# NFL - Āhuatanga o te whenua - Natural Features and Landscapes

### Introduction

Natural landscapes are the visible features of an area of land, or broad landforms, or a collection of landforms, such as hills, valleys or open plains. Natural features are less broad landforms or biophysical entities such as river corridors, wetlands, lakes or geological formations.

The District Council has a statutory obligation to recognise and provide for the protection of outstanding natural landscapes and features from inappropriate subdivision, use and development as a matter of national importance under the RMA.

The RPS identifies the assessment matters for determining whether a natural feature or landscape should be classified as outstanding and classifies regional-scale outstanding natural features and landscapes. It also provides for assessments at a district level. Using this assessment, there are natural features and landscapes that have been identified as outstanding at a district scale. These are shown on the planning map and comprise:

- the Puketeraki Mountains and the front ranges including Mt Oxford and Mt Thomas ONL,
- the Waimakariri River ONF, and
- the Ashley River/Rakahuri Saltwater Creek estuary ONF (also known as Te Aka Aka)<sup>1</sup>.

Utilising the same assessment matters, the remainder of the Ashley River/Rakahuri upstream of the estuary has been identified as a SAL.

Activities in, on, under or over the beds of lakes and rivers are managed by the Regional Council and as such the rules in this chapter do not apply to these areas.<sup>2</sup>

The provisions in this chapter are consistent with the matters in Part 2 - District Wide Matters - Strategic Directions and give effect to matters in Part 2 - District Wide Matters - Urban Form and Development.

#### Other potentially relevant District Plan provisions

As well as the provisions in this chapter, other District Plan chapters that contain provisions that may also be relevant to natural features and landscapes include:

- Energy and Infrastructure: this chapter includes provisions to manage energy and infrastructure activities within ONL, ONFs, and SAL; as such the rules and standards<sup>3</sup> within the NFL Chapter do not apply to energy and infrastructure. The objectives, policies, matters of discretion, appendix, and planning map overlay relating to the NFL chapter do apply to energy and infrastructure activities within ONL, ONFs, or SAL.<sup>4</sup>
- Earthworks: this chapter contains provisions to manage earthworks within the identified ONL, ONF and SAL areas.

<sup>&</sup>lt;sup>1</sup> Judith Roper-Lindsay [120.15]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>2</sup> Canterbury Regional Council [316.11]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>3</sup> Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]. Natural Features and Landscapes s42A report/JWS.

<sup>&</sup>lt;sup>4</sup> Transpower New Zealand Ltd [195.84]. Natural Features and Landscapes s42A report.

#### NFL - Āhuatanga o te whenua - Natural features and landscapes

- Natural Hazards: this chapter is relevant as natural hazard mitigation measures can occur within ONL, ONF and SAL areas.
- Natural Character of Freshwater Bodies: this chapter is relevant as some natural character of scheduled freshwater bodies setbacks provisions are also within a natural feature or landscape.
- Coastal Environment: this chapter contains provisions that are relevant as natural features and landscapes can occur within this environment.
- Special Purpose Zone (Kāinga Nohoanga): how the Natural Features and Landscapes provisions apply in the Special Purpose Zone (Kāinga Nohoanga) is set out in SPZ(KN)-APP1 to SPZ(KN)-APP5 of that chapter.
- Any other District wide matter that may affect or relate to the site.
- Zones: the zone chapters contain provisions about what activities are anticipated to occur in the zones.

Objectives	
NFL-O1	Outstanding Natural Features Outstanding natural features are protected from <u>inappropriate</u> <sup>5</sup> <u>subdivision</u> , <sup>6,7</sup> land use or development that would adversely affect the values of these features.
NFL-O2	Outstanding Natural Landscapes Outstanding natural landscapes are protected from <u>inappropriate<sup>8</sup> subdivision</u> , <sup>9,10</sup> land use or development that would adversely affect the values of these landscapes.
NFL-O3	Significant Amenity Landscapes The values of significant amenity landscapes are maintained.
Policies	
NFL-P1	<ul> <li>Protect Outstanding Natural Features</li> <li>Recognise the values of the outstanding natural features identified in NFL-APP1 and protect them from the adverse effects of inappropriate<sup>11</sup> subdivision,<sup>12</sup> activities and development, except where the effects of regionally significant infrastructure are managed by EI-P5,<sup>13</sup> by:</li> <li>1. avoiding use and development that detracts from the very high biophysical values and high sensory and associative values identified in NFL-APP1 for the Waimakariri River;</li> <li>2. avoiding use and development that detracts from the very high biophysical and sensory values, and high associative values of the Ashley River/Rakahuri Saltwater Creek Estuary identified in NFL-APP1, including on: <ul> <li>a. coastal physical processes;</li> <li>b. ecological habitat and indigenous biodiversity; and</li> <li>c. the experience of the elements and processes of (a) and (b);</li> </ul> </li> <li>3. enabling community scale erosion and flood control structures where adverse impacts on the values are mitigated;</li> <li>4. avoiding any significant loss of indigenous vegetation;</li> </ul>

<sup>&</sup>lt;sup>5</sup> Transpower New Zealand Limited [195.85]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>6</sup> Transpower New Zealand Limited [195.85]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>7</sup> Waka Kotahi NZ Transport Agency [275.24]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>8</sup> Transpower New Zealand Limited [195.86]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>9</sup> Transpower New Zealand Limited [195.86]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>10</sup> Waka Kotahi NZ Transport Agency [275.25]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>11</sup> Transpower New Zealand Limited [195.88]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>12</sup> New Zealand Limited [195.88]. Natural Features and Landscapes s42A report: Transpower.

<sup>&</sup>lt;sup>13</sup> Transpower New Zealand Limited [195.88]. Natural Features and Landscapes s42A report.

