



The Corporation of the City of **Nelson**

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2006 Energy Aware Award Application
City of Nelson
Wastewater Treatment Plant Upgrade

Executive Summary:

In an ongoing commitment to protecting the environment the City of Nelson undertook to upgrade the existing Wastewater Treatment Plant to a secondary level of treatment from the existing primary level. The upgrading of the final effluent to the Kootenay River was a significant environmental benefit of the project but also of great importance was the energy saving decisions made throughout the design process. Decisions such as selecting Rotating Biological Contactors as a bioreactor component; a SCADA system and computerized controls that optimize energy use in pumping; proper sizing of pumps to optimize performance and minimize energy expenditure; as well as a modified conventional approach to secondary clarification.

The City of Nelson recognizes the importance of reducing energy consumption and therefore reducing the resulting greenhouse gas emissions which are harmful to the environment. The design choices made for the plant upgrade reflect this obligation to the environment.

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