Visual Assessment Best Practice Methodologies [VBPM] LASC 698 Research Placement Report



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Research Placement Introduction

This report was completed for the NZILA in partial fulfillment of the MLA Research Placement paper at Lincoln University.

NZILA acted as the host for the research placement over a four week period in November 2006. Academic supervision was provided by the University.

Research Topic

Visual assessment best practice methodologies (VBPM) carried out by Landscape Architects in proposal assessment associated with resource consent applications in the coastal environment.

Proposal: discrete private or publicly funded development (e.g. subdivision) requiring resource consent.

Coastal environment: areas impacted upon by the RMA s6a) and the New Zealand Coastal Policy Statement.

Objective

To develop a description of core objective and subjective best practice steps/checkpoints in the visual assessment process associated with resource consent applications in the coastal environment.

Rationale

An assessment of visual (and landscape) effects is mandated by the RMA 91, Schedule 4 in the Assessment of Effects on the Environment (AEE) required as part of a resource consent application. Resource consent applications in the coastal environment are further influenced by sections of the RMA91 (in particular 6a) and 6b)) and the New Zealand Coastal Policy Statement. Current visual assessment methodologies are the subject of discourse within the profession. Methodologies are variable, make significant use of subjective criteria, and are often; presented at the Environment Court, contested by public submissions and the object of media attention. Research that focuses on current assessment practice using key professional informants may present the best opportunity to observe VBPM and the issues that surround it within the broader context of assessment.

Methodology

The research process:

- ◆ A literature review of current NZ and international VBPM guidelines.
- A desk study analysis of documented examples VBPM provided by a small number of key professional informants.
- Key professional informant interviews.

Professional informants in Christchurch were asked to critique the research proposal and the draft interview questions.

Professional informants in Hawkes Bay, Hamilton, Auckland and Whangarei were asked to provide examples of VBPM resource consent documentation for a coastal development in which visual assessment formed a significant component. These assessment examples were analysed to generate a flow diagram of common VBPM steps, associated anonymous examples and appendices of VBPM criteria and terminology.

In the interview the key professional informants were asked to:

- Summarise and evaluate their VBPM.
- Describe its significance and development within their wider assessment process.
- Nominate the key issues and potential research and professional development initiatives related to VBPM.

Professional Informant Interview Questions

- 1. What are the key steps used by your office in project VBPM associated with a resource consent application in a coastal environment?
- 2. In what steps are objective (quantifiable) and subjective (qualifiable) criteria used and how important are these in the overall process?
- 3. How does the use of visibility and simulation digital technology contribute to your VBPM?
- 4. How important and separate is the visual component in the overall resource consent assessment process?
- 5. What theories are these VBPM steps based on? For example:
 - Landscape theories related to
 - aesthetics
 - concept of landscape
 - landscape assessment
- 6. What other factors or processes drive the development or modification of these steps in your office? For example:
 - International VBPM
 - Consultation
 - Community values
 - Iwi values.
 - Statute and Council considerations
 - The NZ Coastal Policy
 - Sections of the RMA
 - Regional Council coastal plans, policy and coastal environment management strategies.
 - Regional Council and/or District Council plans
 - Outcomes and case law from EC hearings
 - The context of the resource consent application (building versus wind farm etc.)
- 7. What does your office consider to be the most important VBPM issues that would warrant further research or professional development?

NZILA Report

The assessment documentation examples and responses to the interviews were analysed to generate:

- ♦ A flow diagram of common VBPM checkpoints
- Assessment examples
- Assessment criteria and definitions
- A summary of the interview question responses

Abbreviations used

VBPM Visual Assessment Best Practice Methodologies

RMA Resource Management Act 1991

NZCPS New Zealand Coastal Policy Statement

ONF/L Outstanding natural features and landscapes

NC Natural Character

RC Regional Council

RP Regional Plan

RPS Regional Policy Statement

DC District Council

DP District Plan

EC Environment Court

Report Summary

This report is divided into 4 sections. It summarises the analysis of assessment documentation and interview responses provided by key professional informants in 10 Landscape Architect firms in Hawkes Bay, Hamilton, Auckland and Whangarei.

The VBPM Flow Chart, Assessment Examples, Assessment Criteria and Definitions and Interview Responses presented here are intended to facilitate the development of NZILA approved VBPM.

Section 1: VBPM Flow chart

The VBPM flow chart presented in this section details a possible process and a series of assessment checkpoints in a visual [and landscape] effects assessment associated with a resource consent application.

Varying order and inclusion of check points as detailed in Section 2 of this report indicate the use of context specific assessment methodologies that have a common core.

The VBPM Flow Chart assumes best practice methodologies are evident i.e. that they can be generated through the combined analysis of resource consent assessment documentation provided by the professional informants and responses to the first interview question. Further research, consultation and clarification may contribute to the validity of this assumption.

Section 2: Assessment Examples

Assessment documentation provided by the professional informants was used in this section to generate anonymous examples of visual [and landscape] effects assessment process detailing the key steps:

- Purpose and assessment methodology used including: criteria and key terms used, assumptions, limitations and rationale.
- Relative objectivity (defined at the beginning of the Section)
- Secondary sources
- Presentation technique

Analysis of the assessment examples indicates the use of a context specific assessment process which is based on a core of objective criteria and common assessment checkpoints.

Section 3: Assessment Criteria and Definitions

Examples of landscape and visual assessment criteria and definitions identified in the professional informant assessment documentation were summarized in this section of the report. The order [of headings] reflects a possible process of landscape and visual effects assessment

The development of a greater level of common key assessment criteria and definitions was indicated as a priority by most professional informants.

Section 4: Professional Informant Interviews

This section summarises the professional informant interview responses and where appropriate indicates frequency of response. Further issues and opportunities discussed relating to the broader contexts of assessment, design and the profession, are also highlighted.

Valuable professional development and research initiatives may be generated as a result of clarification of issues and opportunities raised in this section and establishment of their level of importance within the profession.

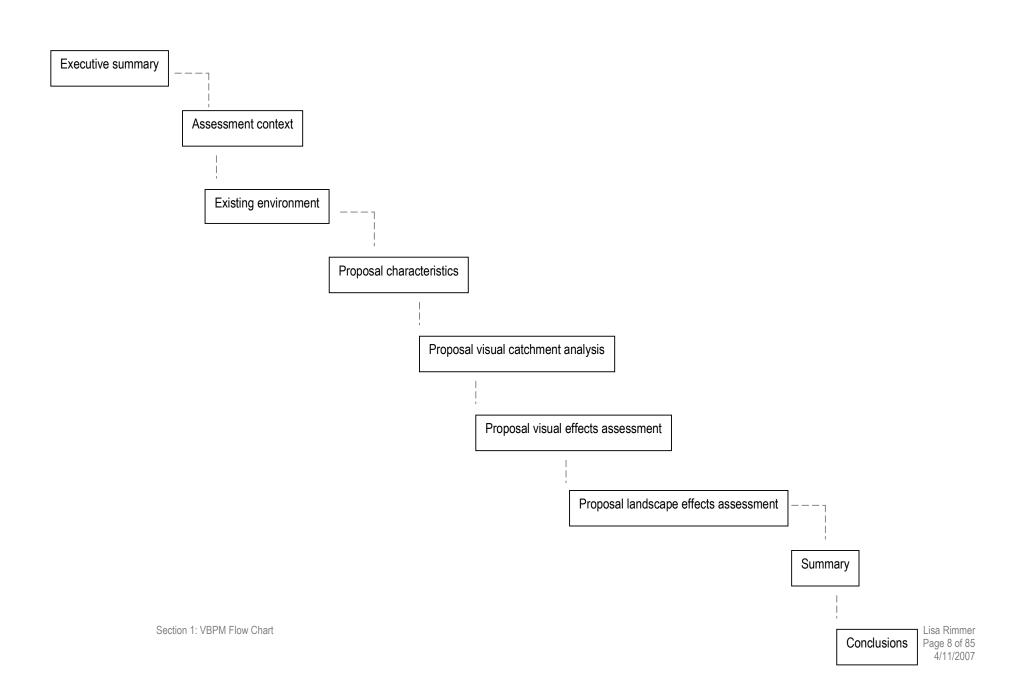
Section 1: VBPM Flow Chart

The VBPM Flow Chart was generated on the assumption of evident best practice methodologies i.e. VBPM may be generated through the analysis of resource consent assessment documentation provided by the professional informants and responses to the first interview question (see Introduction and Section 4: Professional Informant Interviews).

The VBPM Flow Chart highlights the visual effects assessment process within the wider context of a landscape and visual effects assessment related to a resource consent application.

Detailed analysis of landscape effects assessment methodologies were beyond the scope of this research placement. This reflects the pragmatic considerations of a four week placement.

The text boxes in the Flow Chart are deliberately not numbered i.e. the assessment process may not 'flow' in the direction indicated. The chart reflects a possible process and a series of check points [described in the subsequent pages]. The absence of particular check points in the assessment examples included in this report (Section 2) and in any specific assessment process indicates the use of professional judgement in their application/inclusion.



Executive summary

◆ Summary of assessment findings

Assessment context

- ◆ Scope and purpose of assessment including client details, application history, prior assessor involvement and details of the proposal application e.g. subdivision and land use consent, (assumed) discretionary activity in ## Zone within the ## District.
- ♦ Other proposal specific assessment documentation forming part of this application e.g. a proposal site ecology assessment.
- ♦ Secondary sources used i.e. additional proposal specific documentation including past landscape and visual assessments and non proposal specific documents e.g. Regional landscape assessment documentation.
- ♦ Summary of methodology used including rationale, limitations, key terms, secondary sources/references-other assessments, reports etc.

Existing environment

- ♦ Regional/district biophysical and cultural elements, characteristics, character, and landscape and visual values/importance/significance.
- ♦ Proposal site biophysical and cultural elements, characteristics, character, and landscape and visual values/importance/significance.
- ♦ Relevant statue/planning context: national, regional, district issues, objectives, policy statements, status, zoning provisions, rules, management plans, structure plans, design guidelines, case law etc including....
- ◆ Evaluation of area/proposal site key biophysical and cultural sustainability issues/opportunities and foreseeable/planned landscape and visual change.

Proposal characteristics

- ◆ Location, formal qualities (size, colour, scale etc.).
- ♦ Identification of components of the proposal that may contribute to effects over time.
- ◆ Design iteration process [if appropriate] (including strategies used or that could be used to create positive and avoid adverse effects and address statute and planning context including area/site key sustainability issues and opportunities).
- ◆ Public consultation process used (direct/indirect methods) and summary of findings/impact on proposal design process.

Proposal visual catchment analysis

- ♦ Methodology description, criteria used rationale, assumptions, limitations, secondary sources, and key term definitions.
- ◆ Proposal visibility/visual catchment identification and description.
- ♦ Key view point and/or critical zone of visual influence identification/selection i.e. where there is potential for effects that are 'less than minor' (positive or negative).
- ◆ Viewing audience identification/selection and description (types, numbers, location).

Proposal visual effects assessment

- ♦ Methodology description, criteria used, rationale, assumptions, limitations, secondary sources, and key term definitions.
- ♦ Visual change description from key viewpoints/critical zone of visual influence resulting from the proposal.
- ♦ Proposal region/district/area/site sensitivity identification (including influence of DP/RP permitted foreseeable change) and evaluation of ability to absorb visual change resulting from the proposal.
- ♦ Viewing audience/s sensitivity identification (including influence of DP/RP permitted foreseeable change) and evaluation of ability to absorb visual change resulting from the proposal.
- ◆ Evaluation of visual effects (type: positive, neutral, adverse and level: less than minor, minor, moderate, significant) of the proposal from each key view point and/or the critical zone of visual influence over time (during construction, year 1, 5, 15 for example).
- ♦ Further adverse visual effect avoidance, remediation and mitigation recommendations and an evaluation of their visual effects.
- ◆ Proposal visual effects statute/planning context compliance including...
- ◆ Evaluation of proposals visual effects contribution to area/site key sustainability biophysical and or cultural issues/opportunities.
- ♦ An overall evaluation of the proposals visual effects on the existing site/region character, values/importance/significance and compliance.

Proposal landscape effects assessment

- ◆ An in-depth analysis of landscape effects assessment is beyond the brief of this research project.
- ♦ The assessment context, existing environment and the proposal characteristics 'steps' contribute to both processes.
- ♦ Other commonalities in process can be observed e.g. landscape effects statute and planning context compliance including proposal landscape effects contribution to area/site sustainability issues/opportunities.
- ◆ Analysis and evaluation of landscape effects may contribute to the visual effects assessment process and vice versa e.g. in the selection of critical viewpoints.
- ◆ Landscape effects analysis and evaluation will similarly conclude with;
- ♦ An overall evaluation of the proposals landscape effects on the site/district/regions character, values/significance/importance and compliance.

Summary

- ◆ Summation of the proposals overall landscape and visual effects.
- Summation of the proposals statutory and planning compliance.

Conclusion

◆ Statement of support or otherwise for the application.

Section 2: Assessment Examples

Professional informants in Hawkes Bay, Hamilton, Auckland and Whangarei were asked to provide an example of assessment documentation related to a resource consent application in the coastal environment.

All respondents emphasised that VBPM are carried out as part of a combined landscape and visual effects assessment (as required under Schedule 4 of the RMA) for activities requiring resource consent. Other assessment documentation (for example; transport, roading, noise and ecological reports) may also be associated with the resource consent application.

Each assessment document has been analysed and summarised describing the key steps:

- Purpose and the assessment methodology used including: criteria and key terms used, assumptions, limitations and rationale or theoretical underpinnings.
- ♦ Relative objectivity (see below)
- Presentation
- Secondary sources that were used.

For the purpose of analysis it was assumed that:

- Objective criteria will generate an assessment (using words, graphics and numbers) that is relatively independent of assessor influence/perception and generically applied. For example, an assessment of the proposals visual characteristics will generate the same assessment when using undisputedly relevant formal criteria; size, colour, location etc.
- Objective/subjective criteria will also generate an assessment (using words, graphics, and numbers) that is relatively independent of assessor influence/perception. However, it can be recognised that other criteria may have [justifiably] been applied. For example, in determining visual sensitivity of a particular viewpoint the proposals degree of contrast with its surroundings may or may not be used to assign a greater level of sensitivity.
- Subjective criteria will generate an assessment (using words, graphics and numbers) that is dependent on assessor influence/perception i.e. where other criteria could have been applied and the resultant assessment varies markedly with the assessor. For example in the assessment of viewpoint sensitivity the formal characteristics of the proposal are evaluated by one assessor to be in significant contrast with the surroundings and by another to be in moderate contrast.

The examples included in this section vary in terms of decision making body lodgement (EC, RC, DC), client (developer/s, Regional or District Council, members of the public) and assessor position (support for or against resource consent).

