



STEPHEN BROWN  
ENVIRONMENTS LTD

## Stephen Kenneth Brown

**Academic Qualifications:** Bachelor of Town Planning 1978 (Auckland University)  
Diploma of Landscape Architecture 1981 (Lincoln University)

**Professional Qualifications:** Fellow & Past Vice President of the NZ Institute of Landscape Architects  
Affiliate Of The NZ Planning Institute

**Professional Experience:** Auckland Regional Authority 1982 - 84  
Travers Morgan Planning (London) 1984 - 86  
Brown Woodhouse Landscape Architects (owner) 1987 - 88  
LA4 (part owner & director) 1988 - 98  
Stephen Brown Environments Ltd 1999 onwards

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### **Awards:**

**Landscape Value Mapping of Hong Kong (2001 – 5):** development of the methodology and assessment criteria for the 'landscape values and sensitivity mapping' of Hong Kong undertaken by Urbis Ltd for the Hong Kong Government – awarded the Strategic Planning Award by the (UK) Landscape Institute in 2006.

### **Project Impact Assessments:**

**SH16 (2009):** assessment of landscape, amenity and natural character effects associated with redevelopment of the Te Atatu – Waterview section of Auckland's North-western Motorway and the Te Atatu interchange – for the NZ Transport Agency

**SH20 (2009):** evaluation of the landscape and amenity effects associated with development of SH20 from Stoddard Rd to Waterview in Auckland – for the NZ Transport Agency

**Fiordland Link Experience (2009):** assessment of the landscape and natural character implications of a proposed monorail through Snowdon Forest, between the Von Valley and Te Anau Downs – for Riverstone Holdings Ltd

**Allandale East Wind Farm (2008):** evaluation of the landscape and amenity effects of a proposed 50 turbine wind farm near Mt Gambier and Port MacDonnell in South Australia – for Acciona Ltd

**Sidonia Hills Wind Farm (2008):** assessment of the landscape and amenity implications of a proposed 52 turbine wind farm in the Macedon Hills Shire of Victoria – for Hydro Tasmania Consulting & Roaring 40s.

**Project Central Wind (current):** evaluation of the landscape, natural character and amenity effects of a proposed 51 turbine wind farm proposed for the southern margins of the North Island's Volcanic Plateau near Taihape and SH1, including a sub-regional assessment of alternative locations – for Meridian Energy Ltd

**Project Hayes (2007):** evaluation of the regional and sub-regional landscape setting (from Dunedin to Lake Dunstan and the Waitaki River to the Clutha River) for the proposed wind farm and assessment of the potential to employ alternative sites for a project similar in scale to Project Hayes – for Meridian Energy Ltd

**Project West Wind (2006):** assessment of the strategic, regional implications, of the Project West Wind wind farm relative to the Wellington region and the southern halves of the Wairarapa and Manawatu coastlines – for the NZ Wind Energy Association

**Turitea Wind Farm (2006 – 8):** preliminary assessment of the landscape and amenity effects of a proposed 80 turbine wind farm on the Tararua Ranges near Palmerston North – for Might River Power

**Awhitu Wind Farm (2005):** evaluation of the strategic landscape and natural character effects of a 21 turbine wind farm proposed by Genesis Energy for the coastal margins of the Tasman Sea and Awhitu Peninsula near Waiuku, south of Auckland – for the Auckland Regional Council

**Eden Park (2001 Redevelopment 2006-7):** assessment of the anticipated visual / landscape / streetscape effects of the partial and complete redevelopment of Eden Park and the stadium surrounds, particularly in relation to Mt Eden's residential amenity and heritage values - for the Eden Park Trust Board.

**Matiatia Village (2003-4):** evaluation of the landscape, natural character and amenity effects associated with a comprehensive commercial village development (18,000m<sup>2</sup>), together with car parking and transport interchange at the 'gateway' to Waiheke Island - for Waitemata Infrastructure Ltd.

