

APPENDIX 2: MAJOR RESOURCE INVESTIGATIONS AND INFORMATION DATABASES

1. MAJOR RESOURCE INVESTIGATIONS

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Chapman, V.J., 1978. Mangroves and saltmarshes of the Herekino, Whangape and Hokianga harbours. Department of Lands and Survey, Auckland.

Chapman, V.J., 1978. Mangroves and saltmarshes of the Whangaroa and Whangaruru harbours and the Bay of Islands. Department of Lands and Survey, Auckland.

Chapman, V.J., 1976. Mangroves and saltmarshes of the Kaipara Harbour. Department of Lands and Survey, Auckland.

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2. RESOURCE INFORMATION DATABASES

Department of Conservation

- Sites of Special Biological Interest (SSBI)
- Coastal Wetlands Inventory (CWI)
- Wetlands of Ecological and Representative Importance (WERI)

New Zealand Geological Society

- the New Zealand Geopreservation Inventory of the Joint Earth Sciences Societies

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New Zealand Archaeological Association

- New Zealand Archaeological Association Register

APPENDIX 3: OUTSTANDING GEOLOGICAL FEATURES AND LANDFORMS

The following geological features and landforms are those listed as being of international, national, or regional significance in the New Zealand Geopreservation Inventory of the Joint Earth Sciences Societies.

EAST COAST

- Bream Tail Arch Dome
- Waipu Cove sedimentary series
- Whangarei Harbour -
 - Onemama Point allochthonous sediments
 - Onerahi overturned syncline
 - Parua Bay allochthon contact
 - Reserve Point nephelenite flow, garnet andesite and sedimentary rock
 - McLeod Bay unconformity
 - Taurikura natural jetty
 - Port Whangarei fossil beds
 - One Tree Point dunes
- Bream Head stratovolcano
- Coppermine Island diorite intrusion, hornfels and mineralisation
- Poor Knights sea arches and caves
- Bay of Islands -
 - Piercy Island skarn and sea arch
 - Waikari Island old hat
 - Waitangi gabbroic inclusions
- Motukawanui pillow lava
- Marble Bay Permian fossils
- Whangaroa area -
 - Tauranga Bay channelised flow
 - Waitapu Bay unconformity
 - Whangaroa Harbour lacustrine sequence
 - Wairakau estuary
 - Whangaroa North Head ring plain deposits
 - Jellicoe Cave
 - Taupo Bay flow and ring plain deposits
- Camp Bay mylonite
- Camp Bay schist
- Karanui Point dacite dome
- Te Reinga Bay thrust
- Doubtless Bay -
 - Hihi Beach lignite beds
 - Coopers Beach coconut beds
 - Aurere Beach sediments, nappes and igneous sequence
 - Whatawhiwhi Cretaceous sediments
- Mangawhati Point-Skull Creek sedimentary sequence
- Tauranganui stream mouth melange
- Karikari hornfels
- Matai Bay beaches
- Whangatupere Bay plutons
- Mt Camel volcanoclastic sedimentary rocks
- Aupouri Peninsula -

Perforated Point overturned fold
Kokota spit
Paratoetoe Miocene sequence and fossils
Te Pokere fossils
Waikuku Miocene limestone outcrops
North Cape ultramafic/gabbro complex
Te Kuka Beach and Kurahaupo sedimentary rocks
Twilight Beach pillow lavas
Te Paki sand dunes

WEST COAST

Ahipara melange
Whangape pillow basalt
Whangape Harbour entrance gorge
Hokianga area -
 North Hokianga sand dunes
 Rawene limestones
 Opononi limestones
 Hokianga orbitolite bed
 Waiwhatawhata coast sediments and basalt flows
Manganui Bluff basalt
Baylys Beach dune sand exposures
Kaipara Harbour -
 Pouto sand dunes
 Tangowahine tidal bore
 Strawberry Bay pillow lava
 Coral Point mass flow deposits
 Pakaurangi Point fossils and sedimentary rocks
 Puriri Point sedimentary structures
 Te Kopua volcanoclastic sequence
 Pahi Peninsula greensand-limestone sequences
 Puketotara erionite bed
 Puketotara Miocene sequence

APPENDIX 4: COASTAL WATER QUALITY STANDARDS

The following standards apply to coastal waters classified under this Plan, and differ from those specified in the Third Schedule of the RMA

Standard	Standards for Coastal Waters		
	Natural Quality Standard CN	General Quality Standard CA	Contact Recreation Standard CB
Purpose	Protection of natural state	Provides for virtually all uses and protection of marine ecosystems	Provides for contact recreation in coastal waters
Natural temperature	Shall not be altered	Not changed by more than 3°C	n/a
Natural pH	"	Not changed by more than 0.2 units	n/a
Concentration of dissolved oxygen	"	Not reduced below 80% saturation	n/a
Natural visual clarity	"	Not reduced more than 20%	
Natural hue	"	Not changed more than 10 Maunsell units	
Natural euphotic depth	"	Water deeper than 0.5.z _{EU} not changed more than 10% Water shallower than 0.5.z _{EU} maximum reduction in light at sediment bed not more than 20%	n/a
Oil/grease film, scum, foam, odour	"	No conspicuous oil or grease film, scums or foams, floatable or suspended materials, or emissions of objectionable odour	
Toxic Metals	"		
Total Arsenic	"	50 mg/m ³	n/a
Total Cadmium	"	2 mg/m ³	n/a
Total Chromium	"	50 mg/m ³	n/a
Hexavalent Chromium	"	-	n/a
Total Copper	"	5 mg/m ³	n/a
Total Lead	"	5 mg/m ³	n/a
Total Zinc	"	50 mg/m ³	n/a
Faecal Coliforms	"	Based on not fewer than 10 samples within any 30 day period median < 14/100 ml 90%ile < 43/100 ml	Based on not fewer than 5 samples within any 30 day period median < 150/100 ml 80%ile < 600/100 ml
Nutrients (Default standards in the absence of specific site investigations)	"	DRP 1-10 mg/m ³ NO ₃ -N 10-60 mg/m ³ NH ₄ -N <5 mg/m ³	Nutrient levels are not relevant to waters managed for contact recreation.
Other toxicants and parameters	"	As per Table 2.1 of ANZECC Water Quality Guidelines 1992 as appropriate	As per Drinking Water Standards for New Zealand 1989

The following additional standard shall also apply to specific coastal waters classified for Cultural Purposes (as shown in Regional Coastal Plan Maps).