Apartment	pg 13
Hotel	pg 19
Marina	pg 23
Subdivision (3)	pg 29
Wind Farm (2)	pg 43

Apartment resource consent- EC hearing evidence f		4:
Steps	Objective/Subjective	
Scope of the assessment	Resources Objective The Brief.	Presentation
 -description of site and proposal features. -analysis of visual effects of the proposal in the visual catchment with respect to the viewing audience. -analysis of the visual implications of the proposal. -review of the proposal DP compliance. -extent of site visits. 	Previous proposal specific assessment-same authorassessment of the 'landscape' implications of the proposal.	Descriptive text.
2. Proposal setting -description of the wider and immediate biophysical and cultural characteristics of the area in the vicinity of the proposal site including DP zoning. -identification of differing 'segments' with differing "" characteristics within the wider proposal area.	proposal area. Objective/subjecti -selection of propos Subjective -evaluation of curre 'appeal' of compone existing component defining edge or 'fra	al area characteristics. Int characteristics e.g. ents, the importance of

Apartment resource consent- EC hearing evidence f	or developer	
Stone	Objective/Subjective	ctive
Steps	Resources	Presentation
3. Proposal description -proposal characteristics including design modifications made post DC hearingevaluation of potential visual effects of apartment buildings (with reference to avoiding; dominance, intrusion, buildings of commercial or institutional character)rationale for rejecting apartment footprint and profile that would have complied with DPdescription of effects of proposals proposed landscape treatment plan.	Objective -description of the pand alternatives col- description of propilan. Subjective -evaluation of exter dominance of chosprofileevaluation of the liproposed landscap- evaluation of the eproposed landscap visual effects of the soften and 'de-scale	proposal characteristics insidered. Proposal and scape treatment of visual intrusion and the ending and the ending and the ending and the ending are treatment of the proposals of the ending are treatment plan on the ending are the internal aesthetics are ameliorating or

Apartment resource consent- EC hearing evidence for	Objective/Subjective	
Steps	Resources	Presentation
4. Proposal impact -description and criteria of adverse impacts (discontinuity with existing environment and DP provisions including those permitted in foreseeable future).		osal visual catchment. osal viewing audience.
-identification of DP assessment issues/criteria (neighbours' amenity, integration with surrounding development).	Objective/subjecti -selection of DP/RF -selection of criteria	issues.
-"" RPS assessment issue/criteria (impact on natural character values).	Subjectivedetermination of t	he overall value, ating for each viewpoint.
-identification of proposals visual catchment.	-evaluation of view	points overall impact
-identification of viewing audience groups (residents, travelers, shoppers, beach goers, boaties, farmers, recreators).	ranking (low/moderate/high)focus of assessment on integration with existing and foreseeable development.	
-identification of key proposal view points.	DP, RPS.	Descriptive text, Appendices;
-evaluation of individual viewpoint landscape value (criteria: composite aesthetic value, spatial structure, natural character, urban pattern and form) and sensitivity (criteria: elevation and prominence, land uses, topography, vegetation cover, views).		Photographs from view points. Photographic simulations from key view points of proposal
"" of proposal effects at each viewpoint (relating to: residential amenity losses, surrounding development integration, natural character losses with effect modifiers: distance to site, relative topography/elevation, sites context, and intervening development/vegetation).		Table of viewpoint landscape values sensitivity, proposal effects and overall impact rating.
-"overall impact rating at each view point (low/moderate/high).		

	Objective/Subjective	
Steps	Resources	Presentation
5. Overall effects of proposal on residential and visual amenity -evaluation of proposals residential amenity beneficial effects compared with complying alternative (reference made to: open space, view shafts, deliberate segmentation of proposal, relationship to existing	-description of proposals chara using sketches. Subjective -overall evaluation of proposal residential visual amenity e.g.	osals characteristics of proposal effect on menity e.g. "relate well to
residential mix, planting effects, relationship to local terrain profile, relationship to scale and size of existing buildings, main views from surrounding properties, privacy, buffering/screening).	Past proposal specific assessment-same author. DP proposed.	Descriptive text. Secondary source drawings of proposal apartment footprint and profiles.
6. Overall effects of proposal related to design and appearance of the proposal -description of current residential development in proposal area. -evaluation of proposal integration with existing development. -"" foreseeable development permitted by zoning/present in wider area. -description of proposal characteristics that contribute towards integration (e.g. building profile, footprint and facades). -overall evaluation of proposal compatibility.	proposed DPdescription of prop Subjective -evaluation of curred development 'pleas unremarkable'evaluation of contromponents of the residential development in the residential development in the proposed DPevaluation of proposed DP.	santly attractive, rasting and merging proposal with existing ment. psals potential to integrate evelopment related to

Apartment resource consent- EC hearing evidence f		
Steps	Objective/Subjective/S	
	Resources	Presentation
Leffects on natural character and features lescription of proposals effects on nature/culture lealance. Inversal evaluation of proposals effects on natural learacter including reference to DP zoning foreseeable lefects. Invaluation of proposal colour scheme as mitigation for lotential loss in natural character.	area surrounding produced quotes from Subjective -evaluation of proportion atural character cu	osals adverse effects on urrent and foreseeable is of proposals colour
	DP, previous proposal specific DC hearing assessment documentationsame author.	Descriptive text, photographs of proposa site area.
tatutory considerations	Objective -direct quotes from secondary sources.	
-DP (reference made to: Zoning- building height, maximum floor space proposed variations to rules). -overall evaluation of proposal zoning rule compliance linked with effects of complying alternative.	Objective/Subjecti -selection of approp considerations.	ve
-evaluation of proposal compliance with R Coastal Environment Plan (proposed) policies related to; sprawl, loss of natural character, cumulative effects, outstanding features and landscapes, cumulative coastal landscape qualities-channels, tidal flats etc., new development criteria-blend and maintain visual amenity.	rules for part of the -evaluation of proporelation to zoning ru -evaluation of proporactivity statusevaluation of overawith policies in RCE	alidity of current zoning proposal. osals overall impact in ales in adjoining sites. osals limited discretionary all impact or compliance EP e.g. of ONF/L. "effects or minor in their degree".
	DP, past proposal specific assessment documentation-same author, proposed regional coastal environment plan.	Descriptive text, direct quotes form secondary sources, Proposal drawings from secondary sources.

Apartment resource consent- EC hearing evidence for developer		
Chana	Objective/Subjective	
Steps	Resources Presentation	
9. Conclusions.	Objective -direct quotes from	secondary sources.
-overall evaluation of proposal effect on integrity, amenity values and character. -overall evaluation of proposal statutory compliance; DP RCEP (proposed), RMA 5 (social, economic and cultural wellbeing). Section 104, 6a), b). 7 c) and f).	Objective/Subjective -selection of statutory considerations.	
	Subjective - overall evaluation of proposals and compliance with statutory considerations.	
	RMA, DP, RCEP (proposed)	Descriptive text.

Steps	Objective/Subjective	
	Resources	Presentation
1. Scope of assessment	Objective The Brief.	
to determine the potential effects of proposal (linked to ONF/L status).	Proposal specific resource consent	Descriptive text.
site visits (extent and purpose). secondary sources-proposal specific resource consent application documentation, same EC hearing expert evidence.	application documentation and same EC hearing documentation.	
2. Statutory context RMA s3 effects, 6a), 6 b), 7 a), 7c), 7 f), s104	Objective -direct quotes from RMA.	
relevance.	RMA	Direct quotes, descriptive text.
3. Landscape context -definition of landscape linked to proposal site area.	Objective -direct quotes form secondary sources. Subjective -selection of landscape definition sources and links with proposal site area.	
	Past district specific OL assessment documentation, past EC Wakatipu ES vs. Queenstown Lakes DC 1999 documentation.	Direct quotes, descriptive text

Ţ.	Objective/Subjective Resources Presentation	
Steps		
4. DP provisions	Objective -direct quotes from	DP.
-ONF status of proposal site and evaluation of characteristics of the proposal site that contribute to its ONF status.	Objective/Subjective -selection of objectives and policies.	
-evaluation of proposal compliance with:	Subjective	
 relevant objectives (ONF/L-avoidance of visual compromise, Coastal landscape units-variety; retention and enhancement, Subdivision-adverse visual and landscape effects mitigation). 	-evaluation of propo	ws from and across bay osal rule
 relevant policies (ONF/L identification, scheduling and listing of ONF/L characteristics, restrictions on building etc. in ONF/L, anticipated outcomes of policies e.g. no visual compromise to ONF/L). 	compliance/status e.g. plantations state a controlled activity in the proposal site evaluation of the inappropriateness of activity assessment criteria for ONF/L.	
 relevant rules (Landscape areas resource management units, permitted, controlled, restricted discretionary and discretionary, non complying activities in ONF area). 	DP.	Descriptive text.
-assessment criteria for controlled, discretionary and restricted activities in ONF/L areas and evaluation of.		
5. Evaluation of previous District Landscape Assessment	Objective -direct quotes from	secondary source,
-description of landscape perception (how we orientate or read a landscape, how we mentally organize and physically experience the landscape) resulting from: legibility, creation of mental maps, recognition of landmarks, status as a recreation landscape, meanings, contribution to regional identity, picturesque	Objective/subjective -selection of secondary source and definitions and criteria of landscape perceptionproposal area significance to Tangata	
aesthetics and contemplative values. -evaluation of proposal site legibility, status as a landmark, recreation landscape, meaning (to Tanagra	Subjective -evaluation of proportion values.	osal site area perceived
Whenua), contribution to regional identity, picturesque aesthetics and contemplative values.	Past District Landscape Assessment documentation.	Direct quotes, descriptive text.

Steps	Objective/Subjective	
	Resources	Presentation
6. Evaluation of previous District Landscape ONF/L Assessment - proposal site ONF status. -definition of ONF/L. -ONF/L matrix (criteria: natural patterns, human patterns, perception, and meaning). -evaluation of ONF/L matrix proposal site rating.	ONF/L definition, m Subjective	n secondary source: atrix and limitations. mportance of the proposa nd meaning matrix Descriptive text, tables showing proposal site ONF/L criteria rating- secondary source.
7. Evaluation of previous District Landscape Assessment defining characteristics of the proposal area.	Objective -direct quotes from secondary source. Objective/subjective	
-proposal area biophysical and cultural characteristicspotential effects of activities: buildings, earthworks or plantations(reduction in NC, compromise visual integrity and coherence)unacceptable effects criteria (reduction of visual	Past District Landscape Assessment documentation.	Direct quotes and descriptive text.
integrity of views and natural character). 8. Evaluation of previous proposal specific landscape assessment.	Subjective -evaluation of past proposal assessment	
-evaluation of the past assessments mitigation strategies, visibility analysis, evaluation of significance of visual effects, overall visual effects and appropriateness of the development.	level of effects. Previous proposal specific landscape assessment documentation.	Descriptive text.

Hotel development resource consent-EC hearing evidence for existing business operator.			
Stone	Objective/Subjective		
Steps	Resources Presentation		
9. Proposal area value and meaning evaluation -historical, cultural, scientific, wildlife values/significance.	Subjective -description of proposal area values/significance.		
	Past District Landscape Assessment documentation.	Descriptive text.	
10. District implications of proposal -evaluation of proposals effects on past District Landscape Assessment process and ONL/ONF	Subjective -evaluation of the proposals effects on the status and protection of ONF/L		
status/protection nationally.	A place to stand. Peart (2004)	Descriptive text	
11. Conclusions -summation evaluation of proposal effects on proposal site ONF, DP ONF/L status, DP inappropriate effects criteria, national ONF/L protection (linked to RMA 6 b).	Subjective -extension of ONF statusevaluation of greater importance of perception and meaning values in proposal site area evaluation of proposals inappropriate effects on an ONFevaluation of proposals potential effects o ONF/L protection nationally.		
	RMA, DP.	Descriptive text.	

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	Presentation
5H e T.	
<u></u>	Descriptive text.
ctive	he proposal characteristics.
ctive/subj	
ction of pas	st proposal specific DC oort documentation.
	oposal components with cant effects.
proposal fic report DC cation mentation ding AEE- ent author.	Descriptive text.
ctive	
cription of tl acteristics.	he regions general
ctive/subj	ective
tification of	f factors that generate al and amenity values.
Subjective -evaluation of regional landscape, visu quality and amenity values.	
	Descriptive text.

<u> </u>	Objective/Subjective	ctive
Steps	Resources Presentation	
4. Proposal site description -biophysical characteristicsdominant viewslandscape and visual qualitiesaesthetic valuespotential adverse impact of proposal on landscapecomponents of 'sense of place'evaluation of proposal areas value/importance/sense of placeevaluation of effects of current development.	Objective -description of the area and proposal sites biophysical characteristics and compositio of views to and from proposal site. Subjective -evaluation of importance/value of proposareas characteristics e.g. as "one of the memorable landscapes within the region" important views, components that contribute to the proposal sites 'sense of place' and status as a "highly memorable landscape" a 'threshold point' of visible influence of human interventionappropriateness of current/existing development linked to picturesque aesthetics.	
5. Landscape and visual effects methodology	Objective	Descriptive text.
description	-description of meth	nodology.
-use of objective/empirical and subjective methods.	Objective/subjecti	
-basis earth and perceptual sciences.	-selection of theories, criteria.	
-landscape and visual amenity assessed.		osal effects e.g. significan
 objectivity in visual assessment linked to the use of models of aesthetic appreciation. 	· ·	p other marina facilities".
-ecological and formal aesthetics aligned with proposal characteristics.	-criteria used to select viewpoints. Descriptive text.	
-effects criteria used (spatial influence, duration, permanence, recurrence/cumulative effects).		
-selection of viewpoints (visibility/views described by; duration, type, numbers and characteristics of viewers).		
-landscape effects (changes to overall landscape ecological processes) using defined baseline (existing or pristine), landscape effects are independent of what can be seen (ranked by: human values-perception, aesthetic quality, use, rarity, intactness and existence values, or in terms of ecological values- such as habitat or process value).		

01	Objective/Subjective Resources Presentation	
Steps		
5 a) Model of aesthetic appreciation used -aesthetic appreciation linked with RMA 7c) and RMA definition of amenity.	specific reports and	
-ecological and formal models of aesthetics proposedcriteria determining application of aesthetics model (Development state of site-pristine/modified, Purpose of development ecological/cultural)picturesque aesthetic characteristics aligned with formal aestheticsaesthetic values generated by each modelapplication of both models to proposal siteevaluation of proposal sites aesthetic quality " of proposals impact on aesthetic quality.	-description of models of aesthetics. Objective/subjective -selection of aesthetic models relevant to proposal. -assertions of aesthetic models e.g. "if i ecologically good it is therefore beautiful Subjective -evaluation of the proposals potential ad impact on ecological aestheticsevaluation of the appropriateness of both models of aesthetics with greater weight on the formalassertion that evidence of degradation on the necessarily permit further developmed -assertion of current dominance of nature character in site landscapeevaluation of proposal site landscape picturesque basis of its appealassertion that some development increasing picturesque values but are lost when but elements overwhelm naturalassertion that differing aesthetic values generated by each model promote proposites aesthetic appeal value.	
	RMA, previous proposal/site specific reports-different author, DP.	Direct quotes, descriptive text, Graph-level of development versus aesthetic quality comparing formal and ecological aesthetics ratings.

a.ma roocaroo comoone zo moaring chacines for	reservation Society	
Steps	Objective/Subjective	
·	Resources	Presentation
6. Visual absorption capability (VAC)evaluation	Objective -description of VAC	methodology.
-VAC definition (landscapes ability to absorb visual change-screen/hide/integrate retain character/qualities) and criteria (visibility, visual and physical links, modification of surrounding landscape, appropriateness of scale, distance, backdrop, atmospheric conditions).	Objective/subjecti -selection of VAC c -application of VAC rating for each loca Subjective	riteria. criteria to generate VAC
-VAC locations.	-evaluation of the si	gnificance of VAC rating
-VAC rating from each location.		proposal e.g." resulting in in the character of the
evaluation of significance of VAC ratings.	landscape within w	
		Descriptive text., attachment-description of VAC rating criteria and proposal site location VAC ratings, plan and photographs showing VAC rating locations.
7. Visual effects assessment	Objective	
reiteration of overall assessment components (e.g. multiple site inspections,identification of landscape and visual effects etc.).	viewers in close proximity to the proposal a "development of a scale and nature that w visually overwhelm the natural values" – linked to "visual intrusion/obstruction". -rationale for viewpoint additions. -overall evaluation of visual effects for the proposal.	
-visual catchment establishment.		
-additions to past proposal specific AEE view points.		
-GIS view shed analysis.		
-predominant viewer category identified by distance and elevation (close non elevated/elevated and distant non elevated/elevated views). -significant viewing audience (in close proximity) identified as: residents, motorists, boaties, pedestrians.		
evaluation of visual effects by distance.		
rationale for viewpoint additions (to represent those most effected).		
evaluation link with RMA requirement for effects to be "no more than minor".		

