

Kapiti Coast District Council Monitoring Strategy

Local Authority:	Kapiti Coast District Council
Strategy Name:	Monitoring Strategy – Capturing Our Environment
Strategy Date:	2002
General Approach:	Integrate state of the environment, district plan and compliance monitoring (permitted activities and consents); PSR framework; AERs in district plan as a reference point with connections to strategic and annual plans.
Information on:	Strategy preparation process, types of monitoring undertaken, indicators, indicator measures, units and sources of information.
Indicator Topics:	Demographics; Public Health; Residential Development; Rural Subdivision and Development; Natural Hazards; Coastal Environment; Landscape (identified & unidentified); Ecology, Natural Environment, Riparian Management; Noise; Water Supply, Waste Water & Storm Water; Transportation; Solid Waste & Hazardous Substances; Heritage & Tangata Whenua; Open Space and Reserves; Signage; Business & Tourism.
Indicators:	<p>Demographics: Average no. of occupants per area unit; no. of homes for the elderly where homes are within retirement villages; no of occupied beds within retirement villages; no. of non-private dwellings; no. of dwellings owned by occupier; no. of mobile units/temporary dwelling accommodation; % breakdown of age per area unit; no. of employed/unemployed within the district; number of employed who travel to work within the district; number of employed who travel to work outside of the district; population growth in the district; no. of people per ha; no. of dwellings per ha. Public Health: no. of reports of infectious disease incidents linked to water supply per year per area unit; no. of reports of infectious disease incidents linked to licensed food outlets per area unit per year; no. of reports of infectious disease incidents linked to water catchments (streams etc) per area unit per year; no. of reports of infectious disease incidents linked to an unknown source per area unit per year; no. of education campaigns relating to public health per year.</p> <p>Residential Development: no. of building consents applied for/granted for new dwellings in residential zone per area unit no. of new dwellings larger than 100m², 150m², 200m² per area unit no. of existing dwellings larger than 100m², 150m², 200m² etc; total area of land zoned residential per area unit; no. of occupied dwellings per area unit; no. of residential cross leases per area unit; no. of undeveloped residential cross leases per area unit; no. of undeveloped residential cross leases within 1% flood zone; no. of resource consents granted for encroachments on bulk and location (Height envelope, yards, site coverage, outdoor living courts) per area unit per year; % breakdown of new dwellings where majority of cladding I brick/wood/corrugated iron/ alternative; no. of new 1 storied dwellings per area unit; no of attached flats (2 homes, 1 building) per area unit; no. of detached houses per area unit; average house prices per area unit; average rent prices per area unit; no. and area of reserves in the residential zone owned by KCDC, DoC, GW; length of current walkways / cycle ways; length of proposed walkways/ cycle ways; no. and area of council owned land excluding reserves/cycle ways/walkways; no. of children’s playgrounds and youth facilities (including skateboard ramps, youth venues) per area unit; no. of earthworks permits issued for residential areas per area unit per year; no. of resource consents granted for earthworks in the residential zone; no. of retrospective resource consents granted for earthworks in the residential zone; no. of infringement notices and abatement notices issued per year regarding earthworks; total area modified by earthworks in the residential zone; no. and % breakdown of complaints relating to disruption of residential amenity per area unit per year (noise, wrecked cars, fencing; no. of complaints received relating to</p>

