

<b>Local Authority:</b>	Whangarei District Council
<b>Strategy Name:</b>	Monitoring Strategy Manual
<b>Strategy Date:</b>	2001
<b>General Approach:</b>	Comprehensive, integrated environmental monitoring framework; implementation of strategy to be on a step by step basis - initial focus upon monitoring resource consents and complaints; district plan/state of the environment report intended every 5 years; operational guide for monitoring staff; link to s32.
<b>Information on:</b>	Systems, processes and indicators for monitoring resource consents, complaints, the district plan and, the state of the environment; issues and information needs; indicators; data collection and management; reporting and review procedures; flowcharts, checklists and templates: land use and subdivision consent monitoring (compliance, suitability of conditions, impact of activity on the environment); complaints monitoring (flowchart & register); district plan monitoring (AERs, information required to monitor AERs). For each indicator responsibility for information collection and frequency of reporting is specified.
<b>Indicator Topics:</b>	<b>Resource Consents Monitoring:</b> Resource Consents; Subdivision Consents; Building Consents. <b>Complaints Monitoring. District Plan Monitoring:</b> Subdivision and Development; Financial Contributions; Road Transport; Network Utility Services; Whangarei Airport; Marsden Point Port; Amenity Values; Heritage Buildings, Sites and Objects; Heritage Trees; The Coast; Riparian & Coastal Margins; Water Bodies; Open Space; Landscape; Indigenous Vegetation and Habitat; Minerals; Natural Hazards; Contaminated Sites; Hazardous Substances; Tangata Whenua; Local Authority Cross Boundary Issues. <b>State of the Environment Monitoring:</b> The Human and Built Environment: People and Communities; Tangata Whenua; Socio-Economic Background; Land Use Activities (rural & urban); Services and Infrastructure; Port and Airport; Contaminated Sites & Hazardous Substances; Cultural and Historic Heritage; Amenity Values (rural & urban); Integrated Management. The Natural Environment: The Land Resource; Climate and Air Quality; Freshwater Resources; Coastal Environment; Riparian and Coastal Margins; Natural Heritage; Open Space; Natural Hazards.
<b>Indicators:</b>	<b>Resource Consents Monitoring. Resource Consents:</b> total number of resource consents issued; spatial distribution of resource consents issued; number (and %) of resource consents notified (non-notified); number (and %) of resource consents processed (not processed) within statutory timeframe, publicly notified applications, non-notified applications; number (and %) of resource consent applications declined; number (and %) of council decisions appealed; number (and %) of appeals that are successful. <b>Land Use Consents:</b> total number of land use consents issued; different types land use consents issued; spatial distribution of different types of land use consents issued; total number (and %) of land use consents monitored (not monitored); number (and %) of consents complied with (not complied with); number of site visits required to achieve compliance; number of consents requiring on-going monitoring; number (and %) of conditions necessary (unnecessary); recommendations on suitability of consent conditions; number (and %) of conditions workable (unworkable); recommendations on functionality of consent conditions; number (and %) of consents environmental impacts adequately addressed (not addressed); recommendations on environmental impacts; number of applications for change of consent conditions. <b>Subdivision Consents:</b> total number of subdivision consents issued; total number of lots created; spatial distribution of subdivision consents issued; average, and range of lots sizes created in the different environments; number (and %) of lots with conservation covenants; spatial distribution of conservation covenants; number (and %) of lots with esplanade reserves or strips; spatial distribution of esplanade reserves and strips. <b>Building Consents:</b> total number of building consents issued; spatial distribution of building

consents issued; different types of building consents issued; total number of new dwellings constructed; spatial distribution of new dwellings; total value of all building consents issued; number (and %) of building consents processed (not processed) within statutory timeframe.