	Objective/Subjective	
Steps	Resources	Presentation
8. Evaluation of past site specific landscape and visual assessment (different author). - evaluation of visual effects for each viewpoint (using photomontage) and identification of errors (location, scale) in past photomontage assessment by different author. -evaluation of contrasting viewpoint visual effect ratings given by different author.	assessment by differ Objective/subjective -description of visual the proposal at each photographic simular Subjective -evaluation of photodiscrepanciesevaluation that dissuncertainty and uncontainty and	ndscape and visual erent author. ve al changes produced by h view point using ation. ographic simulation
9. Evaluation of past proposal specific landscape and visual assessment mitigation strategies by different author. -evaluation linked with plant establishment success rates, recreational opportunities, planting design appropriateness, requirement to undergo planting plan post approval.	Subjective -evaluation of the e	secondary sources. ffects of past proposal nitigation strategies- Direct quotes from secondary sources. Descriptive text.

0	Objective/Subjective		
Steps	Resources Presentation		
10. Review of relevant statutory documentation	Objective	statutory documentation.	
-RMA 6 a), b) and d), 7 c).		•	
-NZCP 1.1.1, 1.1.3, 3.2.4.	Objective/subjective -selection of statutory documentation sections. Subjective -evaluation of proposals compliance/support of statutory documentation.		
-RPS Issue: Loss of natural character.			
-RCPS: Locally Significant Coastal Environment (status) and, policies related to natural character, natural features, representative features, and amenity and heritage values, marinas.			
-DP Issues: Coastal environment of national significance and of outstanding value, Degraded landscapes which would benefit from enhancement and protection, Natural character and development, Unplanned and non sustainably managed development			
effects on landscape values and character.	RMA, NZCP, RPS, DP	Descriptive text, direct quotes form secondary	
-evaluation of the proposals compliance with statutory documentation.	(proposed).	sources.	
documentation.		Descriptive text.	
11. Conclusions	Subjective -overall evaluation of landscape and visu character, quality and proposal landscape and visual effects.		
 –aesthetic appeal of proposal site (linked with degradation, scenic model of appreciation, memorability). 			
-threshold point status of proposal site (linked to perceptions of character, cumulative effects).		Descriptive text.	
-significant adverse effects of proposed proposal on scenic and amenity qualities.			
-inadequacy of past landscape and visual assessment (different author) mitigation strategies.			
-proposals overall significant landscape effects.			
"" greater than minor natural character and amenity value effect on the site.			

Ctono	Objecti	Objective/Subjective	
Steps	Resources	Presentation	
1. Scope of assessment	Objective -the brief.		
review of the DC structure plan (applicable to the subdivision sites) landscape and visual issues.	the bilet.	Descriptive text.	
-alternative landscape analysis of structure (applicable to the subdivision sites) plan area.			
support for 3 appellants subdivision rezoning requests.			
2. Assessment appeal references	Objective		
-proposal specific subdivision rezoning (2 properties) and site relief application (1 property).		appellants subdivision n, land use and structure	
description of appellant properties and current land use. Description of appellant property location within DC structure plan.	DP	Descriptive text, aeria photograph location or structure plan area and appellant properties.	
3. ICM analysis (Integrated Catchment Management) - ICM linked to principles of landscape design evaluation of the use of ICM in the structure plan area. (linked with the identification of : critical landscapes, holistic/integrated goals for ecosystems, resources and people).	Objective/subjecti-selection of the ke ICM relevant to the Subjective	y elements/principles of	

Stone	Objective/Subjective		Objective/Subjective	
Steps	Resources	Presentation		
4. Summary of ICM analysis for proposal area -location of proposal specific structure plan area and 3 appellant proposal sitesevaluation of the proposal specific structure plan areas climate, geology, topography, hydrology, aspect, soils, kaitiakitanga, original vegetation, historical land use patterns, existing land use patterns, growth and development and the key issues and opportunities for development.	plan characteristics -direct quotes from Objective/subjecti	ion. osal specific structure -climate etc. secondary sources. ve ucture plan areas key		
- evaluation and recommendations related to the proposal specific structure plan areas future land use patterns linked to current DP zoning.	and opportunities for -evaluation/recomm strategies needed to	ch represent critical issues or development. nendation of management o address the proposal an areas critical issues.		
	Previous site specific structure plan area structure plan, lwi consultation, vegetation and erosion reports, and previous ICM structure plan documentation-same author.	Descriptive text, Direct quotes, topographical location maps, photographs and diagrams of structure plan area characteristics.		
5. Evaluation of previous proposal site specific ICM structure plan -evaluation of site analysis methodology used with reference to: underlying natural processes and	Objective -direct quotes/exhibits used form secondar source. Subjective -evaluation of previous ICM methodology.			
patterns, existing land use, capability, future land uses, comprehensive interpretation, resource management issues, and sustainability. -evaluation of the proposals potential links with resource management issues and sustainability.	Previous site specific ICM structure plan report-different author.	Descriptive text.		

-evaluation of the proposal sites previous assessment status in the RP and DPevaluation of the previous assessment of the proposals compliance with the DP structure plan objectives/policiesevaluation of previous assessments emphasis on visual effectsdescription of appropriate assessment criteria/factors (climate, geology, topology, hydrology, aspect, soil, ecology, kaititakitanga, original vegetation cover, historic land use, patterns, visual affects of change)evaluation of previous assessment criteria useevaluation of previous assessment criteria use, evaluation of previous proposal specific assessment with that character linked to future land use patterns permitted by DP zoningevaluation of previous proposal specific viewpoint visual analysis (additional viewpoints selected using GIS viewshed analysis with TIN and cross sections-based on topography only). Issues of viewpoint location, photograph direction, angle and extent discussed related to existing landscape character, existing residential development, slope, and landscape and landscape and landscape and landscape and landscape amenity relative importanceevaluation of proposal site status and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous proposal specific assessment emphasis or landscape amenity assessment emphasis or landscape amenity assessment emphasis or landscape amenity assessment emp	04	Objecti	ve/Subjective	
-evaluation of the proposal sites previous assessment status in the RP and DPevaluation of the previous assessment of the proposals compliance with the DP structure plan objectives/policiesevaluation of previous assessments emphasis on visual effectsdescription of appropriate assessment criteria/factors (climate, geology, topology, hydrology, aspect, soil, ecology, kaititakitanga, original vegetation cover, historic land use, patterns, visual affects of change)evaluation of previous assessment criteria useevaluation of previous assessment criteria use, evaluation of previous proposal specific assessment with that character linked to future land use patterns permitted by DP zoningevaluation of previous proposal specific viewpoint visual analysis (additional viewpoints selected using GIS viewshed analysis with TIN and cross sections-based on topography only). Issues of viewpoint location, photograph direction, angle and extent discussed related to existing landscape character, existing residential development, slope, and landscape and landscape and landscape and landscape and landscape amenity relative importanceevaluation of proposal site status and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous proposal specific assessment emphasis or landscape amenity assessment emphasis or landscape amenity assessment emphasis or landscape amenity assessment emp	Steps	Resources	Presentation	
-description of views from viewpoints using photographs, GIS viewshed analysis and cross sections. -evaluation of previous assessments emphasis on objectives/policiesevaluation of previous assessments emphasis on visual effectsdescription of appropriate assessment criterial/factors (climate, geology, topology, hydrology, aspect, soil, ecology, kaitiakitanga, original vegetation cover, historic land use, patterns, existing land use, patterns and landscape features, visual affects of change)evaluation of previous assessment criteria useeraluation of previous assessment criteria useeraluation of previous assessment criteria useeraluation of previous proposal specific viewpoint visual analysis (additional viewpoints selected using GIS viewshed analysis with TIN and cross sections-based on topography only). Issues of viewpoint location, photograph direction, angle and extent discussed related to existing landscape character, existing residential development, slope, and landscape complexityevaluation of proposal site specific previous assessment documentation-different author, potential fine grain development outcomes, cultural landscapes in Europe vs. NZoverall evaluation of past proposal specific assessment (visual focus, limitations), proposals sites	6. Evaluation of previous proposal specific assessment.		secondary sources.	
-evaluation of previous assessments emphasis on visual effects. -description of appropriate assessment criterial/factors (climate, geology, topology, hydrology, aspect, soil, ecology, kaitiakitanga, original vegetation cover, historic land use, patterns, existing land use, patterns and landscape features, visual affects of change). -evaluation of previous assessment criteria use. -evaluation of previous proposal specific assessment viewpoint visual analysis -evaluation of previous proposal specific assessment emphasis on in additional viewpoints. -evaluation of previous proposal specific viewpoint visual analysis (additional viewpoints selected using GIS viewshed analysis with TIN and cross sections-based on topography only). Issues of viewpoint location, photograph direction, angle and extent discussed related to existing landscape character, existing residential development, slope, and landscape complexity. -evaluation of previous ICM assessment methodology, proposal sites status and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous assessment emphasis/criteria/factor use and structure plan compliance and previous proposal specific assessment viewpoint visual analysis -evaluation of previous proposal specific assessment emphasis/criteria/factor use and additional viewpoints use and diffiction of previous proposal specific assessment emphasis/criteria/factor use and diffiction of previous proposal specific assessment emphasis/criteria/factor use	-evaluation of the proposal sites previous assessment status in the RP and DPevaluation of the previous assessment of the proposals compliance with the DP structure plan	-description of view photographs, GIS v cross sections.	s from viewpoints using	
description of appropriate assessment criteria/factors (climate, geology, topology, hydrology, aspect, soil, ecology, kaitiakitanga, original vegetation cover, historic land use, patterns, existing land use, patterns and landscape features, visual affects of change). -evaluation of previous assessment criteria use. -evaluation of previous proposal specific viewpoint visual analysis and proposals visual contrast with that character linked to future land use patterns permitted by DP zoning. -evaluation of previous proposal specific viewpoint visual analysis (additional viewpoints selected using GIS viewshed analysis with TIN and cross sections-based on topography only). Issues of viewpoint discussed related to existing landscape character, existing residential development, slope, and landscape amenity relative importance. -description of the differing values of cultural landscapes in Europe vs. NZ. -overall evaluation of past proposal specific assessment (visual focus, limitations), proposals sites character analysis. -evaluation of previous proposal specific assessment emphasis/criteria/factor use and proposal sites character analysis. -evaluation of previous proposal specific assessment emphasis on landscape importance vs. sustainability. -evaluation of cultural landscape importance vs. sustainability. -evaluation of cultural landscape importance vs. sustainability. -evaluation of cultural landscapes in NZ. Previous proposal poscriptive text, direct quotes from secondary sources. Photographs of viewpoints used in previous proposal specific assessment and cultural landscape of cultural landscape amenity relative importance. -description of the differing values of cultural landscapes in Europe vs. NZ. -overall evaluation of previous proposal specific assessment viewpoints. -evaluation of previous proposal specific assessment emphasis on landscape importance vs. sustainability. -evaluation of previous proposal specific assessment and cultural landscape importance. -evaluation of previous propo	-evaluation of previous assessments emphasis on	-evaluation of previ methodology, propo	osal sites status and	
-evaluation of previous assessment criteria use.	-description of appropriate assessment criteria/factors (climate, geology, topology, hydrology, aspect, soil, ecology, kaitiakitanga, original vegetation cover, historic land use, patterns, existing land use, patterns and landscape features, visual affects of change).	assessment empha proposal sites char -evaluation of previ assessment viewpo -evaluation of the la	asis/criteria/factor use and acter analysis. ous proposal specific oint visual analysis andscape character show	
-"" proposal sites character analysis and proposals visual contrast with that character linked to future land use patterns permitted by DP zoning. -evaluation of previous proposal specific viewpoint visual analysis (additional viewpoints selected using GIS viewshed analysis with TIN and cross sections-based on topography only). Issues of viewpoint location, photograph direction, angle and extent discussed related to existing landscape character, existing residential development, slope, and landscape complexity. -evaluation of proposal site specific previous assessment zoning density status linked to RMA s5, potential fine grain development outcomes, cultural landscape and landscape amenity relative importance. -description of the differing values of cultural landscapes in Europe vs. NZ. -overall evaluation of past proposal specific assessment (visual focus, limitations), proposals sites	-evaluation of previous assessment criteria use.			
-evaluation of previous proposal specific viewpoint visual analysis (additional viewpoints selected using GIS viewshed analysis with TIN and cross sections-based on topography only). Issues of viewpoint location, photograph direction, angle and extent discussed related to existing landscape character, existing residential development, slope, and landscape complexity. -evaluation of proposal site specific previous assessment zoning density status linked to RMA s5, potential fine grain development outcomes, cultural landscape and landscape amenity relative importance. -description of the differing values of cultural landscapes in Europe vs. NZ. -overall evaluation of proposal specific assessment (visual focus, limitations), proposals sites	-"" proposal sites character analysis and proposals visual contrast with that character linked to future land use patterns permitted by DP zoning.	assessment emphasis on landscape am and cultural landscape importance vs.		
landscapes in Europe vs. NZ. -overall evaluation of past proposal specific assessment (visual focus, limitations), proposals sites	-evaluation of previous proposal specific viewpoint visual analysis (additional viewpoints selected using GIS viewshed analysis with TIN and cross sections-based on topography only). Issues of viewpoint location, photograph direction, angle and extent discussed related to existing landscape character, existing residential development, slope, and landscape complexity. -evaluation of proposal site specific previous assessment zoning density status linked to RMA s5, potential fine grain development outcomes, cultural landscape and landscape amenity relative importance.	Previous proposal specific assessment documentation-different author,	Descriptive text, direct quotes from secondary sources. Photographs viewpoints used in previous proposal specific assessment ar selected by author, diagrams of cultural	
assessment (visual focus, limitations), proposals sites	-description of the differing values of cultural landscapes in Europe vs. NZ.			
	-overall evaluation of past proposal specific assessment (visual focus, limitations), proposals sites ability to absorb visual effects.			

	Objective/Subjective		Objective/Subjective
Steps	Resources	Presentation	
7. Evaluation of appellant design concepts -same author concepts linked to proposal site specific structure plan objectivespotential storm water design options LID (Low impact design) principles linked with DC structure plan recommendations, multiple design outcomes, regeneration, mixed indigenous/exotic cultural characterevaluation of each proposal sites characteristics, constraints and opportunities, as of right opportunities, environmental and landscape outcomes of design solutions, visual effects of each site, limitations of analysis (data sources, investigation and observation, conceptual designs)evaluation of proposals concept designs visual effects"" links with ICM.	Objective -description of storm water design strate -description of the proposal site characteristics -"" design concepts characteristics for ea site e.g. combined recreation, pedestrial vehicle revegetation and storm water management land use. Objective/subjective -selection of significant proposal site characteristics. Subjective -evaluation of effects of LIDevaluation of effects of design concepts ICM compliance e.g. respecting the "underlying patterns and processes and historic landuse activities"evaluation of concept design visual effe e.g. "integrated pattern of residential settlement"evaluation of links with proposed DP zo		
		Descriptive text, diagrams of storm water design components, diagrams of proposal site, design concepts, DP permitted and proposed storm water flow.	
8. Conclusion -DP compliance of proposals. -evaluation of DP zoning provisions related to proposals.	Subjective -Evaluation of DP compliance, zoning provision compliance and overall visual effects. Descriptive text.		

change in the landscape.