	<ol> <li>avoiding activities such as plantation <u>commercial</u><sup>14</sup> forestry, woodlots, shelterbelts, mining and quarrying activities and large buildings or groups of buildings or other structures which create adverse effects on the identified values;</li> <li><u>recognising and providing for working farmland; providing for existing rural production where this does not detract from the identified values;</u></li> <li>enabling conservation activities and non motorised recreation activities.<sup>16</sup></li> </ol>
NFL-P2	<b>Ngāi Tūāhuriri customary harvesting</b> Recognise and provide for Ngāi Tūāhuriri customary harvesting of natural resources in identified natural features and landscapes, as an integral part of these areas.
NFL-P3	<ul> <li>Protect Outstanding Natural Landscapes</li> <li>Recognise the values of the outstanding natural landscapes identified in NFL-APP1 and protect them from the adverse effects of inappropriate<sup>17</sup> subdivision,<sup>18,19</sup> activities and development, except where the effects of regionally significant infrastructure are managed by El-P5,<sup>20</sup> by: <ol> <li>avoiding use and development that detracts from the very high biophysical values and high sensory and associative values of the Puketeraki Range and Oxford Foothills identified in NFL-APP1, in particular on the: <ol> <li>exposed alpine environments;</li> <li>sheltered densely forested slopes and gullies of the Oxford Hills;</li> <li>including use and development in areas which have no capacity to absorb change, including near ridgelines, and mitigating adverse effects through bulk, location and design controls in other areas;</li> <li>avoiding any significant loss of indigenous vegetation;</li> <li>avoiding activities which create adverse effects on the identified values;</li> </ol> </li> <li>recognising and providing for working farmland; providing for existing rural production where this does not detract from the identified values; <sup>22</sup> and</li> <li>enabling conservation activities and non motorised recreation activities.</li> </ol></li></ul>
NFL-P4	<b>Maintain Significant Amenity Landscapes</b> Recognise the values of the significant amenity landscapes identified in NFL-APP1 and maintain them, except where the effects of regionally significant infrastructure are managed by EI-P5, <sup>23</sup> by:

<sup>&</sup>lt;sup>14</sup> s44A of RMA amendment to align with NES-CF. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>15</sup> Dairy Holdings Limited [420.24]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>16</sup> Transpower New Zealand Limited [195.88]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>17</sup> Transpower New Zealand Limited [195.89]. Natural Features and Landscapes s42A report.

 <sup>&</sup>lt;sup>18</sup> Transpower New Zealand Limited [195.86]. Natural Features and Landscapes s42A report.
 <sup>19</sup> Waka Kotahi NZ Transport Agency [275.25]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>20</sup> Transpower New Zealand Limited [195.89]. Natural Features and Landscapes s42A report. <sup>21</sup> s44A of RMA amendment to align with NES-CF. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>22</sup> Dairy Holdings Limited [420.24]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>23</sup> Transpower New Zealand Limited [195.90]. Natural Features and Landscapes s42A report.

2. 3.	<ul> <li>managing adverse effects of use and development on the moderate-high biophysical values and high sensory and associative values of the Ashley River/Rakahuri identified in NFL-APP1, in particular on the: <ul> <li>a. braided river system;</li> <li>b. indigenous fauna and vegetation;</li> <li>c. the wilderness and natural environment; and</li> <li>d. recreational values;</li> </ul> </li> <li>enabling community scale erosion and flood control structures where adverse impacts on the values are mitigated;</li> <li>avoiding any significant loss of indigenous vegetation;</li> <li>avoiding incompatible activities, including plantation commercial<sup>24</sup> forestry, shelterbelts, mining and quarrying activities, and large buildings or groups of</li> </ul>
	buildings or other structures where these activities result in which create <sup>25</sup> unacceptable adverse effects on the identified values;
5.	mitigating through bulk, location and design controls the adverse effects of other uses and development in areas which have no capacity to absorb change;
6. 7.	providing for non motorised recreation activities_and conservation activities; <u>and</u> <u>recognising and providing for working farmland; providing for existing rural production</u> where this does not detract from the identified values. <sup>26</sup>

### Activity Rules

#### **Rules**

#### How to interpret and apply the rules

- (1) The rules within the NFL Chapter do not apply to energy and infrastructure activities.<sup>27</sup>
- (2) The rules within this chapter shall not apply to the activities provided for in NH-R8 (the maintenance of existing community scale natural hazard mitigation works), NH-R9 (upgrading existing community scale natural hazard mitigation works) and NH-R10 (construction of new community scale natural hazard mitigation works).<sup>28</sup>

NFL-R1	Addition to an existing building				
Waimakariri River ONF	Activity status: PER Where:	Activity status achieved: RDIS	when	compliance	not

<sup>&</sup>lt;sup>24</sup> s44A of RMA amendment to align with NES-CF. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>25</sup> Fulton Hogan Ltd [41.26]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>26</sup> Dairy Holdings Limited [420.24]. Recommendation from Natural Features and Landscapes initial Reply Report/final Reply Report.

<sup>&</sup>lt;sup>27</sup> Transpower New Zealand Ltd [195.84]. Recommendation from Natural Features and Landscapes s42A report/initial Reply Report.

<sup>&</sup>lt;sup>28</sup> Consequential amendment via Canterbury Regional Council [316.81] - refer to Natural Hazards s42A Report and Reply Report. Recommendation from final Natural Features and Landscapes Reply Report.

Puketeraki Range & Oxford Foothills ONL Ashley River / Rakahuri SAL	<ol> <li>the addition to the building footprint is a maximum of 100m<sup>2</sup> in any 10 year period;</li> </ol>	Matters of discretion are restricted to: NFL-MD1 - New buildings and structures, additions to buildings, <u>cycleways, walkways</u> , <sup>29</sup> and access tracks
Ashley River / Rakahuri Saltwater Creek Estuary ONF	Activity status: DIS Where: 2. the addition to the building footprint is a maximum of 100m <sup>2</sup> in any 10 year period.	Activity status when compliance not achieved: NC
NFL-R2	Building for park management activities of	or conservation activities
Waimakariri River ONF Puketeraki Range & Oxford Foothills ONL Ashley River / Rakahuri SAL	100m².	Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: NFL-MD1 - New buildings and structures, additions to buildings, cycleways, walkways, <sup>30</sup> and access tracks
Ashley River / Rakahuri Saltwater Creek Estuary ONF	Activity status: NC	Activity status when compliance not achieved: N/A
NFL-R3	Farm building, residential unit and ancillar production	y buildings to residential activity or primary
Puketeraki	Activity status: PER	Activity status when compliance not

 <sup>&</sup>lt;sup>29</sup> Royal Forest and Bird Protection Society of New Zealand Inc. [192.77]. Natural Features and Landscapes initial Reply Report.
 <sup>30</sup> Royal Forest and Bird Protection Society of New Zealand Inc. [192.77]. Recommendation from Natural Features and Landscapes initial Reply Report.

