

9 February 2023

[REDACTED]

Sent via email to [REDACTED]

Dear [REDACTED]

### REQUEST FOR OFFICIAL INFORMATION – RELEASE OF INFORMATION

Thank you for your request for official information dated 24 January 2023. You requested the following information from Queenstown Lakes District Council (QLDC):

- Can you please provide details regarding streetlights/luminaires (referred to as fixtures below) in your territorial authority (TA):
  1. Has your territorial authority taken part in the NLTF funding scheme for the accelerated roll-out of LED road lighting?
  2.
    - a. How many fixtures are currently in place and owned by your territorial authority? (If it is known how many are owned by NZTA Waka Kotahi within your territorial authority please also separately provide this information?)
    - b. How many of these fixtures (answer 2a) are LED?
    - c. Of these LED fixtures, what was the year of installation? (Please provide number of fixtures installed in each calendar year)
    - d. How many of these (a) are not yet LED and are currently scheduled to be retrofitted/replaced with LED in the future, and in which calendar year?
    - e. How many of these (a) are not yet LED and are not currently scheduled for retrofitting/replacement with LED?
    - f. How many additional fixtures are currently scheduled to be installed in your territorial authority (in addition to the current streetlights referred to in answer 2a, e.g. in new subdivisions), in which calendar year, and how many of these will be LED fixtures?
  3. How many TA owned fixtures of which CCT colour temperature are installed, specifically:
    - a. What is the CCT colour temperature (e.g 3000K or 4000K) of the TA owned LED fixtures currently installed (referring to answer 2b)?
    - b. What will be the CCT colour temperature of any future retrofitted TA owned LED fixtures (referring to answer 2d)?
    - c. What will be the CCT colour temperature of any additional future TA owned LED fixtures (referring to answer 2f)?

For questions 2a-c, if different colour temperatures are (to be) installed, please provide a breakdown of how many at which temperature (e.g. 20 fixtures at 3000K, 123 at 4000K). If colour temperature is determined by road categories, please provide details on the CCT by road type, and the number of streetlights per road type.

4. How many of the current TA owned LED fixtures (answer 1b):

- a. have central management system (CMS) technology?
  - b. have wireless CMS technology?
  - c. are being controlled using CMS beyond time-based on/off controls? (If any, please see question 4f)
  - d. are control-enabled? (i.e. they are not currently controllable using CMS, but with an additional receptacle will be)
  - e. are not able to be retrofitted with CMS
  - f. only for those being controlled by CMS currently (answer 4c), please specify the control settings and curfew timings (e.g. dimming to 50% intensity between 11pm and 6am; dimming to 50% intensity with motion-sensed brightening to 75% between 12am and 5am). For question 4f), if control settings are determined by road categories, please provide details on the settings by road type, and the number of streetlights per road type.
5. How many of the future (retrofitted and additional) TA owned LED fixtures (answer 2d and 2f together):
- a. will have central management system (CMS) technology?
  - b. will have wireless CMS technology?
  - c. will be controlled using CMS beyond time-based on/off controls? If any known controls, please specify (as per question 4f).

## QLDC Response

QLDC has decided to grant your request for information in part. The information requested is provided below.

To address your information request, we contacted our [Property & Infrastructure](#) team to provide all the information in relation to your request and they have sourced the below response. Please note few parts of your request would be best answered by NZTA.

1. *Has your territorial authority taken part in the NLTF funding scheme for the accelerated roll-out of LED road lighting?*

- Yes in 2018 to replace all “standard” P Cat HPS luminaires and the roading network only (excluded any Park and Reserves lighting)

2.

a. *How many fixtures are currently in place and owned by your territorial authority? (If it is known how many are owned by NZTA Waka Kotahi within your territorial authority please also separately provide this information?)*

Based on current data available;

- QLDC – 5683 (Transport – 5285, Parks and Reserves – 398)
- NZTA - 414

b. *How many of these fixtures (answer 2a) are LED?*

- QLDC – 4151 (Transport – 4052, Parks and Reserves – 99)
- NZTA - 212

c. *Of these LED fixtures, what was the year of installation? (Please provide number of fixtures installed in each calendar year)*

QLDC- It was installed in 1985. Please see the below table for each calendar year.