Waters Managed for Cultural Purposes:

Standard	Cultural Purposes CP
Consultation	Applicants for coastal permits to discharge into the waters classified as CP shall consult with all Hapu which hold Mana Moana for the waters within which any discharge is proposed and shall provide the consent authority with a report of the consultation undertaken and any response to the views of such Hapu. ⁵⁰

⁵⁰ For assistance in identifying appropriate Hapu for consultation, applicants for resource consents within the waters classified CP should contact the Northland Regional Council.

APPENDIX 5: INFORMATION REQUIREMENTS FOR COASTAL PERMIT APPLICATIONS

1 .Making an Application

Section 88 of the Resource Management Act states:

- (4) *Subject to subsection (5)], an application for a resource consent ... shall be in the prescribed form and shall include:*
- (a) *A description of the activity for which consent is sought, and its location; and*
 - (b) *An assessment of any actual or potential effects that the activity may have on the environment, and the ways in which any adverse effects may be mitigated; and*
 - (c) *Any information required to be included in the application by a plan or regulations; and*
 - (d) *A statement specifying all other resource consents that the applicant may require from any consent authority in respect of the activity to which the application relates, and whether or not the applicant has applied for such consents; and*
 - (e) *Where the application is for a subdivision consent, the information specified in section 221.*
- [(5) *The assessment required under subsection (4)9b) in an application for a resource consent relating to a controlled activity, or a discretionary activity over which the local authority has restricted the exercise of its discretion, shall only address those matters specified in a plan or proposed plan over which the local authority has retained control, or to which the local authority has restricted the right to exercise its discretion, as the case may be.]*
- (6) *Any assessment required under subsection (4)(b) or subsection (5):*
- (a) *Shall be in such detail as corresponds with the scale and significance of the actual or potential effects that the activity may have on the environment; and*
 - (b) *Shall be prepared in accordance with the Fourth Schedule.*
- (7) *Without limiting subsection (4) or section 92, an application for a resource consent for reclamation shall be accompanied by adequate information to accurately show the area proposed to be reclaimed, including its size and location, and the portion of that area (if any) to be set apart as an esplanade reserve under section 246(3).*

2. Matters that should be included in an assessment of effects on the environment

The Fourth Schedule of the Resource Management Act deals with the assessment of effects of activities on the environment. Subject to the provisions of any policy

statement or plan, an assessment of effects on the environment for the purposes of section 88(6)(b) should include:

- (a) *A description of the proposal.*
- (b) *Where it is likely that an activity will result in any significant adverse effect on the environment, a description of any possible alternative locations or methods for undertaking the activity.*
- (c) *Repealed by s225 of the Resource Management Act 1993.*
- (d) *An assessment of the actual or potential effect on the environment of the proposed activity.*
- (e) *Where the activity includes the use of hazardous substances and installations, an assessment of any risks to the environment which are likely to arise from such use.*
- (f) *Where the activity includes the discharge of any contaminant, a description of:*
 - (i) *The nature of the discharge and the sensitivity of the proposed receiving environment to adverse effects; and*
 - (ii) *Any possible alternative methods of discharge, including discharge into any other receiving environment.*
- (g) *A description of the mitigation measures (safeguards and contingency plans where relevant) to be undertaken to help prevent or reduce the actual or potential effect.*
- (h) *An identification of those persons interested in or affected by the proposal, the consultation undertaken, and any response to the views of those consulted.*
- (i) *Where the scale or significance of the activity's effect are such that monitoring is required, a description of how, once the proposal is approved, effects will be monitored and by whom.*

3. *Matters that should be considered when preparing an assessment of effects on the environment*

Subject to the provisions of any policy statement or plan, any person preparing an assessment of the effects on the environment should consider the following matters:

- (a) *Any effect on those in the neighbourhood and, where relevant, the wider community including any socio-economic and cultural effects.*
- (b) *Any physical effect on the locality, including any landscape and visual effects.*
- (c) *Any effect on ecosystems, including effects on plants or animals and any physical disturbance of habitats in the vicinity.*

- (d) *Any effect on natural and physical resources having aesthetic, recreational, scientific, historical, spiritual, or cultural, or other special value for present or future generations.*
- (e) *Any discharge of contaminants into the environment, including any unreasonable emission of noise and options for the treatment and disposal of contaminants.*
- (f) *Any risk to the neighbourhood, the wider community, or the environment through natural hazards or the use of hazardous substances or hazardous installations.*