**Waitemata Harbour Crossing Options Assessment (2002/3):** Evaluation of the visual and amenity effects of 9 harbour crossing options, including bridges, tunnels, submerged tubes, reclamations, ventilation and service structures, trenches and motorway interchanges - for Opus International and Transit NZ

**Coca Cola Amatil Plant Expansion (2005):** assessment of the amenity effects associated with an \$80 million expansion of Coca Cola Amatil's plant at Mt Wellington, abutting two arterial roads and a large residential community - for Coca Cola Amatil.

**Weiti River Crossing Review (2000):** review of the effects of a proposed bridge over the Weiti Estuary and the coastal environment - for the Auckland Regional Council.

**ALPURT B2 Waiwera River Crossing Review (1999):** review of the effects of a proposed bridge and related roading developments on the Waiwera and Puhoi Estuary coastal environs - for the Auckland Regional Council.

**Sylvia Park Commercial Centre Assessment (1999):** detailed assessment of the implications of a plan change to accommodate 150,000 sq metres of retail, office, and residential development at Mt Wellington, including community facilities, a railway station and new access road - for Kiwi Property Management Ltd.

**Marsden Point Port Impact Assessment (1997 & 2002):** responsible for assessment of the visual and amenity implications of a major new port facility covering some 37 ha.s and associated infrastructure development - including preparation of proposals for amelioration & enhancement around Blacksmith's Creek, followed by assessment of the effects of additional berths in 2002 - for the Northland Port Corporation / Northport.

**Southdown Power Station Assessment (1995):** detailed assessment of the likely visual and amenity implications of a co-generation power station within the industrial/coastal environment of Southdown – for Mercury Energy / Transalta.

**Dominion Rd Transport Designation Assessment (2000):** detailed analysis of the amenity and visual implications of proposed transport corridor designations, including road widening and LRT corridor deviations off Dominion Rd - for Auckland City.

**Glenfield Rd Designations Review (2004):** review of the effects of implementation of three Outline Plans Of Work and resource consent applications related to the widening of Glenfield Rd, an arterial route within North Shore City, including evaluation of impacts in respect of amenity, streetscape and open space values - for North Shore City .

**Lake Rd Designations Assessment (2002):** detailed analysis of the effects associated with widening of Lake Rd, including impacts upon residential amenity, streetscape and open space values; and appraisal of mitigation measures - for North Shore City .

**Omokoroa Roading Options Study (2001):** evaluation of route options and effects as part of an Assessment of Environmental Effects (in association with Beca Carter Tauranga) - for Western bay of Plenty D. C.

**Tauranga Northern Arterial Review & Arbitration (2000):** evaluation of the proposed northern arterial's implications utilising assessments prepared by LA4 and Priest Mansergh, followed by site visits, and provision of recommendations to Transit NZ, the Bay of Plenty Regional Council and Western Bay of Plenty District Council about the landscape mitigation measures that should be employed in conjunction with development of the arterial corridor - for Transit NZ, the BOP Regional Council and WBOP District Council.

**Eastcliffe On Orakei (Bastion Point) Housing Project Assessment (current):** analysis of the visual and amenity implication of an 86 unit housing development next to Takaparawha reserve at Bastion Point & development of landscape concepts / detailing as part of the overall development proposal – for Protac Investments & Ngati Whatua.

**Eden Park Floodlighting & North Stand Assessment (1996/7):** evaluation of a proposal for floodlighting of the No.1 ground and a new north stand; and design of landscape treatment in front of the north stand - for the Eden Park Trust Board.

**Spencer On Byron Hotel (1998):** assessment of the visual effects of a 22 storey hotel proposal for Byron Ave in Takapuna – for Manawanui Trust.