**Complaints Monitoring:** total number of all complaints received by Council; total number of complaints received by Policy and Monitoring Division; different types of complaints received by Council: district plan issues, resource consent conditions, building and engineering, parking, dogs, stock, health, excessive noise, hazardous substances, signs; number (and %) of total complaints to Council resolved (unresolved); number (and %) of complaints to Policy and Monitoring Division resolved (unresolved); number of enforcement actions initiated by Policy and Monitoring Division: abatement notices, enforcement orders, infringement notices, prosecutions; number of enforcement actions initiated by Compliance Division: animal infringement notices, excessive noise directions, notices to rectify, others.

**District Plan Monitoring: Sub-Division and Development:** spatial land use and development pattern (mapped); development trends for district (numbers and spatial distribution of resource and building consents issued); incompatible land use activities (frequency of complaints and spatial distribution); density, consolidation, sporadic subdivision and ribbon development (spatial arrangement and trends); efficiency of use and development of natural and physical resources (relationship of residential areas to commercial, industrial and recreational areas; encroachment of subdivision and development onto known versatile soils); existing and future provision of infrastructure; spatial arrangements, cost implications; location of subdivision and development in relation to known natural hazards (number of incidences, spatial arrangement, trends); character of localities in relation to subdivision and development as revealed by field surveys; number, cause and frequency of complaints relating to subdivision and development; qualitative and quantitative assessment of issues relating to subdivision and development; public opinion, customer feedback and consultation on issues relating to subdivision and development in the district. **Financial**

**Contributions:** existing and future provision of infrastructure (from strategic plan, annual plan/report and asset management plans); number and distribution of resource and building consents in relation to infrastructure and services; level of financial contributions from developers to provide for and/or upgrade infrastructure and services including: reserves and community facilities, roading, water supply, wastewater, stormwater & solid waste disposal; true cost of infrastructure and services; level of financial contributions from developers to ameliorate adverse environmental effects; True cost of ameliorating adverse environmental effects; number, cause and frequency of complaints relating to financial contributions; qualitative and quantitative assessment of issues relating to financial contributions; Public opinion, customer feedback and consultation on issues relating to financial contributions.

**Road Transport:** existing roading network showing roading hierarchy and sealed/unsealed roads; proposed extensions to roading network including proposed sealing of existing roads; location of roading network in relation to sensitive natural areas, sensitive amenity areas, and areas of cultural and historic heritage; provision of footpaths, cycleways, car parks, and street lighting; number, cause and frequency of road accidents relating to the roading network; number, cause and frequency of complaints relating to the roading network; qualitative and quantitative assessments, including traffic flow studies; public opinion, customer feedback and consultation on issues relating to the roading; network. **Network Utility Services:** existing network utility services (mapped); communities connected (not connected) to reticulated services; communities served by communications facilities (i.e. cell phone coverage, etc.); location of network utility services in relation to sensitive natural

