

CITY-WIDE WATER SYSTEM

WATER SUPPLY & TREATMENT OPTIONS

Report to Council- 2010 July 12



PRESENTATION AGENDA

- ▶ Overview
- ▶ Technical Summary
(Bill Harvey, Associated Engineering)
- ▶ Next Steps & Recommendations

PURPOSE:

APRIL 20, 2009 COUNCIL DIRECTION

- ▶ Best long term system for safe, reliable water supply for all residents
- ▶ Technical confidence to support capital grant applications of local water purveyors
- ▶ Associated Engineering
 - ▶ Terms of Reference: Are there better long-term options available than Business as Usual
 - ▶ Team Lead: Bill Harvey, Peer Review: Ian Wright

PROCESS

- ▶ Technical Reports:
 - ▶ Water Sources, Treatability & Costing Criteria
 - ▶ Water Demand Design Criteria
 - ▶ Options Conceptualization
 - ▶ Options Cost Estimates
 - ▶ Evaluation and Comparison of System Options
 - ▶ Summary Report

MINISTRY'S PRINCIPLES - 2010 JAN 12

- ▶ Best-Lowest Cost Solutions
- ▶ Flexibility
- ▶ Achievement of Public Health Outcomes
- ▶ Agricultural Interests Maintained

A City-wide solution supported by stakeholders and residents achieved through an open transparent process that builds trust

MAYOR'S PRINCIPLES - 2010 MARCH 11

- ▶ Achieve Canadian Health Standards
- ▶ Ensure Affordable water for agriculture
- ▶ Charge citizens equitably for service
- ▶ Plan for long-term financial sustainability

IH PLANNING PRINCIPLES

PUBLIC HEALTH - 2010 JUNE 10

- ▶ **Coordinate:** Boundary-less planning
- ▶ **Equitable quality, consistent service:** centralization of domestic supply & treatment
- ▶ **Reduced cost:** separation of domestic & agricultural systems
- ▶ **Robustness, Redundancy:** system interconnection
- ▶ **Filtration readiness:** deferral plans annual review
- ▶ **Proactive:** plan for migration toward filtration:
- ▶ **Commit:** design option optimization, phased implementation, timelines, financial resources

PROCESS

- ▶ May 13, 2010: Draft report to Irrigation Districts & Interior Health
- ▶ June 24, 2010: Workshop to incorporate stakeholder input

SUMMARY REPORT: CITY-WIDE WATER SUPPLY & TREATMENT OPTIONS

Associated Engineering



NEXT STEPS -

- ▶ Media Release
 - ▶ Value of collaborative approach demonstrated
 - ▶ Stakeholders agree to draft MOU
- ▶ Post AE technical study
- ▶ Progress Report to Minister, Community & Rural Development
- ▶ Draft MOU with all Irrigation Districts
- ▶ Budget & Commission feasibility/concept design
 - ▶ current system info and longer planning horizon

ADDITIONAL TASKS

- ▶ Kelowna Water Utility Filtration Deferral Application (IH) finalized December 2010
 - ▶ Adjust Utility Rates:
 - ▶ water source protection plan
 - ▶ future filtration implementation