Lamp Type	Light Emitting Diode (LED)	
<b>Count of Lamp Type</b>		
Light Owner Group	Years	Total
QLDC	<31/12/1985	303
	2005	1
	2008	2
	2009	18
	2010	1
	2011	3
	2013	13
	2016	47
	2017	365
	2018	1117
	2019	1293
	2020	194
	2021	309
	2022	371
	2023	15
<b>QLDC Total</b>		<b>4052</b>
QLDC Reserves	<31/12/1985	20
	2008	3
	2010	2
	2018	11
	2019	15
	2020	14
	2021	8
	2022	26
<b>QLDC Reserves Total</b>		<b>99</b>
<b>Grand Total</b>		<b>4151</b>

NZTA – 2016. Please see the table for NZTA calendar year.

Lamp Type	Light Emitting Diode (LED)	
<b>Count of Lamp Type</b>		
Light Owner Group	Years	Total
NZTA	<17/08/2016	37
	2017	26
	2019	71
	2020	41
	2021	12
	2022	25
<b>NZTA Total</b>		<b>212</b>
<b>Grand Total</b>		<b>212</b>

d. How many of these (a) are not yet LED and are currently scheduled to be retrofitted/replaced with LED in the future, and in which calendar year?

- QLDC – Currently programmed for replacement ~91 (Transport - ~41, Parks - ~50). These are approximate as the programme is not yet fixed – works will be in current fiscal year (FY23), can't provide calendar year at this time.
- NZTA– Please contact NZTA for this part of your request.

e. How many of these (a) are not yet LED and are not currently scheduled for retrofitting/replacement with LED?

- 1441 (Transport - 1192, Parks - 249)
- NZTA– Please contact NZTA for this part of your request.

f. How many additional fixtures are currently scheduled to be installed in your territorial authority (in addition to the current streetlights referred to in answer 2a, e.g. in new subdivisions), in which calendar year, and how many of these will be LED fixtures?

This data is not explicitly held. However, we have provided some comments as follows:

- Any information and approvals for new roads and lighting being vested to QLDC through subdivisions will be contained on the relevant resource consent files which are available for public viewing via eDocs.
- Subdivision consents generally have a 5-year timeframe to obtain 223 certification, then an additional 3 years to implement and gain 224c under the Resource Management Act (8 years total).
- Council has no control over if/when the consent or approved lighting will be implemented or the scheduling of lighting installation by private developers. However, it is likely that any consents that aren't already exercised will be in the next 7-8 years to avoid lapsing of the consent.
- Our understanding is that all installations moving forward are required to be LED in accordance with Council's policy (Southern Light). This Policy also dictates required spacings and therefore number of installations for each new road.

- We suggest you go back through the resource consents on our eDocs system for the last 7-8 years to identify which ones haven't been exercised and what (if any) lighting design approvals (Engineering Acceptances) are on file for new road lighting. You may calculate likely future LED installation from that.

3. How many TA owned fixtures of which CCT colour temperature are installed, specifically:

Lamp Type	Light Emitting Diode (LED)	
<b>Count of Lamp Type</b>		
CCT	Light Owner Group	Total
3000k	QLDC	2223
	QLDC Reserves	19
<b>3000k Total</b>		<b>2242</b>
Unknown	QLDC	58
	QLDC Reserves	50
<b>Unknown Total</b>		<b>108</b>
(blank)	QLDC	1771
	QLDC Reserves	30
<b>(blank) Total</b>		<b>1801</b>
<b>Grand Total</b>		<b>4151</b>

a. What is the CCT colour temperature (e.g 3000K or 4000K) of the TA owned LED fixtures currently installed (referring to answer 2b)?