Oxford Foothills ONL	<ol> <li>any individual building shall have a maximum building footprint of:         <ul> <li>a. 75m<sup>2</sup> in the Natural Open Space Zone; and</li> <li>b. 150m<sup>2</sup> in any Rural Zones.</li> </ul> </li> </ol>	Matters of discretion are restricted to:
NFL-R4	Public amenities	
Waimakariri River ONF Puketeraki Range & Oxford Foothills ONL Ashley River / Rakahuri SAL	<ul> <li>Activity status: PER</li> <li>Where: <ol> <li>any individual building shall have a maximum building footprint of 75m<sup>2</sup>;</li> <li>the maximum height of any building shall be 5m; and</li> <li>there shall be only one public amenities building per site within the ONF, ONL or SAL area; and</li> <li>any cycleway or walkway shall have a maximum formed width of 2.5m.<sup>32</sup></li> </ol> </li> </ul>	Activity status when compliance not achieved in the Ashley River / Rakahuri SAL: RDIS Matters of discretion are restricted to: NFL-MD1 - New buildings and structures, additions to buildings, <u>cycleways, walkways</u> , <sup>33</sup> and access tracks Activity status when compliance not achieved in the Waimakariri River ONF and Puketeraki Range and Oxford Foothills ONL: DIS
Ashley River / Rakahuri Saltwater Creek Estuary ONF	Activity status: NC	Activity status when compliance not achieved: N/A
NFL-R5	Structures and buildings	
	This rule does not apply to structures and bu NFL-R8 <del>, or natural hazards mitigation structu</del>	illdings provided for under NFL-R1 to NFL-R4, <del>ures for flooding<sup>34</sup>.</del>
Waimakariri River ONF Puketeraki Range & Oxford Foothills ONL	<ul> <li>Activity status: PER</li> <li>Where: <ol> <li>each individual structure or building shall have a maximum footprint of 10m<sup>2</sup>, except that this shall not apply to post and rail or wire fences which are more than 75% visually transparent.</li> </ol> </li> </ul>	Activity status when compliance not achieved in the Puketeraki Range and Oxford Foothills ONL: RDIS Matters of discretion are restricted to: NFL-MD1 - New buildings and structures, additions to buildings.

<sup>31</sup> Royal Forest and Bird Protection Society of New Zealand Inc. [192.77]. Natural Features and Landscapes initial Reply Report.

<sup>32</sup> Royal Forest and Bird Protection Society of New Zealand Inc. [192.77]. Natural Features and Landscapes s42A report.

 <sup>33</sup> Royal Forest and Bird Protection Society of New Zealand Inc. [192.77]. Natural Features and Landscapes initial Reply Report.
 <sup>34</sup> Consequential amendment via Canterbury Regional Council [316.81] - refer to Natural Hazards s42A Report and Reply Report. Recommendation from Natural Features and Landscapes final Reply Report.

Ashley River / Rakahuri SAL		<u>cycleways, walkways,</u> <sup>35</sup> and access tracks Activity status when compliance not achieved in the Waimakariri River ONF and Ashley River / Rakahuri SAL: NC
Ashley River / Rakahuri Saltwater Creek Estuary ONF	Activity status: NC	Activity status when compliance not achieved: N/A
NFL-R6	Access tracks and parking areas	
Waimakariri River ONF Puketeraki Range & Oxford Foothills ONL Ashley River / Rakahuri SAL	Activity status: PER Where: 1. new tracks or parking areas, or widening of existing tracks and parking areas have a formed width of less than 3m.	Activity status when compliance not achieved: RDIS Matters of discretion are restricted to: NFL-MD1 - New buildings and structures, additions to buildings, cycleways, walkways, <sup>36</sup> and access tracks
Ashley River / Rakahuri Saltwater Creek Estuary ONF	Activity status: NC	Activity status when compliance not achieved: NC
NFL-R7	Commercial motorised activities	
Waimakariri River ONF Ashley River / Rakahuri SAL	Activity status: RDIS Matters of discretion are restricted to: NFL-MD2 - Motorised activities	Activity status when compliance not achieved: N/A

 <sup>&</sup>lt;sup>35</sup> Royal Forest and Bird Protection Society of New Zealand Inc. [192.77]. Natural Features and Landscapes initial Reply Report.
 <sup>36</sup> Royal Forest and Bird Protection Society of New Zealand Inc. [192.77]. Recommendation from Natural Features and Landscapes initial Reply Report.

Ashley River / Rakahuri Saltwater Creek Estuary ONF	Activity status: NC	Activity status achieved: N/A	when	compliance	not
NFL-R8	Centre pivot and travelling irrigators				
Waimakariri River ONF Puketeraki Range & Oxford Foothills ONL Ashley River / Rakahuri SAL	Activity status: DIS	Activity status achieved: N/A	when	compliance	not
Ashley River / Rakahuri Saltwater Creek Estuary ONF	Activity status: NC	Activity status achieved: N/A	when	compliance	not
NFL-R9 <sup>37</sup>	Formation of a new road <sup>38</sup>	_			
Waimakariri River ONF Puketeraki Range & Oxford Foothills ONL	Activity status: DIS <sup>40</sup>	Activity status achieved: N/A <sup>41</sup>	when	compliance	not

<sup>&</sup>lt;sup>37</sup> Relocate rule to TRAN chapter – via Transpower New Zealand Ltd [195.84]. Recommendation from Natural Features and Landscapes initial Reply Report.

<sup>&</sup>lt;sup>38</sup> Relocate rule to TRAN chapter – via Transpower New Zealand Ltd [195.84]. Recommendation from Natural Features and Landscapes initial Reply Report.

<sup>&</sup>lt;sup>40</sup> Relocate rule to TRAN chapter – via Transpower New Zealand Ltd [195.84]. Natural Features and Landscapes initial Reply Report.

