

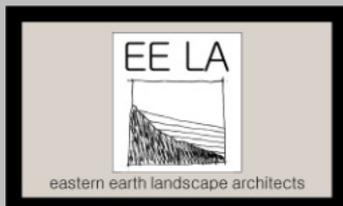


CONSULTANT PROFILE – 2011
Infrastructure PROJECT EXPERIENCE



Sue Dick

EASTERN EARTH
LANDSCAPE ARCHITECTS
www.e2la.co.nz



Part 1

*EASTERN EARTH LANDSCAPE
ARCHITECTS EXPERIENCE*

WAIROA DISTRICT COUNCIL
OPOUTAMA GATEWAY: 2009-2010
NOR for road re-alignment &
Regional Consent for waste water treatment plant

Landscape and Visual Effects Assessment

EELA was part of a hand-picked team to prepare a time-limited AEE for a Notice of Requirement and Resource Consent for a new road and waste water treatment scheme in the back-dunes of the Mahia isthmus, serving the small community of Opoutama. The client - the Wairoa District Council - was chasing a pre-Christmas deadline involving the close-off of Health Department subsidies for the project. A four-month lead-time for dual consent lodging was announced. The team formed swiftly, worked intensely and the desired results were produced, with the project consents being lodged prior to Christmas, 2009. Feedback from the client was glowing.

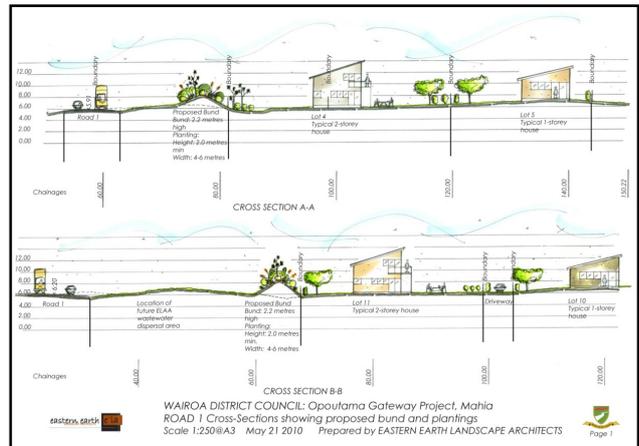
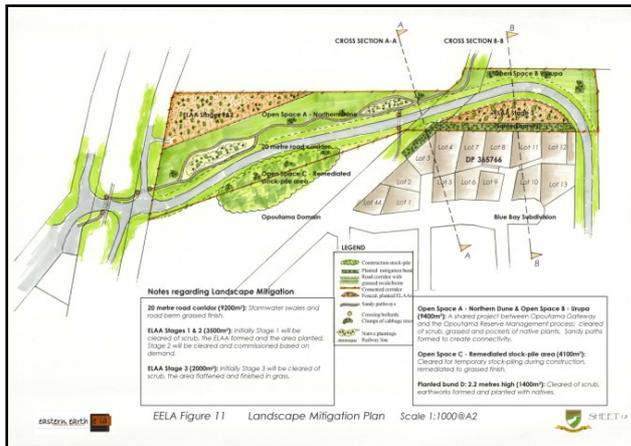
Throughout the project, intra-team liaison was crucial and EELA liaised most closely with the project manager, the planner and the road design engineer/surveyor. Very early on, advocacy by EELA for preservation of natural character of the local environment led to a significant refinement of the drafted road corridor for the new road through the back-dunes. Retention of a significant back-dune-form fostered considerable gains towards the landscape goal of integrating the finished road well into the existing environment. Familiar with the reserve context for the new road from earlier reserve management planning work (2006), EELA was able to incorporate key concepts from the reserve planning process, including creation of linking cycleways/walkways to the north and south of the new road, contributing to an inter-connected finished community landscape. One of the few submitters opposing the road alignment brought to the fore visual issues namely the proximity of the new road to the new 44 lot subdivision to the south of the road and more particularly to his lot within the subdivision. Mitigation cross sections were prepared by EELA to illustrate the proposed planted bund that would enable views to the road to be screened from the submitter's property, resulting in agreed mitigation conditions that met the requirements of this submitter.

