



Capital Regional District Core Area Wastewater Management Program Supporting Report

April 25, 2007



Format

- The Decision Process
- The Core Area Wastewater Management Program
- The Supporting Report

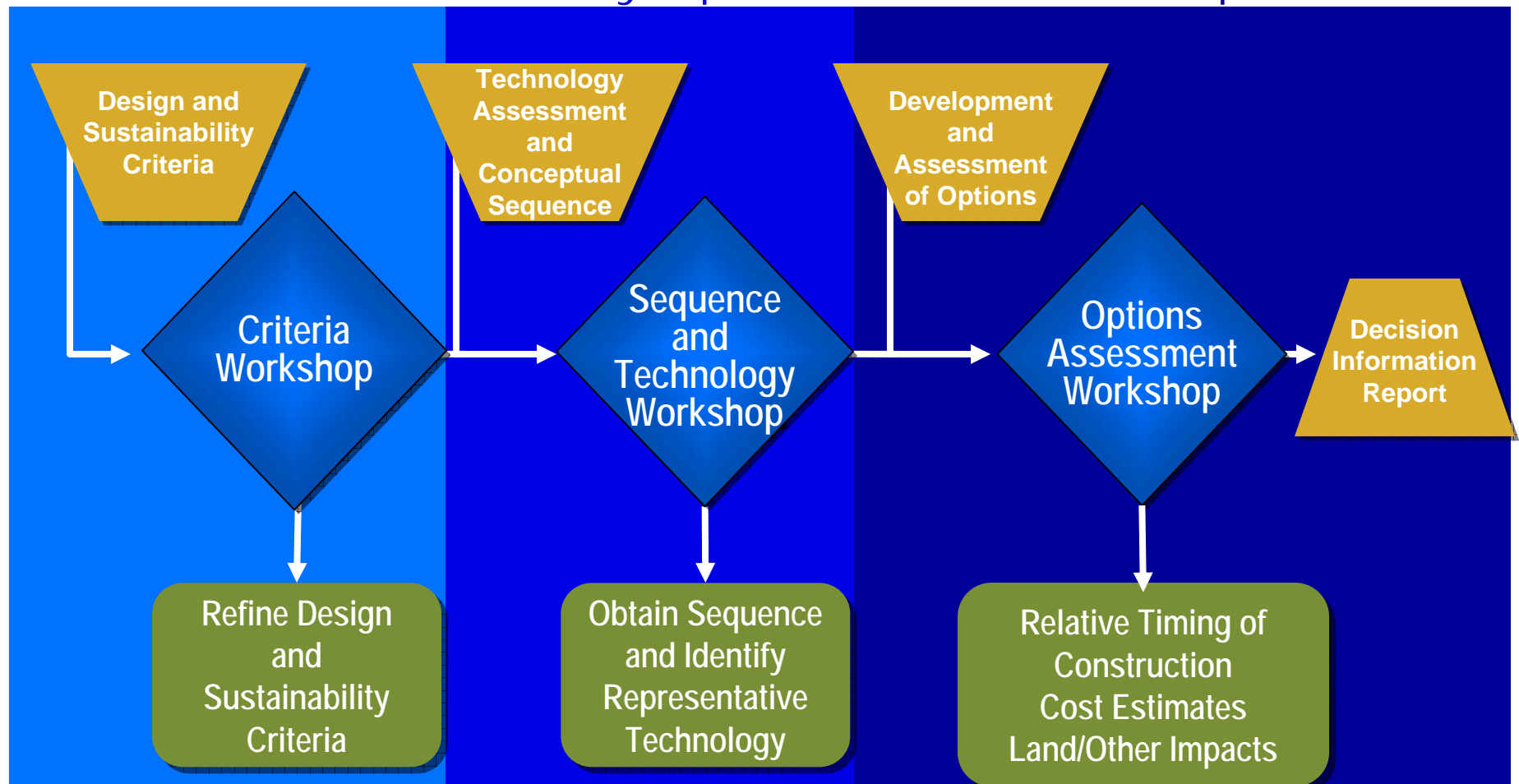


The Decision Information Process

Define Criteria

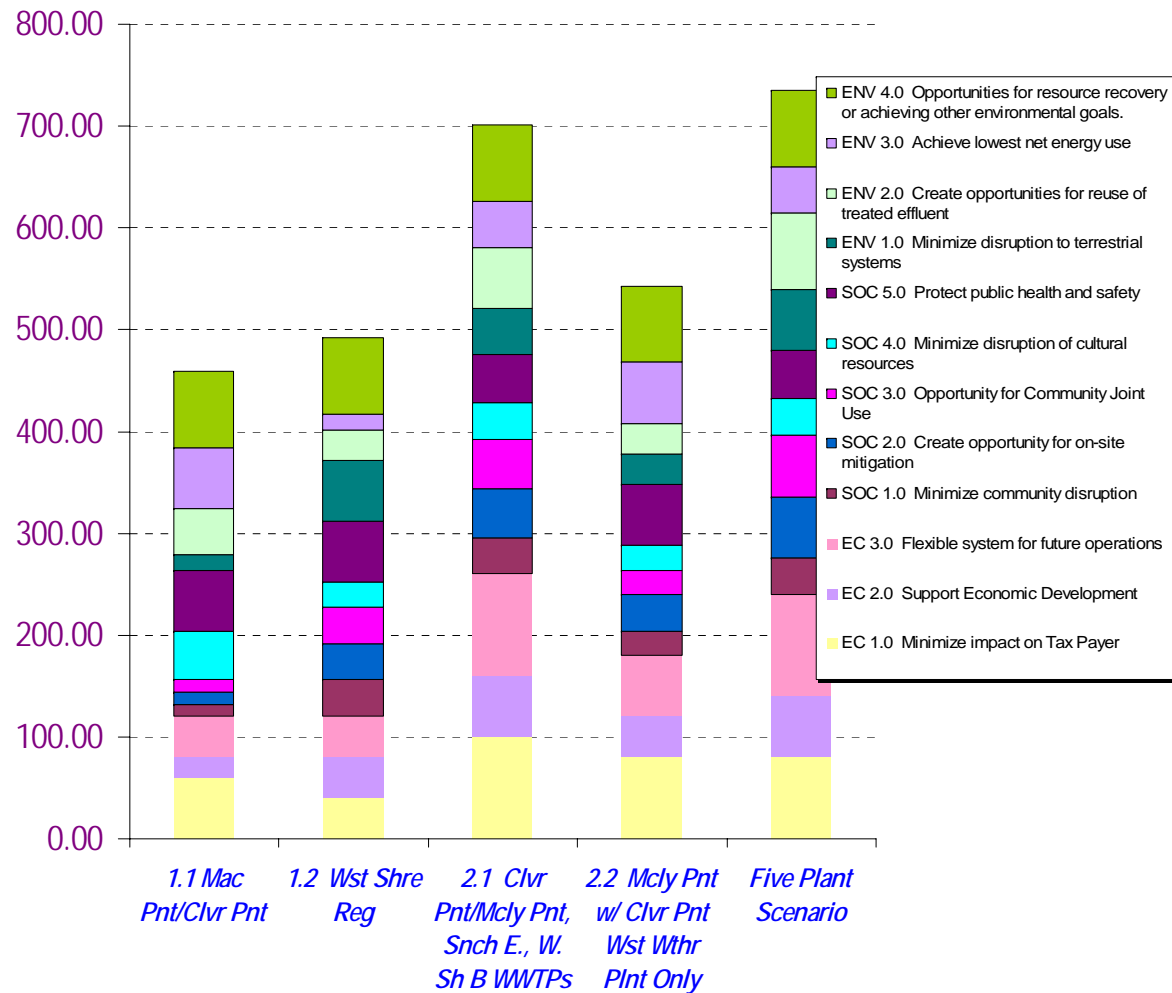
Identify Options

Assess Options



The TBL Results

Triple Bottom Line Base Case – All TBL Elements Weighted Equal





The Basis of the Core Area Wastewater Management Program

Development patterns, the coastal geography, the existing infrastructure with its wet weather flow issue and opportunities for future reuse all make a more decentralized approach attractive.