<sup>&</sup>lt;sup>41</sup> Relocate rule to TRAN chapter – via Transpower New Zealand Ltd [195.84]. Recommendation from Natural Features and Landscapes initial Reply Report.

Ashley River / Rakahuri SAL <sup>39</sup> Ashley River / Rakahuri Saltwater Creek Estuary ONF <sup>42</sup>	Activity status: NC <sup>43</sup>	Activity status when compliance not achieved: N/A <sup>44</sup>
NFL-R <mark>109</mark> ⁴⁵	Woodlot or shelterbelts	
Waimakariri River ONF Puketeraki Range & Oxford Foothills ONL Ashley River / Rakahuri SAL	Activity status: DIS	Activity status when compliance not achieved: N/A
Ashley River / Rakahuri Saltwater Creek Estuary ONF	Activity status: NC	Activity status when compliance not achieved: N/A
NFL-R1 <mark>40</mark> 46	Planting restricted tree species	

<sup>&</sup>lt;sup>39</sup> Relocate rule to TRAN chapter – via Transpower New Zealand Ltd [195.84]. Natural Features and Landscapes initial Reply Report.

<sup>45</sup> Consequential renumbering. Recommendation from Natural Features and Landscapes initial Joint Witness Statement.
 <sup>46</sup> Consequential renumbering. Natural Features and Landscapes initial Joint Witness Statement.

<sup>&</sup>lt;sup>42</sup> Relocate rule to TRAN chapter – via Transpower New Zealand Ltd [195.84]. Recommendation from Natural Features and Landscapes initial Reply Report.

<sup>&</sup>lt;sup>43</sup> Relocate rule to TRAN chapter – via Transpower New Zealand Ltd [195.84]. Recommendation from Natural Features and Landscapes initial Reply Report.

<sup>&</sup>lt;sup>44</sup> Relocate rule to TRAN chapter – via Transpower New Zealand Ltd [195.84]. Recommendation from Natural Features and Landscapes initial Reply Report.

Waimakariri River ONF Puketeraki Range & Oxford Foothills ONL Ashley River / Rakahuri SAL	<ul> <li>Activity status: DIS Where:</li> <li>1. planting of any of the following tree species: <ul> <li>a. Lodgepole Pine - Pinus contorta;</li> <li>b. Scots Pine - Pinus sylvestris;<sup>47</sup></li> <li>c. Douglas Fir - Psuedotsuga menziesii;</li> <li>d. Corsican Pine - Pinus nigra;</li> <li>e. Larch - Larix spp;</li> <li>f. Mountain Pine - Pinus uncinata<sup>48</sup></li> <li>g. Sycamore - Acer pseudoplatanus;</li> <li>h. Alder - Alnus spp;</li> <li>i. Crack Willow (Salix fragilis spp) and Grey Willow (Salix cinerea spp.) Willows adjacent to rivers - Salix spp<sup>49</sup>.</li> </ul> </li> </ul>	Activity achieved	when	compliance	not
WaimakaririRiver ONFPuketerakiRange&OxfordFoothillsONLAshleyRiverRiverSAL<50	Activity status: NC Where: 2. planting of any of the following tree species: a. Lodgepole Pine – Pinus contorta; b. Scots Pine – Pinus sylvestris; c. Corsican Pine – Pinus nigra; d. Larch – Larix spp; e. Mountain Pine – Pinus uncinata; <sup>51</sup>		when	compliance	not
Ashley River / Rakahuri Saltwater Creek Estuary ONF	<ul> <li>Activity status: NC</li> <li>Where: <ol> <li>planting of any of the following tree species: <ul> <li>Lodgepole Pine – Pinus contorta;</li> <li>Scots Pine – Pinus sylvestris;</li> <li>Douglas Fir – Psuedotsuga menziesii;</li> <li>Corsican Pine – Pinus nigra;</li> <li>Larch – Larix spp;</li> </ul> </li> <li>f. Mountain Pine – Pinus uncinata;</li> </ol></li></ul>	achieved	when	compliance	not

 <sup>&</sup>lt;sup>47</sup> Department of Conservation [419.106]. Natural Features and Landscapes s42A report.
 <sup>48</sup> Department of Conservation [419.106]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>49</sup> Canterbury Regional Council [316.118]. Natural Features and Landscapes s42A report.

 <sup>&</sup>lt;sup>50</sup> Department of Conservation [419.106]. Natural Features and Landscapes s42A report.
 <sup>51</sup> Department of Conservation [419.106]. Natural Features and Landscapes s42A report.
 <sup>52</sup> Department of Conservation [419.106]. Recommendation from Natural Features and Landscapes s42A report.

	<ul> <li>g. Sycamore – Acer pseudoplatanus;</li> <li>h. Alder – Alnus spp;</li> <li>i. Crack Willow (Salix fragilis spp) and Grey Willow (Salix cinerea spp.) Willows adjacent to rivers – Salix spp.<sup>53</sup></li> </ul>	
NFL-R12 <sup>54</sup>	Mining activity and quarrying activities 55	
Ashley River / Rakahuri Saltwater Crook Estuary ONF Waimakariri River ONF Puketeraki Range & Oxford Foothills ONL Ashley River / Rakahuri SAL <sup>56</sup>	<mark>Activity status: NC</mark> ⁵7	Activity status when compliance not achieved: N/A <sup>58</sup>
NFL-R1 <mark>31</mark> 59	Plantation <u>Commercial</u> forestry	
Ashley River /	Activity status: CON DIS	Activity status when compliance not achieved: N/A

<sup>&</sup>lt;sup>53</sup> Canterbury Regional Council [316.118]. Natural Features and Landscapes s42A report.

<sup>&</sup>lt;sup>54</sup> Consequential reordering of rules as plantation forestry rule is now both DIS and NC so is located above full NC rule. Natural Features and Landscapes final Reply Report:

<sup>&</sup>lt;sup>55</sup> Consequential reordering of rules as plantation forestry rule is now both DIS and NC so is located above full NC rule. Natural Features and Landscapes final Reply Report.

<sup>&</sup>lt;sup>56</sup> Consequential reordering of rules as plantation forestry rule is now both DIS and NC so is located above full NC rule. Natural Features and Landscapes final Reply Report.