PROJECT GRAPHICS:



Two 'Artist's Impression' graphics: Public consultation & media releases

"Oraka resident Sue Dick has done fantastic work for council in the past and is again providing landscape architectural support"
 Wairoa Star, Sept 15th 2009. Neil Cook Engineering Manager, Wairoa District Council



AEE Evidence: Mitigation Plan & Cross-Sections

*GISBORNE DISTRICT COUNCIL
BANKS STREET, WASTE WATER TREATMENT PLANT: 2008*

Landscape and Visual Effects Assessment

EELA was engaged by the Gisborne District Council to work with Beca architects, engineers and consents planners to prepare the landscape & visual effects assessment for its proposed waste water treatment plant in Gisborne. Initial investigations involved the high-profile Stanley Road site where waste storage tanks would have had a highly visible profile close to the Poverty Bay coastline. However in a swift and inspired move, land was secured in the general industrial area adjoining Awapuni Road this became the site of choice for project design, consent and construction.

The visual and landscape assessment report was prepared by EELA in liaison with the Beca design and consents team. The visual assessment completed by EELA led to the selection of several view points for the preparation of photomontages by Beca Architects. The view points demonstrated the small visual catchment for the project and the assessed low impact form and scale of the proposed plant. The height of the building and tank were assessed as not being out of scale with other industrial buildings in this location. EELA concluded that its location within the existing Gisborne industrial zone would result in visual coherence of form and character that would complement its setting. EELA advocated for eventual enhancement of riparian planting and the formation of linkages to proposed riparian walkways in keeping with the District Council walkway strategy.

In June 2011, EELA was able to see through the operational plant and re-check view points to ascertain the actual impact of the proposal. The result couldn't have been more accurately predicted by the photomontages and the plant sits unobtrusively within its industrial site. Architectural detailing on the buildings and tank lift the finish into the realm of 'smart industrial'.

SITE PHOTOMONTAGE:

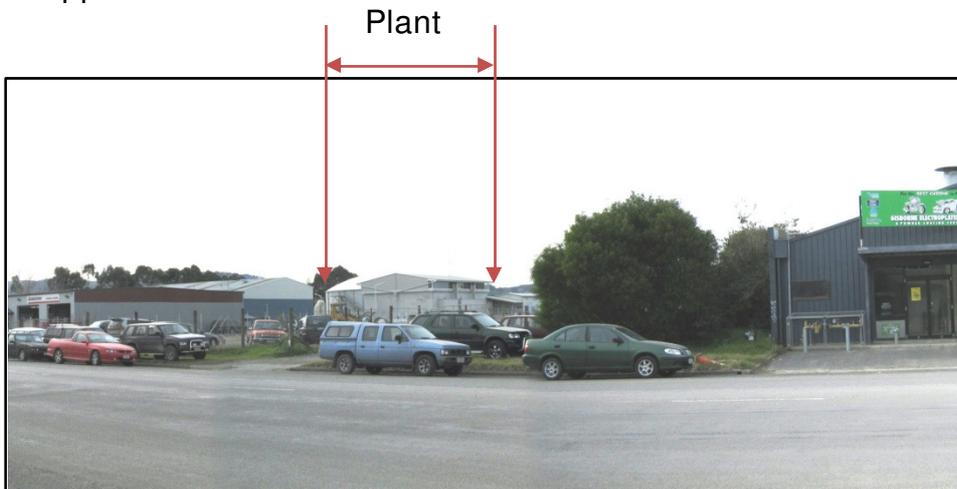
Site Viewpoint 2 From Bank Street 2008



Site Photomontage 2 [Photomontage courtesy: Beca Architects]