abandoned vehicles per area unit per year; no. of abandoned vehicles disposed of per year; no. of dogs registered per area unit; % of total dogs of neutered / spayed dogs per area unit per year; no. of complaints relating to dogs per area unit per year; no. of dogs per area unit that have been impounded; no. of businesses registered for GST in the residential zone; no. of resource consents for commercial activities and non-residential activities granted in the residential zone; no. and type of complaints per area relating to potential commercial activities and non-residential activities per area unit per year; no. of resource consents granted for family flats in the residential zone per area unit; no. of existing licensed premises per area unit; no. of new licensed premises per area unit; % breakdown of licensed premises per area unit per year; no. of licensed food premises per area unit per year; % breakdown of licensed food premises per area unit per year; no. of resource consents granted for removal of native vegetation in the residential zone per area unit; no. of complaints received regarding the removal of native vegetation in the residential zone; no. of infringement notices or abatement notices issued in respect of removal of native vegetation per year; The number or heritage features protected in the residential zone (through s221 certificates, on the heritage register, QE or DoC Covenants; no. of education campaigns to advise people of rules regarding native vegetation. **Residential Subdivision:** no. of residential lots created as a result of subdivision per area unit per year; no. of applications received for subdivision in the residential zone per area unit per year; Total area of land zoned residential / rural residential / non Complying (future residential) per ward; Total area of vacant land zoned residential per area unit; area of land rezoned residential per area unit; Average lot size in residential zone per area unit; no. of existing lots less than or equal to 10,000 m², 2,500 m², 1,200 m², 1,100 m², 1,000 m², 900m², 800m², 700m², 600m², 500m², 400m² in the residential zone per area unit; no. of approved infill subdivisions of land less than 1000m² per area unit; no. and type of Resource Consents applications for subdivision received that include alternative / non traditional design solutions not in the KCDC Code of Subdivision (street design, power, water supply) per area unit; amount of development impact fees collected by type (Community Facilities, Water, Sewage, Reserves Contributions). **Rural Development and Subdivision Growth:** no. of applications for rural subdivision per subdivision area; no. of rural lots created per subdivision area; average rural lot size for each subdivision area; no. of resource consent applications declined for subdivision for each subdivision area; area of land removed from rural zoning through district plan changes; and types of complaints regarding subdivision within each subdivision area per year; no. of subdivision consents received that include innovative design solutions not in the KCDC Code of Subdivision (street design, power, water supply) per area unit; no. of earthworks permits issued in rural areas per area unit; no. of resource consents granted for earthworks in association with built structures in the rural zone per area unit per year; no. of resource consents granted for earthworks other than associated with a dwelling in the rural zone per area unit; no. of retrospective resource consents granted for earthworks in the rural zone per area unit; total area modified by earthworks in rural zone per area unit; no. of infringement notices and abatement notices issued in the rural zone regarding earthworks; no. and type of complaints regarding modification of natural rural landscapes by earthworks; area of land vested as council reserve (esplanade reserves/ strips, local purpose) protecting natural environment in rural areas per area unit per year (cumulative and annual areas); area of reserves owned by DoC and GW in the rural zone per area unit; no. of S221 certificates issued for protection of natural vegetation or landforms in the rural zone per area unit per year; no. of S221 certificates monitored per year; no. of conservation covenants entered into for protection of natural vegetation or landforms in the rural zone per area unit per year; no. of resource consents