<sup>&</sup>lt;sup>57</sup> Consequential reordering of rules as plantation forestry rule is now both DIS and NC so is located above full NC rule. Natural Features and Landscapes final Reply Report.

<sup>&</sup>lt;sup>58</sup> Consequential reordering of rules as plantation forestry rule is now both DIS and NC so is located above full NC rule. Natural Features and Landscapes final Reply Report.

<sup>&</sup>lt;sup>59</sup> Consequential renumbering. Recommendation from Natural Features and Landscapes Joint Witness Statement/final Reply Report.

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Rakahuri SAL <sup>60</sup>	Matters of control are restricted to: NFL-MC1 - The effects on the visual amenity values of the SAL, including any future effects from plantation forestry activities.				
Ashley River / Rakahuri Saltwater Creek Estuary ONF Waimakariri River ONF Puketeraki Range & Oxford Foothills ONL	Activity status: NC	Activity status achieved: N/A	when	compliance	not
<u>NFL-R123</u> 61	Mining activity and guarrying activities <sup>62</sup>				
Ashley River / Rakahuri Saltwater Creek Estuary ONF Waimakariri River ONF Puketeraki Range & Oxford	Activity status: NC <sup>64</sup>	<u>Activity status</u> <u>achieved: N/A</u> 65	when	compliance	not

<sup>&</sup>lt;sup>60</sup> Ngai Tahu [219.5] & also. Natural Features and Landscapes final Reply Report.

<sup>&</sup>lt;sup>61</sup> Consequential reordering of rules as plantation forestry rule is now both DIS and NC so is located above full NC rule, and also consequential renumbering of rule. Natural Features and Landscapes Joint Witness Statement/final Reply Report.

<sup>&</sup>lt;sup>62</sup> Consequential reordering of rules as plantation forestry rule is now both DIS and NC so is located above full NC rule.

Recommendation from Natural Features and Landscapes final Reply Report.

<sup>&</sup>lt;sup>64</sup> Consequential reordering of rules as plantation forestry rule is now both DIS and NC so is located above full NC rule. Natural Features and Landscapes final Reply Report.

<sup>&</sup>lt;sup>65</sup> Consequential reordering of rules as plantation forestry rule is now both DIS and NC so is located above full NC rule. Recommendation from Natural Features and Landscapes final Reply Report.

<b>Foothills</b>	
<u>ONL</u> Ashley	
<u>Ashley</u>	
<u>River /</u>	
<u>Rakahuri</u> SAL <sup>63</sup>	
SAL <sup>63</sup>	

### Natural Features and Landscapes Standards

#### How to interpret and apply the standards

The standards within the NFL Chapter do not apply to energy and infrastructure activities.<sup>66</sup>

NFL-S1 Building and structures reflectivity			
<ol> <li>Exterior building materials which, when graded using the British Standard BS5252:1976 Framework for Colour Co-ordination for Building Purposes, meet the following standards:         <ul> <li>a. where the materials are not used for a roof cladding, they are of a colour which has a reflectivity value of a maximum of:                 <ul> <li>i. 60% for greyness groups A or B;</li> <li>ii. 40% for greyness group C;</li> </ul> </li> <li>b. where the materials are used for a roof cladding, they are of a colour which has a reflectivity value of a maximum of 40% for greyness groups A, B or C.</li> </ul> </li> </ol>	Activity status when compliance not achieved: DIS		
<ul> <li>Exemptions         <ul> <li>NFL-S1 (1) does not apply to:                 <ul></ul></li></ul></li></ul>			
NFL-S2 Building coverage			

<sup>&</sup>lt;sup>63</sup> Consequential reordering of rules as plantation forestry rule is now both DIS and NC so is located above full NC rule. Natural Features and Landscapes final Reply Report.

<sup>&</sup>lt;sup>66</sup> Transpower New Zealand Ltd [195.84] and Chorus, Spark and Vodafone [62.50 and 62.51]. Natural Features and Landscapes Joint Witness Statement.

<sup>&</sup>lt;sup>67</sup> Federated Farmers [414.149]. Natural Features and Landscapes s42A report.

1. Building coverage shall be a maximum of 5% of the site area within the ONL, ONF or SAL	Activity status when compliance not achieved:
overlay.	DIS

### Advice Notes<sup>68</sup>

NFL-AN1 <sup>69</sup>	Activities in, on, under or over the beds of lakes and rivers are managed by the Regional Council and as such the rules in this chapter do not apply to these areas. However, activities on the surface of water are managed within the District Plan <sup>70</sup>
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### **Matters of Discretion**

NFL-MD1	New buildings and structures, additions to buildings, cycleways, walkways, <sup>71</sup> and access tracks
	<ol> <li>The extent to which the proposal is consistent with maintaining, protecting or enhancing the qualities of the outstanding or significant natural feature and/or landscape, including natural character qualities, as identified in NFL-APP1.</li> </ol>
	<ol><li>The extent to which the proposal will detract from the naturalness and openness of the landscape.</li></ol>
	<ol><li>The extent to which the proposal recognises the context and values of historic and cultural significance and the relationship, culture and traditions of Ngāi Tahu.</li></ol>
	4. The extent to which the proposal integrates into the landscape and the appropriateness of the scale, form, design and finish (materials and colours) proposed and mitigation measures such as planting. This shall include consideration of any adverse effects of reflectivity, glare and light spill.
	<ol> <li>The proximity and extent to which the proposal is visible from public places and roads (including unformed legal roads), ease of accessibility to that place, and the significance of the view point.</li> </ol>
	<ol> <li>The extent to which natural elements such as landforms and vegetation within the site mitigate the visibility of the proposal.</li> </ol>
	7. The extent to which the proposal has any adverse effects on important ridgelines.
	8. The extent to which the proposal will result in adverse cumulative effects.
	<ol><li>The extent to which the proposal will result in significant loss of indigenous vegetation and biodiversity.</li></ol>
	<ol> <li>The extent to which the proposal supports the continuation of farming activities in the rural area.</li> </ol>
	11. Whether the proposal is connected to reticulated water and the need to provide water supply (for firefighting), and the ability to integrate water tanks into the landscape and mitigate any adverse visual effects.