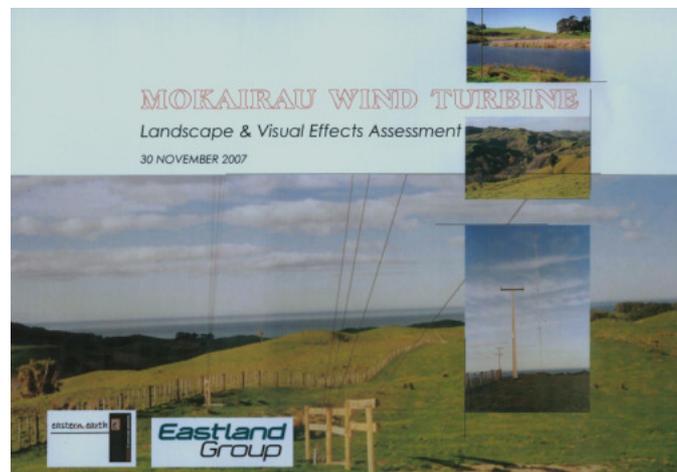
Actual plant appearance June 2011



EASTLAND INFRASTRUCTURE LIMITED MOKAIRAU WIND FARM: 2005-2006

Landscape and Visual Effects Assessment

During 2005 - 2006, Eastland Infrastructure Limited explored the possibility of introducing 4 wind turbines into the hills north of Gisborne at Mokairau. Although these explorations were subsequently shelved, a landscape and visual effects assessment was prepared by Eastern Earth Landscape Architects. Liaison took place with Truescape regarding preparation of simulations of the project, and site investigations were completed by land and sea to complete these. One simulation was completed before the project was shelved for technical and cost reasons. In 2007 a one-turbine option was resurrected by EIL and a final effects assessment completed.



Windfarm Simulation [courtesy of Truescape Ltd & EIL]

WAIROA DISTRICT COUNCIL MAHIA WASTEWATER SCHEME: 2006-2007

Landscape & Visual Effects Assessment & Mitigation Planting Plan

During 2006 – 2007, Eastern Earth Landscape Architects was engaged by the Wairoa District Council to prepare a landscape and visual effects assessment of the proposal to develop a wastewater treatment scheme within the Mahia isthmus landscape, and to review the scheme design in terms of its receiving environment and minimisation and mitigation of adverse effects. A thorough assessment of the receiving landscape enabled several mitigation measures to be implemented in the design that would improve the appearance of the final scheme in the chosen site. This project involved liaison with several engineers from MWH, as well as the Wairoa District Council Engineer. Following lodging of the consent, community consultation raised objections to the project, particularly on cultural grounds and the proposal to develop the scheme on this site was abandoned.



Part 2

*BOFFA MISKELL LIMITED
EXPERIENCE*

*CHRISTCHURCH CITY COUNCIL
BROMLEY SEWAGE TREATMENT WORKS: 2001*

Landscape & Visual Effects Assessment
Client: Environment Canterbury

This project undertaken at Boffa Miskell in 2001 involved preparation of a submission on behalf of Environment Canterbury (Ecan) for the resource consent application by the Christchurch City Council to undertake reclamation work within the Avon/Heathcote estuary and discharge treated sewage into the estuary. The planning application and AEE had been prepared by URS, seeking consent to extend the Council's current waste disposal methods for a future term. BML was engaged by Ecan to undertake an assessment of the landscape and visual effects of this proposal as part of their submission, and Sue Dick was actively involved in the preparation of this under Alan Rackham, landscape planner and Managing Director, BML.