- QLDC - Data is not explicitly held, however Southern Light policy states that all lights install must adhere to NZTA M30 specifications but QLDC differs from M30. We only allow 3000k LEDs to be installed in P Cat areas. Surmising / extrapolating from make and model and location (some lighting designs) –

Lamp Type	Light Emitting Diode (LED)	
<b>Count of Lamp Type</b>		
CCT	Light Owner Group	Total
3000k	QLDC	3739
	QLDC Reserves	36
<b>3000k Total</b>		<b>3775</b>
Unknown	QLDC	313
	QLDC Reserves	63
<b>Unknown Total</b>		<b>376</b>
<b>Grand Total</b>		<b>4151</b>

NZTA – Data is not explicitly held, however all NZTA LEDs will be V-Cat and likely 4000k

b. *What will be the CCT colour temperature of any future retrofitted TA owned LED fixtures (referring to answer 2d)?*

- QLDC – Transport – ~31 x 3000k, ~10 x 2700k. Parks ~50 not yet determined (not greater than 3000k)
- NZTA– Please contact NZTA for this part of your request

c. *What will be the CCT colour temperature of any additional future TA owned LED fixtures (referring to answer 2f)?*

- QLDC – By policy all new lights on the QLDC network cannot be greater than 3000k, with the exception of some V cat lights where 4000k is permitted. QLDC is also the very early stages of exploring the possible use of lower kelvin luminaires in specific area. eg PC amber 2200k LEDs.
- NZTA– Please contact NZTA for this part of your request

*For questions 2a-c, if different colour temperatures are (to be) installed, please provide a breakdown of how many at which temperature (e.g. 20 fixtures at 3000K, 123 at 4000K). If colour temperature is determined by road categories, please provide details on the CCT by road type, and the number of streetlights per road type.*

4. *How many of the current TA owned LED fixtures (answer 1b):*

- Please refer our response for Q2(b).

a. *Have central management system (CMS) technology*

- None

b. *Have wireless CMS technology?*

- None

c. *Are being controlled using CMS beyond time-based on/off controls? (If any, please see question 4f)*

- None

d. *Are control-enabled? (i.e. they are not currently controllable using CMS, but with an additional receptable will be)*

- QLDC – Data not explicitly held however it can surmised from make and model that approx. 3626 (Transport – 3588, Parks and Reserves - 38 can be adapted). Further 217 (Transport – 209, Parks and Reserves – 8) are underminable

- NZTA – Data not explicitly held however it can surmised from make and model that 212 be adapted for CMS - All LED luminaires installed must be supplied with a CMS compatible driver and provision for an LPC (Light Point Controller or Luminaire Controller) via a capped socket (e.g. 7 contact NEMA ANSI) or hard wired (mini/micro aerial or plugged conduit entry)

e. *Are not able to be retrofitted with CMS*

- QLDC – Data not explicitly held however it can surmised from make and model that approx. 308 (Transport – 255, Parks and Reserves - 53 cannot be adapted. Further 217 (Transport – 209, Parks and Reserves – 8) are underminalable
- NZTA – Data not explicitly held however it can surmised from make and model that 0 cannot be adapted for CMS

f. *Only for those being controlled by CMS currently (answer 4c), please specify the control settings and curfew timings (e.g. dimming to 50% intensity between 11pm and 6am; dimming to 50% intensity with motion-sensed brightening to 75% between 12am and 5am). For question 4f), if control settings are determined by road categories, please provide details on the settings by road type, and the number of streetlights per road type.*

- NA

5. *How many of the future (retrofitted and additional) TA owned LED fixtures (answer 2d and 2f together):*

- will have central management system (CMS) technology?*
- will have wireless CMS technology?*
- will be controlled using CMS beyond time-based on/off controls? If any known controls, please specify (as per question 4f).*

- QLDC – None for all the above
- NZTA - Please contact NZTA for all the above.

We trust this response satisfactorily answers your request.

Kind Regards,



Poonam Sethi

Governance and Official Information Advisor