Subdivision resource consent (2)-DC application for	· ·		
Steps	Objective/Subjective		
	Resources	Presentation	
Scope of the assessment	Objective The Brief.		
-landscape and visual assessment (character, key features, visibility, effects) forming part of a DC resource consent application for a developer.		Descriptive text, Location plan, scheme plan, planting concept plan,	
-description and purpose of the site/area visits (viewing catchment, visibility from building platforms).		photographs of landscape chara	
2. Landscape and visual effects	Objective		
-sources of effects [changes in components, character, and quality resulting from: changes in landform,		e of potential effects.	
vegetation, structures, activities, facilities]assessment investigates physical effects resulting or	Objective/ Subjective -selection of sources of effectsselection of factors that influence.		
influenced by proposal.	accommodation of	landscape change.	
-landscape change accommodation influence factors :landscape value [i.e. significance], quality [i.e. vividness], coherence [i.e. intactness] and character, ability to absorb development [dependent on:	-selection of components of assessmentselection of factors that influeffects.		
topography, vegetation, existing development, scale of landscape, patterns and level of enclosure], existing landuse, nuisance effects [i.e. glare, noise, dust etc.] adverse environmental effects [e.g. weeds, erosion] quality of proposal and mitigation [positive impact on landscape character/quality], impact on ecosystems.		Descriptive text.	
-description of visual assessment [i.e. investigating visual changes and affects on visual amenity].			
-extent and nature of visual effects influenced by: degree of contrast, absorption ability, proposal visual or physical links with background, size of viewing audience and size of visual catchment, distribution of viewers and the extent nature and elevation of proposal view.			
-potential nature of effects-benign, enhance or detract from character/quality.			

Subdivision resource consent (2)-DC application for	Objective/Subjective	ntivo.
Steps		
3. Visual and landscape context -general description of biophysical and cultural characteristics (including archaeological sites) of	Resources Presentation Objective -direct quotes from secondary sourcesdescription of existing proposal areas	
proposal site. -RP ONF/L status, visual sensitivity value, change accommodation rating (linked to dominant ridgelines, exposed slopes, open space). -existing landuse. -description of the proposal sites visual catchment. -summary of proposal site area landscape quality.	biophysical features, landuse. Subjective -evaluation of proposal areas components that contributed to RP statusevaluation of proposal site areas landsca quality (dependent on: coherence, vividne intactness) resulting from areas characteristics.	
	RP.	Descriptive text, Direct quotes from RP, location map, photographs of landscape components/features.
4. Proposal site context -description of the proposal site biophysical, ecological and cultural characteristics.	Objective -description of site characteristics. Objective/subjective -selection of characteristics and compo	
-" key visual components [natural character, complexity, pastoral land use, existing rural subdivision].	Proposal site specific archaeology and ecology report documentation.	Descriptive text, location map, scheme plan-mapped archaeological sites.
5. Proposal context -description of proposal characteristics including design strategies aimed to reduce adverse effects [revegetation and protection of bush and wetlands, building; height, location and colours, earth bunds, screen planting]. - evaluation of proposed revegetation planting.	Objective -description of prop access, planting. Subjective -evaluation of the in proposed planting in	•
-suggestions for plant replacement/further planting to screen/protect archaeological sites.		Descriptive text, location map, figures and photographs showing lo locations.

(-)	developer.	
Steps	Objective/Subjective	
	Resources	Presentation
6. Statutory context	Reference to additional report.	
	Proposal specific statutory context report.	Referenced.
7. Proposal landscape and visual effect issues - factors influencing landscape and visual effects [physical catchment affected, scale, type and intensity of change, nature of viewing audience, nature of effects visual/landscape].	Objective/subjective -selection of factors contributing to change/effects.	
		Descriptive text.
8. Visual effects of proposal	Objective -definition/description of visual catchment, sensitivity, viewing audience, visual effects methodology and assumptions. Objective/subjective -selection of factors that influence visual sensitivityidentification of viewing audience groups. For each lot/motorist/boaties; -description of the visual catchment (by eye) -landscape character key components selection/definition -description of visual changes and mitigation (planting) effects. Subjective - description of visual effect levelsevaluation of proposals potential effects on landscape character and amenityevaluation of the main components that contribute to the proposal sites landscape valuesevaluation of landscape character perceptual qualities e.g. "dynamic" of each lotoverall evaluation of visual effects for each lot-extent of views, impact on character and quality of each lot, effect rating e.g. "no more than minor" -overall evaluation of effects for the motorist"" on entrance road to subdivision"" for boaties.	
-definition of visual catchment-area influenced by visual change		
-" of visual sensitivity from viewpoints [dependent on; contrast, scale, extent of visibility, height in relation to viewer, distance, duration of view, extent to which proposal complements existing landscape character]		
-description of viewing audience, identification of main groups of viewing audience.		
-description of view points used, those discounted and assumptions made in visual analysis [e.g. building location].		
-definition of visual effects categories used [severe, high, moderate, low, neutral]		
-identification of proposals potential effects [on character, value, amenity] and proposal site landscape values [scenic, rural, complexity]		
Visual effects for existing residents by lot:		
-description of the location of the view.		
-description of visual catchment		
-evaluation of landscape character.		
-evaluation of visual effect of proposal including effects over time.		
-summary of visual change and effects of individual lot.		
-Description of visual effects for motorists		
"" along entrance road to subdivision.		Descriptive text.
-"" boaties		Photographs from proposal site.

Subdivision resource consent (2)-DC application fo	developer.	
Steps	Objective/Subjective	
	Resources	Presentation
9. Landscape Effects -evaluation of RP sensitivity to change statusevaluation of existing landuse landscape effects -"" landscapes ability to absorb change created by the proposal including roading, construction, storm water and sewage, existing land use effects, nuisance factors [glare, noise etc, traffic]recommendations and evaluation of the landscape effects of mitigation strategies [e.g. location of buildings, stormwater treatment, weed control, pet covenants] -overall evaluation of the proposals effects on the		site in RP itivity status, existing sal landscape effects. Descriptive text.
quality and character of the landscape linked with continued existing landuse, protection of bush and wetlands, minimal intrusion of residential subdivision into farm landscape.		
10. Mitigation -recommendation or location and design/detail conditions related to proposal buildings -Evaluation of strategies used to prevent adverse effects on visual quality (earth bund, planting, roading materials, and revegetation).	Objective -description of mitigation strategies used/recommended. Subjective -evaluation of mitigation strategy effects. Descriptive text	
11. Conclusion -summary of issues [effects on: amenity values, landscape character, environment] -evaluation of amenity effects referenced to design and detailing. "" on rural character "" environmental effects [prevention of; sedimentation and erosion, bush and wetland enhancement].		on of effects on amenity character and environment Descriptive text.
-"" of ability of landscape to absorb proposal [linked with landscape complexity]		

.,, .,	Objective/Subjective	ctive
Steps	Resources	Presentation
1. Scope of assessment	Objective -The Brief	
 landscape and visual effects of subdivision accompanying resource consent application. components of resource consent-subdivision and landuse. 	RP/DP, proposal specific scheme, building guide and planting plan-	Descriptive text, proposal location maps, aerial photograph of site Photographs of proposa
-applications discretionary status in RP/DPscope of illustrated material accompanying assessment e.g. planting plan.	same author documentation.	site landuse and character (50mm).
-description of site visits (conditions, purpose- character, natural character, topography, landscape features, land uses, visibility).		
-description of technical reports/consultation used in assessment (applicant, planner, engineer, architectural designer, surveyor, DOC).		
-description of the regions key biophysical historical and cultural characteristics including amenity values. -4" of proposal sites zoning and overlay status in RP/DP. "" geomorphology. "" water bodies and recommended areas for protection. -4" land cover/land use.	-description of biophysical and historical cultural characteristics of region, site and nearby marine reserve status -direct quotes from secondary sources –e "threats toecologyfrom visiting groups" Objective/subjective -selection of regions key characteristics. Subjective -description of regions zones of landscape character –urban, pastoral, coastal.	
	RP/DP, Regional Geology report (Inst of Geo and Nuclear Sciences 2000).	Descriptive text, photographs of the region and proposal site characteristics.

ubdivision resource consent (3)- DC application for	Objective/Subi	Objective/Subjective	
Steps	Resources	Presentation	
3. Site context -description of sites biophysical and cultural	Objective -description of ch	aracteristics. te formative processes.	
characteristics including hydrologydescription of views from within the site.	Objective/subje -selection of sites -description of ef -analysis of some	•	
	panoramic, 100	Descriptive text, photographs of/to proposal site and viewpoints.	

0.4	Objective/Subjective	
Steps	Resources	Presentation
4. Existing environment -natural character definition (dependent on elements, patterns, processes, modification, perception).	Objective -direct quotes from secondary sourcesdescription of proposal site coastal, ripariar elements, patterns, processes.	
-coastal natural character zones (coastal marine zone, active coastal zone, coastal dominance zone, coastal influence zone) definition. -proposal site area coastal natural character assessment (criteria: landform, waterform, built elements, infrastructure, vegetation-indigenous/exotic. -proposal site stream riparian natural character assessment (landcover, channel and flow processes, built modifications, riparian edges and river bed, water quality, wildlife quality). -landscape character (expression of; physical, biological and cultural processes, dynamic) evaluation (rural pastoral, Maori occupation, coastal). -landscape values evaluation (dependent on people's perception: experience, education, preferences, and cultural affiliations). Values expressed (aesthetics, scientific, heritage, cultural, geological, and ephemeral). -proposal site area RP/DP ONF/L, amenity status, region wide report visibility, visual absorption capability ratings. -description of proposal sites amenity values (boat launching, education, camping, kai, swimming, lay by, dive business, views, ephemeral patterns, accommodation).	Objective/subject -selection of definit natural characterselection of eleme processes used to riparian natural cha- status of proposal character zonesdescription of mor proposal site areas zonesselection of lands criteria/factors -"" landscape value -description of the values. Subjective -ranking of proposal character zonesoverall evaluation and riparian natura components that co- evaluation of othe riparian waterways -evaluation of prop character.	cive tions/criteria related to ents, patterns and describe coastal and aracter. site areas coastal natural diffications present in s coastal natural character cape character e "". proposal sites amenity al site areas coastal natural of proposal sites coastal al character and

01	Resources Presentation Objective -description of proposed proposal characteristics e.g. vegetation removal/retentiondescription of key components of building design guide and landscape planting plan. Objective/Subjective -evaluation of overall effects of proposed building design guide and planting plan e.g. "to enhance natural character".	
Steps		
5. Proposal description -scope of descriptiondescription of proposal access, subdivision lots, existing vegetation, topography and construction earthworks, building materials and finisheslandscape plan and planting plan characteristics, intent and mitigation effects.		
		Descriptive text. Landscape and planting plan appendix.
RMA s 104 (1) (a), schedule 4, s 5, s 6 a), b), d), e), f), s 7, amenity definition. RP/DP-natural heritage objectives and policies (indigenous vegetation, significant habitats, ONF/L, quality of water, wetlands, aquatic habitats, natural character associated with lakes, rivers, wetlands, coastal environment, subdivision), coastal environment overlay (vegetation clearance). NZCPS 1.1.1, 1.1.3, 3.2.2, 3.2.4. Outstanding landscape quality assessment report status, proposal site status, RP/DP report adoption (additions of ONF in proposal site area), and ONF/L status on proposal area.	Objective/subjecti	ve ory and planning context. Descriptive text, direct quotes from secondary sources.
7. Landscape and Visual effects evaluation definition of landscape effects (result from: vegetation removal, earthworks, waterway changes) can be temporary/temporary but lasting/ permanent. definition of landscape sensitivity to change (dependent on: nature, scale and pattern of development landforms, vegetation, degree of modification, significance/quality, scope for mitigation). definition of visual effects resulting from physical changes dependent on: viewer distance, extent of visibility, proportion of view occupied, view type (panoramic, expansive, enclosed, transient or stationary), contrast, coherence, size of audience. Effects determine mitigation strategies. determine of visual effects defined (positive, negative, neutral)	Objective -definitions of landscape effects and landscape sensitivitydefinitions of visual effectsdescription of site visibilitydescription of viewpoint selection methodology" viewing audience characteristics. Objective/Subjective -selection of landscape and visual effects criteria and sensitivity criteria/factors overall summation of visual catchment characteristics. "relatively small" -selection of view points -selection of significant viewing audience description of proposal visibility from viewpoints (by eye) -overall summary of proposal visibilityselection of significant landscape	

0.	Objective/Subjective	ctive
Steps	Resources	Presentation
-Site visibility described (from Roads, neighbouring properties, beach, sea)	components effected by the proposal. Subjective -evaluation of overall visual effects of proposal from viewpoints and mitigation effects e.g. "many viewers will be drawnsea viewson other side of the road", "n likely tobe out of character". -evaluation of proposals effects on coasts and riparian natural character. -"" proposals landscape effects including mitigation recommendations e.g. "# housesconsidered to be of a scale suite this enclosed environment". -evaluation of proposals statutory and	
-Viewpoint selection described(publicly accessible-roads, beach, camp ground, not sea)		
-Viewing audience described		
-Description of proposal characteristics visible from viewpoints and their visual effects-viewpoint analysis		
-Description of construction earthworks characteristics and visual effects		
-Visual effects summary (catchment, views from roads, boat ramp, camp ground, sea, close quarters, transit open space) mitigation recommendations.		
-evaluation of existing level of natural character modification.	planning complianc	е.
evaluation of the proposals effect on coastal natural character.		Descriptive text, aerial photograph with market
" riparian natural character including enhancement.		viewpoints, photographs supporting site visibility
evaluation of proposals landscape effects (dependent on: nearby ONF, existing vegetation and proposed planting, excavation and landform modification, clustered housing and landscape character) including effects of mitigation.		from selected viewpoints.
-"" amenity effects (recreational, rural, neighbours, views) including effects of mitigation.		
evaluation of proposals compliance within the statutory and planning context (natural character, clustered housing and landscape character, outstanding landscapes, public access, visual).		
8. Mitigation -building materials and colour description and	Objective -description of mitig	ation strategies
evaluation of effects. -Planting""	Subjective -evaluation of mitigation strategy objectives/purpose e.g. "building height restrictions increase potential to nestle int the environment".	
		Descriptive text, photographs demonstrating mitigatio strategies, proposed planting plans.

01	Objective/Subjective	
Steps	Resources	Presentation
9. Conclusion -proposals links with s5 of RMA (reference to:	Subjective -summation of pro	pposals effects.
sustainability, other potential land uses, footprint, effects on; natural character, coastal environment, ONF, visual and visual amenity effects, mitigation and avoidance of adverse effects).		Descriptive text.

Wind Farm resource consent (1) -DC application for local tangata whenua land owner incorporation

Objective/Subjective

Steps

eps Resources

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Presentation

1. Scope of the assessment

- -summary overview of proposal, site and surrounding areas biophysical and cultural characteristics.
- -assessment as part of an AEE (other technical reports).
- -statement of secondary sources/additional proposal specific ecological report.
- -summary of applicant public consultation findings.
- -site visit (conditions, purpose).
- -aims/purpose of assessment: natural character (dependent on: alteration to physical features, landform, vegetation cover, scale and the experience of traveling through the landscape), landscape and visual effects (as a result of: changes in views and the overall visual influence of the development).
- -summary of findings/overall effects of the proposal.

Objective

- -description of proposal, site and area characteristics.
- -the brief (assessment focus)
- -"" of secondary sources used.
- -site visit descriptions.

Objective/Subjective

- -selection of secondary sources.
- -summation of public consultation findings.

Subjective

- -criteria selected to determine character, landscape and visual effects.
- -overall summary evaluation of proposal effects.

Past wind farm assessment documentation and workshops-same company, NZ Wind Energy Conference proceedings (2005), Section 5.4.2 of the New Zealand Energy Efficiency and Conservation Authority:

Guidelines for local authorities on wind power (NZEECA, 1995).

Descriptive text.

