

# From Zero to Hero – QLDC Faces up to the Challenge of Water Demand Management

Presented to: NZSSES Conference  
Presented by: Emily Botje  
Date: 11<sup>th</sup> December 2008



**MWH**

*BUILDING A BETTER WORLD*

# Water demand management is relevant to all water supplies, including the QLDC, because:

1. Leakage can be a major issue and represents wastage
2. The cost to produce water is going to increase
3. Benefits of conservation outweigh costs
4. Promotes wise use of water (flow on effect into other resource streams)

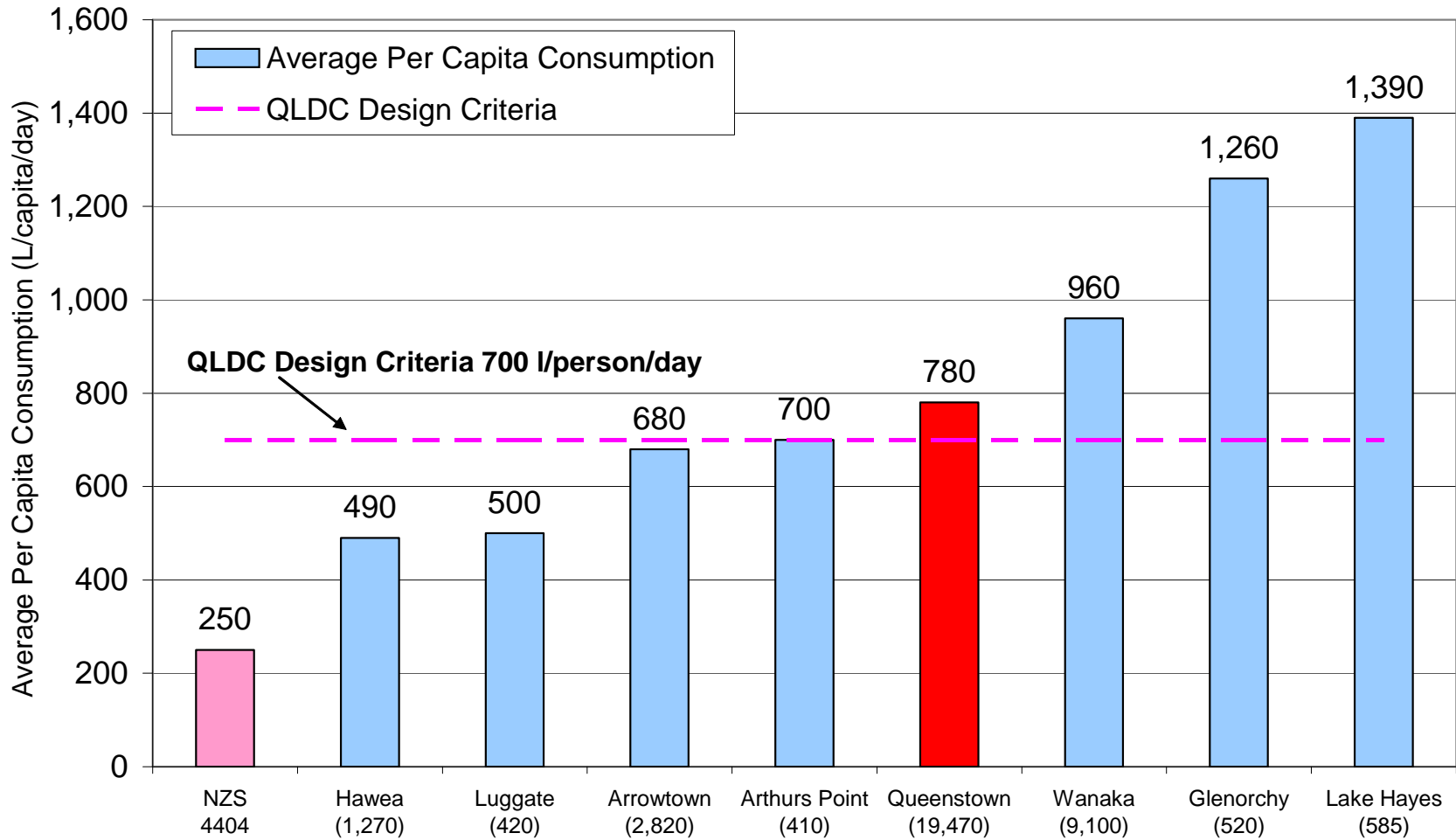
# An Introduction to the Queenstown Water Supply