granted for removal of native vegetation in the rural zone; % vegetation cover and type in the rural zone per year; no. of building consents granted for dwellings in rural zone per area unit; no. of building consents granted for accessory buildings in the rural zone; Total no of accessory buildings exceeding 60m² in the rural zone; no. of lots with an improved value of between \$0 and \$50,000 (shows vacant land) per area unit; no. of resource consents granted for family flats in the rural zone per area unit; no. and type of complaints about built structures (family flats and accessory buildings) in the rural zone per area unit per year; no. and type of resource consent applications for commercial activities, home occupations, places of assembly (ex. dwellings and rural activities) per area unit in the rural zone; no. and type of complaints about permitted rural activities from rural lifestyle blocks per area unit per year (reverse sensitivity issues). **Natural Hazards**: no. of dwellings in the coastal relocatable zone per area unit; no. of dwellings in the no build zone per area unit (including the Te Horo and Waikanae coastal yard set back – 7.5m); total no. of hard structures along Kapiti Coastline; no. of hard structures (seawalls) maintained by the Council (public); no. of hard structures (seawalls) not maintained by the Council (private); no. of hard structures (seawalls) with GW / KCDC consent; no. of hard structures (seawalls) without GW / KCDC consent; length of hard structures(seawalls) along Kapiti Coastline; rate of coastal erosion on the Kapiti Coast at set locations (profiles);Rate of renourishment and maintenance of hard structures (seawalls) along the Kapiti Coast; no. of resource consents declined in areas identified as being subject to coastal erosion; no. of resource / building consents granted in the 1% flood zone; no. of residentially zoned properties in 1% and 2% flood zone per area unit; no. of rurally zoned properties in 1% and 2% flood zone per area unit; no. of resource consents declined in areas identified as being subject to flooding; no. and severity of floods per year; total length of GW stopbanks (flood mitigation measures) in place and locations; no. of rural fires recorded annually; total area burnt per year;% breakdown of vegetation burnt and location; no. of production forestry owners with Fire Management Plans; no. of urban and rural fire permits issued per area unit per year; no. of fires that have caused a hazard requiring a response with and without a fire permit per area unit per year; no. of complaints relating to smoke nuisance with and without a fire permit per area unit per year; no. of fire hazards occurred during a fire ban per area unit per year; no. of education campaigns relating go fire hazards per year; no. of length of fire bans per year; no. and magnitude of earthquakes within a 100km radius of the Kapiti Coast per year; no. of lots intersected by a fault trace as identified on planning maps per area unit; no. of resource consents declined in areas intersected by a fault trace as identified on planning maps; no. of building consents granted for dwellings on lots intersected by a fault trace as identified on planning maps; no. of existing dwellings built on land intersected by a fault trace as identified on planning maps per area unit; no. of civil defence headquarters per area unit; no. of civil defence sirens per area unit; no. of civil defence awareness campaigns per year in Kapiti (including fire, Flooding, Earthquakes, Coastal Erosion);no. of civil defence emergencies in a year and type. **Coastal Environment**: no. of new lots approved within 500 metres of the MHWS mark (or high tide mark); no. and type of complaints relating to potential breeches of the beach bylaw; no. and type of complaints relating to areas of dunes modified by development; no. of resource consents issued for earthworks within relocatable zone & 70 metre setback zone; no. of resource consents recommended for decline within 500 metres of MHWS mark (or high tide mark); area of reserve vested with council or protected by other covenants within 500 m of MHWS per area unit; length of foredune protected by esplanade reserve per are unit; vegetation cover by type in the coastal environment (also heights of dunes / erosion?); lot locations of all structures within 500m of the MHWS in the rural zone in a scatter gram

formation.; no. of public beach access ways per area unit; no. of beach care groups; no of public beach accessways per kilometre in the Residential zone per area unit; no of public beach accessways per kilometre in the Rural zone per area unit; length of road directly adjacent to coastal marine area per area unit. **Landscape:** no. of resource consent application made for earthworks in outstanding landscape areas; no. of new lots created in outstanding landscape areas; no of building consents granted in outstanding landscape areas; no. of resource consents granted for construction of dwellings on significant landforms per area unit; no. and type of complaints regarding modification of outstanding landscapes from development; area of exotic forestry in the Kapiti district (all ages); total area of exotic forestry harvested per annum where a resource consent was required (over 10ha); total area of exotic forestry harvested per annum; length of streams which directly adjoin production forestry; no. of lots with forestry production adjoining waterways; area and location of outstanding landscapes; area and location of outstanding landscapes protected by reserves, covenants and s221 certificates. **Ecology/Natural Environment/ Riparian Management:** total area of native vegetation per annum; no. of resource consents applied for to remove native vegetation and modify wetlands; area of native vegetation and wetland disturbance as a result of resource consents issued; total length of riparian margins per area unit; Length of managed riparian margins (fenced, and / or vegetated); no. and reaches of streams with Native fish; no. of pollution spills per stream per year; average no. of livestock within the district per year; no. of registered ground water bores; no. of ecological sites fenced to prevent grazing; no. of ecological sites legally protected by various methods per year; no. and % of ecological areas ecologically surveyed; no. of community environmental groups participating in ecological restoration; no. of ecological sites where weeds are controlled by GW or KCDC; money available annually collected by the Heritage Trust; no. and size of grants made annually by the Heritage Trust; no. of ecological sites managed by a landowner or community groups; no. of landowners who have indigenous biodiversity on their property; % of people aware of district Plan rules relating to native vegetation and forestry; % of people aware that funding is available through the heritage trust; % of people supportive of councils spending in relation to the Heritage Trust. **Noise:** no. of complaints received regarding the adverse effects from excess noise in general; % breakdown of complaint types (i.e. stereo, car motors); ambient noise levels at 14 noise monitoring sites in the residential, rural and industrial zones (day time and night time); no. of noise abatement notices issued in one year; no. of excessive noise directions issued; no. of equipment seizures per area unit per year; no. of resource consents issued imposing conditions to control the adverse effects of noisy activities (s.16 RMA); no. of consents granted for activities exceeding permitted activity noise standards; no. of complaints received regarding the adverse effects from airport noise; ambient noise levels at noise monitoring sites within 1km of Paraparaumu Airport; no. of complaints received regarding the adverse effects from traffic noise; ambient noise levels at noise monitoring sites within the boundary of the noise corridor of SH1 and Western link Road where adjoining a residential zone. **Water Supply, Waste Water And Stormwater:** quantity of water consumed comparing summer and winter use per capita per area unit per year; quantity of wastewater disposed and treated per area unit per month; no. of times stage 1, 2 and 3 water shortages occur in each area unit per year; no. and period of time water restrictions in force per area unit per year; no. and % of total of residential lots with access to Council water supply per area unit; capacity of urban services to meet forecasted demands based on vacant residential land becoming occupied (%); council spending on urban service upgrades/maintenance five yearly (fund depreciation); total length of wastewater infrastructure; no. of complaints in relation to infrastructural