<sup>&</sup>lt;sup>68</sup> Canterbury Regional Council [316.11 & 316.119]. Natural Features and Landscapes s42A report.

 <sup>&</sup>lt;sup>69</sup> Canterbury Regional Council [316.11 & 316.119]. Natural Features and Landscapes s42A report.
 <sup>70</sup> Canterbury Regional Council [316.11 & 316.119]. Natural Features and Landscapes s42A report.
 <sup>71</sup> Royal Forest and Bird Protection Society of New Zealand Inc. [192.77]. Natural Features and Landscapes initial Reply Report.

	<ul> <li>12. For new access tracks, whether the track supports conservation activities, farming, recreation activities or rural tourism activities and the ability to integrate with the landscape, follow natural contours and mitigate any adverse effects.</li> <li>13. The extent to which the proposal has functional need or operational need for its location.</li> </ul>
NFL-MD2	<ul> <li>Motorised activities <ol> <li>The extent of any adverse effects on the identified feature and/or landscape, including natural character qualities as identified in NFL-APP1, and natural character values in the coastal environment, including the extent to which the proposal is consistent with maintaining their qualities.</li> <li>Any adverse effects on adjoining outstanding or significant natural features or landscapes or natural character in the coastal environment, and whether there is a sufficient separation to avoid detracting from the qualities of those areas.</li> <li>The extent to which the nature, scale, intensity and location of the proposed activity will adversely affect indigenous biodiversity and ecosystems taking into account: <ul> <li>any loss of, or effects on, indigenous vegetation or habitats of indigenous fauna, including wetlands, ecological corridors and linkages;</li> <li>indigenous ecosystem integrity and function;</li> <li>where relevant, any effects on indigenous vegetation and habitats of indigenous fauna in the coastal environment.</li> </ul> </li> <li>The extent to which the proposal recognises the context and values of historic and cultural significance and the relationship, culture and traditions of Ngãi Tahu.</li> <li>The proximity and extent to which the activity is visible from or causes nuisance on public places and roads (including unformed legal roads), ease of accessibility to that place, and the significance of the view point.</li> </ol></li></ul>

### Appendix

### NFL-APP1 - Outstanding and Significant Landscapes and Features - Values and Threats

### Waimakariri River - Outstanding Natural Features

	Landscape Values	Rating
Biophysical	The river is a large scale functioning alluvial system which is a formative element that created the Canterbury Plains (movement of gravel loads from the mountains, river channels, silts and gravels that underlie the plains and source of loess). Braided rivers are rare (globally) and the Waimakariri is recognised as one of the best examples of its kind in New Zealand. Braided rivers are 'naturally uncommon ecosystems' and have a threat status of 'endangered'. The riverbed provides significant indigenous and migratory bird habitat particularly at the river mouth.	Very High

	Valuable bird and fish habitat is associated with the braided river. Salmon and trout	
	migrate to the headwaters of the river to complete their breeding cycle.	
Sensory	The wide braided gravel river bed traversing through the Canterbury plains is an iconic feature of the Waimakariri District and the Canterbury Plains. The Waimakariri Gorge (upper and lower) is a highly legible landscape feature, revealing the underlying geology with high aesthetic value. Beyond the gorge, the gravel banks and old river terraces reveal the formation of the plains. Sinuous braided patterning of the gravel riverbed contrasts with the geometric patchwork of the plains. The contrast and patterning of the braided river channels are a highly memorable feature of the area. The river creates a visual and physical connection from the mountains to the sea. The braided river system is dynamic and constantly changing through variability in flow over the seasons with freshes, low flows and flood events. High flood flows are particularly dramatic and memorable.	High
Associative	The Waimakariri River and its tributaries are identified as part of Tūranga Tūpuna and Ngā Wai by Te Ngāi Tūāhuriri in the District Plan. Historically, the river was an important travel route for Māori which linked the east and west coasts of the South Island with numerous habitation sites along the river boundary. It was also an important mahinga kai and resource gathering area for mana whenua. The sinuous braided pattern of the river has been recognised as a distinctive signature characteristic of the plains and has inspired both literature and art. The Waimakariri River Regional Park offers recreational opportunities and environmental enhancement on the margins of the lower reaches of the river. The river and its margins provide for many recreational activities, including jet boating, kayaking, rafting, fishing, and hunting, cycling and walking. Tourist jet boats operate in the picturesque upper gorge. Establishing bridges across the Waimakariri River, and controlling the hazard from flooding were two of the key endeavours of early engineers to 'control' the river.	High
Likely Threats	Earthworks and quarrying activities (gravel extraction, encroachment of farming practices); Buildings, structures and utilities (including irrigation canals, hydro dams, etc.); Forestry and shelterbelts encroachment into the riverbed; Native vegetation clearance; Further encroachment into the river corridor of activities on adjacent land; Activities that threaten the ecological and habitat values; Flood control measures, including groynes, stop banks and planting that channelises the braided river bed; and Spread of weeds across the river bed and banks, including associated habitat loss.	