APPENDIX 6: MARINE MANAGEMENT AREA BOUNDARIES**MARINE 1 (PROTECTION) MANAGEMENT AREAS**

NAME	AREA	VALUES
Twilight Beach to Ohao Point	The Coastal Marine Area extending from Twilight Beach to Ohao Point as indicated in the Coastal Plan Maps, Map Sheets A15, B1 and B2.	Protected areas, marine mammals, birds, ecosystems, habitats and geological values. Sub-tidal habitats support unique marine ecosystems and species. Inter-tidal areas provide significant habitat for wading birds, including threatened species.
Parengarenga Harbour	The entire Coastal Marine Area identified within Parengarenga Harbour to the harbour entrance, excluding the specific MM3 Areas as indicated in the Coastal Plan Maps, Map Sheets B2 and B3.	Protected areas, coastal wetlands, marine mammals, birds, ecosystems, habitats and geological values. Inter-tidal habitats and coastal wetlands of international importance for migratory birds, including threatened species.
Houhora Harbour	The entire Coastal Marine Area identified within Houhora Harbour to the harbour entrance, excluding the specific MM3, 4, & 6 Areas as indicated in the Coastal Plan Maps, Map Sheet B5.	Protected areas, coastal wetlands, marine mammals, birds, ecosystems and habitat values. Coastal wetlands of international importance for migratory birds, including threatened species.
Rangaunu Harbour	The entire Coastal Marine Area identified within Rangaunu Harbour to the harbour entrance, excluding the specific MM3, 4, and 6 Areas as indicated in the Coastal Plan Maps, Map Sheets B6 and B7.	Protected areas, coastal wetlands, marine mammals, birds, ecosystems and habitat values. Coastal wetlands of international importance for migratory birds, including threatened species.
Karikari Peninsula and Moturoa Islands	The Coastal Marine Area surrounding Karikari Peninsula and Moturoa Islands, as indicated in the Coastal Plan Maps, Map Sheets B8 and B9.	Protected areas, ecosystems and habitat values. Varied sub-tidal habitats with unusual ecology including high diversity of subtropical marine species. One of the highest diversities of coastal fish species recorded in New Zealand.
Black Rocks	The extent of Coastal Marine Area identified as the Black Rocks and enclosed by the co-ordinates included in Appendix 10, and as indicated in the Coastal Plan Maps, Map Sheet B16.	Unique sub-tidal reef habitats and geological values.
Te Wahapu Inlet	The extent of Coastal Marine Area identified as Te Wahapu Inlet enclosed by the co-ordinates included in Appendix 10, and as indicated in the Coastal Plan Maps, Map Sheet B17.	Protected areas and coastal wetlands of significant indigenous vegetation.
Haumi River	The northern arm of Haumi River enclosed by the co-ordinates included in Appendix 10, and as indicated in the Coastal Plan Maps, Map Sheet B17.	Protected areas, and coastal wetlands of significant indigenous vegetation.

Waikino Creek	The entire Coastal Marine Area within Waikino Creek enclosed by the co-ordinates included in Appendix 10, and as indicated in the Coastal Plan Maps, Map Sheet B17.	Protected areas and coastal wetlands of significant indigenous vegetation. Estuary contains extensive contiguous areas of mangrove, saltmarsh, freshwater wetlands, and native forest and shrubland.
Uruti Bay	The entire Coastal Marine Area within Uruti Bay enclosed by the co-ordinates included in Appendix 10, and as indicated in the Coastal Plan Maps, Map Sheet B17.	Coastal wetlands of significant indigenous vegetation.
Outer Islands of the Bay of Islands	The extent of Coastal Marine Area identified as the Outer Islands of the Bay of Islands and enclosed by the co-ordinates included in Appendix 10, and as indicated in the Coastal Plan Maps, Map Sheet B18.	Protected areas, ecosystems, habitats and scenic values. High diversity of habitat types, including coastal wetlands.
Cape Brett Peninsula	The Coastal Marine Area surrounding Cape Brett Peninsula as indicated in the Coastal Plan Maps, Map Sheets A1 and B18.	Protected areas, ecosystems, habitat and geological values. Varied habitats with unusual sub-tidal marine ecology, including high species richness and subtropical species. One of the highest diversities of coastal fish species recorded in New Zealand. Piercy Island has geological values of international significance.
Whangaruru Harbour	The Coastal Marine Area within the upper Whangaruru Harbour, excluding the specific MM4 Area as indicated in the Coastal Plan Maps, Map Sheet B19.	Protected areas, marine mammals, birds, ecosystems and habitat values. Coastal wetlands provide significant habitat for wetland birds, including threatened species.
Mimiwhangata	Boundaries coincide with the Mimiwhangata Marine Park as indicated in the Coastal Plan Maps, Map Sheet B20.	Protected areas, ecosystems and habitat values. Inter-tidal areas provide significant habitat for threatened bird species.
Whananaki	The entire Coastal Marine Area within Whananaki Inlet and extending out past the estuary entrance as indicated in the Coastal Plan Maps, Map Sheet C10.	Protected areas, marine mammals, birds, ecosystem and habitat values. Inter-tidal habitats and coastal wetlands provide significant habitat for wading and wetland birds, including threatened species.
Ngunguru	The entire Coastal Marine Area within Ngunguru River and extending out past the estuary entrance, excluding the specific MM4 Area as indicated in the Coastal Plan Maps, Map Sheet B21.	Protected areas, marine mammals, birds, ecosystems and habitat values. Inter-tidal areas and coastal wetlands provide habitat for wading and wetland birds, including threatened species.
Horahora Estuary	The entire Coastal Marine Area within Horahora River and extending out past the estuary entrance as indicated in the Coastal Plan Maps, Map Sheet B22.	Protected areas, coastal wetlands, marine mammals and birds. Inter-tidal areas and coastal wetlands provide significant habitat for wading and endemic birds, including threatened species. Estuary contains extensive contiguous areas of mangrove, saltmarsh, freshwater wetlands, and

