# Colliery Dam Park

Leon Cake July 13, 2015

### COLLIERY DAM PARK

Information gathered from: City of Nanaimo Operation, Maintenance and Surveillance Manual for Chase River Dams Prepared by Golder and Associates Issued for use 2004

# Chase Watershed Hydrology

- Hydrology of the watershed
  ESTIMATED 3 times
- 3000 year flood corresponds to a 80M3/sec flow
- PMF is 198 m3/sec which is markedly excessive
- There has been no systematic measurement of weir flow over the life of the dam

#### Middle Dam Hydraulic Performance Curves

Two different ESTIMATES were performed on the spillway discharge

The spillway capacity is not known

No field calibrations were done to resolve the discrepancy

# Extreme Storms

Dams have passed significant storms without damage most recently 2003

Important task - watershed inspector,

gathering data on actual spillways flows during storms

# Report out of Date

Document submitted to DSS as required

Seriously out of date

Information is incorrect by today's standards

When does City plan to do the update?

# Stay and Appeal Affidavits

DSS presents these affidavits

**Robert Mclean** 

- did not do an in depth analysis if it is correct or not, nor have I done my own analysis of the risks
- -between 13 and 27 residence would sustain sever damage with damage valued at between \$5.3 and \$8.3 million with 2 dams breaching

Scott Morgan -

- Estimate casualties between 30 to 60 people
- Estimated damage at \$40 to \$46 million
- Unsolicited letter to NDN editor stating 150 will die

#### What is Best

Given the information in this presentation, along with all of the conflicting information, is another basis to request the province to grant our community

One year to:

**Complete Studies** 

**Select Committee** 

Complete Technical Committee tasks

#### COLLIERY DAM PRESERVATION SOCIETY

## THANK YOU

Any questions?