- St Josephs Convent Redevelopment Assessment (1995/6; 2001):** analysis of the visual implications of replacing an existing convent with a combined retirement home / convent / chapel in St Marys Bay, including development of landscape concept for the main grounds and courtyards - for Little Sisters of the Poor.
- Brightside Hospital Assessment (1995/6):** analysis of the visual and amenity implications of replacing an existing hospital with a new hospital facility in central Epsom, including development of landscape proposals for the historic grounds - for Southern Cross.
- South-western Interceptor Assessments (1992; 1996-7):** detailed assessment of the proposed route for the South-western Interceptor AEE - covering a route from Homai Stream to Puhinui Rd (the eastern airport Access road) via the Matukutururu Stonefields, Puhinui Inlet and Puhinui Reserve - for the AEE. Followed up in late 1996 with development of an amelioration strategy - for WaterCare Services Ltd
- North Harbour Gas Pipeline (1995-6):** three stages of involvement in the planning process covering: evaluation of broad 'corridor' options for routing of the pipeline and identification of three preferred routes; detailed assessment of the landscape and amenity implications of the preferred route option; and preparation and presentation of evidence about the proposal and its effects for the North Shore City Council hearing - for Enerco.
- Auckland International Airport Eastern Accessway Impact Assessment (1989 / 1991):** appraisal of a new entry route and bridge options across Pukaki Inlet for Mangere International Airport and development of broad guidelines for the design of the entry road and its immediate surrounds - for the Auckland International Airport Company Ltd.
- A.R.C. Reservoir / Bulk Water Supply Options Study (1988):** responsible for detailed evaluation of eight different dam and/or river extraction options for supplying Auckland with water into the 21st century - for the Water Dept of the Auckland Regional Authority.
- Sky Tower Assessment (1991):** assessment of the Sky Tower proposal for upper Symonds St, Grafton, and presentation of evidence at the Planning Tribunal in relation to its effects - for Auckland City Council & the Auckland Regional Council.
- Mt Ruahine Mast assessment (1999):** evaluation of the effects of a proposed 24 metre mast and shed on top of Mt Ruahine at the southern end of Great Barrier Island - for the Maritime Safety Authority.
- Light Rail transport Evaluation (1990):** evaluation of the visual and aesthetic implications of a light rail system running into and through central Auckland and providing recommendations for its integration into Queen St - for NZ Railways.
- Bayswater Marina ,Okahu Bay Marina & Goldsworthy Bay Marina and Tourism Development Studies (1987-90):** evaluation of all 3 marina proposals and presentation of design recommendations for each - for Wilkins & Davies Ltd, Beca Carter Hollings & Ferner Ltd and L. Sutherland.
- Pine Harbour Marina Extension Assessment (1990):** visual impact appraisal of a 250 berth extension at Pine Harbour - for the Department of Conservation.
- Site Selection Studies for P.W.R. Stations at Trawsfynydd and Wylfa - North Wales (1984-6):** evaluation of a wide range of different siting options for two power stations proposed for North Wales based on landscape/visual impact criteria - for the (U.K.) Central Electricity Generating
- Channel Tunnel Railway Connections Study (1986):** evaluation of route options and landscape impacts associated with provision of railway connections to the Channel Tunnel immediately north-west of Folkestone - for the United Kingdom Department of Transport.

### ***Peer Reviews of Impact Assessments:***

- Orakei Point (2008):** peer review of a mixed use residential / commercial / transport hub development on the edge of the Orakei Basin and Hobson Bay in Auckland, involving up to 8 storey development and footprint of up to 88,000m<sup>2</sup> of residential floor space, together with another 20,000m<sup>2</sup> of commercial floor area, in conjunction with creation of a pedestrian plaza and recreation areas on the edge of both water areas – for the Auckland Regional Council.
- Waikato Wind Farm Project (2008):** review of the landscape, natural character and amenity implications of a 235 turbine wind farm proposed for the Tasman Sea's coastal hinterland between Port Waikato and Raglan, covering a site some 34kms long and up to 8kms wide – for the Waikato and Franklin District Councils.
- Te Uku Wind Park (2007):** peer review and assessment of the landscape, amenity and natural character effects of a 28 turbine wind farm proposed for the Te Uku Ridge / Whararoua Plateau by WEL Networks – for Waikato District Council.
- Te Arai Coastal Community Review (2005 - 2006):** evaluation of the landscape and natural character effects of a proposed 1400 lot development at northern Pakiri Beach (north-eastern Rodney District), incorporating a commercial / community centre, golf course, wetlands / lakes and coastal reserve - for the Auckland Regional Council.
- St Emilion Comprehensive Housing Development (2005 - 2006):** evaluation of the landscape and amenity implications of a 'gated' community housing project, containing 144 residential units and a recreation centre - for Rodney District Council.