# Raw Water Storage



# How much water do QLDC use?

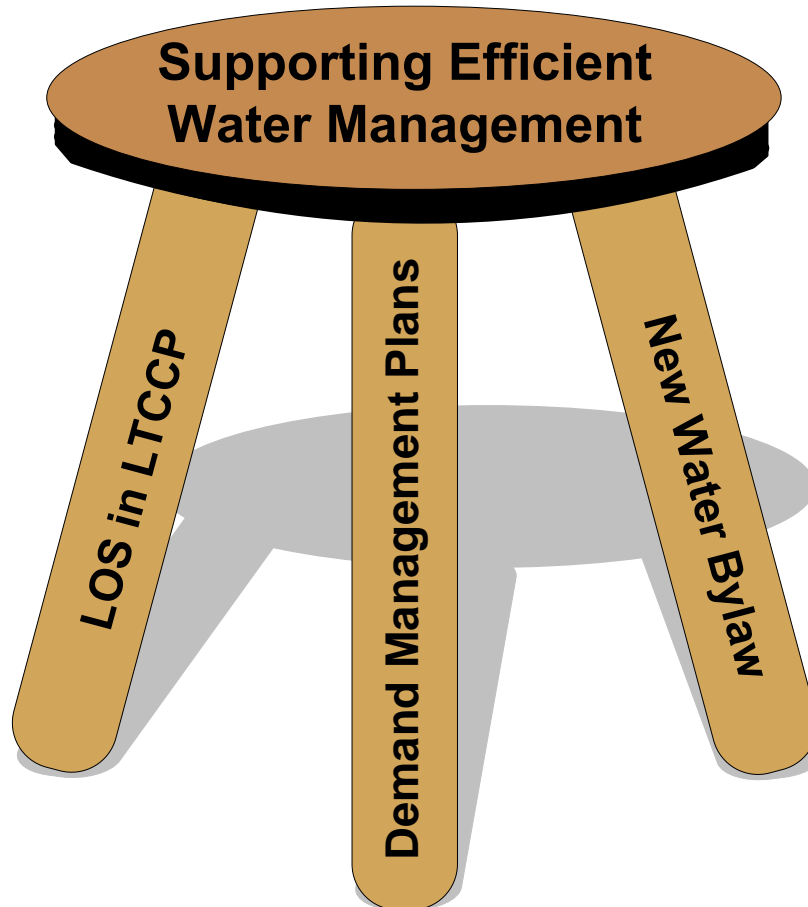




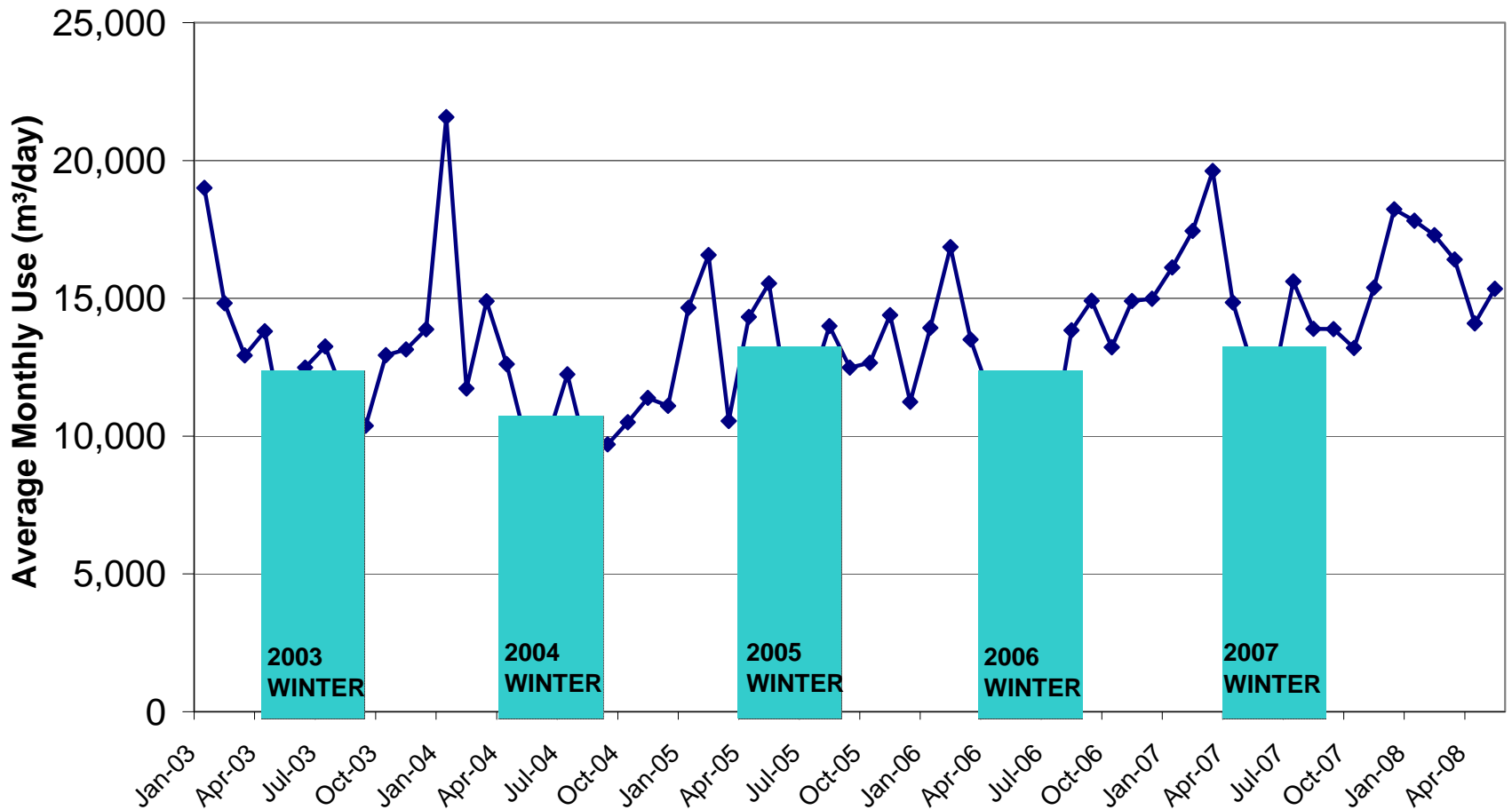
# Inefficient Water Use



# Lifting the Game



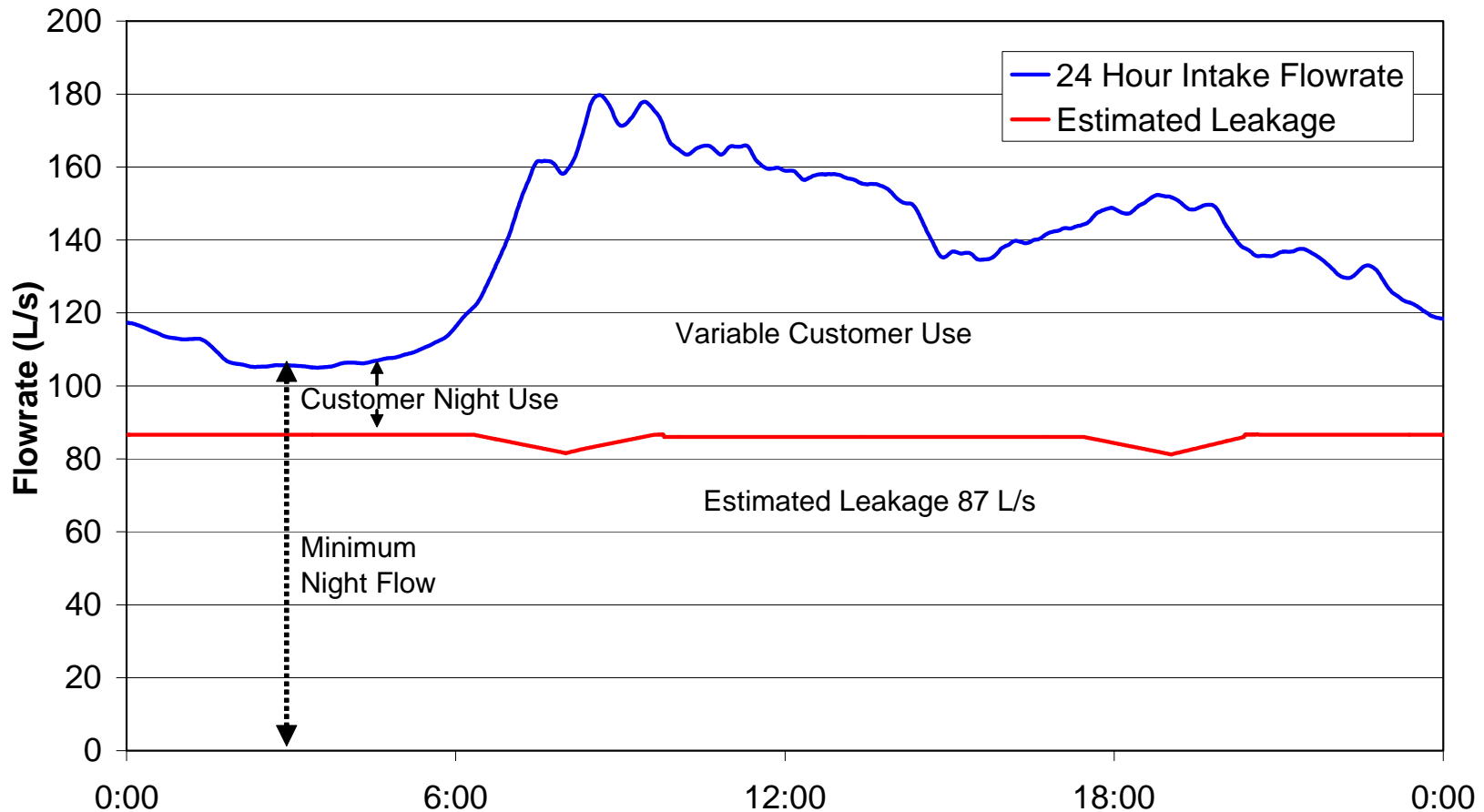
# Leakage expected to be a major issue





# Verified by Night Flow Monitoring

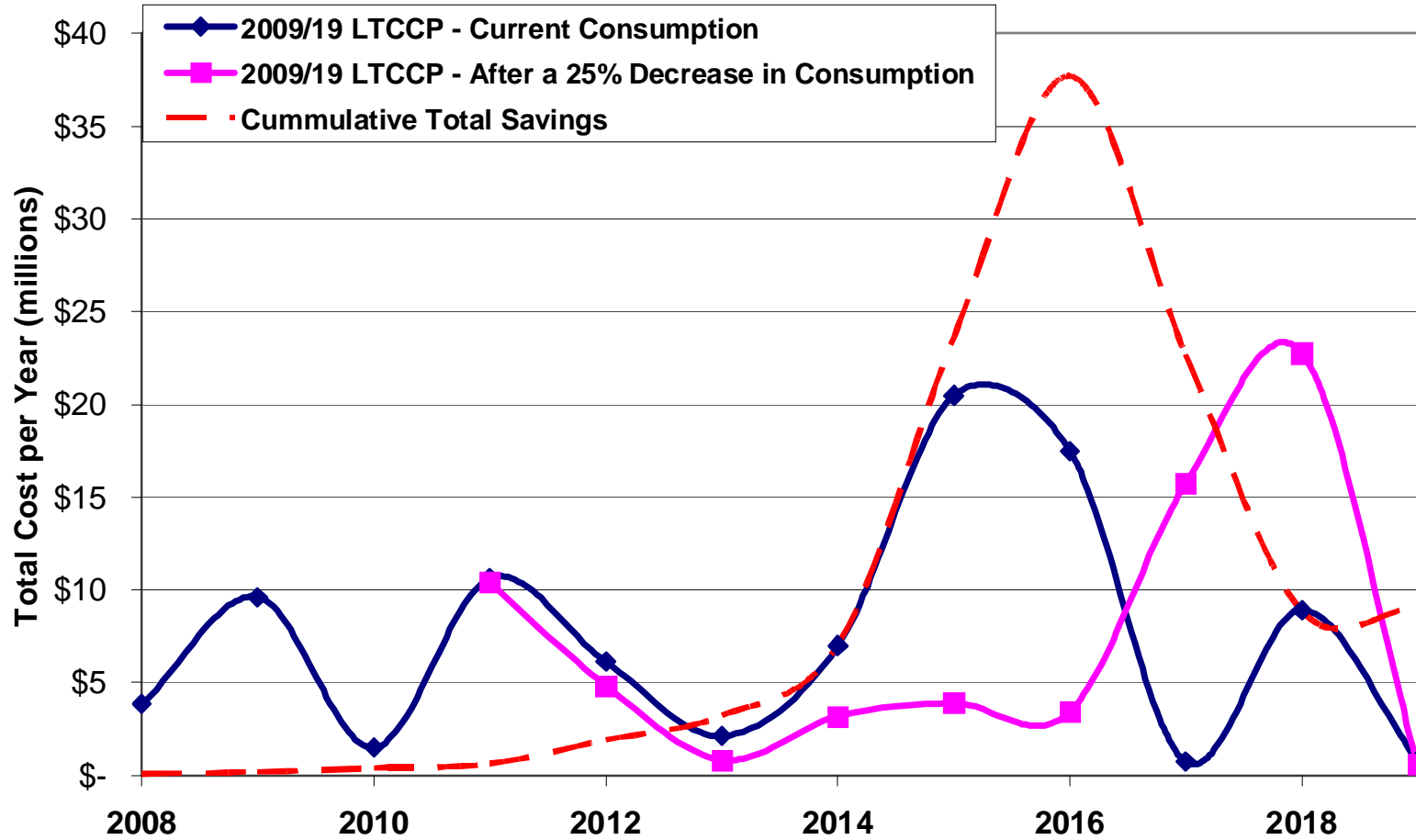
## Queenstown Inflow and Leakage May 20th 2008



# How much leakage?

- Estimated 1,070 L/connection/day
  - Represents 50% of 2007 ADD
  - Unknowns: exceptional night demand and property leakage
  - Infrastructure Leakage Index = 15
- ✓ 3 Year Target 50% Water Loss Reduction

# Potential for Significant Cost Savings



# The Plan

	2008		2009		2010		2011	
	Jan	Jun	Jan	Jun	Jan	Jun	Jan	Jun
<b>Demand Management Plan</b>	■							
<b>Queenstown Leakage Reduction</b>			■					
<b>Night Flow Monitoring</b>	■			■		■		■
<b>Annual Update of DMP</b>				■		■		■
<b>Details of Levels of Service in LTCCP</b>			■					
<b>Fees and Charges to be Developed (with CCP)</b>			■					
<b>New Water Bylaw Operative</b>		■						

# Education Programme Options



# Water demand management is relevant to all water supplies, even the QLDC, because:

- Leakage can be a major issue and represents wastage
- The cost to produce water is going to increase
- Benefits of conservation outweigh costs
- Promotes wise use of water (flow on effect into other resource streams)





**Thanks!**

**Questions?**