## Puketeraki Range and Oxford Foothills - Outstanding Natural Landscape

	Landscape Values	Rating
Biophysical	The steep Puketeraki Ranges support a diverse range of indigenous habitats, including snow tussock, subalpine scrub, alpine rockfield vegetation above 1200m and induced short tussock grassland, matagouri scrubland, scree slopes and pockets of remnant beech forest at lower elevations. Extensive areas of indigenous beech forest and remnant podocarp forest are the dominant vegetation cover on the slopes, gullies and hilltops of the Oxford Foothills including the Oxford Forest and Mt Thomas Forest conservation areas. The Nationally Significant Okuku Triassic Monotis locality Geo-preservation site lies in the North West area of the Okuku Range and Lees Pass. The Nationally Significant Bullock Creek debris flow Geo-preservation site lies at the foot of Mt Thomas, and is a very good example of an eroding gully, debris flow and debris flow fan.	Very High
Sensory	The hill and mountain landforms have a dominant physical presence in the surrounding area of the upper plains and Lees Valley. The lush dense forested slopes of the Oxford foothills strongly contrast with the flat pastured plains and provide a rich dark coloured background to the local areas of View Hill, Oxford and Ashley Gorge/ Glentui. Many incised rivers and streams dissect the landforms with steep sided gullies, and rocky/gravel beds forming the upper part of the river catchments. Ashley Gorge is a significant and legible feature of the area where the river cuts through the Oxford foothills connecting the upper catchment/ Lees Valley and the plains. The hills and mountains enclose Lees Valley with their dominant physical and scenic presence, and their seasonally changing appearance is a signature feature of the valley. The enclosing upper slopes, ridgelines and skylines in particular are a highly visible and prominent feature of the valley. The hills and mountains have a remote and wild character with a dominance of indigenous vegetation and are valued for their high natural values. The Puketeraki Ranges are legible landforms in the upper Waimakariri River valley, formed and sculpted by glaciers, streams, rivers and erosion, they continue to be dynamic landforms. High level of openness and naturalness in the ranges and western side of the Oxford hills with limited built modification, (roads, fences and buildings). Transient values of the Norwest arch over the silhouetted hills and mountains. Seasonal change of the mountainous landscape including snow covered ridges and peaks to dry, golden tussock lands, as well as dramatic weather changes and cloud formations are key ephemeral values. Seasonal change of the trees also occurs within the Ashley Gorge picnic area. The high ranges are frequently covered in snow during the winter months and at other times of the year, which are visible from the plains.	High
Associative	The mountains, indigenous forest, Ashley River/ Rakahuri and its tributaries, are identified as part of a Tūranga Tūpuna by Ngāi Tūāhuriri in the District Plan. Puketeraki and Tawera maunga are identified as Wāhi Tapu. Historically the forests of the foothills and upper plains were a source of abundant food including kiore (rat) for Ngāi Tūāhuriri.	High

#### NFL - Āhuatanga o te whenua - Natural features and landscapes

	The Oxford foothills have a strong timber milling heritage. By the mid-1870s 11 sawmills were operating in the area, milling the indigenous timber and leading to the establishment of Oxford township. Some historical tracks and structures associated with logging operations are still evident in the foothills, such as those found around the Wharfdale Track area. The hills and ranges have high recreational values with a well-used track and hut network. The tracks provide good access to the area for walkers, mountain bikes, trampers and hunters in vicinity of the populated plains. The Ashley Gorge and Glentui recreation areas have high amenity and recreational values as well-known destinations, popular for picnicking, swimming, canoeing, rafting, fishing and provide walking access to the forests and hills beyond. The public conservation land at Oxford Forest and the Mt Thomas Forest Conservation area are within this Outstanding Natural Landscape. The Oxford Hills provide backdrop to the district and local Oxford communities. With well recognised and characteristic silhouettes and skylines which include the prominent highpoints of Mt Oxford, Mt Richardson and Mt Thomas.	
Likely Threats	Change in farming practices extend to higher elevations; Earthworks and quarrying activities, track formation; Prominent buildings and structures; Subdivision and associated fencing, planting, buildings; Utilities particularly on elevated locations including wind farms and towers; Production plantations and shelterbelts; Native vegetation clearance; New or changing forms of recreation that physically impact on vegetation or landforms, or disrupt the remote and quiet nature of the hills and ranges.	

## Ashley River/Rakahuri Saltwater Creek Estuary - Outstanding Natural Feature

	Landscape Values	Rating
Biophysical	Landscape values include the combined estuaries of Saltwater Creek and Ashley River/Rakahuri and their associated mud banks, mud flats and open brackish water. The coastal side of the estuary, adjoining Pegasus Bay is made up of a sandy beach and dunes which forms Ashworth Spit and ponds behind the spit. The estuary is a Regionally Significant barrier-enclosed estuary system. It is identified as a geo-preservation site which comprises of one of the most complex river mouths on the Canterbury coast, indicating lateral channel instability. The estuary system has very high biophysical values and remains one of the least modified estuary systems in Canterbury. It includes a relatively extensive, intact and diverse sequence of estuarine vegetation communities in its lower reaches. The estuary has been identified as an ecological hotspot with extensive areas of salt marsh with a variety of specialised native plant species occurring along the upper and lower zones. The estuary mudflats and Ashworth Spit and ponds provide internationally significant habitat for migratory wading birds (like the bar-tailed godwit/kūaka), and provides high value wetland habitat for a variety of fish species (īnanga/whitebait, eels, kōaro, flounder/pātiki, common smelt/paraki,	. igit

	torrentfish/piripiripōhatu and bullies/kōkopu). The estuary is also a feeding and resting zone for the riverbed nesting birds, and host to over 90 recorded species, including the bar-tailed godwit/kūaka. The RPS lists the overall ecological significance ranking of High. The Ashley River/ Rakahuri and Saltwater Creek Estuarine areas are recognised by the International Union for Conservation of Nature (IUCN) as a wetland of 'international significance'.	
Sensory	The estuary mudflats, channels and saltmarshes and the sandspit, foredunes beach and ponds and coastal edge are unmodified and retain a very high level of legibility, as to their formation by coastal processes and the movement of sediments and gravels down the river/stream. The natural forms and patterns of the landforms, vegetation and tidal movements give the area a high degree of naturalness that is apparent, a sense of remoteness and tranquillity through the lack of modification is apparent. The visual coherence of the estuary, sandspit, beach and vegetation is high due the lack of modification. Experienced within its boundaries the estuary can have a high degree of memorability depending on the tides and seasonal colour contrast of the vegetation, with low angle light of sunrise and sunset reflecting off the mudflats and tidal waters the most intense. Transient values of the estuary are very high reflecting the dynamic coast environment with its constant changes of tide, river flow, wind, light reflection on the water, presence of migratory birds and fish.	Very High
Associative	The Ashley River/Rakahuri, its tributaries and estuary, and the coastline are areas identified as part of Ngā Wai and Tūranga Tūpuna by Te Ngāi Tūāhuriri Rūnanga in the District Plan. The estuary is an important area to mana whenua for mahinga kai particularly for īnanga/whitebait, flounder/pātiki and eel. Some evidence of pre-1769 occupation is recorded at an archaeological site on the northern edge of the Ashley River/ Rakahuri Saltwater Lagoon confluence, which contains moa bones, adzes and post holes. The estuary, spit and beach are popular recreational destinations for swimming, fishing, whitebaiting, bird watching and kayaking. Several road ends provide a variety of locations to access the area and walking, cycling extend the access around the margins.	
Likely Threats	Earthworks in the estuary margin; Flood management structures; Damage to the estuary, its margins and associated vegetation from Motorised vehicles, including 4x4s; quad bikes; side by sides; and motorbikes; or <sup>72</sup> <u>F</u> farming practices <sup>73</sup> ; Quarrying activities; Buildings and structures on estuary margins; Utilities (such as powerlines stormwater pipes/channels); Forestry and shelterbelts;	