**Swanson Structure Plan (2005):** analysis and review of Waitakere City's proposed Swanson Structure Plan for an area on the margins of both metropolitan Auckland and the Waitakere Ranges, as the basis for an Environment Court Appeal - for the Auckland Regional Council.

**Project West Wind (2005):** detailed peer review of the West Wind proposal and Peter Rough Associates' assessment of the proposal's landscape and visual effects - for Meridian Energy Ltd.

**Awhitu Wind Farm (2004 - 2005):** evaluation of the strategic landscape and natural character effects of Genesis Energy's proposed wind farm at the southern end of the Awhitu Peninsula - for the Auckland Regional Council.

**Millbrook Quarry Review (2005):** assessment of the landscape effects of a proposed 30 year expansion to the current Wharehine Quarry near Mt Tamahunga and southern Pakiri (north-eastern Rodney District) - for Rodney District Council.

**Mountain Landing Coastal Residential development (2004-5):** assessment of the landscape effects of a proposed 40 lot subdivision, involving extensive ecological restoration, next to Marsden Cross in the northern Bay Of Islands - for Blue Water Holdings and The Environmental Defence Society.

**Tairua Marina (2002 - 5):** review of the natural character, landscape and amenity effects of a proposed marina (150 berths) at Tairua on the Coromandel Peninsula, as the basis for hearing recommendations , then appeal evidence - for Environment Waikato,

**The Warehouse Gisborne (2003):** one of four commissioners responsible for hearing the resource consent application into a proposed 10,500 sq m / 372 car park development proposal for Gisborne city's Amenity Commercial zone - for Gisborne District Council.

**Tairua Marina (2002 / 3):** detailed review / analysis of the natural character implications of three marina proposals for Tairua Harbour and recommendations - for Environment Waikato.

**Telstra Clear Telecommunications Network Review (2002):** evaluation of the assessments undertaken as part of 4 applications for the staged 'roll out' of an overhead cable network within Auckland City - for Auckland City Council.

**277 Broadway Review (2002-3):** responsible for reviewing the visual and urban design components of proposal for the redevelopment of the "277" sites in Newmarket - for City Planning.

**88 The Strand (1999):** independent review of the visual effects of the proposed twin tower residential development at 88 The Strand, Parnell - for Auckland City.

**Weiti River Crossing Review (2000):** review of the effects of a proposed motorway bridge over the Weiti Estuary and the coastal environment - for the Auckland Regional Council.

**ALPURT B2 Waiwera River Crossing Review (1999):** review of the effects of a proposed bridge and related roading developments on the Waiwera and Puhoi Estuary coastal environs - for the Auckland Regional Council.

**O'Shea Subdivision Review - Great Barrier Island (1999 - 2000):** evaluation of a proposal for a 17 lot subdivision at Awana on the basis of protection of a Special Environmental Feature leading to participation in the Council hearing and current Environment Court proceedings - for Auckland City Gulf Islands.

**McGintys Visitor Accommodation Review - Waiheke Island (1998-9):** appraisal of proposals for redevelopment of the McGintys' hotel site on Onetangi Beach - including the development of a restaurant / bar and 46 residential units resulting in participation in the Council hearing and in Environment Court proceedings - for Auckland City Gulf Islands.

**Environmental Impact Audits: Sandspit, Whitianga, Paihia and Okahu Landing Marina Proposals (1988-91):** auditing of visual impact assessments to ensure the technical adequacy of each assessment and to independently evaluate their findings - for the Dept. of Conservation, Northland Regional Council and Americas Cup Planning Authority.

### **Strategic Assessments:**

**Otorohanga District Landscape Assessment (2008):** identification of Outstanding Natural Features and Landscapes, Amenity Landscapes and parts of the District's coastline – together with lake and river / stream margins – that display high Natural Character values – for Otorohanga District Council.

**Thames Coromandel Landscape Review (2007 / 2008):** peer review of the Thames Coromandel landscape assessment leading to a complete re-assessment of the Peninsula, identification of its Outstanding and Amenity Landscapes, as well as coastal environments displaying high to outstanding natural character values – for Thames Coromandel District Council.