areas, sensitive amenity areas, and areas of significant cultural and historic heritage; extent of undergrounding of network utility services; number and frequency of recorded health and safety incidents relating to network utility services number, type and distribution of resource and building consents proximate to network utility services; number, cause and frequency of complaints relating to network utility services; qualitative and quantitative assessments of issues relating to network utility services; public opinion, customer feedback and consultation on issues relating to network utility services. **Whangarei Airport:** existing Airport site together with locations of Air noise boundary and outer control boundary; number of aircraft movements; number, cause and frequency of accidents; number, type and frequency of incidents involving adverse effects on natural, cultural and historic heritage; recorded noise levels in relation to the Air noise Boundary and the Outer Control Boundary; number, type and distribution of resource and building consents proximate to the Airport; number, cause and frequency of complaints relating to the Airport; qualitative and quantitative assessments including those relating to noise public opinion, customer feedback and consultation on Airport issues. **Marsden Point Port:** existing Port site and boundaries; number of shipping movements and total tonnage of materials moved; number, cause and frequency of accidents; number, type and frequency of incidents involving adverse effects on natural, cultural and historic heritage; recorded noise levels in relation to the standards set out in the District Plan; number, type and distribution of resource and building consents proximate to the Port; number, cause and frequency of complaints relating to the Port; qualitative and quantitative assessments including those relating to noise; public opinion, customer feedback and consultation on Port issues. **Amenity Values:** spatial distribution of activities in the different Environments as revealed by the number and distribution of resource and building consents; incompatible activities as revealed by the number and frequency of complaints concerning amenity values; mix of activities in Living Environments as revealed by number and distribution of resource and building consents; location of different land uses in Countryside and Coastal Countryside Environments as revealed by number and distribution of resource and building consents; encroachment on Open Space as revealed by number and distribution of resource and building consents; mix of activities in Whangarei Town centre/town basin and suburban and rural shopping centers as revealed by the number and distribution of resource and building consents; incidence of nuisance as revealed by the number and frequency of complaints relating to animals, noise, odour, dust, smoke, light spill, glare, shading, traffic, privacy, spray drift, radio frequency fields and electromagnetic radiation; quality of amenity in the different Environments as revealed by field surveys; public opinion, customer feedback and consultation on amenity values. **Heritage Buildings, Sites and Objects:** number, distribution and classification of heritage buildings, sites and objects – (a) In the District Plan (b) On the NZHPT Register Number and distribution of archaeological sites – (a) In the District Plan (b) On the NZHPT Register (c) On the NZAA Index number and distribution of heritage sites of significance to Maori (a) In the District Plan (b) On the NZHPT Register (c) In iwi and hapu management plans; number and distribution of heritage covenants; number and distribution of heritage orders; number, distribution and type of resource and building consents relating to activities; proximate to heritage buildings, sites and objects; effects of activities on heritage buildings, sites and objects as revealed by monitoring of resource consents and consent conditions; number, cause and frequency of complaints relating to heritage buildings, sites and objects; quantitative and qualitative assessment of heritage values by field survey; public opinion, customer feedback and consultation on heritage values. **Heritage Trees:** number, distribution and classification of heritage trees in the District Plan Schedules: number and

distribution of heritage trees of significance to Maori; number and distribution of covenants for heritage trees; number, distribution and type of resource and building consents relating to activities proximate to heritage trees; effects of activities on heritage trees as revealed by monitoring of resource consents and consent conditions; number, cause and frequency of complaints relating to heritage trees; quantitative assessment of heritage trees by field survey; public opinion, customer feedback and consultation on heritage trees. **The Coast:** the coastal environment (mapped); significant landscapes and landforms in the coastal environment (see section on Landscapes); significant indigenous vegetation and significant habitats of indigenous fauna (see section on Indigenous Vegetation and Habitats); Air, water and soil quality in coastal environment (see NRC for data), Historic and cultural heritage in the coastal environment (see sections on Heritage Buildings, Sites and Objects, Heritage Trees and Tangata Whenua); spatial land use and development pattern in the coastal environment development trends for coastal environment (numbers and distribution of resource and building consents). **Density:** consolidation, sporadic and sprawling subdivision and ribbon development in the coastal environment (spatial arrangement and trends); Existing and future provision of infrastructure in the coastal environment; spatial arrangements, cost implications (asset management plans and strategies); extent and distribution of esplanade priority areas, esplanade reserves and strips, access strips, Council and DoC reserves, boat ramps, picnic and recreational areas (see section on Riparian and Coastal Margins); number, cause and frequency of complaints relating to the coastal environment; qualitative and quantitative assessment on issues relating to the coastal environment; public opinion, customer feedback and consultation concerning the coastal environment. **Riparian and Coastal Margins:** esplanade priority areas (listed and mapped); esplanade reserves, strips, and access strips (mapped); other Council and DoC reserves along riparian and coastal margins; identified natural values in relation to esplanade priority areas, esplanade reserves, strips, access strips and other Council and DoC reserves; identified cultural/historic heritage in relation to esplanade priority areas, esplanade reserves, strips, access strips and other Council and DoC reserves; public boat ramps; public picnic and recreational areas; identified natural hazards, particularly coastal hazard areas and flood susceptible areas, in relation to esplanade priority areas, esplanade reserves, strips, access strips and other Council and DoC reserves; projected sea level rise in relation to esplanade priority areas, esplanade reserves, strips, access strips and other Council and DoC reserves; number and distribution of resource and building consents in relation to esplanade priority areas, esplanade reserves, strips, access strips and other Council and DoC reserves; number, cause and frequency of complaints relating to riparian and coastal margins; qualitative and quantitative assessments of issues relating to riparian and coastal margins; public opinion, customer feedback and consultation on issues relating to riparian and coastal margins. **Water Bodies:** extent and distribution of water bodies, including lakes, rivers and wetlands; number and distribution of resource and building consents in relation to water bodies; extent and distribution of water bodies subject to intensive use by surface activities; flood susceptible areas on planning maps in District Plan; number and distribution of resource and building consents in relation to flood susceptible areas; frequency, scale, effects, etc. of flood events; number and distribution of sites of significance to Maori in District Plan in relation to water bodies; sites of significance to Maori in iwi and hapu management plans in relation to water bodies; number, cause and frequency of complaints relating to water bodies; qualitative and quantitative assessments of issues relating to water bodies; public opinion, customer feedback and consultation relating to water bodies. **Open Space:** number, type and distribution of reserves; (a) Council; (b) DoC; number, type and