		native forest and shrubland.
Poor Knights Islands	Boundaries coincide with the Poor Knights Islands Marine Reserve as indicated in the Coastal Plan Maps, Map Sheet A2.	Protected areas, marine mammals, birds, ecosystems, habitats and geological values. Poor Knights Islands Marine Reserve marine habitats are nationally significant. Features include: High species diversity including subtropical species; and the highest diversity of coastal fish species recorded in New Zealand. Important feeding area for many sea bird species breeding on the islands, including NZ endemics.
Hen & Chicken Islands	The Coastal Marine Area surrounding the Hen & Chicken Islands Nature Reserve as indicated in the Coastal Plan Maps, Map Sheet A4.	Protected areas, marine mammals, birds, ecosystems, habitats and geological values. Rich sub-tidal communities, not dissimilar to Poor Knights Islands. Important feeding area for many sea birds breeding on the islands, including NZ endemics.
Ruakaka River	The entire Coastal Marine Area identified within Ruakaka River including an area extending outside the river entrance as indicated in the Coastal Plan Maps, Map Sheet B25.	Protected areas, coastal wetlands, marine mammals, birds, ecosystems and habitats. Inter-tidal areas and coastal wetlands provide significant habitat for wading and wetland birds, including migratory and threatened NZ species.
Waipu River	The entire Coastal Marine Area identified within the Waipu River including an area extending outside the river entrance as indicated in the Coastal Plan Maps, Map Sheet A4.	Protected areas, coastal wetlands, marine mammals, birds, ecosystems and habitat values. Inter-tidal and estuarine areas provide significant habitat for international migratory and NZ endemic birds, including some threatened species and an endangered sub-species.
Mangawhai Estuary	The entire Coastal Marine Area identified within Mangawhai Harbour including an area extending outside the harbour entrance, excluding the specific MM4 Area as indicated in the Coastal Plan Maps, Map Sheet B26.	Protected areas, coastal wetlands, marine mammals, birds, ecosystems and habitat values. Inter-tidal areas, shellbanks and estuary provide important significant habitat for international migratory and NZ endemic wading and wetland birds, including some threatened species and an endangered sub-species.
Outer Kaipara Harbour	The entire Coastal Marine Area of the Wairoa River, including the entrance of the Otamatea arm and the entrance of that part of the Oruawharo River within the Northland region, four coastal permitted marine farms (granted post 21 st December 1994) are located within this area as indicated in the Coastal Plan Maps, Map Sheets A5, A6 and B30.	Protected areas, coastal wetlands, marine mammals, birds, ecosystems, habitats and geological values. Inter-tidal areas and coastal wetlands provide internationally significant habitat for international migratory and NZ endemic wading and wetland birds, including threatened species.
Kawerua Coast	The Coastal Marine Area off the Kawerua Coast as indicated in the Coastal Plan Maps, Map Sheet A9.	Protected areas, coastal wetlands, marine mammals, birds and ecosystems. Inter-tidal areas provide significant habitat for NZ endemic wading birds including threatened species. Contains the greatest diversity

		of inter-tidal and shallow sub-tidal rocky reef habitats in western Northland.
Whangarei Harbour - Waikaraka	Boundaries coincide with the Waikaraka Marine Reserve, as indicated in the Regional Coastal Plan Maps, map sheets A3, B23, B24, C15, C16.	Protected areas, includes coastal wetland sequences. Contains wading bird and habitat for international migratory and NZ endemic wading and wetland birds, including threatened species.
Whangarei Harbour - Takahiwai	The Coastal Marine Area off Takahiwai, from Hewlett Point encompassing Rat Island and abutting the existing One Tree Point Marine 4 Management Area Boundary. The coordinates for this area are contained in Appendix 10. The area is indicated in the Regional Coastal Plan Maps, Map sheets A3, B23, B24, C13, C14, C15.	Protected areas, Coastal wetlands of significant indigenous vegetation, birds, ecosystems, habitats and geological values. Inter-tidal areas and coastal wetlands provide internationally significant habitat for international migratory and NZ endemic wading and wetland birds, including threatened species.
Whangarei Harbour – Reotahi	Boundaries coincide with the Motukaroro Island Marine Reserve, as indicated in the Regional Coastal Plan Maps, map sheets A3, B25, C13.	Protected areas, birds, ecosystems, habitat values. Marine reserve habitat features include: High species diversity including subtropical species.
Whangarei Harbour – Busby Head	The Coastal Marine Area around Busby Head encompassed by the coordinates contained in Appendix 10, and indicated in the Regional Coastal Plan Maps, map sheets A3, B25, C13.	Protected areas, ecosystems, habitats. Rocky shore internationally significant habitat for NZ endemic wading and coastal birds, including threatened species.
Whangarei Harbour – Outer Harbour sandbanks	The Coastal Marine Area around Snake Bank, Mair Bank, Callope Bank and McDonald Bank, encompassed by the coordinates contained in Appendix 10, and indicated in the Regional Coastal Plan Maps, map sheets A3, B22 B23, B24, B25, C13, C14.	Protected areas, ecosystems, birds, habitats, coastal landforms. Inter-tidal areas provide internationally significant habitat for international migratory and NZ endemic wading and wetland birds, including threatened species.
Whangarei Harbour – Southern Nook peninsula	The Coastal Marine Area on the southern Nook Peninsula encompassed by the coordinates in Appendix 10, and indicated in the Regional Coastal Plan Maps, map sheets A3, B23, B24, C14.	Protected areas, ecosystems, birds, habitats, geological values. Inter-tidal areas provide internationally significant habitat for NZ endemic wading and coastal birds, including threatened species.
Whangarei Harbour – Blacksmith’s Creek	The Coastal Marine Area around Blacksmith’s Creek, encompassed by the coordinates contained in Appendix 10, and indicated in the Regional Coastal Plan Maps, map sheets A3, B24, B25, C13.	Protected areas, ecosystems, birds, habitats, Maori cultural values as a sacred waka landing site. Contains a roosting habitat for international migratory and NZ endemic wading and wetland birds, including threatened species.