services (sewage treatment and disposal, water supply etc); no. of residential / commercial / rural properties on metered water supply in the Kapiti district; no of manifolds installed per area unit per year and % of total lots with water supply; Ministry of Health Minimum Standards for each ward; comparison of district grades with national averages; no. of times supply exceeds drinking water standards; no. of newly subdivided rural lots with on-site waste-water disposal systems and alternative water supply systems and types; no. of newly subdivided residential lots (rural and residential) with on-site waste-water disposal systems and alternative water supply systems per year and types; no. of applications received for residential ; subdivision per year where alternative stormwater systems are proposed including storage ponds and swales; no. of applications received for rural subdivision per year where alternative stormwater systems are proposed including storage ponds and swales; stormwater capacity models for the following catchments; Waikanae, Whareroa, Wharemauku, Waimiha / Ngarara, Mangaone, Otaki River, Waitohu, Mazengarb Drain; stormwater priorities list; stream water quality levels (only monitors microbiological status, not toxic substances – heavy metals etc); no. of education campaigns relating to pollution of waterways and catchments per year; household survey of stormwater disposal outlets (investigates whether stormwater is entering wastewater outlets). **Transportation:** no. of existing limited access points onto State Highway 1; no. of new access points (crossing places and road junctions) onto State Highway 1 per year; no. of traffic accidents and crash rates (minor, major and fatal) on SH1 and local roads per year; crash Rate (per 10,000 people; measure of roughness for KCDC local roads per year; cost to community of traffic accidents; no of complaints and % breakdown regarding public utilities per year (i.e. footpaths, roading maintenance); length of road maintained by KCDC; length and location of gravel roads sealed per year; length and location of gravel roads maintained per year; length and location of separated cycle lanes; length and location of merged cycle lanes; length and location of road with no cycle lanes; no. of complaints regarding dissatisfaction with present parking; measure of capacity of present parking in main commercial centres; occupancy rates of council carparks; no. and location of schools where their carparking capacity is 80% full occupancy rates on selected streets (vpd); before and after studies of sites subject to subdivision and land use applications; % of Kapiti Residents who work outside the district; % of Kapiti Residents who work within the district; % of Kapiti Residents who don't work; % transport mode for commuters travelling outside of the district; vehicle ownership; no of people using public transport in Kapiti; bus transport routes (location and schedule); Mode of transport to work (for Kapiti); Peak Flow traffic counts (AADT) at specific points on SH1; peak flow traffic counts on main local arterials being; Wellington Road, Poplar Ave, Rosetta Road, Raumatia Road, Matai Road, Rimu Road, Wharemauku Road, Matatua Road, Kapiti Road; Mazengarb Road; Te Moana Road; Riverbank Road; Mill Road; Western Link Road. **Solid Waste And Hazardous Substances:** Total waste stream per year; % of total waste stream diverted for recycling/reuse/recovering; % breakdown of total waste stream (organics and non organics) % annually; remaining life of the Landfill in years; no. of times ground water level exceeded stock watering standards per year; total final waste collected at sewage treatment station (Lemar Process); no. of potentially contaminated sites per area unit in the Kapiti district; no. of incidents and spills involving hazardous substances. **Heritage & Tangata Whenua:** no. of trees / buildings / archaeological sites protected on the Heritage Register; no. of trees / buildings / archaeological sites placed on the Heritage Register in the past year through a Plan change; no. of resource consent applications involving the modification or destruction of a heritage feature; no. of archaeological authorities approved for damage or modification of archaeological sites per annum; no. and type of complaints