distribution of covenanted areas and areas subject to heritage orders; extent and distribution of active recreational areas (sportsgrounds, etc.); extent and distribution of esplanade priority areas, esplanade reserves and strips, access strips, Council and DoC reserves, covenanted areas and areas subject to heritage orders to discern linkages; extent and distribution of walkways (coastal, urban, etc.); number and distribution of resource and building consents on, or proximate to, open space; number, cause and frequency of complaints relating to open space; qualitative and quantitative assessment of issues relating to open space; public opinion, customer feedback and consultation on issues relating to open space; **Landscape:** outstanding and notable landscapes and natural features, (a) over whole district (b) in coastal environment; number and distribution of resource and building consents in relation to outstanding and notable landscapes and natural features; heritage buildings, sites and objects, heritage trees and sites of significance to Maori; historic and cultural landscapes identified in iwi and hapu management plans; number, cause and frequency of complaints relating to outstanding landscapes and natural features; qualitative and quantitative assessment of issues relating to outstanding landscapes and natural features; public opinion, customer feedback and consultation on issues relating to outstanding landscapes and natural features. **Indigenous Vegetation and Habitat:** identified significant ecological areas on planning maps; covenanted areas (mapped, area, numbers), (a) Whangarei District Council (b) QE II National Trust Council and DoC reserves, re-vegetation and enhancement programmes (mapped, area, numbers); number and location of resource and building consents in relation to significant indigenous vegetation and significant habitats of indigenous fauna; extent and location of ecological corridors (mapped); identified indigenous vegetation and habitats of indigenous fauna of significance to Maori; number, cause and frequency of complaints relating to significant indigenous vegetation and significant habitats of indigenous fauna; qualitative and quantitative assessments of indigenous vegetation and habitats of indigenous fauna; public opinion, customer feedback and consultation on issues relating to indigenous vegetation and habitat. **Minerals:** existing mines and quarries, and existing Mineral Extraction Areas (mapped); mineral extraction rates; number, cause and frequency of accidents; number, cause and frequency of incidents involving adverse effects on natural, cultural and historic heritage; number and distribution of derelict mines and quarries in district; number, type and distribution of resource and building consents in Mineral Extraction Areas; number, cause and frequency of complaints relating to mineral extraction and processing; qualitative and quantitative assessments relating to mineral extraction and processing; public opinion, customer feedback and consultation regarding mineral extraction and processing. **Natural Hazards:** identified and classified natural hazard areas, including; (a) flood susceptible areas (b) mining hazard areas (c) coastal hazard areas; number, type and distribution of resource and building consents in relation to natural hazard areas; number, type and frequency of recorded incidents involving natural hazards (natural hazards register); location, extent of, and changes to, natural buffers (topographic maps and aerial photography); number, cause and frequency of complaints relating to natural hazards; qualitative and quantitative assessments of natural hazards; public opinion, customer feedback and consultation on natural hazards; contaminated Sites: number, distribution and classification of known contaminated sites; Number and distribution of rehabilitated sites; number and distribution of resource and building consents in relation to known contaminated sites; number and frequency of reported health and safety incidents relating to contaminated sites; number, cause and frequency of complaints relating to contaminated sites; quantitative assessment of contaminated sites; public opinion, customer feedback and consultation on contaminated sites. **Hazardous Substances:** number and frequency of recorded environmental incidences