Appendix 6: Marine Management Area Boundaries

Whangarei Harbour – One Tree Point	The Coastal Marine Area east of One Tree Point, encompassed by the coordinates in Appendix 10 and indicated in the regional Coastal Plan Maps, map sheets A3, B24, B25, C13.	Protected areas. Inter-tidal areas provide internationally significant habitat for international migratory and NZ endemic wading birds, including threatened species. Important shellfish gathering area. Seagrass habitat.
Whangarei Harbour – Tokitoki Creek	The Coastal Marine Area of the Tokitoki Creek, encompassed by the coordinates in Appendix 10 and indicated in the regional Coastal Plan Maps, map sheets A3, B24, C15.	Adjacent protected areas (two DOC administered marginal strips). Inter-tidal areas and coastal wetlands provide internationally significant habitat for international migratory and NZ endemic wading and wetland birds, including threatened species.
Whangarei Harbour – Onerahi north	The Coastal Marine Area of mangroves and saltmarsh between the Awaroa Creek and Waimahanga Stream, encompassed by the coordinates in Appendix 10, (excluding all legal road parcels) and indicated in the regional Coastal Plan Maps, map sheets A3, B23 C16.	Protected areas, Mangrove, saltmarsh areas and tidal flats provide habitat and feeding areas for NZ endemic wading and wetland birds, including threatened species.
Whangarei Harbour – Waimahanga Track	The Coastal Marine Area of mangroves and saltmarsh either side of the Waimahanga track, encompassed by the coordinates in Appendix 10 and indicated in the regional Coastal Plan Maps, map sheets A3, B23 C16.	Protected areas, Mangrove, saltmarsh areas and tidal flats provide habitat and feeding areas for NZ endemic wading and wetland birds, including threatened species.
Whangarei Harbour – Otaika Creek	The Coastal Marine Area south of the Whangarei Port area in and around the Otaika Creek encompassed by the coordinates in Appendix 10, but does not include the railway exclusion area which is the greater of 20 meters either side from the centre of the railway line or the legal boundary of the railway line, and indicated in the regional Coastal Plan Maps, map sheets A3, B23 C15, C 16.	Protected areas. One of the least modified examples of estuarine vegetation in the upper Whangarei Harbour. Area supports significant biodiversity including vegetation communities and waders. The inter-tidal flats are one of the major feeding areas for waders in the Whagarei harbour. Port Whangarei is one of the five main roosting locations. Mangrove and saltmarsh are habitat for NZ endemic wading and wetland birds, including threatened species

APPENDIX 7: MARINE POLLUTION REGULATION BOUNDARY EXTENSIONS

This appendix provides the grid references for the outer boundaries of areas where the seaward limit for the discharge of sewage from ships and off-shore installations will be extended, under the Resource Management (Marine Pollution) Regulations 1998.

NAME	MM AREA	DISTANCE	• OUTER BOUNDARY	
			Grid Reference	Grid Reference
Bland Bay	MM2	1000 metres	E 2635360, N 6650962	E 2635305, N 6649252
Hokianga Harbour	MM2	1500 metres	E 2543083, N 6630904	E 2543716, N 6628977
Kaipara Harbour	MM1	1200 metres	E 2616279, N 6538306	E 2628541, N 6542245
Manawaora Bay	MM2	1000 metres	E 2619485, N 6659709	E 2618713, N 6658824
Parengarenga Harbour	MM1	1300 metres	E 2510000, N 6741500	E 2510000, N 6742400
Poroporo Island	MM2	1000 metres	E 2622167, N 6662916	E 2621844, N 6662879
Rangaunu Harbour	MM1	4500 metres	E 2536515, N 6700387	E 2538286, N 6700921
Urupukapuka Island	MM2	1000 metres	E 2621577, N 6664493	E 2622517, N 6663350
Whangarei Harbour	MM2	2400 metres	E 2646382, N 6595496	E 2646039, N 6594807
Whangaroa Harbour	MM2	1000 metres	E 2579977, N 6687933	E 2580124, N 6687668
Whangaruru	MM2	1000 metres	E 2633098, N 6645842	E 2634124, N 6646571
Bay of Islands	MM2	2300 meters	E 2612975, N 6669258	E 2612695, N 6661335

APPENDIX 8: CO-ORDINATES FOR NEW MARINE 6 MANAGEMENT AREAS

Location	Grid-Reference	
	Easting	Northing
Pukenui Wharf	2521800	6709781
	2521826	6709795
	2521904	6709745
	2521966	6709638
	2521872	6709589
Unahi Wharf	2534054	6688625
	2534055	6688695
	2534140	6688684
	2534162	6688672
	2534161	6688620
Mangonui Wharf	2559696	6690097
	2559696	6690139
	2559729	6690214
	2559874	6690165
	2559850	6690084
Totara North Wharf	2577435	6684200
	2577539	6684197
	2577540	6684072
	2577333	6684073
	2577332	6684127
Clansmen Wharf	2578815	6683624
	2578730	6683748
	2578806	6683793
	2578867	6683725
	2578860	6683667
Marlin Wharf	2578724	6683254
	2578659	6683252
	2578662	6683193
	2578706	6683193
Waitangi Wharf	2609208	6658162
	2609157	6658102
	2609199	6658070
	2609265	6658144
Paihia Wharf	2610084	6657173
	2610187	6657293
	2610270	6657224
	2610592	6657566
	2610612	6657519
	2610310	6657191
	2610361	6657148
	2610258	6657037
Russell Wharf	2612816	6659259
	2612649	6659240
	2612667	6659124
	2612842	6659144
Opuia Wharf	2612720	6653625
	2612721	6653636
	2612584	6653768
	2612638	6653811
	2612838	6653608
	2612807	6653546
	2612793	6653553
Opononi	2546179	6632937

Appendix 8 – Co-ordinates For New Marine 6 Management Areas

	2546174	6632985
	2546230	6633017
	2546305	6633020
	2546310	6632994
Omapere	2545742	6629618
	2545639	6629676
	2545666	6629717
	2545773	6629658

APPENDIX 9: CRITERIA USED TO DETERMINE AREAS OF IMPORTANT CONSERVATION VALUE

Part I – Criteria used to determine those areas of important conservation value identified in the Plan as Marine 1 Management Areas

The Council has used the following criteria to determine those areas of important conservation value identified in the Plan as Marine 1 Management Areas. The criteria are based on the criteria contained in Schedule 2 of the Draft New Zealand Coastal Policy Statement. In addition to these criteria, a new criteria has been inserted (1. Tangata Whenua Customary Rights) to ensure that Customary Rights found to exist in an area being considered for change of status to Marine 1 (Protection) Management Area are not abrogated, or diminished, if the area is made a Marine 1 (Protection) Management Area.

1. Tangata Whenua Customary Rights

Where any court or tribunal given competent jurisdiction by Government, or subsequent Appellate Courts, has determined the existence and nature of Customary Rights, the potential adverse effects on the exercise of those customary rights should be established prior to the area identified being proposed as a Marine 1 (Protection) Management Area in the Regional Coastal Plan.