**Kawhia Aotea West Coast Assessment (2006):** assessment of the landscape and natural character values of the catchments around Kawhia and Aotea Harbours, including the identification of the area's outstanding landscapes, visual amenity landscapes and parts of the coastline displaying high natural character – for Environment Waikato and the Waikato, Waipa and Otorohanga District Councils.

**Whangarei District Landscape review / Assessment (2005):** assessment of landscape values across Whangarei District to identify its Outstanding Landscape and Visual Amenity Landscapes, involving use of past public preference research, public consultation, identification of natural character values, landscape heritage values - in conjunction with Beca Carter Hollings & Ferner Ltd for Whangarei District Council.

**Assessment of the Auckland Region's Landscape (2001-4):** responsible for a review of landscape assessment methodologies appropriate for re-assessment of the Auckland Region's landscape, including literature search and organisation of workshops to review theoretical options - designed to address identification of Auckland's outstanding / iconic landscapes; followed by Q-Sort testing of public attitudes to landscape, and mapping of the Auckland Region's Outstanding Landscapes - for the Auckland Regional Council.

**Hauraki Gulf Islands District Plan - Plan Change Reviews (2003):** detailed reviews of Plan Changes 23 (Subdivision), 24 (Earthworks), 25 (Indigenous Vegetation Clearance) & 26 (Lot Coverage) involving detailed assessment of the Waiheke and Great Barrier Island landscapes in respect of their capacity to accommodate changes to the relevant thresholds for permitted and discretionary activities and assessment criteria leading to recommendations in relation to each Plan Change - for Auckland City.

**Auckland Urban Coastline Assessment:**

**Waiheke Island Coastal Landscape Assessment:**

**Great Barrier Island Coastal Landscape Assessment:**

(1993-5): Assessment of the VALUE, VULNERABILITY and overall SENSITIVITY of each of these coastal areas - involving their breakdown into landscape units, description and discussion of landscape character types and preparation of preliminary policies for landscape management - for the Auckland Regional Council.

**Hawkes Bay Region Landscape Assessment:**

**East Manukau Assessment:**

**Whangarei District Landscape Assessment**

**Far North District Landscape Assessment:**

(1993-6): responsible for managing / overseeing assessment of the VALUE, VULNERABILITY and overall SENSITIVITY of each of these strategic landscape studies - involving their breakdown into landscape units, description and discussion of landscape character types and preparation of preliminary policies for landscape management - for the Hawkes Bay Regional Council, Manukau City Council, Whangarei & Far North District Councils.

**Mahia Peninsula / Wairoa Coastal Strategy (2003):** assessment of the landscape and natural character values of the Mahia Peninsula and nearby coastal areas, including Mahanga and Opoutama, to provide input on both conservation and strategic development strategies for the Wairoa District Coastal Strategy Study - for Beca Carter Hollings & Ferner and Wairoa District Council.

**North Shore City Significant Landscape Features Assessment (1998-2001):** identification, analysis and description of all significant landscape features within the Albany, Greenhithe, Paremoremo and Long Bay / Okura parts of North Shore City - for North Shore City Council.

East Tamaki Catchment Management Study (2001): **analysis of landscape and open space values in the East Tamaki catchment leading to recommendations in relation to future open space provision and park acquisition - for Beca Carter & Manukau City Council.**

**Whangarei District Coastal Management Study (2003):** assessment of the landscape values and 'carrying capacity' of settlement areas down the eastern Whangarei coastline leading to recommendations about future development and conservation strategies - in relation to: Oakura, Moureeses Bay, Woolleys Bay, Matapouri, Pataua South & North, Ocean Beach, Urquharts Bay, Taurikura, Reotahi and McLeods Bay - for Beca Carter & Whangarei District Council.

**Waitakere City Northern Strategic Growth Area Study (2000 - 2001 & 2003):** Analysis of existing landscape features, character areas and resources within the Whenuapai / Hobsonville / Brighams Creek catchment as the basis for evaluation of future growth options. This work includes the identification of key landscape sensitivities within the catchment, the identification of development constraints and opportunities in relation to the local landscape and the preliminary assessment of effects associated with shifting Auckland's MUL in the subject area - for URS New Zealand Ltd and Waitakere City Council (Eco Water). In 2003 this work was extended to cover Herald Island and the Red Hills area - for Landcare Research.