	<p>concerning hazardous substances; number and frequency of recorded health and/or safety incidences concerning hazardous substances; number and frequency of complaints relating to hazardous substances; quantitative assessments of use, storage, manufacture, transport and disposal of hazardous substances; public opinion, customer feedback and consultation on issues relating to hazardous substances. <b>Tangata Whenua:</b> institutional arrangements for liaison between Council and tangata whenua, including; (a) Maori liaison personnel (b) Protocols or memoranda of agreement (c) Maori standing committee (d) Maori working parties or advisory groups; frequency of use of marae and hui and use of Te Reo Maori; transfer of functions, powers and duties to iwi authorities; recognition of customary authority and rights, cultural and spiritual values and traditional practices; iwi and hapu management plans developed; agreements and protocols set up to facilitate consultation; council provision of resources (amount and type); number and percentage of consent applications involving consultation with tangata whenua; frequency of consultation on policy and planning initiatives; number and distribution of sites of significance to Maori on the planning maps; number and distribution of resource and building consents in relation to sites of significance to Maori; number, cause and frequency of complaints relating to tangata whenua issues; qualitative and quantitative assessments relating to tangata whenua issues; consultation with tangata whenua. <b>Local Authority Cross Boundary Issues:</b> processes, protocols and agreements between adjacent territorial authorities and the NRC, Iwi and hapu processes, protocols and agreements; number, nature and frequency of joint hearings between WDC and NRC; number, cause and frequency of complaints relating to cross boundary issues; qualitative and quantitative assessments of cross boundary issues; public opinion, customer feedback and consultation on cross boundary issues.</p> <p><b>State of the Environment Monitoring: The Human and Built</b></p>
	<p>Environment: People and Communities: history, demographics, crime, health, education, community well-being; Tangata Whenua; Socio-Economic Background: economic activity, business sectors, occupation types, income levels, employment/unemployment, housing; Land Use Activities: Rural – agriculture, horticulture, forestry, mining, rural/residential; Urban – residential, commercial, industrial; Services and Infrastructure: parks and reserves, civic amenities, water supply, stormwater, wastewater, solid waste, roading, network utilities; Port and Airport; Contaminated Sites &amp; Hazardous Substances; Cultural and Historic Heritage: heritage buildings/sites and objects, heritage trees, archaeological sites, sites of significance to Maori; Amenity Values: urban, rural, open space, specific issues (noise/vibration control, animal control, building control, traffic control, visual amenity, health and licensing); Integrated Management. The Natural Environment: The Land Resource: landform, geology, soils, vegetation, land use capability, erosion potential; Climate and Air Quality; Freshwater Resources; Coastal Environment; Riparian and Coastal Margins; Natural Heritage: landscape; indigenous vegetation and habitat; biodiversity; Open Space; Natural Hazards: coastal erosion, flooding, land subsidence. <i>Note: there is an extensive list of indicators proposed for each state of the environment topic above. Information will be compiled from each area of council monitoring (complaints, consents, district plan). Information is also to be obtained from Statistics NZ, Ministry of Health, Ministry of Education, Tangata Whenua, Northland Regional Council and DoC. Links are made to Ministry for the Environment indicators.</i></p>
<p><b>Notes:</b></p>	<p>Received NZPI Award of Merit 2003. Downloadable at: <a href="http://www.wdc.govt.nz">www.wdc.govt.nz</a></p>
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