2. Maori cultural values

Areas of significance identified by the tangata whenua in accordance with tikanga Maori, including waahi tapu, urupa, tauranga waka and mahinga maataitai.

3. Protected areas

Where there are protected areas below Mean High Water Springs:
Any gazetted marine reserve, marine mammal sanctuary, marine park or other marine protected area, including adequate buffer areas. A notified marine reserve, marine mammal sanctuary, marine park or other marine protected area may be considered, including adequate buffer areas.

Where there are protected areas above Mean High Water Springs:
Where there are formally protected areas above mean high water springs, consideration may be given to including the adjoining area below mean high water springs to protect the values for which the area is protected.

4. Wetlands, Estuaries and Coastal Lagoons

Any wetland, estuary, or coastal lagoon in the coastal marine area which is of national or international importance, including those:

- (a) necessary to act as buffer zones;
- (b) that are important spawning grounds or nurseries for marine and freshwater species;
- (c) where related catchments, marginal land and tidal flats have been minimally modified;

- (d) strategically situated to act as stepping stones for migratory species along coastal tracts.

5. Marine Mammals and Birds

Areas including or near any:

- (a) marine mammal breeding or haul-out site;
- (b) habitats of endangered, vulnerable, rare or threatened bird species;
- (c) important roost sites, or feeding areas of wading birds.

6. Ecosystems, flora and fauna habitats

An area that contains a significant or threatened ecosystem or plant or animal species.

7. Outstanding Natural Landscapes and Features

A part of the coastal marine area that forms part of an outstanding natural landscape or seascape, or contains an outstanding natural feature.

8. Historic Places

Historic places of national or outstanding significance (including archaeological sites adjoining mean high water springs), including places where the values relate to the coastal marine area as well as to the land.

9. Coastal landforms and associated processes

Representative examples of nationally significant or outstanding coastal landforms and their associated sediment transport systems and sources including:

- (a) Submerged landforms (e.g. fiords, drowned river valleys, banks, reefs, moraines and drowned shorelines);
- (b) Erosional landforms including those that have been carved out of the land by the sea (e.g. shore platforms and submarine canyons);
- (c) Geologically rare or unusual features of very high quality.

APPENDIX 10: MARINE 1 MANAGEMENT AREA BOUNDARIES**CO-ORDINATES FOR NEW MARINE 1 MANAGEMENT AREAS**

Location	Grid-Reference	
	Easting	Northing
Waikino Creek	2615232	6651496
	2615263	6651880
Te Wahapu Inlet	2612170	6656107
	2612618	6656362
Te Haumi River	2610296	6655370
	2610695	6655315
Uruti Bay	2614379	6657557
	2614440	6657531
Bay of Islands	2615543	6663021
	2615769	6661721
	2616908	6661489
	2617973	6661428
	2622581	6661993
	2624000	6662381
	2624857	6664630
	2623403	6666039
Black Rocks	2620035	6667694
	2608859	6665461
	2608714	6666184
	2612132	6666510
	2612646	6665174
	2312304	6664435
Whangarei Harbour – Takahiwai	2611501	6664762
	2641678	6596678
	2641210	6597113
	2638385	6598890
	2636761	6600279
	2636170	6601006
	2635975	6601436
	2635250	6601461
	2634941	6601184
	2634470	6600901
Whangarei Harbour – Busby Head	2633150	6600134
	2633543	6598456
	2648703	6593513
	2648467	6593592
	2648236	6593262
	2648571	6592417
	2648561	6592175
	2648658	6591868
Whangarei Harbour – Southern Nook Peninsula	2648962	6591929
	2648963	6592028
	2642601	6599532
	2642595	6599204
	2643688	6599223
	2644617	6599393
	2644557	6599731

Location	Grid-Reference			
Whangarei Harbour – Mair Bank	2646258 2646945 2647322 2647322 2647132 2646820 2646417 2645806		6594454 6594430 6594096 6594022 6593900 6593962 6593756 6593788	
Whangarei Harbour – Calliope Bank	2647445 2648841 2648608 2648189 2647667 2646986		6595560 6594617 6594085 6594487 6595103 6595536	
Whangarei Harbour – McDonald Bank	2645347 2644965 2645303 2645767 2645868 2645944 2645755 2645705 2645661		6599342 6599044 6598318 6597432 6597388 6597847 6598463 6599035 6599211	
Whangarei Harbour – Snake Bank	2643253 2643344 2643619 2643801 2643907 2644058 2644209 2643790 2643472 2643166 2642890 2642931 2643176		6598647 6598667 6598526 6598180 6597614 6596848 6596509 6596670 6597158 6597721 6598167 6598271 6598384	
Whangarei Harbour – Blacksmith's Creek	2644029 2643990 2643927 2643889 2643835 2643810 2643826 2643843		6595092 6595115 6595139 6595142 6595109 6595074 6595024 6594989	
Whangarei Harbour – One Tree Point [#]	NZTM	NZMG	NZTM	NZMG