**Franklin District Rural Plan Change Study (current):** responsible for re-evaluating most of Franklin District - in relation to landscape values, sensitivities and residential development potential / appeal - to determine areas that present opportunities for residential growth, rural areas that should be specifically excluded from rural-residential development and generic features that should be conserved throughout the District - for Franklin District Council.

**Assessment of the Auckland Region's Landscape (1983-4):** region-wide appraisal of both the aesthetic quality and the visual absorption capability of different parts of Auckland's extra-urban landscape (covering 425,000 has). This study involved breaking the Region down into 633 landscape units and incorporated a public preference study with over 1100 public participants. It has enabled planners to come to terms with both public perceptions of landscape value and the relative vulnerability of different parts of the Region to development - for the ARC.

**Whangarei District North-eastern Coastal Settlements Assessment (1996):** assessment of key landscape features and elements that should be conserved to help define the margins of urban growth around Whangarei District's north-eastern coastline - from Ocean Beach in the south to Oakura and Whangaruru - for Whangarei District Council.

**Volcanic Cone Sightlines Review (1997 - 2003):** appraisal of current sightlines to Auckland's volcanic cones leading to suggestions about the addition, deletion and location of sightlines, and the specification of controls in relation to each - for the ARC and Auckland City Council.

### **Structure Planning:**

**Lincoln Village (2007 - 2009):** preparation of development concepts for a 130ha major residential extension to Lincoln Township, connected to Lincoln University, including a commercial / entertainment centre, town-housing, conventional and large lot residential development built around an extensive network of ponds, streams, open spaces and recreation areas – for Ngai Tahu Properties & Lincoln University.

**Remarkables Park:** development of concepts for the residential, retail, school and reserve components of a wider master plan that includes a new village centre and conference centre, in conjunction with landscape concepts and detailing for all components of the Remarkables Park development – for Remarkables Park Ltd.

**Omaha Park Development (2006):** preparation of concepts and development strategies for the development of 650ha.s of rural land on the Takatu Peninsula near Tawharanui Regional Park and Omaha South, including accommodation of: a medium / high density seaside village with up to 850 residential units (apartments to semi-detached houses) and a commercial centre; a golf course and 31 independent houses in clusters; a 200 bed hotel; a 50 bed lodge; 11 rural lifestyle lots; areas for water supply and effluent disposal, and nearly 240ha.s of conservation land - for H. Hauser & the Porter Group

**Cardona Village (2006-7):** development of concepts for a comprehensive village development, including visitor accommodation, commercial and residential development, a pedestrian 'main street', plazas & integration with both the Cardrona River & historic pub – for Brooklyne Properties

**Pebble Bay (2006 -):** site analysis of 250ha near Ruby Bay in Tasman District, leading to preparation of concepts for 7 coastal large lot properties, a coastal village (44 units), a 10,000m<sup>2</sup> conference centre and commercial development set among lakes and a native wetland forest (to be re-established), a hotel and visitor village (62 units), a country village (38 units, 80ha vineyard and winery - for A Trent.

**Cardrona Village (2006 -):** development of concepts for a 15ha alpine village and residential development, incorporating a pedestrian mainstreet flanked by 2 - 4 storey hotels, apartment and commercial development, connections to the historic Cardrona Pub, a riverside promenade, provisions for over 500 car parks and development of a nearby residential community (220 units) across Soho St - for Brooklyne Holdings Ltd.

**Weiti Forest Park (2005):** detailed land analysis and preparation of structure plan concepts to provide the basis for determining future planning strategies for a 900ha block of forest covered coastal land near the Weiti River and Hauraki Gulf; also providing the basis for land compensation costings in relation to a future road link across the Weiti Estuary to the Whangaparaoa Peninsula - for Rodney District Council

**Matiatia Village Development (2002 & 2004):** development of concepts for the development of a new maritime village 'gateway' to Waiheke Island, incorporating three main plazas, a coastal promenade and connections with the Waiheke ferry terminal, two to three storey retail development, potential visitor accommodation and conference centre, education facility, parking (the majority under the village core) for up to 500 vehicles, and an extensive wetland area combined with stormwater ponds, revegetation and recreation areas - for Waitemata Infrastructure Ltd.