04	Objective/Subjective	
Steps	Resources	Presentation
2. Proposal site context -description of site biophysical and cultural characteristics. -absence of previous regional/district landscape assessments relevant to the proposal site noted. -overall summation of landscape character (linked with existing plantation and industrial landuse).	Objective -description of proposal site biophysical an cultural featuresnote re previous assessment availability. Objective/subjective -selection of site characteristics in description. Subjective -evaluation of some site characteristics e.g as having a "good level of local landscape amenity value." -summation of the overall landscape character.	
	DP	Descriptive text
3. Proposal site description -description of the proposal sites cultural and biophysical characteristics (general, landform, landcover, landuse). -summary of landscape character (linked with beach, coastal escarpment, wetlands, lakes, streams, pastoral landuse and regenerating bush, industrial activities, forestry, isolation, separation from coast).	Objective/Subject -selection of eleme used to describe pr -overall description landscape characte Subjective -evaluation of cond	nts/characteristics factors oposal sites character. of proposal sites

Objectiv	Objective/Subjective	ective/Subjective	
Steps	Resources	Presentation	
4. Proposal description -description of layout, design of wind farmbrief description of internal access roads, off site works (both outside scope of this assessment).	Objective -description of prop characteristics-refe source. Proposal specific application documentation – full AEE.	Descriptive text. Landform, topographica maps and aerial photograph showing wind farm layout. Sketch of typical wind turbine.	
-reference to full planning context report in AEE documentation. - NZCPS: 1.1.1, 1.1.2, 1.1.3, 3.1.1, 3.1.2. -RMA definition of Amenity. -Regional coastal plan: natural character, regionally significant/representative landscape policies, status of regionally significant site in proximity to proposal site and potential effects of proposal. -DP zoning of site (activities permitted and height restrictions, rules/restrictions). -recent EC directives-wind farm determinations.	Objective -direct quotes from the secondary sources Objective/subjective -selection of the planning context -identification of potential effects on regionally significant landscape outside si Subjective -evaluation of proposals compliance with planning context. e.g.NZCPS 1.1.3 "Beir part of Tangata Whenua, it is considered the applicant is well-placed to address the issues." -evaluation of the relevance of the EC Aw decision to the proposalevaluation of the key differences between the Awhitu wind farm and this proposal.		
	Proposal specific full AEE report, NZCPS, RMA, RCP, DOC regional coastal conservation management strategy (draft), DP, Awhitu EC wind farm documentation.	Descriptive text, direct quotes from secondary sources.	

Wind Farm resource consent (1) -DC application for local tangata whenua land owner incorporation

Steps

Objective/Subjective

Resources

Presentation

6. Natural character effects

- -consideration of construction and long term effects on natural character
- -RMA context 6 a)
- -rationale for natural character assessment-potential inappropriateness/impact on natural character.
- -definition of natural character (based on; natural elements, patterns and process, modifications to landscape/seascape)
- -"" coastal environment (sub tidal, intertidal, coastal dominance, coastal influence, hinterland)
- -description of proposal site and surrounding area natural character values/ranking.
- -description of potential impact of the proposal on natural character and varying perceptions of naturalness.
- -evaluation of proposals natural character effects (linked with general wind farm site requirements, DP zoning rules, proximal natural character values, and tourism).

Objective

-direct quotes form secondary sources

Objective/subjective

- -selection of definitions, criteria, secondary sources.
- -description of varying perceptions of natural character.
- -description of the coastal environment zone characteristics-delineation and proposal location within zone of coastal influence.

Subjective

- -evaluation of the natural character values of the proposal site and surrounding area.
- -evaluation of proposals appropriateness in a coastal environment.
- -evaluation of DP zoning rules on proposals natural character effect considerations.
- -evaluation of the significance of proximal natural character values on the consideration of the proposals effects on the site.
- -evaluation of potential positive impacts of proposal on tourism
- -overall evaluation of natural character effect.

Environmental Performance Indicators: landscape aspect of natural character (Boffa Miskell Limited, Ministry for the Environment, 2002), Renewable Energy Guidelines for local authorities: Wind Power (New Zealand Energy Efficiency and Conservation Authority 2004).

Direct quotes from secondary sources, descriptive text.

Wind Farm resource consent (1) -DC application for local tangata whenua land owner incorporation

Objective/Subjective Steps Presentation Resources Objective 7. Landscape effects -description of potential landscape change -consideration of construction and long term effects on related/not related to proposal on site. landscape. -description of criteria used to assess landscape effects. -landscape effects resulting form changes to landform and vegetation. Objective/Subjective -selection of landscape effects criteria. -description of future landscape changes not part of the proposal which will effect spatial and visual perception Subjective of proposal (e.g. forestry removal). -evaluation of sites existing landscape -recommendations on landscape change mitigation -evaluation of landscape effects of proposal. which would limit the above. -evaluation of proposal sites existing landscape values. Proposal specific Descriptive text. siteworks report. -potential effects on landscape values (criteria; changes to landscape/views, magnitude of changes, timingtemporary/permanent, direct/indirect, irreversibility), reference made to other proposal specific siteworks report.

8. Visual effects

-definition of visual impact (objective change to landscape/view) compared to visual effects (subjective effect change to landscape/view will have).

-overall evaluation of landscape effects (linked to existing land use, remoteness, elevated landforms, scale of landscape and proposal site, integration, earthworks mitigation, ONF/L in proximity).

- -description of methodology (review of proposal brief and feasibility, site visit-proposal location, DTM-zone of visual influence identification, proposal simulations, field work to determine broader landscape context effects, report preparation).
- -intervisibility study using DTM to produce Zvi (zone of visual influence) map showing numbers of turbines visible in distance categories. Interpretation limitations: geographic location, weather conditions, light and time of day.
- -description of turbine visibility at long (up to 30 km), mid (within 10 km) and short (within 5 km) distance from the site.
- -selection of viewpoints based on Zvi and fieldwork (public access, representative viewing distances and experiences, numbers of viewers).
- -visual simulations from viewpoints methodology description (including: limitations, strategies used to reduce inaccuracies, potential sun and atmospheric

Objective

- -description of methodology.
- -description via Zvi of turbine visibility –coded by number and distance.
- -description of factors that might influence visibility.
- -description of nature and extent of views classified by distance.
- -"nature and location of main viewing audience.

Objective/subjective

- -delineation/description of impact vs. effects.
- -delineation of viewing distance categories.
- -view point selection (none from sea-based on numbers of viewers).
- -selection of visual impact criteria.
- -overall evaluation of potential adverse visual impact by distance and turbine location summarizing individual viewpoint ratings.
- -shadow flicker analysis exclusion-based on existing location of residences/roads.

Subjective

-visual impact rating from each viewpoint -evaluation of viewer attitudes most effected by adverse visual impact. Wind Farm resource consent (1) -DC application for local tangata whenua land owner incorporation

Steps

influences, definition of turbine visibility-any part, use of most visible turbine orientation, potential effects of motion not shown, forestry removal effects not shown).

- -visual impact rating (dominant, prominent, present, negligible-described) from each view point.
- -visual impact analysis from selected buildings within 5 km of site (number of turbines visible), notification recommendation and potential of mitigation strategies to influence effects.
- -rationale for irrelevance of shadow flicker assessment.
- -cumulative effects; definition, sources (resulting form multiple wind farms-visible from same viewpoints, same landscape unit, differing turbine design, differing direction of rotation and grid layout).
- -summary of visual effects of the proposal.

Objective/Subjective

Resources

Presentation

-evaluation of potential mitigation strategies influence on adverse visual impacts.
-overall evaluation of the significance of the number of buildings that will experience potentially adverse visual effects and resident notification recommendation.
-evaluation of potential cumulative effects based on non consented application for another wind farm in the vicinity.
-evaluation of proposals visual potential impact on amenity value for viewpoints at short distance mitigated by screening and viewer attitude.

Proposal specific applicant feasibility report. Visibility analysis guidelines-University of Newcastle for Scottish Natural Heritage Association, In house previous wind farm assessments. cadastral data and secondary source property ownership data. Cumulative definition, effects, sources (Spon, 2002 and Landscape Design Associates, 2000), NZEECA guidelines.

Descriptive text, Zvi map, viewpoint location map, table of viewpoint location and characteristics, simulation photographs from viewpoints, viewpoint visual impact rating table, selected building viewpoint location map and table showing number of turbines visible.

Wind Farm resource consent (1) -DC application for incorporation	local tangata when	ua land owner	
	Objective/Subjective		
Steps	Resources	Presentation	
9. Mitigation strategies -description of mitigation strategies used in	Objective -description of mitig	ation strategies.	
proposal design.	Subjective -evaluation of strate potential adverse e	egies ability to mitigate ffects.	
	Proposal specific application AEE documentation.	Descriptive text.	
10. Summary of natural character, landscape and visual effects	Subjective -evaluation of magnitude of proposals over effects.		
-overall evaluation of landscape and visual effects.			
-overall evaluation of effects on natural character. (reference made to: existing land use, existing modification to natural character, isolation of proposal site, mitigation provided by landform and forestry, ONF/L status of proposal site, effects on; visual integrity, landscape values, natural character, localized effects, external effects, local community support).		Descriptive text.	

Wind Farm resource consent (2)- EC hearing evider	Objective/Subjective	tive
Steps	Resources	Presentation
Scope of assessment -landscape and visual assessment (stops) at the transport of the second planning framework and incoment.	Objective The Brief	
(steps: statutory and planning framework, environment and proposal, effects on natural character and amenity values, past wind farm assessment relevance, adverse effects mitigation).		Descriptive text
2. Planning framework	Objective	
-RMA, s 5, 6(a), 6(b), 7(c), 7(f) including proposal site ONF/L status.	-direct quotes from secondary sources.-ONF status in proposal site.-description of use of RMA s 5 in additional	
- NZCPS 1.1.1 and 1.1.3 .	wind farm EC decis	
-Regional Policy Statement (provisions relating to: coastal escarpments, natural character, and ONF status).	Objective/Subjective -selection of planning framework.	
-Regional Coastal Plan (provisions relating to: amenity values, natural character).	Subjective -evaluation of the relevance of past wind fa EC decision.	
-District Plan (provisions relating to: amenity values, rural character, non rural activities, natural features, coastal environment, coastal marine environment, ridgeline and hilltop overlay, wind energy facilities [discretionary activity] assessment criteria for adverse effects; amenity, nuisance, visual effects, extent of earth works, compatibility with rural design guide, cumulative effects).	RMA, NZCPS, RPS, RCP, DP, past wind farm EC evidence documentation - same author.	Descriptive text, direct quotes.
3. Existing site and proposal	Objective -description of the site and the proposal.	
-biophysical and cultural characteristics of site and	·	
proposal (assumptions made re wind turbine height).	Wind farm data- applicant, previous proposal specific resource consent application assessment documentation.	Descriptive text, direct quotes form secondary sources.

	Objective/Subjective	
Steps	Resources	Presentation
ent of proposal sites status as a coastal tlinked with RMA 6 a)and the biophysical characteristics of proposal site (land form, land use) including significant detractors I character (buildings, power cables, and cover. -application of 6a) to description of the proposal site (land form, land use) including significant detractors I character (buildings, power cables, and cover.	proposal site natural he unit ratings from Indary source proposal site ural character ratings. ficant existing natural	
site-secondary source.	Wind farm data- applicant, previous proposal specific resource consent application assessment documentation.	Descriptive text, direct quotes from secondary sources, table summarizing proposal site landscape unit natural character rating based on secondary source assessment information.
uation of ONF/L status of the proposal	Objective -direct quotes status of areas within the proposal site	
e for inclusion of proposed Regional pe Plan in assessment.	RMA, RPS, proposed	Descriptive text, direct quotes from secondary
ces to provisions and status in the proposal site ating to:	Landscape Plan	
landscapes and seascapes of regional or national significance		
outstanding natural features, landforms and sites of historical significance		
outstanding landscapes		
significant landforms		
geological features and landforms		
peneplain remnants		
	ral character of the proposal site coastal ment on of proposal sites status as a coastal ment linked with RMA 6 a)and the biophysical and characteristics of proposal site (land form, er, land use) including significant detractors and character (buildings, power cables, land cover. Character rating of landscape units within site-secondary source. The for inclusion of proposed Regional pe Plan in assessment. The set to provisions and status in the proposal site ting to: Ilandscapes and seascapes of regional or national significance outstanding natural features, landforms and sites of historical significance outstanding landscapes significant landforms geological features and landforms	ral character of the proposal site coastal ment on of proposal sites status as a coastal tent linked with RMA 6 a) and the biophysical tent linked with RMA 6 a) and the biophysical tent linked with RMA 6 a) and the biophysical tent characteristics of proposal site (land form, er, land use) including significant detractors ural character (buildings, power cables, land cover. Character rating of landscape units within site-secondary source. Character rating of landscape units within site-secondary source. Wind farm data-applicant, previous proposal specific resource consent application assessment documentation. Ination of ONF/L status of the proposal specific resource consent application assessment documentation. Objective -evaluation of secon landscape units within site-secondary source. Wind farm data-applicant, previous proposal specific resource consent application assessment documentation. Objective -direct quotes statu proposal site ting to: Inandscapes and seascapes of regional or national significance outstanding natural features, landforms and sites of historical significance outstanding landscapes significant landforms geological features and landforms

Wind Farm resource consent (2)- EC hearing evider		4:
Steps	Objective/Subjective Resources Presentation	
·		
6. Proposal site amenity value status -7 c), 7f)	Objective -direct quotes from	RMA, DP.
- DP provisions relating to: • Open space	Objective/Subjective -selection of secondary source sections/policies.	
Rural Design Guideline		
 Ridgeline and Hill top overlay Discretionary activity assessment criteria 	RMA, DP Previous proposal specific resource consent application assessment documentation.	Direct quotes, descriptive text.
7. Proposal site ONL status -definition of ONF/L and assessment criteria: natural science factors, aesthetic values, expressiveness, transient values, values shared or recognized, value to Tangata Whenua, historical associations. -evaluation of proposal site ONF/L status.	Objective - designated ONF/L areas within the site secondary source. Subjective -evaluation of non designated areas which are potentially ONF/L or features versus landscapes.	
	RMA, previous EC decisions case law (Pigeon Bay and Wakatipu), RPS, proposed Regional Landscape Plan, previous site specific resource consent application assessment documentation.	Descriptive text, direct quotes from secondary sources.

Wind Farm resource consent (2)- EC hearing evider		
Steps	Objective/Subjective	
	Resources	Presentation
8. Proposal site natural character status and effects of proposal on natural character.	Objective -direct quotes from secondary sources.	
-definition of natural character. -description and, evaluation of factors that influence (existing loss, and protection, scale and location of proposal) the consideration of proposal effects on natural character. -evaluation of existing contributors to loss of natural character in proposal site area. -evaluation of proposals effects on natural character (relating to; views, viewpoints, visibility and dominance). -overall evaluation of the proposals adverse effects on natural character linked to specific turbines, mitigating factors (e.g. existing landform, brevity of view) and 6 a) compliance. -evaluation of proposals adverse effects on natural character related to past wind farm EC decision and s5 of RMA.	Objective	

Steps	Objective/Subjective	
	Resources	Presentation
9. Amenity value status and effects -definition of amenityidentification of the proposals most significant potential amenity effects (noise [outside this assessment] and visual amenity particularly for residents in close proximity to turbinesidentification of resident locations most affecteddescription of factors that influence visual amenity effects: distance, backdrop, complexity of vegetation and landform, extent of turbine visible, elevation of turbine, expanse of vista, house design, screeningevaluation of proposal visual amenity effects for each affected resident location using influence factors as criteriaevaluation of shadow and flicker effects including mitigation strategy (low reflective paint).	Objective -direct quotes from -description of prop proportion etc) from affecteddescription of flick Objective/Subject -identification of res affected - identification of fa amenity effects. Subjective -identification of inf each affected resid -assertion that a m influence factors m adverse effects. evaluation of overa each affected resid opinion, the effect of significant"evaluate	secondary sources posal visibility (duration, no resident locations most er effects and duration. ive sident locations most ctors that influence visual luence factors relevant to lent location.

