

Capital Regional District Core Area Wastewater Treatment Program

East Saanich WWTP Workshop



Stantec

August 2009

Treatment Plant Siting Considerations

- **Plant Aesthetics – How will it look?**
- **Noise Control**
- **Odour Control**
- **Access and Traffic**
- **Buffering and Landscape**

Architectural Treatment

- Plant can designed to fit into neighborhood
- Many examples where Architecture has been used to enhance plant appearance
- Can design facility so it does not look like a treatment plant

Citrus Wynd WWTP – West Vancouver



Crescent City WWTP, California



Blaine, Washington WWTP



Whistler WWTP



Lacey Plant, Olympia, Washington



Pumping Facilities Integrated into Neighborhood



Vernon WWTP



Goldbar WWTP



Kamloops WTP



Odour Control

- All major process units will be covered
- Air streams are collected and directed to an odour control treatment system
- Many examples where odour control facilities have been used to mitigate odours – Kelowna, Vernon, Whistler



Noise Control

- **Noise can be mitigated to ambient levels**
- **Acoustic design of buildings and process**
- **Acoustic Engineer will be involved in design**

Access and Traffic

- **No significant traffic associated with plant operations**
- **Expect only local traffic from plant operators**
- **Truck traffic several times per week for screenings removal**

Summary

- **Proper design can mitigate impacts**
- **All treatment units will be enclosed or covered**
- **Many examples across North America of plants built in developed areas with little or no impact to surrounding residents**



Questions?