**Long Bay Structure Planning & Design (1998 - 2005):** design team leader for preparation of development concepts for approx. 400 ha.s of land that is to be urbanised – encompassing: residential development designed to accommodate approximately 2000 households, a commercial / community centre, a comprehensive roading network, walkways, connection with & extension of Long Bay Regional Park, new reserves, and an extensive stormwater management system – for the Long Bay Structure Plan Group (representing North Shore city Council, the Auckland Regional Council, Durafort Investments & other local landowners).

**Whangarei District Coastal Management Study (1996 & 2003):** assessment of the landscape values and 'carrying capacity' of settlement areas down the eastern Whangarei coastline leading to structure planning recommendations in relation to future development and conservation strategies - for: Oakura, Mourees Bay, Woolleys Bay, Matapouri, Pataua South & North, Ocean Beach, Urquharts Bay, Taurikura, Reotahi and McLeods Bay - for Beca Carter & Whangarei District Council.

**Rotokauri Structure Plan (2001):** Appraisal of the landscape features, character areas and resources found within the Rotokauri area (in the north-western corner of Hamilton City's boundaries) contributing to the development of different urban growth scenarios for this area. This work includes the design / preparation of those scenarios, including the identification of areas appropriate for different forms and density of

residential, commercial and open space development, together with roading and a comprehensive stormwater management network \_for Beca Carter Hollings & Ferner and Hamilton City Council

**Albany, Greenhithe and Okura Structure Plans (1996-8):** detailed analysis of the landscape character and values of all three catchments providing input about development constraints and opportunities for each, as a foundation for structure plan options; involvement in the development of more detailed neighbourhood unit plans addressing land use distribution, roading, reserve and stormwater management networks – for North Shore City Council.

**Patumahoe North Structure Plan (1997-8):** preparation of land use development scenarios for discussion with town residents as a basis for expansion to the town's urban limits and provision of a range of housing and lifestyle options – for Franklin District Council

**Katikati & Omokoroa Structure Plans (1999):** responsible for the development of an urban design framework to guide future urbanisation at both locations – incorporating a range of residential densities and housing types (from multi-unit to large lot), commercial and industrial development, community facilities, roading, stormwater reserves and recreation reserves – for Western Bay of Plenty District Council.

**Harbour View Development (1993-2000):** responsible for preparation of concept plans for the development of 106 ha.s of land overlooking the Waitemata Harbour - incorporating residential development, restoration of a major wetland on coastal flats, reserves & open spaces - for Surelight Development Ltd (Hong Kong / China). In 1997 engaged by Waitakere Properties Ltd to prepare detailed design for the streets and open spaces of Stages 1 to 5.

**Weiti Station Development (1996- 1999):** preparation of a structure plan and concept for rural-residential development on a 400 ha farm in southern Rodney District, including the identification of areas for a community centre, and equestrian centre, cluster housing (approx 160 units), roading & walkways, stormwater ponds and wetlands, re-vegetation and retention of some grazing - for Green & McCahill Ltd.

**East Tamaki Catchment Management Plan (2000 -1):** assessment of landscape values throughout future urban catchment & identification of potential open space nodes, evaluation of potential open space corridors and preparation of indicative costings for rehabilitation of those corridors - in conjunction with Beca Carter Hollings & Ferner for Manukau City Council.

**Albany Civic Centre Development (1997-8):** development of design concepts for staged development of the Civic Centre Lake Reserve area and Civic Crescent, incorporating multiple lakes and water features, pedestrian plazas and terraces, recreation areas, parkland, and potential civic and commercial development sites - for North Shore City Council.

**Viaduct Basin Development Concepts (1989 - 94):** preparation (with Clinton Bird) of the initial concepts for the Viaduct Basin including reformation of the existing basin, rearrangement of the fishing fleet berthage, two international hotels, 20,000 sq metres of space for retailing, entertainment, commercial activity, accommodation, plazas and a park: providing the basis for the special zone applied to the Viaduct Basin area - for the Ports of Auckland Company, Fletcher Challenge Developments and Turners and Growers Ltd; Auckland City Council in 1993-4.