Wind Farm resource consent (2)- EC hearing evider	ice for DC.	
01	Objective/Subjective	
Steps	Resources	Presentation
10. Proposal DP policy compliance linked to provisions concerning effects on: rural character amenity values (linked with discretionary activity compliance DP guidelines) earth work effects	Objective -reference to discretionary activity rules in DP. Subjective - evaluation of wind turbines as 'engineered [in]character' not industrial modifying rural character but not causing a loss ofevaluation of proposals effects on amenity values (see step 9)earth work effects; determination of overall impact.	
	DP, RMA	Descriptive text.
11. Conclusion-identification of location of turbines with significant adverse effects on;natural character	Objective -direct quotes from secondary sources. Subjective -summation of overall effects and proposal links/compliance with RMA.	
 amenity values evaluation of mitigating factors (e.g. existing landform, proposal characteristics) and additional mitigation recommendations at these locations (e.g. screen planting). 	RMA.	Descriptive text.
-adverse effects linked to RMA in terms of matters that are given regard (amenity), matters of national importance that should be recognized and provided for (natural character) and the subjectiveness of these to s5 sustainability requirements.		

Section 3: Assessment Criteria and Definitions

Assessment criteria and definitions identified in the professional informant assessment documentation are summarised under the following headings and listed by resource consent application context e.g. subdivision, marina etc.

- Visual characteristics
- Viewpoint selection criteria
- Viewpoint types
- Viewpoint existing characteristics criteria
- Viewpoint existing value criteria
- Viewer sensitivity criteria
- Viewpoint sensitivity criteria
- Visual absorption capability ratings
- Visual absorption capability criteria
- Visual impact levels
- Visual impact viewpoint criteria
- Visual effect types
- Visual effect levels
- Visual effects viewpoint criteria
- Visual effect proposal criteria
- Landscape sensitivity criteria
- Landscape effects criteria
- Natural Character definition
- Natural Character criteria
- ♦ Natural Character proposal effect considerations
- Natural character effects criteria

Visual characteristics

Sample 1: Subdivision

- naturalness
- memorability
- coherence
- intactness

Viewpoint selection criteria

Sample 1: Wind farm

- publicly accessible.
- providing a representative range of viewing distances.
- providing a representative range of viewing experiences.
- having a reasonably high potential number of viewers.

Viewpoint types

Sample 1: Marina

- ♦ Close –within 500m
- ♦ Mid ground –between 500-1000m
- Distant views-over 1000m

Viewpoint existing characteristics criteria

Sample 1: Subdivision

- ◆ Location: geographical location, height above sea level, distance to proposal.
- Viewing Audience: type and size of audience, are they static or moving, residential or recreational.
- ♦ **View Type**: is the view panoramic (over 180°) expansive (90° to 180°), or enclosed (less than 90°).
- Existing View Components: description of the main elements within the view.
- Landscape Sensitivity: what is the overall level of landscape sensitivity in the view from this location? This is based on a combination of the landscape's ability to absorb change (i.e. its degree of modification, nature of existing vegetation and topography) and its quality.

Viewpoint existing value criteria

Sample 1: Apartment

(5 point scale) no value-----moderate----very high value

- ◆ Composite Aesthetic Value: vividness / memorability, diversity & cohesion
- Spatial Structure: key landmarks & legibility of spatial patterns
- Natural Character
- ◆ Urban Pattern & Form Streetscape

Viewer sensitivity criteria

- ♦ Extent of view (narrow versus panoramic)
- Distance (to object/s creating visual change-the proposal)
- ◆ **Elevation** (markedly above or below eye level will increase effects)
- Portion of the view (that the proposal would feature in)
- Contrast (of proposal in terms of scale, line, form, colour etc. with existing features)
- Duration of view (viewer stationary, walking, traveling by car)
- Presence of view cues (e.g. directional or framing elements)
- Orientation of view (from an existing viewpoint e.g. from lounge windows, towards the rising sun)
- Frequency of view (is this an existing viewpoint for large numbers of people)
- Permanence of view (is this a view experienced by residents or transients)
- ◆ **Purpose of view** (is this a view experienced intentionally e.g. by tourists, residents, recreators or incidentally e.g. by employees, travelers)
- Perception of existing view quality/values (e.g. as a regional landmark, representing 'wilderness' etc.)
- Perception of proposal characteristics visual quality/value.
- Official status of view (in RP or DP for example e.g. scenic roadways)

All things being equal a viewer will be likely to experience adverse visual effects from object/s creating visual change-the proposal- that are: close, a significant part of a narrow view and where the proposal is in distinct contrast with its surroundings.

The affects are also likely to be more adverse if the viewer can see the proposal for a long time, where there are cues to look in that direction, from a known view point that is used often, on purpose and where the existing view holds values or importance. Numbers of viewers may also add significance to the effects (but not necessarily, particularly in areas valued for their naturalness/wilderness).

Similarly the most sensitive viewers are likely to be residents (in particular those that have moved to the area more recently) and special interest groups particularly those who use value the area for recreation, conservation and investigation (scientific/artistic).

Viewpoint sensitivity criteria

Sample 1: Apartment development

(5 point scale) no value-----moderate----very high value

- Physical Elevation & Prominence
- Existing Land Uses
- Topography
- Vegetation Cover
- Outlook / Key Views

Visual absorption capability ratings

Sample 1: Marina development

Very Low

- a) The proposed development will be highly visible and may act as a primary focal attraction or feature. It would also be expected that the proposed development will significantly alter the existing character of the surrounding landscape or view in which it is seen, and/or;
- b) The development will introduce a new visual element into the landscape or view which will be significantly different in appearance or scale from the landscape elements surrounding it, and/or;
- c) The development would be found very rarely in that or similar landscape types.

Low

- a) The proposed development would be clearly visible but would not act as a primary focal attraction, and/or;
- b) It would be expected that the proposed development would alter the existing character of the surrounding landscape or view in which it is seen, and/or;
- c) The development may introduce a new visual element into the landscape or view. The development may be viewed infrequently in that or similar landscape types.

♦ Neutral

- a) The proposed development would neither be screened nor become a visual intrusion or focal attraction within the landscape or view in which it is seen. The proposed development may act as a minor focal attraction from some locations, and/or:
- b) The development would not affect the existing character of the surrounding landscape overview in which it is seen, and/or;
- c) The development would introduce a visual element into the landscape or view which may be viewed occasionally in that or similar landscape types.

Moderate

- a) The proposed development would be partially screened or visually absorbed by existing landscape features but still readily identifiable. The development may act as a secondary focal attraction within the landscape or view in which it is seen, and/or;
- b) The development would not affect the existing character of the surrounding landscape or view in which it is seen, and/or:
- c) The development may also introduce a visual element into the landscape or view which maybe viewed commonly in that or similar landscape types.

♦ High

- a) The proposed development would be mostly screened or visually absorbed by existing landscape features but still be identifiable. The development may act as a tertiary focal attraction within the landscape or view in which it is seen, and/or;
- b) The development would not affect the existing character of the surrounding landscape or view in which it is seen, and/or;
- c) The development may introduce a visual element into the landscape or view which may be viewed frequently in that or similar landscape types.

♦ Very High

- a) The proposed development would be completely screened, almost completely screened or completely absorbed by existing landscape features. Any views of the development would be either unidentifiable or at a great distance, and/or;
- b) The development would not affect the existing character of the surrounding landscape or view in which it is seen, and/or;
- c) The development would introduce a visual element into the landscape or view which may be viewed very frequently or continuously in that or similar landscape types.

Visual absorption capability criteria

Sample 1: Subdivision

The Visual Absorption Capability rating (VAC) is an indicator of a landscape's ability to absorb visual change affected by:

- viewer proximity,
- site visibility
- ♦ scale of development
- the nature of the development
- topographical features
- location and density of surrounding vegetation cover
- scale and type of surrounding development and
- existing landscape character

Sample 2: Marina development

A Visual Absorption Capability rating (VAC) is an indicator of a landscape's ability to absorb visual change, that is how well a landscape can either screen or hide a development or how well a development integrates with the surrounding landscape without changing its essential character and qualities. It is influenced by:

- ◆ The degree to which a development is visible.
- Visual and physical links with other similar elements in the landscape.
- The level of modification to the surrounding landscape.
- Appropriateness of scale.
- Distance.
- Backdrop.
- Atmospheric conditions

Visual impact levels

Impact versus effects

Visual impact of a proposal, that is the change to the view or landscape, which can largely be measured or described in an objective manner, and the

Visual effects which a change in landscape character or quality will have for the viewing audiences involved.

Sample 1: Wind Farm

- ◆ Dominant: The feature has a defining influence on the view and is a focus in the view (for example, when viewed from within the subject site boundaries).
- Prominent: The feature is clearly visible in the view and forms an important but not defining element of the view.
- Present: The feature is neither dominant nor prominent, but is visible in the view (for example, when viewed from within the wider landscape at a distance of around 5.0km).
- ◆ **Negligible:** The feature is visible but may go unnoticed as a minor element in the view, or is not visible (for example, when viewed at a distance of around 10.0km or greater).

Visual impact [viewpoint] criteria

Sample 1: Subdivision

- View Obstruction: which elements of the proposal block/screen which components of the
 existing view and what is the nature or significance of these components, e.g. are they
 landmarks or notable features.
- ◆ Landscape Contrast/Coherence: how does the proposal contrast/provide coherence with the existing views of the landscape.
- Prominence within Photoframe: within the specific photoframe how prominent will the proposal be.
- ◆ Relationship to Overall View: given the extent of the overall view (i.e. View Type) how does the proposal relate to this scope.

Sample 2: Subdivision

- ◆ Specific Photoframe: the 50 mm (45°) photo.
- ◆ **Total View**: within the total context of the view.
- Potential for Mitigation: to what extent can the proposal be mitigated.

Visual effect types

Sample 1: Subdivision

- Positive (beneficial), contributing to the visual character and quality of the environment.
- Negative (adverse) detracting from existing character and quality of the environment; or
- Neutral (benign), with essentially no effect on existing character of quality of the environment.

Sample 2: Subdivision

- Enhance the quality of the landscape/be positive or beneficial
- Detract from the existing character
- ◆ Be neutral or benign have essentially no effect.

Visual effect levels

Sample 1: Subdivision

- Severe effect Unacceptably high visual effects.
 Where the proposal becomes the dominant feature in the scene, landscape elements become subordinate and the quality and character of the landscape is significantly affected.
- High effect High visual effect Where the change may form a significant and immediately apparent part of the scene and where it will affect and change the overall landscape character.
- Moderate effect Visual effects of some significance Where the change may form a visible and recognisable new element within the overall scene and where it may have a noticeable impact on the viewer
- Low effect No more than minor visual effects under the RMA Where the change may have no more than a minor effect on the existing view. The proposal constitutes a minor component of the wider view and awareness of the proposal will not have a marked effect on the overall quality of the scene.
- ♦ No effect No visual effects Where no part of the proposal is discernable.

Visual effects [viewpoint] criteria

Sample 1: Subdivision

- degree of contrast with surrounding landscape
- landscape absorption ability
- proposal visual or physical links with landscape and background.
- size and location of visual catchment
- numbers and type of viewing audience [residents, motorists etc.]
- extent [proportion], dominance [distance] and duration[permanent/temporary, frequency] of views
- elevation of view [higher-more effects]

Visual effects [viewpoint] criteria.....

Sample 2: Subdivision

- distance between the viewer and the development,
- extent of visibility of the development,
- portion of the view: that would be occupied by the development (prominence).
- view type: panoramic (180 degrees), expansive (90-180 degrees), or enclosed (less than 90 degrees) and whether the view is transient (from a roving vehicle) or stationary (from a window in a house),
- visual coherence or contrast: of proposal with its surroundings
- size of the viewing audience

Sample 3: Subdivision

- extent of contrast with existing landscape
- ◆ scale of proposal in relation to ""
- extent of proposal visibility
- height of proposal in relation to viewer,
- distance to the proposal
- duration of view
- extent to which proposal complements existing landscape character

Sample 4: Subdivision

- Distance to proposal site
- Sensitivity of viewers from that viewpoint
- ◆ Nature of view (open /enclosed)
- Degree of visual intrusion (full/partial/glimpse/none) proportion of the view occupied by the proposal
- ♦ Proportion of the proposal visible
- Transient or fixed view
- Magnitude of effect during: construction, year 1, year 15 (high, medium, low, nil)
- Significance of effect (substantial, moderate, low, negligible)
- Effect classification (neutral, positive, negative)
- Residual effects (long term, cumulative)

Visual effects [viewpoint] criteria

Sample 5: Apartment development effects on residential amenity and streetscape character

Effect modifiers considered -distance to site, intervening buildings/vegetation, relative elevation/topography, site context.

(5 point scale) minimal effects-----moderate----severe effects

- Aesthetic Value
- Residential Character
- ♦ Spaciousness & Gardens
- ♦ Building Dominance
- ♦ Privacy
- ♦ Built Form & Scale Pattern
- ♦ Building Density & Distribution

Sample 6: Wind farm development

- Distance greater distance to the turbine reduces the visual effect on amenity
- Backdrop whether the turbines are seen against the sky or not, with a sky backdrop having a greater contrast and adverse effect
- Complexity of vegetation and landform— the greater the diversity, the greater the absorption capacity of the landscape to reduce the adverse visual affect
- Extent of turbine visible full turbine exposure normally has greater adverse effect than partial exposure, but this can vary with viewers' personal preference
- Elevation to turbine turbines normally have greater adverse visual
 effect if level with or higher than the viewer, but there is a limit at which the turbine
 become sufficiently elevated to start to reduce in adverse effect as it moves out of the
 main angle of view
- ♦ Expanse of vista a wide angle of view allows the adverse visual effect of turbines to be reduced as more features are seen in the view. Conversely, a narrow angle of view can focus attention, increasing the effect of the turbines.
- Screening local screening, garden layout, fencing and hedging can have significant benefits in terms of providing immediate separation of the turbines from activities near the house
- ♦ House design orientation of the house and rooms within it, layout of the rooms within the house, layout of windows, location and orientation

Visual effect [proposal] criteria

Sample 1: Marina development

- Spatial influence at local, regional or national levels;
- **Duration:** Is the effect short, medium or long term;
- Permanence: Is it reversible or irreversible; and
- Recurrence: Is it a cumulative effect, does it set precedence or is it an isolated development.

Landscape sensitivity criteria

Sample 1: Subdivision

- landscape value [i.e. significance].
- quality [i.e. vividness, coherence, intactness] and character.
- ability to absorb development [dependent on: topography, vegetation, existing development, scale of landscape, patterns and level enclosure].
- existing landuse.
- nuisance effects of proposal [glare, noise, dust etc.].
- adverse environmental effects "" [weeds, erosion etc.].
- quality of proposal and mitigation [i.e. positive impact on landscape character/quality and environmental health].
- impact on ecosystems of proposal.

Landscape effects criteria

Sample 1: Wind farm

- changes to the landscape or views that would be caused by the proposal and its infrastructure.
- the magnitude of the changes.
- the timing of the effects, i.e. whether during construction phase or the operational phase or both.
- whether the effect is direct or indirect, for example, damage or disturbance of regenerating native vegetation and/or earthworks has a direct effect, whereas the change to landscape character of an area from which the proposed extension is visible is an indirect effect as it involves perception of the landscape;
- the reversibility of the effects, that is whether at some future date the elements that
 cause the effects could be removed and hence the effects reversed.

Natural Character definition

Sample 1: Subdivision

"Natural character is a term used to describe the naturalness of all coastal environments, wetlands and lakes and rivers. The degree or level of natural character within an area depends on;

- The extent to which natural elements, patterns and processes occur.
- The nature and extent of modifications to the ecosystems and landscape/seascape.

The highest degree of natural character (greatest naturalness) occurs where there is least modification.

The effects of different types of modification upon the natural character of an area vary with the context, and may be perceived differently by different parts of the community". *Boffa Miskell Ltd.* (2000, 2002).

Natural Character criteria

Sample 1: Subdivision

Consists of natural elements, patterns and processes associated with:

- ◆ Landform
- ♦ Waterform
- Built elements
- Infrastructure
- Vegetation (indigenous)
- Vegetation (exotic)

Natural Character proposal effect considerations.

