

Appendix 2: Recommended amendments

	LIGHT-Overview
	<p>...</p> <p>There are three main types of obtrusive or adverse lighting effects that can cause nuisance to nearby residents, users of adjacent areas <u>and roads</u>,¹ and to astronomical observation. These are:</p> <p>...</p>
	LIGHT-Objectives
LIGHT-O1	<p>Artificial outdoor lighting enables work, <u>transportation</u>,² recreation, and entertainment activities to occur beyond daylight hours, while:</p> <ol style="list-style-type: none"> 1. maintaining the health, safety, and amenity values of people; and 2. protecting the District's natural darkness and natural features.
	LIGHT-Policies
LIGHT-P1	<p>Manage new artificial outdoor lighting to minimise light spill and glare onto adjoining sites and glare onto roads to provide for the health and safety of people and the safe, <u>effective</u> and efficient operation of the land transport network.³</p>
LIGHT-P2	<p>Enable artificial outdoor lighting of short duration outside of daylight hours associated with temporary activities, and artificial outdoor lighting for the purpose of emergency response and public health and safety.⁴</p>
LIGHT-P3	<p>Minimise potential upward light that causes sky glow, <u>whilst ensuring the safe, effective and efficient operation of roads, public pedestrian access and public sports courts and grounds</u>, by controlling new artificial outdoor lighting to:</p> <ol style="list-style-type: none"> 1. maintain people's ability to view the night sky; and 2. maintain the distinct character and amenity values of the district's night sky; and 3. protect the health and well-being of people and ecosystems;and

¹ 375.114 Waka Kotahi

² 375.115 Waka Kotahi

³ 375.116 Waka Kotahi

⁴ 370.061 Fonterra, 420.009 Synlait

	4. ensure the safe and efficient operation of roads and public pedestrian access, and public sports courts, and grounds while minimising sky glow. ⁵	
	LIGHT-Rules	
LIGHT-R3	Artificial Outdoor Lighting - Public Sports Courts and Grounds	
All Zones	Activity status: PER 1. Artificial outdoor lighting for public sports courts and grounds Where this activity complies with the following rule requirements: LIGHT-REQ4 Sky Glow - Public Sports Courts and Grounds <u>LIGHT-REQ2 Glare</u> ⁶	...
LIGHT-R5	Artificial Outdoor Lighting - Temporary Activity	
All Zones	Activity Status: PER 1. Artificial outdoor lighting for any temporary activity which operates between 0700 and 2200 only, otherwise LIGHT-R1 applies <u>Where this activity complies with the following rule requirements:</u> <u>LIGHT-REQ2 Glare</u> ⁷	Activity status when compliance not achieved: 2. When compliance with any of LIGHT-R5.1 is not achieved: Refer to the Rule Requirements relevant to LIGHT-R1. 3. <u>When compliance with any rule requirement listed in this rule is not achieved: Refer to Light-Rule Requirements</u> ⁸

⁵ 215.042 Winstone Aggregates, 375.117 Waka Kotahi

⁶ 375.120 Waka Kotahi

⁷ 375.122 Waka Kotahi

⁸ 375.122 Waka Kotahi (cl 16(2) amendment within scope)