received regarding existing or proposed Heritage features; condition of historic places and occurrence of modification outside resource consent process; condition of 'high risk' Heritage features; no. and survey of all historic sites threatened by urban development; no, type and location of Wahi Tapu sites protected in the district Plan; no. of resource consents applied for that involve or affect culturally significant sites or heritage features; % of resource consent applications that involve Iwi consultation; no. of plan changes or designation procedures that have iwi have submitted on; no. of notified resource consents applications that Iwi have submitted.

Open Space And Reserves: no. of existing public reserves by type, area, zone and landowner (KCDC, DoC, GW); area of existing reserves per area unit(e.g. 10ha Paekakariki); length of public walkways (km); total amount of Reserve contributions paid per area unit per year (cash); total area of land vested as Reserve per area unit (Land); area breakdown of areas under mowing specifications (i.e. 10% class 1 (Bowling greens), 30% class 3 (rugby fields), 60% class 5 (wilderness areas) no. area and purpose (recreation; ecological; historical) of properties purchased with the Strategic Land Purchasing Fund; community satisfaction with reserve maintenance and appearance; visitor numbers to the park (Visitor numbers per month = monthly no. of vehicles x a Multiplier for total no. of people); total amount of funding allocated to QE park per year; % breakdown of costs (Capital works (toilet blocks), noxious weed removal, dune restoration); QE Park Visitor satisfaction survey; Visitor numbers to the park; total amount of funding allocated to Akatarawa park per year; pest management areas under KCDC control; pest management areas under GW control; pest management areas under DoC control; no. of consents for subdivision and development with a restriction on pets and their proximity to reserves. **Signage:** no. of non complying signs within the district identified through sign audit; no. of resource consents granted for signage within Kapiti district per year; no. of Complaints received regarding signage in the district per year; no. of enforcement measures (abatement notices / infringement notices) issued in relation to non complying signage. **Business And Tourism:** no. of resource consents approved for new commercial/ industrial properties per area unit; no. of resource consents declined for new commercial/industrial properties per area unit; no. of building consents granted for commercial buildings per area unit per year; estimated value of newly constructed commercial buildings; no. of full time equivalents per area unit in the Kapiti Coast district; no. of unemployed people per area unit in the Kapiti Coast district Sales, purchases and GST per quarter; area of land zoned commercial per area unit; area of land zoned industrial per area unit; % of commercial land developed per area unit; % of industrial land developed per area unit; area of commercial floor space per area unit; area of industrial floor space per area unit; no. of businesses registered for GST per area unit in the Kapiti district; no. of Farm sales per area unit (real estate figures); no. of head offices based on the Kapiti Coast; no. of tourism operators on the Kapiti Coast; no. of full time and part time equivalents employed by Kapiti's tourism operators; visitor profile based on survey results; no. of resource consent applications for new tourism ventures per year; no. of visitors per year to key tourism designations including, Kapiti Island, Tararua Forest Park, Lindale, Southwards, Nga Manu Nature Reserve; visitor numbers to Kapiti Coast compared with national numbers including, amount spent, length of stay, types of activities undertaken etc, no. of aircraft movements on average per month per year; no. of passengers arrive or depart from Paraparaumu airport per month per year; number of registered accommodation facilities per area unit in Kapiti; this includes, hotels / motels, camping grounds, B&B's and backpackers; number of unregistered accommodation facilities per area unit in Kapiti; availability of accommodation per area unit in Kapiti per month; occupancy rates of accommodation types per area unit in Kapiti per month; average no. of bed

	nights (length of stay) per accommodation type in Kapiti per month.
Notes:	Strategy downloadable at: www.kcdc.govt.nz
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