Sample 1: Wind farm

- Is the area in question already affected by the loss of natural character?
- ♦ Is the natural character of the environment preserved and protected in terms of section 6(a) notwithstanding the development?
- Is the location and scale of the proposal on this site inappropriate?

Natural character effects criteria

Sample 1: Apartment development-analysis by viewpoint

Effect modifiers considered -distance to site, intervening buildings/vegetation, relative elevation/topography, site context.

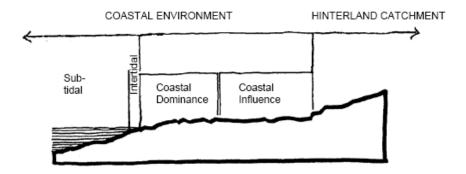
(5 point scale) minimal effects-----moderate----severe effects

- Proposal obstruction of views to areas of high natural character
- Proposal effect on the integrity of natural character in the area.
- Topographic profile of the proposal site/area (relief will tend to reduce adverse natural character effects)

Coastal environment zones

Sample 1: Coastal environment rural subdivision

- ♦ coastal marine zone -out at sea
- active coastal zone-where the waves wash at low and high tide including the fore dunes or rock platforms
- ◆ coastal dominance zone –the back dune system or coastal cliffs
- ◆ coastal influence zone- behind the coastal dominance zone to the nearest ridgeline



Sample 2: Wind farm

- coastal dominance is visually discernible from the zone of coastal influence due to derived landforms, for example dunes, cliffs, headlands, etc. The width of the zone of coastal dominance obviously varies along the coast
- coastal influence zone is an area that is still visually (and to an extent ecologically) very much part of the experience of the coastal environment, but which has a less immediate relationship with the sea. Again, the extent of this zone is variable. In general terms, the extent of the zone of coastal influence can be defined as either the first visually enclosing ridgeline or a distance of 5-8km from mean high water springs, whichever is lesser.

Section 4: Professional Informant Interviews

Key professional informants from 10 Landscape Architecture firms in the Hawkes Bay, Hamilton, Auckland and Whangarei were interviewed during late November 2006. Each interview took approximately 1 ½ hours. The informants had been given an opportunity to critique the questions and were sent the final version several days prior to the interview.

A summary analysis of the interview responses is presented here highlighting issues and opportunities related to visual assessment best practice methodologies in the context of a resource consent application in the coastal environment. This section also attempts to reflect issues and opportunities relating to the broader contexts of assessment, design and the profession raised by the informants.

Where appropriate to the question, some (no doubt subjective) indication of the frequency with which similar responses emerged is given i.e.

Always a view expressed by all respondents

Nearly always a view expressed by most (7-9) respondents

Often a view expressed by a some (3-6) respondents

Occasionally a view expressed by a few (1-2) respondents

Note: Response frequency needs to be viewed in the context of the question i.e. the summary attempts to present an analysis of all responses whether or not they related directly to the question.

1. What are the key steps used by your office in proposal VBPM associated with a resource consent application in a coastal environment?

Responses to this question in association with the analysis of assessment documentation provided by the key professional informants was used to develop a VBPM Flow Chart of assessment checkpoints presented in Section 1 of this report.

2. In what steps are objective (quantifiable) and subjective (qualifiable) criteria used and how important are these in the overall process?

Responses to this question:

- Were (no doubt) influenced by the respondent's understanding or perception of objectivity and subjectivity.
- Were highly variable i.e. they ranged from "it's all subjective" to "it's all objective".
- Nearly always indicated that a foundation of objective assessment components or steps lent authenticity/credibility to the subjective components of the assessment and ideally form a significant/larger part of the assessment.
- Nearly always indicated greater use of objective criteria in determining: the assessment context, the existing environment, proposal characteristics, the visual catchment and visual change resulting from the proposal (see Section 1: VBPM Flow Chart).
- Nearly always indicated use of subjective criteria in the assessment process as important and inevitable i.e. assessment requires an application of professional opinion.
- Often indicated the subjective steps of assessment were more credible if the proposal incorporated (but did not necessarily make direct reference to) values ascertained from direct or indirect public consultation (see Question 6).
- Often indicated that subjective criteria are used to determine levels of sensitivity (to the visual change resulting from the proposal) and, subsequently, the response or visual effect of the proposal on the viewing audience (see Section 1: VBPM Flow Chart).
- Often indicated that the use of numbers (particularly in relation to subjective criteria e.g. visual absorption ratings) resulted in the loss of valuable information about a proposal's effects.
- Often cautioned against making assumptions regarding actual viewer sensitivity and viewer response to visual changes (resulting from the proposal) highlighting the potential differences between this and professional opinion (irrespective of the use of a rationalised assessment methodology).
- Often indicated that explicit and rationalised criteria lent transparency and credibility to the assessment process.
- Occasionally indicated that explicit and rationalised criteria lent objectivity to the assessment process.

3. How does the use of visibility and simulation digital technology contribute to your VBPM?

Responses to this question indicated:

- Visibility and simulation digital technologies are not always used in VBPM and their level of use is dependent on the size of the proposal.
- Visibility and simulation digital technologies are a tool that can help communicate a complex situation. They are not the assessment.
- ♦ The most commonly used VBPM visibility and simulation digital technologies included:
 - Topographical maps and aerial photographs overlayed with proposal and assessment key locations e.g. building platform parameters.
 - Plan graphics of proposal design concepts, master plans, and soft and hard work implementation plans particularly planting plans.
 - o Diagrams/sketches of proposal components e.g. wind turbine, house profiles.
 - Perspective drawings of the proposal from selected viewpoints using e.g. Vectorworks.
 - Single frame images of the area and proposal site taken using a (typically) 50mm lens digital camera.
 - 'Stitched' panoramic images of the area and proposal site.
 - Images that simulate visual changes resulting from the proposal on the site utilising modeling and image manipulation software e.g. Photoshop.
 - Graphical Information System (GIS) visibility analysis/viewshed analysis maps
 utilising digital terrain models (DTM) and (at times) other features of known height
 to create maps of proposal visibility. Laser Imaging Detection and Ranging
 (LIDAR) technologies were noted for improving the accuracy of base information
 used in GIS.
 - 3D interactive modeling e.g. using K2Vi (Key to virtual insight) software enabling interactive 'flight path' analysis of the proposal. Most commonly used in the EC.
- Digital technology issues identified included:
 - Cost and related to that,
 - Difficulties experienced in convincing clients of the value of digital technology graphics in the resource consent application process.
 - Technical and interpretive skills required to minimise and ascertain errors, verify digital technology graphic construction to decision makers and effectively peer review assessments.
 - Confusion caused by the use of varying digital technologies. In particular, debate concerning the most appropriate lens size to use (50mm versus 24mm, versus 90 mm).
 - Limitations of topography based analysis which over represent areas of proposal visibility by discounting the effects of other screening elements – trees, buildings etc.

- Reality limits-the authenticity or accuracy of the graphics produced are dependent on input data quality and quantity and the capability of the technology used. K2Vi was mentioned in particular here e.g. where it is difficult and expensive to accurately represent colours/textures contributing to the over or under representation of visual effects. And, related to this
- Lack of understanding/acknowledgement by some landscape architects, decision makers and members of the public of digital technology reality limits (even photographs are simulations). And, related to this...
- The potential use of digital technologies to create non authentic simulations e.g. through selective use of viewpoint, lens size, non existent panoramas, and print size etc.
- A perception by some landscape architects that digital technologies graphics may in some way 'blind' members of the profession, decision makers and members of the public and exacerbate the under representation and reduced consideration of the importance of the other experiential (sound, movement, smell etc.) and landscape effects.
- Digital technology benefits (where errors are minimised, and limitations and assumptions fully understood) identified included:
 - Value in the design iterative process e.g. in the simulation of alternative proposal characteristics/locations which might generate less adverse visual effects and/or positive visual effects.
 - Potential ease of producing a greater range of graphics which complement and at times supersede text and numbers as a communication tool.
 - Potential ease of producing non plan graphics e.g. 3D models which are more easily interpreted by non landscape architects.
 - Greater accuracy in determining proposal visibility where the size of the proposal site, the variable terrain and restricted public access make it difficult to do so in the field.
 - Greater accuracy and efficiency in determining the most critical viewpoints or critical zone of visual influence which can streamline field work.
 - Greater accuracy and efficiency in the identification of viewer group sensitivity and visual effects when used to assist public consultation assessment processes.
 - Similarly, digital technology graphics may assist decision makers by facilitating a
 greater understanding of the visual change and potential response or visual
 effects that result from a proposal.

4. How important and separate is the visual component in the overall resource consent assessment process?

All respondents indicated that a VBPM forms part of a combined landscape and visual effects assessment and that this is typically part of broader AEE (Assessment of Environmental Effects) process in a resource consent application.

On the importance of the visual (effect) component of the assessment process:

Responses to this part of the question:

- Generated a broad range of response.
- Always indicated that assessment of landscape effects was just as important as the visual.
- Nearly always indicated that the assessment of landscape effects was more important than the assessment of visual effects.
- Nearly always indicated that visual effects are perceived as very important by members of the public, developers and decision makers.
- Nearly always indicated that visual effects and landscape effects may overlap i.e. some landscape effects will have visual attributes and vice versa.
- Often indicated that importance is dependent on the context of the resource application i.e. in some cases the potential visual effects will be minimal and the landscape effects significant and vice versa.
- Often indicated involvement in the design process reduced the importance of visual assessment where adverse visual effects are minimised and positive effects integrated.
- Often indicated that assessment of landscape and visual effects had a significant influence on resource consent application outcomes when compared with other types of assessment included in an AEE.
- Often indicated that other landscape architects and decision makers over emphasised the importance of visual effects in a resource consent application.
- Often indicated that level of importance is determined by the RMA s7c) i.e. that visual effects are matters to have regard to (in contrast to e.g.6a) a matter of national importance). And that, the importance of visual effects is increased by explicit reference in Schedule 4 and by the definition of amenity in the RMA.
- Often indicated assessment of visual effects is not over emphasised by the profession or decision makers and reflects the importance of vision in the perception of our environment and of landscape character.
- Occasionally indicated that the assessment of visual effects can delay the decision making process e.g. where an assessment of visual effects is required by councils even for permitted activities.
- Occasionally indicated a focus on visual effects in the assessment process may directly contribute to unsustainable development outcomes and a resistance to change.

- Occasionally indicated a focus on visual effects in the assessment process may directly contribute to a disregard of other factors that contribute to amenity e.g. noise, glare, smells, movement.
- Occasionally indicated that visual effects assessment assumes greater importance in the
 decision making process as a result of a focus on the landscape values associated with
 character: natural, urban, rural, and coastal, and ONF/L which are assessed using the visual
 resource of the landscape.

On separateness of the visual (effect) component of the assessment process:

Responses to this part of the question:

- Always indicated inclusion in a combined landscape and visual effects assessment process.
- Nearly always indicated a preference for the inclusion of VBPM in a design iterative based assessment.
- Nearly always indicated significant points of overlap in the assessment of landscape and visual effects i.e. in establishing the assessment context, the existing environment and the proposal characteristics (see Section 1: VBPM Flow Chart).
- Nearly always indicated significant points of separation in the assessment of landscape and visual effects i.e. in the analysis of the proposals visual catchment, (versus landscape catchment) and in the analysis and evaluation of the visual change (versus landscape change) resulting from the proposal and the subsequent visual effects (versus landscape effects) of that change.
- Occasionally indicated the use of Integrated Catchment Management principles as an assessment methodology and associated design practice guide that minimises negative visual effects incidentally.

- 5. What theories are these VBPM steps based on? For example:
 - ♦ Landscape theories related to
 - aesthetics
 - concept of landscape
 - landscape assessment

Professional informant response to this question was often pre empted by a discussion exploring and qualifying the meaning/s of aesthetics, concept of landscape and landscape assessment and possible theoretical models.

Occasionally respondents queried the separation of aesthetics, concept of landscape and landscape assessment in the question.

On aesthetics

Response to this part of the question:

- Nearly always indicated theories of aesthetics informed VBPM unconsciously and/or insignificantly.
- Often indicated uncertainty about the theories of aesthetics and how they might influence assessment practice.
- Often indicated respondents thought landscape was much more than aesthetics.
- Occasionally made reference to their assessment documentation (see Section 2: Assessment examples) which integrated explicit, justified application of specific aesthetic models.
- In subsequent discussion respondents indicated:
 - Formal aesthetics informed their assessment process through the use of criteria such as; unity, harmony, proportion, variety, scale, line, form, colour and texture.
 - Values associated with aesthetic perceptions of 'naturalness', 'wilderness' and unmodified landscapes are supported by the RMA, are reflected in assessment criteria and the decision making process.
 - Aesthetic coherence (integration) values are supported by assessment criteria, the RMA and the decision making process.
 - Picturesque and sublime criteria (e.g. ruggedness, naturalness, prominence) are used to identify existing landscape values in the proposal region/district or site.
 - Associations with picturesque aesthetics in VBPM are supported by a focus on view points, the use of photography and terminology used to describe pictures e.g. backdrop, framed by, panoramic.

- Use or consideration of the aesthetics of appropriateness or 'sense of place' related to the concept of genius loci.
- Contrast and conflict between anthropocentric notions (associated with assessment criteria such as coherence, complexity, mystery and legibility) of biological aesthetics related to creating landscapes supporting human survival and prosperity and,
- Wide spread support for the use of ecological/sustainable principles in design and issues surrounding 'what might look good, may not be good'.
- When defined in its wider sense (sight, smell, experience, memory etc. i.e. all the senses) aesthetics can be synonymous with a holistic concept of landscape.
- Evident colonial Arcadian/pastoral and picturesque values tend to support the retention of status quo landuse in rural landscapes which may not be sustainable.

On concepts of landscape

Response to this part of the question:

- Always made reference to landscapes integration of biological, physical, perceptual/experiential and cultural components.
- Always indicated a concept of landscape that included patterns and processes.
- Always described landscape as temporal/changing.
- Nearly always indicated the importance of cultural values (several mentioning lwi values) in the landscape.
- Nearly always made reference to the "Pigeon Bay" criteria (natural science factors, aesthetic values, expressiveness, transient values, values that are shared and recognised, value to tangata whenua, historical associations) as a definition of landscape and within this:
 - o Often indicated that use of the criteria was pragmatic associated with the EC.
 - Occasionally highlighted concerns for the potential for these criteria to be reserved for assessing ONF/L.
 - Occasionally indicated that by using the EC classification of landscapes: 'outstanding, rural amenity or other' other landscapes are potentially denigrated in terms of resource management.
- Often indicated the need for further research into public perception and preference particularly in terms of lwi values
- Often indicated the need for further research in relation to cumulative effects, threshold points and the calibration of inappropriate change-"how much is too much".
- Occasionally mentioned Simon Swaffield and John Fairweather's public perception landscape preference studies as a source of information on New Zealanders landscape values.