 <sup>&</sup>lt;sup>72</sup> Royal Forest and Bird Protection Society of New Zealand Inc [192.78]. Natural Features and Landscapes s42A report.
 <sup>73</sup> Royal Forest and Bird Protection Society of New Zealand Inc [192.78]. Recommendation from Natural Features and Landscapes s42A report.

Native vegetation clearance.

### Ashley River/Rakahuri - Significant Amenity Landscape

	Landscape Values	Rating
Biophysical	Holocene loose gravel river deposits formed from sand, silt and clay. The Ashley River/ Rakahuri is a rare braided river system unique to New Zealand and the Canterbury Plains. Braided rivers are 'naturally uncommon ecosystems' and have a threat status of 'endangered'. The river is also one of the steepest braided rivers in New Zealand which transports large volumes of sediment during flooding events. The braided river bed is highly managed and is constrained along both banks for most of its length by plantings and stop banks to contain flood waters. Vegetation predominantly consists of willow/poplar species along with gorse and broom. Patches of non-indigenous forest are also scattered along the river bank between the Cones Road bridge north of Rangiora to the Ashley Gorge. Rare pockets of native vegetation are also present including species such as common broom ( <i>Carmichaelia robusta</i> ), korokio ( <i>Corokia cotoneaster</i> ), mingimingi ( <i>Coprosma propingua</i> ), kōwhai ( <i>Sophora microphylla</i> ) in drier areas, and pūkio ( <i>Carex secta</i> ), harakeke ( <i>Phormium tenax</i> ), and karamū ( <i>Coprosma robusta</i> ). Highly valued for the native endangered and threatened bird species which nest in the river shingle. Species include the nationally vulnerable wrybill/ngutu pare ( <i>Anarhynchus frontalis</i> ), and banded dotterel/pohowera ( <i>Charadrius bicinctus</i> ), the nationally endangered black fronted tern/tarapirohe ( <i>Chidonias albostriatus</i> ), the declining white fronted tern/tara striata), pied stilt ( <i>Himantopus himantopus</i> ), and the nationally critical black billed gull/tarāpunga ( <i>Larus bulleri</i> ). In the lower reaches of the park wet areas inside the stopbank host established populations of native wetland species including sedges and wetland grasses. Raupo Berm in Lower Ashley is a good example of historic backwaters containing remnant sedges. Important habitat for native and exotic fish species. Pockets of remnant vegetation in the Lower Ashley provide important īnanga/whitebait spawning sites.	Moderate- High
Sensory	Highly legible braided river which is expressive of its alluvial formative processes, changing form with each flood, and movement of gravel loads from the mountains to the sea. Memorable landscape feature and landmark for the local communities of Rangiora, Ashley, Oxford, and Glentui, as forms a physical barrier across this part of the plains. The river's presence is marked by river itself and the continuous bands of tall poplar along its banks. Valued by the community for its wilderness and natural environment and sounds, sights and smells of the river environment.	High

	Distinctive braided pattern of gravel beds and river channels unique to New Zealand and the Canterbury Plains. The Ashley River forms a clear connection between the foothills of the Southern Alps and the Pegasus Bay. Transient values include flooding or a "fresh" when the water floods the river bed bank to bank changing the channel structure. Other values include the dry river bed during the summer months, seasonal bird habitat, seasonal change of willows and change in the braid patterns following each flood.	
Associative	The river corridor is highly valued by the community for its recreational, open space and biodiversity values and is recognised as such by its status as the Ashley Rakahuri Regional Park extending from the Okuku River confluence downstream to the Ashley Estuary. Activities include walking, cycling, and fishing and picnic and camping facilities are also available. Popular trails include the Taranaki Walkway near the mouth of the river and the Mike Kean walkway. Game bird shooting is also popular and permitted mostly to the west of the Cones Road bridge. Organisations such as Riding for the Disabled, and the North Canterbury BMX Club are present on the south of the Ashley River/Rakahuri near the Cones Road bridge. The Ashley Rakahuri Rivercare group is a community led organisation which aims to protect the ecological state of the Ashley River/ Rakahuri. The group traps pests in the river and works with other commercial and recreational users of the river to ensure the protection of the river's health. Ngãi Tūāhuriri have a significant association to the Rakahuri and wider Waimakariri area based on historical occupation and Mahinga Kai. Rakahuri translates to 'sky turned around' and was added as a dual name for the Nga Wai in 1998 under the Ngai Tabu Claims Act. Mahinga Kai for Ngãi Tūāhuriri. The Nga Wai was a valuable source for cabbage tree root, bracken fernroot, tuna, matamoe, and panako. Prior to the Nga Wai's development the lower tributaries of the Ashley River/ Rakahuri were an important habitat for inanga (whitebait), waikōura (freshwater crayfish), and tuna (eels). Exotic fish species such as chinook salmon, rainbow trout, and brown trout can still be caught between October and April each year. Because of its significance, the Ashley River/Rakahuri is considered a Ngã Wai and Tūranga Tūpuna under the District Plan. Kaiapoi Pa was accessed by waka from the Ashley River/ Rakahuri. Historical flood events are part of the local history with some of the river's worst floods occurring during the early to mid-	High
Likely Threats	Impact of gravel extraction within the river bed, on bird habitat; Further encroachment into the river corridor and margins by activities on adjacent land e.g. agriculture; Flood management structures; Spreading of weed across the river bed; Buildings and other forms of infrastructure; Four-wheel drive access and damage; Water extraction.	