Location	Grid-Reference			
	1731900	2642588	6034546	6596323
	1731788	2642476	6034797	6596574
	1731670	2642359	6034976	6596754
	1731599	2642288	6035088	6596866
	1731459	2642148	6035236	6597014
	1731585	2642274	6035329	6597107
	1731639	2642328	6035324	6597102
	1731699	2642388	6035313	6597091
	1731767	2642456	6035295	6597073
	1731902	2642591	6035250	6597027
	1731994	2642683	6035213	6596990
	1732082	2642771	6035172	6596949
	1732159	2642848	6035120	6596897
	1732239	2642928	6035059	6596835
	1732315	2643004	6034994	6596770
	1732383	2643072	6034908	6596684
	1731943	2642631	6034758	6596535
	1732028	2642716	6034597	6596374
Whangarei Harbour – Tokitoki Creek [#]	NZTM	NZMG	NZTM	NZMG
	1719662	2630350	6036064	6597872
	1719977	2630665	6036057	6597864
	1720009	2630697	6036159	6597966
	1720100	2630788	6036199	6598006
	1720169	2630857	6036210	6598017
	1720224	2630912	6036161	6597967
	1720277	2630965	6036114	6597920
	1720362	2631050	6036055	6597861
	1720451	2631139	6036025	6597831
	1720567	2631255	6036049	6597855
	1720851	2631537	6035374	6597179
Whangarei Harbour – Onerahi North [#]	NZTM	NZMG	NZTM	NZMG
	1722592	2633301	6044303	6606106
	1722534	2633243	6044235	6606038
	1722462	2633171	6044210	6606013
	1722396	2633105	6044205	6606009
	1722338	2633047	6044214	6606018
	1722246	2632955	6044269	6606073
	1722209	2632917	6044183	6605987
	1722191	2632899	6044077	6605881
	1722186	2632893	6043779	6605583
	1722203	2632910	6043573	6605377
	1722192	2632899	6043522	6605326
	1722204	2632911	6043399	6605203
	1722331	2633037	6043123	6604926
Whangarei Harbour – Waimahanga Track [#]	NZTM	NZMG	NZTM	NZMG
	1722353	2633058	6042788	6604591
	1722305	2633010	6042796	6604599
	1722729	2633431	6041548	6603350
Whangarei Harbour – Otaika Creek ^{#*}	NZTM	NZMG	NZTM	NZMG

Location	Grid-Reference			
	1720664	2631368	6042406	6604213
	1721692	2632393	6041369	6603173
	1722126	2632827	6041369	6603172
	1722153	2632853	6040828	6602631
	1722200	2632900	6040737	6602540
	1722186	2632886	6040577	6602380
	1722288	2632987	6040436	6602239
	1722297	2632996	6040281	6602084
	1722020	2632718	6040157	6601960
	1721960	2632658	6040069	6601872
	1722056	2632754	6039880	6601683
	1722131	2632828	6039736	6601539
	1722126	2632823	6039628	6601431
	1721728	2632423	6038699	6600503
	1721152	2631846	6038518	6600323

**Note: These coordinates are provided in two projections; the official New Zealand projection - New Zealand Transverse Mercator 2000 (NZTM2000) and its predecessor, New Zealand Map Grid (NZMG). The coordinates were digitised from ortho-imagery within the Northland Regional Council's Geographic Information System and the level of accuracy is +/- 5 m at a scale of 1:50,000.*

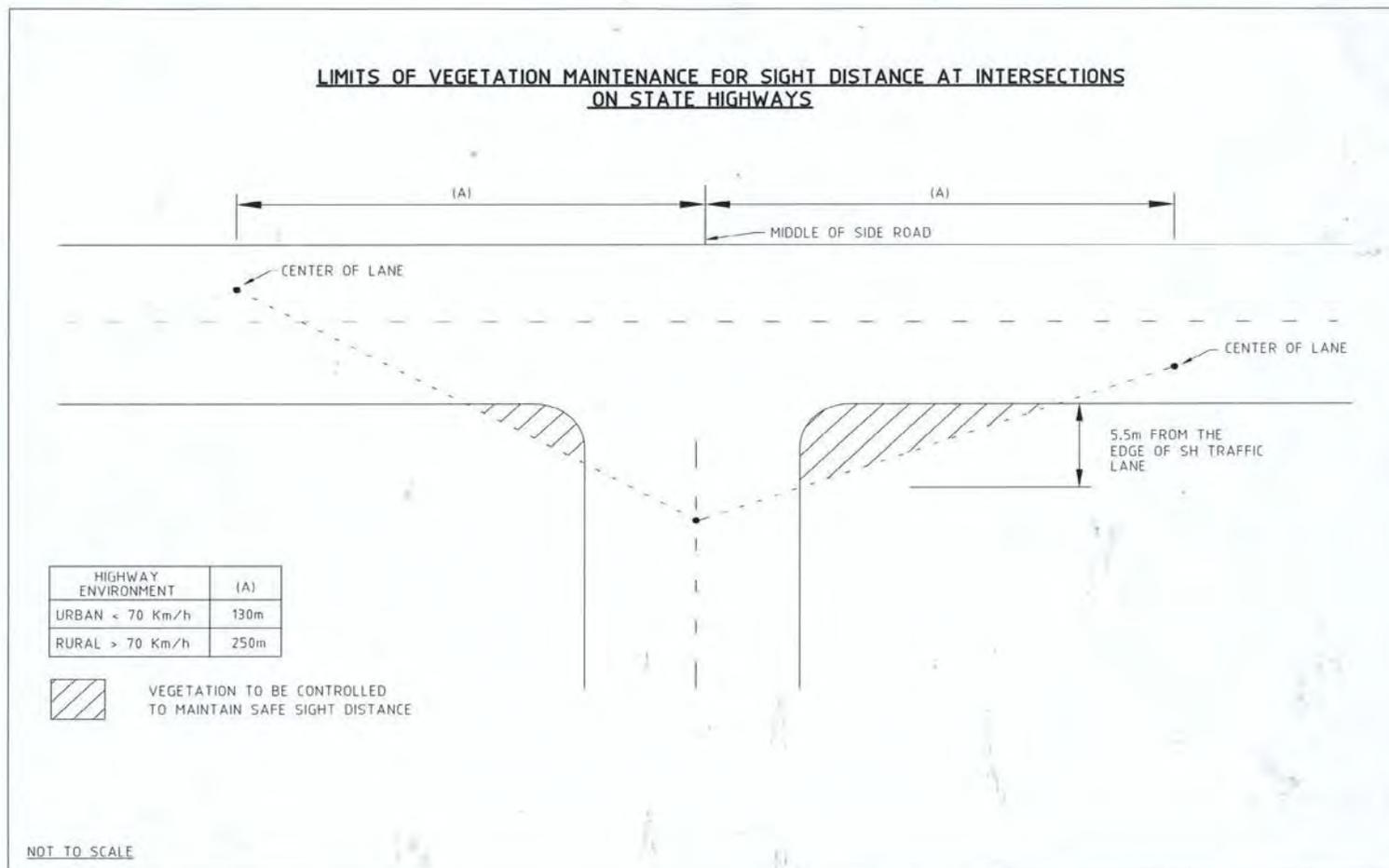
The coordinates represent either the seaward boundary of the particular area (with mean high water springs as the landward boundary), or the complete area. The exceptions are;