On landscape assessment approach (expert assessment versus public consultation)

Response to this part of the question:

- Always indicated greater use of expert assessment in resource consent applications was pragmatically driven by the cost of public consultation. Direct and indirect methods of public consultation used and associated issues are further discussed in Question 6.
- Always indicated their preference for involvement in assessment as part of a design process allowing greater opportunities to avoid adverse effects and integrate positive effects but noted that only 50% of their assessment work included a significant design focus.
- Always supported variability in assessment approaches used by landscape architects but indicated the need for standardised/mandated.
 - Terminology (and definitions).
 - Digital technology use at (particularly EC) hearings.
 - Checkpoints of assessment (agreement on the relevant objects/subjects of assessment for a particular context, proposal).
 - Rationalised/clear methodology.
- Often indicated current resource consent decision making process supported an expert approach i.e. it is somewhat mandated by the requirement to complete of an AEE.
- Often indicated concern regarding the resource consent application and decision making process related to:
 - Degraded landscapes i.e. at the 'other end of the spectrum' these landscapes also warrant avoidance, remediation and mitigation of adverse effects and that this may conflict with RMA and NZCPS provisions aimed at reducing urban sprawl/creeping development.
 - The assessment of cumulative effects and potential threshold points where a
 particular proposal may match permitted baseline (e.g. other 5 story buildings
 nearby) but represents a change that will 'tip the balance' in terms of
 character/values and/or provide precedent for further development which is likely
 to do the same.
 - Support for unsustainable 'lifestyle blocks' increasing commuting traffic and restricting future potential to develop mixed landuse -dwellings, production and revegetation etc. Associated with this; Council zoning that often prevents potentially more sustainable clustered development via restrictions on 'urban patterns' of development outside the metropolitan area.
 - Support for unsustainable landuse via the retention of existing land use associated with professional, public, and decision makers' perceptions of the value and aesthetic appeal of status quo rural landuse.
 - Lack of consideration for the actual landscape and visual effects created by zoning provisions which may be difficult to adapt (lifestyle blocks mentioned in particular) in the future and result in the variable application and effectiveness of reactive mitigation conditions of consent.
 - Support for a focus on mitigation rather than avoidance. And related to this,
 - Lack of horticultural knowledge in the profession which results in plant specie recommendations that may not be suited to the site in mitigation strategies.

- Disregard for the effects of time taken to fully implement mitigation conditions particularly associated with plant establishment.
- Planting plan mitigation conditions associated with the rights to subdivide which are unlikely to be successful/are not effectively monitored.

6. What other factors or processes drive the development or modification of these steps in your office? For example:

- ♦ International VBPM
- Consultation
 - Community values
 - lwi values.
- Statute and Council considerations
 - The NZ Coastal Policy
 - Sections of the RMA
 - Regional Council coastal plans, policy and coastal environment management strategies.
 - Regional Council and/or District Council plans
 - Outcomes and case law from EC hearings
 - The context of the resource consent application (building versus wind farm etc.)

On International VBPM

Responses to this part of the question:

- Always indicated the use of international journals, conferences as the main sources of useful
 international assessment methodologies. Related to this, some respondents raised concern
 at having been unaware of opportunities to meet with visiting assessment consultants (Carys
 Swanick).
- Nearly always indicated some familiarity and alignment with the US models of assessment founded by the US Forest Service and US Bureau of Land Management and the UK Guidelines for Landscape and Visual Impact Assessment produced by the Landscape Institute. And related to this, greater alignment with the UK discursive model of assessment in contrast to the quantified US approach.
- ♦ Nearly always indicated NZ VBPM and broader BPM of assessment needed to uniquely reflect our cultural and biophysical characteristics and statutes, particularly the RMA.
- Nearly always supported variability in VBPM used associated with the particular assessment context and professional judgement/varying concepts of landscape.
- Occasionally indicated the use of Integrated Management Catchment principles in their assessment methodology. ICM is a nationwide programme facilitated by Landcare Research in NZ with international links/origins.

Response to this part of the question indicated:

- Direct (face to face) public consultation may form a limited part of a VBPM or landscape and visual effects assessment related to a resource consent process. Respondents attributed this to:
 - Cost and time required to carry out effective public consultation is often beyond the budget and schedule of resource consent applications. And related to this,
 - Client attitudes related to the value or need for public consultation.
 - Difficulties experienced in engaging in consultation that reflects a representative range of public views and in gaining a clear/consensual directive from the process.
 - Limited resource consent process mandate for clients (beyond gaining written approval) restricting opportunities to engage in meaningful public consultation which might influence the design process.
 - A decision making process that often promotes reactive address/inclusion of values i.e. that emerge after the application has been lodged via submission, at hearings etc.
 - The role and value of the independent submission process.
- Successful direct public consultation (usually associated with larger proposals) strategies suggested by respondents included:
 - Open days/meetings, where the proposal sites key biophysical and cultural characteristics and design principles (not concepts) were introduced and integrated with genuine opportunities for the public to identify values and provide input into the design process.
 - Small key stakeholder interviews/workshops which identify values and offer opportunity to be involved in the design process.
 - o Individual resident visits using a similar approach.
 - Providing opportunities for members of the public to observe simulations of the proposal (e.g. in the Landscape Architects office) ideally during the design iteration phase and prior to resource consent application lodgement.
 - Contributing to submissions or expert evidence for members of the public in hearings.
- Indirect public consultation often contributes to the landscape and visual effects assessment process related to resource consent. Respondents noted the following sources/strategies assist them to identify existing values and sensitivity in the proposal area:
 - Past District and Regional landscape assessment documentation where direct public consultation processes were used.
 - RP and DP's with respect to their ability to incorporate public values and sensitivities (some skepticism here).

- RC and DC websites which make assessment documentation available (for all notified resource consents). Past assessment documentation within the proposal region/district or in a similar context e.g. wind farm in another region/district.
- Other direct public consultation processes that the landscape architect has been involved in.
- Involvement in other community groups.
- Residence in the area i.e. insider knowledge and understanding of the community.

On lwi values (consultation)

Response to this part of the question indicated:

- Iwi consultation and inclusion of Iwi values is often part of a separate assessment process or only partially covered in a landscape and visual assessment related to a resource consent application. This was associated with:
 - Requirements by decision making bodies for separate assessment of lwi values and effects of the proposal using lwi nominated assessment consultants.
 - O Cost and time required to undertake lwi consultation.
 - At times, difficulties experienced in engaging with an appropriate lwi/Hapu representative.
 - At times, difficulties experience in engaging with an lwi/Hapu representative that will be widely supported by the lwi/Hapu.
 - Issues of tikanga maori and the rights of tangata whenua to choose not to identify taonga supported by e.g. NZCPS policy 2.1.1
 - Potential for tokenism or perceptions of tokenism.
 - The need for perceptual research related to lwi values.
 - Opportunities for lwi consultation presented by the submission process.
 - Decision making processes that may promote reactive address/inclusion of values i.e. that emerge after the application has been lodged via submission, at hearings etc.
- Successful direct lwi consultation strategies used (often in relation to larger proposals) described by the respondents included:
 - Connections made with appropriate Hapu representatives via archaeological consultants.
 - Employment of staff with lwi/Hapu associations and specialised training in lwi consultation processes.
 - DC and RP coordinated lwi consultation e.g. documenting appropriate Hapu representatives and clear processes for cultural audits etc.
 - lwi involvement early on in the proposal with genuine opportunities to be involved in the design process.

- Useful indirect lwi value and sensitivity sources mentioned included:
 - Hapu or lwi resource management plans for the region/district.
 - Iwi consultation documented in RP, DP, and in region/district wide landscape assessment reports etc.
 - Resource consent documentation in the same region/district or context where significant lwi consultation took place.
 - Current research (Janet Stephenson-Otago University) initiative focus on Iwi
 values in Northland which may provide guidelines and greater understanding of
 Iwi values relevant to any landscape and visual effects assessment process.

On statute and council considerations

Responses to part of the question:

- Always indicated the importance of the assessment context in determining the relevant planning context and the value of fostering communication with Council planners who can provide clear direction on the relevant plan provisions that need to be addressed.
- Always indicated a hierarchy of importance in statute and council provisions reflecting the RMA i.e. where consideration of s5 of the RMA may take precedence over 6 a) etc. and where DP should reflect the RP etc.
- Nearly always indicated the use of EC case law in providing understanding of the judicial process, direction on the definition of key principles, terms or criteria etc. (not covered by RMA) and indications of values supported by the court.
- Nearly always cautioned against making direct reference to past EC court determinations in assessment documentation noting decisions are made on a case by case basis and that legal issues are outside at the professions expertise. Exceptions to this may occur where the context of the assessment is relatively new, unique and/or there are very few RP or DP provisions relevant to the context. In the examples analysed (Section 2) direct quotes from previous EC hearings were used in the context of wind farm applications.
- Nearly always indicated that non adopted DC or RC plan changes, management plans, region/district wide assessments etc. can only be used to provide background information i.e. the policies, rules etc. recommended hold no weight in the decision making process.
- Often indicated considerable variation in the quality or extent with which RP and DP reflected the RMA and the NZCPS necessitating their critique in the landscape and visual assessment. Often this was related to the establishment of the status of important landscape values e.g. ONF/L within or near the proposal site. Use of the Pigeon Bay criteria was associated with this process.
- Often indicated exclusive reference to the DP provisions where they comprehensively reflected the RMA, NZCPS etc. and provided clearly stated objectives, policies, rules and guidelines relevant to the proposal that could be used as assessment criteria.
- Often indicated that DP objectives/rules etc. may prescribe appropriate effect levels i.e. an assessment can not conclude there are significant adverse effects if the DP permits and is reflective of the RMA and NZCPS.

- Occasionally indicated their assessment process did not make use of the NZCPS.
- Occasionally indicated a lack of appreciation of the inclusion of rivers, lakes and their margins in consideration of RMA 6 a) by other landscape architects.
- Occasionally indicated the extent to which statute and council provisions where referenced is dependent on the context of the decision maker and the DP i.e. more detail is provided at a Council compared to an EC hearing, and where significant gaps are recognised in the DP.
- Occasionally indicated the need for more Council's to develop provisions related to specialised activities such as wind farms and marine farms citing their unique potential visual (and landscape) effects.
- Occasionally indicated assessment and associated design iterations can be adversely affected by adopted DP zoning e.g. that allow high density development in an area of arguably high natural character.

Other important drivers of visual assessment methodology identified by respondents were:

- CPD and networking with other offices.
- ♦ Peer review processes required by DC/RC in resource consent application process.
- Multi discipline approaches to assessment, making use of particular expertise e.g. for ecology reports, digital technology graphics preparation.

7. What does your office consider to be the most important VBPM issues that would warrant further research or professional development?

In the first instance, issues related to VBPM generated from the interview process (i.e.Questions 1-7) are summarised below.

Broader issues relating to assessment, design and the profession are highlighted in the second part of this summary. In some instances they reiterate issues documented in the summary of previous interview questions.

VBPM issues:

Nearly all respondents supported the retention of variation in VBPM associated with the specific nature of the proposal, the differing potential magnitude of effects and the importance of exercising professional judgement in an assessment process.

Respondents indicated that VBPM would benefit from further development of:

- Assessment checkpoints i.e. greater agreement in terms of what the assessment might cover in a particular context, (not how it is assessed).
- Significant use of objective criteria/steps which support the credibility/authenticity of the inevitable and important subjective criteria/steps of the assessment.
- Explicit (transparent) assessment methodology including: assumptions, limitations, definitions, criteria and rationale.
- Standardised terminology (and definitions) for e.g.
 - Levels and types of visual effects i.e. neutral, adverse, positive, minor, moderate, significant.
 - Visual impact/visual change versus visual effects.
 - Visual effects and landscape effects.
 - Natural character, rural character, landscape character
 - o Coastal environment.
- EC accepted digital photography best practice methodology and representation standards (particularly in relation to lens size and print size)
- EC accepted digital simulation best practice methodology.
- ♦ EC accepted visual catchment and visibility mapping best practice and related to this,
- A formal EC digital technology standards review process aimed at the (responsive) establishment of EC accepted best practice methodology standards effective for the duration of the review period.
- Inclusion in a combined landscape and visual effects assessment methodology and decision making process that does not over emphasise the importance and consideration of visual effects to the detriment of other experiential effects or the landscape effects of a particular proposal.
- Integrating a critique of the proposal sites existing visual characteristics (in rural areas in particular) in terms of their contribution to sustainability within the site/area/district/region.

- ◆ A greater focus on how VBPM could be used to facilitate positive/sustainable landscape change and landscape management.
- Development of an aesthetic model in VBPM which contributes to sustainable land use patterns in rural areas (in contrast to the picturesque and colonial Arcadian/pastoral models of aesthetics)
- ◆ Use of VBPM within a design iterative process where adverse visual effects are (somewhat incidentally) avoided and positive visual effects integrated into the proposal.
- ◆ EC accepted subdivision guidelines of strategies that can be used to reduce adverse visual (and landscape) effects.
- ♦ A greater recognition of the difference between visibility and adverse visual effects i.e. proposal visibility may result in adverse, positive or neutral visual effects.
- The development of landscape character interpretation skills as a basis for determining the potential visual (and landscape) effects of the proposal i.e. assessor ability to determine the key elements and characteristics that make up the existing character and how they might be changed by the proposal.

Assessment issues:

Responses indicated that landscape assessment in general would benefit from:

- Greater emphasis on the place of assessment within a design process.
- Greater emphasis on the role of assessment in landscape management and in making a positive contribution to landscape change.
- Development of assessor knowledge, understanding and use of the relevant planning context.
- Development of methodology criteria/guidelines relevant to highly contrasting proposals focusing assessment on the nature of the proposals contribution to character/values/sustainability which are often in conflict with perceived values of integration/coherence.
- Development of methodology criteria/guidelines that would assist landscape architects to more accurately assess cumulative effects and threshold points.
- Landscape perception studies particularly in terms of lwi landscape values/sensitivities which would help identify values in a proposal.
- Landscape perception studies that would provide guidelines of the limits of acceptable change-how much is too much?
- Actively promoting the use of pre EC mediation, and pre hearing consultation (supported via recent practice notes) to provide greater opportunities for: proposals to represent appropriate development, agreement on standards of digital technology use, terminology and assessment coverage, and court focus on matters of disagreement/potentially less than minor effects.
- NZILA coordination of assessment methodology PD and updates including international guest speaker bench marking.
- More opportunities (like this) to discuss/share resources related to landscape assessment.
- Central analysed/summarised inexpensive EC case law reports.
- Central library of assessment documentation exemplars

 Access to the MFE (Boffa Miskell) 'Environmental performance indicator of natural character' reports.

Concern was also expressed related to nationwide issues of:

- ◆ Actual and evident lack of protection for ONF/L and preservation of natural character from inappropriate development associated with limited 'economic' notions of sustainability which translate into decision maker positions of pro development.
- Potentially significant cumulative adverse effects of wind farms on the landscape character of NZ not addressed by current regional decision making processes associated with the RMA.
- The potentially negative (visual and landscape) effects of a focus on new development in degraded landscapes associated with strategies used to preserve, protect, and have regard for landscapes of greater value (ONF/L etc.) and prevent sprawl.
- Landscape patterns created by lifestyle block zoning that are usually uneconomic in terms of productive land use, increase commuter traffic and are difficult to re zone into alternative/ more sustainable mixed land use patterns.
- Managing landscape change outside of the metropolitan urban limits and perceptions related to the inappropriateness of 'urban patterns of development' in rural areas which may offer greater opportunities for sustainability and the integration of multiple land uses.
- Managing landscape change in the rural environment associated with current non sustainable land use and perceptions surrounding status quo rural character and rural amenity values.
- Council/decision maker focus on narrow economic notions of sustainability.
- Permitted baseline precedent use in the decision making process justifying cumulative effects and "creeping ugliness".
- The potential influence of budget constraints faced by members of the public 'pitted against multi millionaires' in the resource consent decision making process.
- Attempts by some landscape architects to over objectify or quantify landscape assessment in the EC reducing landscape to numbers contrasted with the value of subjective philosophical argument.
- ♦ The lack of resource management NZ Policy statements and environmental standards.

Design issues:

Respondents indicated that design processes would benefit from:

- Research into the principles and practicalities of sustainable rural subdivisions (design guidelines)
- Greater emphasis in the design process on avoidance and remediation of negative landscape and visual effects (as opposed to mitigation) and the integration of positive landscape and visual effects.

Profession Issues:

Respondents indicated that the profession would benefit from:

- ♦ Professional development/degree programmes related to:
 - assessment and design practices that reflect social responsibility, ecological health and sustainable design.
 - knowledge of ecology and the realities of land based production.
 - o knowledge, understanding and use of the relevant planning context.
- Degree programmes that pragmatically provide graduates with a greater level of skill in carrying out proposal landscape and visual effects assessment in relation to a resource consent application (in contrast to region or district wide assessments which they are less likely to be involved in).