	LIGHT - Rule Requirements																
LIGHT-REQ1	Light Spill																
All Zones	<p>1. The maximum level of light spill from artificial outdoor lighting shall not exceed the horizontal or vertical illuminance levels outlined in LIGHT - TABLE1 below on an adjoining site, excluding <u>including</u> roads⁹.</p> <p>Advisory note: <u>LIGHT-REQ1 shall not apply to light spill from road lighting within roads.</u>¹⁰</p> <p>LIGHT-TABLE1 - Maximum Light Spill from Artificial Outdoor Lighting</p> <table> <tr> <th>Zone of the adjoining site receiving light spill</th><th>2200 to 0600</th><th>Hours of darkness from 0600 to 2200</th></tr> <tr> <td>GRUZ SCA-AD2¹¹</td><td>1 lux</td><td>5 lux</td></tr> <tr> <td>GRUZ adjoining DPZ or PORTZ SKIZ</td><td>3 lux</td><td>5 lux</td></tr> <tr> <td>RESZ MPZ GRAZ TEZ</td><td>2 lux</td><td>10 lux</td></tr> <tr> <td>CMUZ GIZ PORTZ KNOZ</td><td>5 lux</td><td>25 lux</td></tr> </table>	Zone of the adjoining site receiving light spill	2200 to 0600	Hours of darkness from 0600 to 2200	GRUZ SCA-AD2 ¹¹	1 lux	5 lux	GRUZ adjoining DPZ or PORTZ SKIZ	3 lux	5 lux	RESZ MPZ GRAZ TEZ	2 lux	10 lux	CMUZ GIZ PORTZ KNOZ	5 lux	25 lux	...
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LIGHT-REQ2	Glare																
All Zones	<p>1. Fixed <u>Artificial</u> outdoor lighting is directed away from and/or screened from adjoining properties and roads.¹²</p> <p>...</p>	...															
LIGHT-REQ3	Sky Glow																

⁹ 375.123 Waka Kotahi

¹⁰ 375.123 Waka Kotahi (cl 16(2) amendment within scope)

¹¹ 442.005 Castle Hill Community Association

¹² 375.124 Waka Kotahi

ONL VAL Coastal Environment West Melton Observatory Lighting Area	... 7. All non-residential artificial outdoor lighting, excluding <u>that associated with agricultural, pastoral and horticultural activities and public amenity buildings that require lighting for security and safety purposes,</u> shall not operate between 2200 and 0600. ¹³	...
	LIGHT - Matters for Control or Discretion	
LIGHT-MAT1	Health and Safety and Amenity	
 6. <u>The actual or potential risk of spill light from artificial outdoor lighting creating a distraction or other impediment to the safe, effective and efficient operation of any road.</u> ¹⁴	
LIGHT-MAT2	Transport Safety	
	1. The actual or potential risk of any glare from artificial outdoor lighting creating a distraction or other impediment to the safe, <u>effective and efficient</u> operation of <u>any road</u> the transport network . ¹⁵	
LIGHT-MAT3	Sky Glow	
	1. Whether the timing, duration, intensity, direction, location, type, design, and operation of the artificial outdoor lighting contributes to avoidable or unnecessary sky glow which impacts on the character and amenity values of the district's night sky. 2. <u>Whether the artificial outdoor lighting is location-specific and necessary to provide for the safe operation of sites, security for buildings and to enhance the health, safety and wellbeing of people.</u> ¹⁶	

¹³ 104.008 Lukas Travnicek, 353.211 Hort NZ, 422.240 Federated Farmers


¹⁴ 375.127 Waka Kotahi

¹⁵ 375.128 Waka Kotahi

¹⁶ 345.032 Porters Alpine Resort, 375.129 Waka Kotahi

	<p>2. <u>3.</u> The proximity of the proposed artificial outdoor lighting to, and any potential effects on any: Outstanding Natural Landscape; Visual Amenity Landscape; Coastal Environment; and the West Melton Observatory Lighting Area.</p> <p>3. <u>4.</u> Reference shall be made where appropriate to Australian/New Zealand Standards AS/NZS11581.2:2010 (Lighting for roads and public spaces) and AS/NZS4282:2019 (Control of the obtrusive effects of outdoor lighting) to limit light levels and obtrusive lighting effects.</p> <p>4. <u>5.</u> The effects of artificial outdoor lighting on people's health and amenity values, including whether the proposal has the potential to result in sleep disturbance</p>
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The following spatial amendments are recommended to PDP Planning Maps:

Map Layer	Description of recommended amendment	Map
General District-Wide Matters 'West Melton Observatory Lighting Overlay'	a) Amend the Planning Maps by inserting the West Melton Observatory Lighting Control Overlay Map and include in the list of Map Tools as the 'West Melton Observatory Lighting Overlay' under the General District-Wide Matters tab. ¹⁷	

¹⁷ 116.016 Robert Glassey, 207.106 SDC

