type (b). This area is not fenced and appears to be grazed underneath (it is surrounded by pasture currently grazed with sheep).

(a) Totara and kahikatea are co-dominant; the pointed secondary kahikatea crowns are often emergent above the totara. Matai is also occasionally emergent. Frequent components of the canopy are karaka, kowhai, puriri, kanuka, titoki and taraire, with a great diversity of other species present in lower numbers including kauri, nikau, tarata, kohekohe, pukatea, ti kouka, mahoe, rimu, karamu and mapou.