*MIGHTY RIVER POWER HYDRO SCHEME
WAIKATO RIVER CONSENTS RENEWAL: 2002*

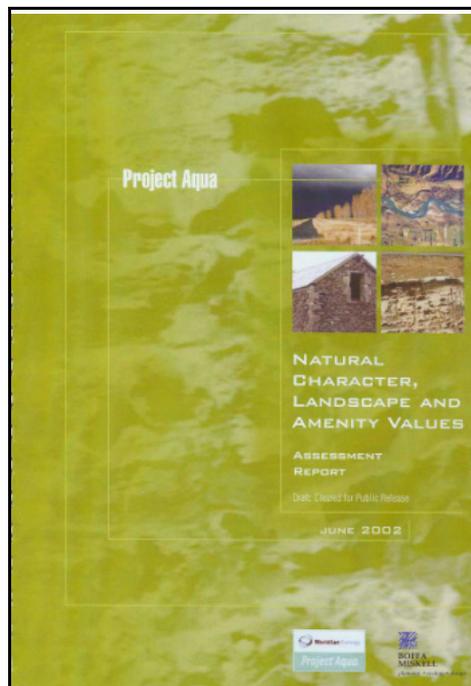
Landscape & Visual Effects Assessment

Working with Don Miskell at Boffa Miskell Limited in 2002, this project involved the 35 year renewal of Mighty River Power's consents for its hydro schemes on the Waikato River. Sue Dick was delegated the role of site investigations with the client in Hamilton, involving assessments by water, land and air (flying from Lake Taupo to the river mouth). Thorough natural character assessments were undertaken of the river and its lakes and observations of lowered water levels in lakes were undertaken. In addition, amenity assessments were completed for riparian and water sporting activities of all kinds. The considerable data gathered, including photography of all sites using a 50mm lens, were catalogued for evidence preparation by Don Miskell.

MERIDIAN ENERGY LIMITED PROJECT AQUA: 2001-2003

Assessment of Environmental Effects – Resource Consent Application

Over a two year period (2001-2003), Meridian Energy Limited engaged Boffa Miskell to undertake a range of site investigations for the preparation of its AEE for Project Aqua. Sue Dick was largely responsible (under Allan Rackham) for leading the Landscape Team in its assessment of effects both on the Waitaki River and the Valley landscape. Concurrent with this were constant reviews of the scheme design. Iterations of canal alignment were considered by the Landscape Team and management of the landscape, including protection of iconic landscape features, was part of the landscape brief. At times, this role involved meeting with engineers on site and mediating landscape solutions. Final output involved the production of an AEE report and a large graphic attachment to this report.



“For the last 2 years of her time with us, Sue was largely responsible for the landscape & visual effects assessment for the \$1.2 billion Meridian Project Aqua resource consent. Her very significant organisational skills, as well as her natural thoroughness and intellectual rigour were essential qualities on such a major and integrated exercise..... Her ability to know when to seek support and advice from others gave us confidence to let her manage projects that might have been expected to stretch someone with considerably greater professional experience.”

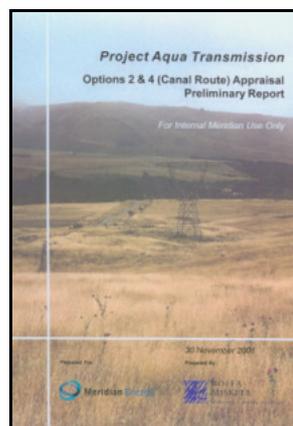
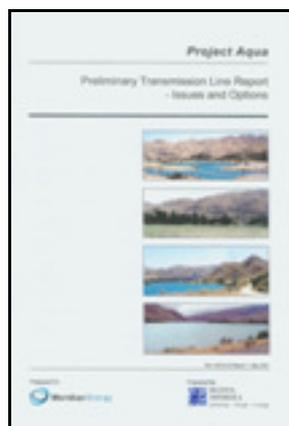
Alan Rackham, [then] Managing Director, Boffa Miskell Ltd, 2003 Referee

MERIDIAN ENERGY LIMITED PROJECT AQUA: 2000-2002

Transmission Investigations - Environmental Assessment & Route Selection

Over a three year period from 2000-2002, Meridian Energy Limited's Project Aqua on the Waitaki River necessitated detailed planning for transportation of its proposed newly generated power from its 6 power stations to locations where connections could be made with Transpower's national grid. Boffa Miskell Limited was commissioned by Meridian to undertake an independent analysis of environmental issues pertaining to route selection for the proposed 220kV double circuit transmission line on 30 metre towers. A number of technical options were considered over the three years engaged on this project and a wide range of consultation took place with the local community.