Core Area Wastewater Management Program

The Three Key Elements

- The Clover Point plant should be a wet weather facility only.
- A secondary plant at the Macaulay Point site is the most realistic option for a centralized plant.
- There should be two or more decentralized “liquid stream treatment only” plants. Decisions on conveyance and centralized treatment facilities need to be compatible with a distributed wastewater management strategy.



Core Area

Wastewater Management Program

The Response to the Minister – Two Documents

The Supporting Report

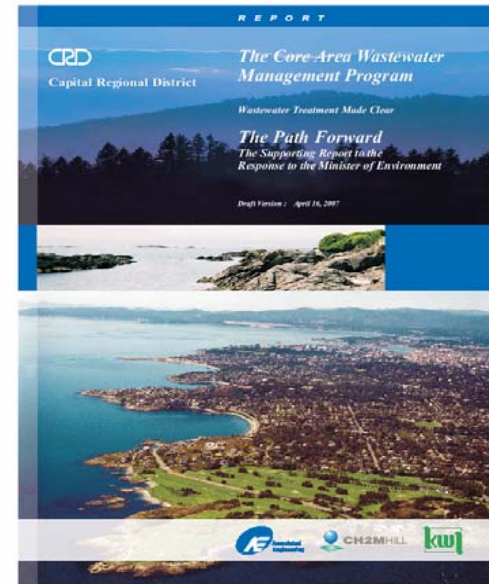
A reader friendly report documenting the Decision Process and the strategic direction.

Proposed Amendment to the LWMP

A concise technical document with the proposed changes to the LMWP.

The Supporting Report

- 17 pgs double-sided
- Aimed at an interested public audience
- Provide enough information to understand the Program and respond the Minister's Request
- Limit the details to retain flexibility during Program Development





The Supporting Report Chapter Outline

- 1 Introduction**
- 2 The Existing Situation**
- 3 The Decision Process**
- 4 The Wastewater Management Strategy**
- 5 The Next Steps**



The Supporting Report

Chapter 4 - The Wastewater Management Strategy

- **The Wastewater Management Program**

Source control, distributed wastewater treatment, water reuse and resource recovery and wet weather flow management

- ***Macaulay Point WWTP***

Secondary treatment in the first stage. Emphasize the siting uncertainty



The Supporting Report

Chapter 4 - The Wastewater Management Strategy

- Clover Point Wet Weather Plant

The site appearance will remain essentially the same

- Decentralized Water Reclamation Plants

Liquid stream treatment only. Key element of both the wet weather management program and the reuse / recovery program. Potential for two or more plants.

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Chapter 4 - The Wastewater Management Strategy

- The Biosolids Management Facility

Goal is energy recovery, volume reduction and production of a biosolids product. Need to develop the biosolids land application program in concert with the sludge processing technology.

- The Schedule

Stage 1 is a ten year program. Details will be in Proposed LWMP Amendment.



The Supporting Report

Chapter 4 - The Wastewater Management Strategy

- Cost Estimates

\$1.2 billion in inflated dollars

Chapter 5 – The Next Steps Proposed LWMP Amendment

- Being prepared by CRD Staff
- Presented to the Steering Committee on May 23
- Provides additional details on proposed changes to LWMP
- Expectation is that Minister will accept as an interim step
- LWMP Amendment will be completed in 2008



Chapter 5 – The Next Steps Program Development

Phase 1: The Decision Process

**Phase 2: Program Development and Facility
Planning**

Phase 3: Design

Phase 4: Construction / Commissioning

Phase 5: Operation

The Path Forward

The CRD has embraced the opportunity to look ahead and has chosen a path that will address both near term goals as well as provide the flexibility to meet the environmental challenges of the future.