- a) the Onerahi North area which has the road parcel or mean high water springs (whichever is the most seaward), as the landward boundary, and*
- b) the One Tree Point area where the landward boundary is 50 metres seaward of mean high water springs.*

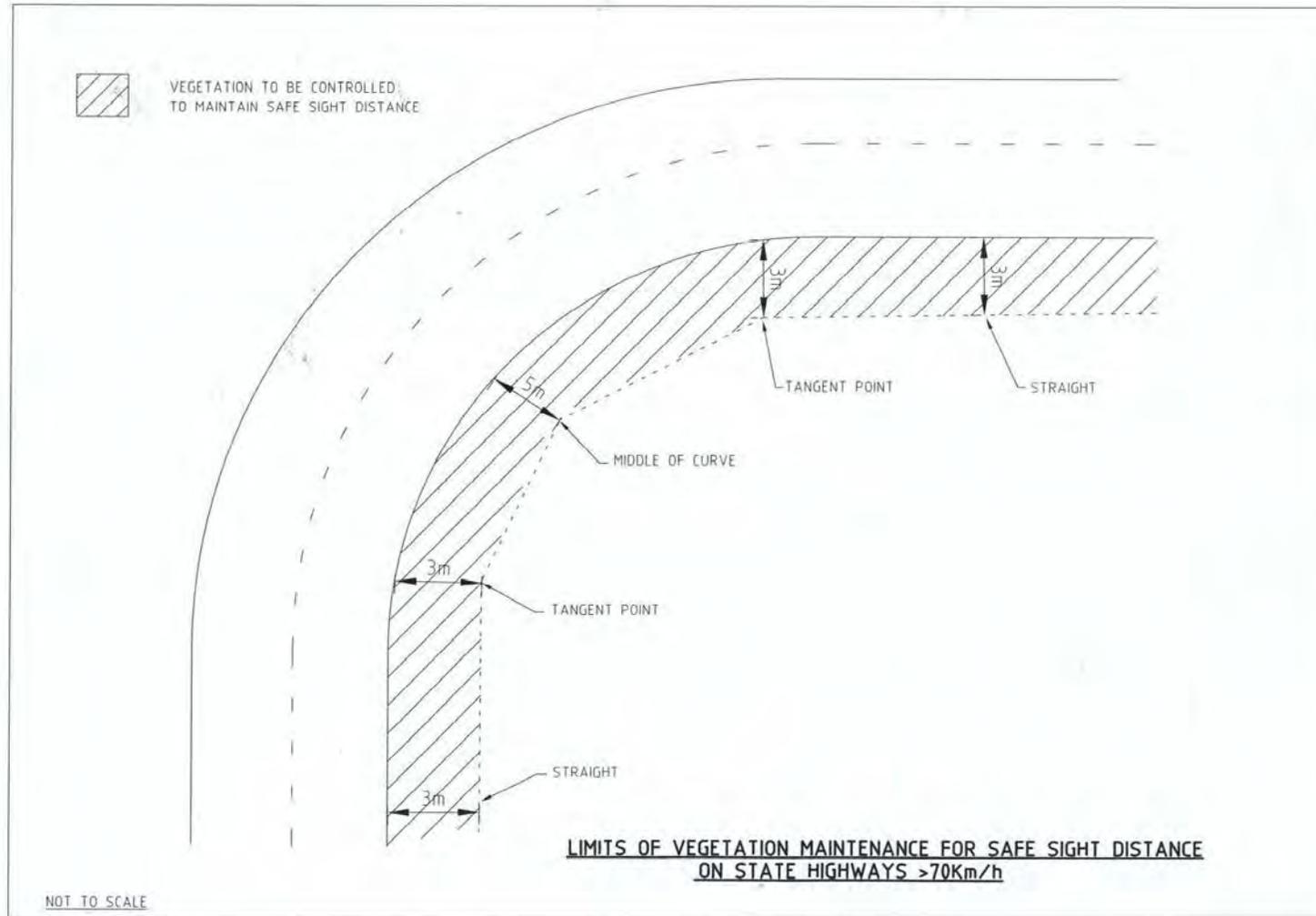
**Does not include the railway exclusion area which is the greater of 20 metres either side from the centre of the railway line or the legal boundary of the railway line.*

APPENDIX 11: LIMITS OF VEGETATION MAINTENANCE ON STATE HIGHWAYS

11.1 INTERSECTIONS



11.2 SAFE SIGHT DISTANCE



APPENDIX 12: AQUACULTURE PROHIBITED AREAS MAPS

These maps show the areas where aquaculture activities are generally prohibited (note there are exceptions – refer to rules). The areas are:

- a) Areas of the coastal marine area where a Marine Reserve has been established or publicly notified under the Marine Reserves Act 1971;
- b) Marine 1 (Protection) Management Areas
- c) Locations within Marine 2 (Conservation) Management Areas where new aquaculture activities would have actual or potential conflicts with;
 - i) Areas of significant urban development; or
 - ii) Significant tourism and/or recreation areas; or
 - iii) Outstanding natural character and/or outstanding natural landscapes; or
 - iv) Significant vessel routes (commercial and recreational), significant anchorages of refuge, and/or port or harbour approaches; or
 - v) Existing aquaculture (either because there is no/limited space or the area is at its production or ecological carrying capacity)
- d) Marine 4 (Mooring) Management Areas
- e) Marine 5 (Port Facilities) Management Areas
- f) Marine 6 (Wharves) Management Areas
- g) Places, sites and areas identified in Rarangi Taonga: the Register of Historic Places, Historic Areas, Waahi Tapu and Waahi Tapu Areas (Historic Places Trust, Historic Places Act 1993).

The maps differentiate between MM2 aquaculture prohibited areas and all other aquaculture prohibited areas because there are different rules that apply.