The approach undertaken for the studies, required detailed constraints mapping of a range of optional routes for the new lines down the Waitaki Valley. A number of site inspections was required and close liaison took place with Meridian's Generation consultant, a range of line engineers from Beca Carter, Line Links as well as engineers from Transpower.



Assessment of Environmental Effects – Resource Consent Process

Eventual selection by the Engineers of the canal route as the preferred transmission route required further detailed assessment, and preparation of an environmental effects assessment report with a specific focus on landscape, visual and amenity issues. In order to represent the appearance of the canals and power stations in the landscape a comprehensive range of simulations was prepared, both for the reporting process and for community and stakeholder consultation.

Under the leadership and supervision of Allan Rackham, landscape planner Sue Dick was involved in leading the landscape route selection procedures and preparing the landscape effects assessment.

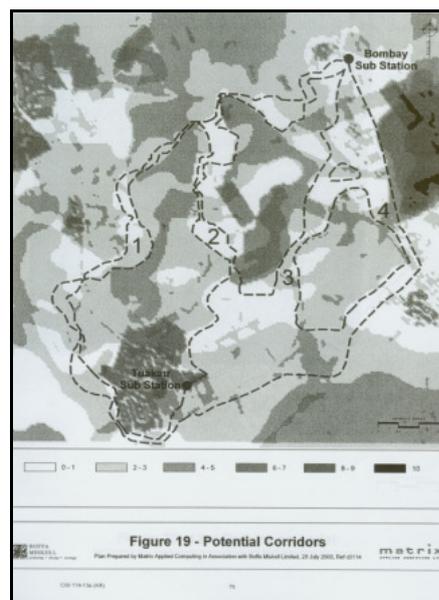
COUNTIES POWER LTD
TRANSMISSION INVESTIGATIONS: 2000
Bombay to Tuakau, South Auckland

Environmental Assessment & Route Selection

In 2000, Boffa Miskell Limited (Christchurch) was commissioned to prepare an independent environmental assessment for Counties Power Ltd to advise them in the selection of a suitable corridor for a new transmission line to run from Bombay to Tuakau, South Auckland. Counties Power had identified the need to up-grade the existing distribution system by replacing one partially complete 110 kV line and two 33 kV lines with two new 110 kV lines. The assessment used a 'constraints mapping' methodology and covered an area of more than 120 km². Briefs were prepared for a range of consultants in the following areas of expertise: geology, archaeology, ecology, landscape, planning and community/social. Environmental constraints were identified and mapped using GIS.

Under the supervision of Allan Rackham, landscape planner, Sue Dick was involved in identifying and assessing the landscape, visual and aesthetic constraints in the subject landscapes as well as completing the following range of tasks over the duration of the project:

- liaising with the consultants providing constraints assessments;
- collating the results and feeding these to the digital mapping consultant;
- analysing the results of mapping and generating 4 corridors and describing these in landscape terms;
- writing certain sections of the report (eg description of the existing landscape; description of the 4 corridors);
- Overseeing collation of the final report with graphics.



COUNTIES POWER LTD

TRANSMISSION INVESTIGATIONS: 2000-2001

Bombay to Opaheke, South Auckland

Environmental Assessment & Route Selection

In 2000-2001, Boffa Miskell Limited (Christchurch) was commissioned to prepare an environmental assessment for Counties Power Ltd to advise them in the selection of a suitable corridor for a new transmission line to run from Bombay to Opaheke, South Auckland. Following a similar methodology as used previously, briefs were prepared for a range of consultants and environmental constraints were identified.

Under the supervision of Allan Rackham, landscape planner Sue Dick was involved in identifying and assessing the landscape, visual and aesthetic constraints in the subject landscapes as well as completing the following range of tasks over the duration of the project:

- liaising with the consultants providing constraints assessments;
- analysing the constraints and generating 4 corridors and describing these in landscape terms;
- collating the results and showing possible routes on aerial photographs;
- writing certain sections of the report (eg description of the existing landscape; description of the 4 corridors);
- Overseeing collation of the final report with graphics