

**REPORT TO THE JUAN DE FUCA WATER DISTRIBUTION COMMISSION  
MEETING OF TUESDAY, FEBRUARY 5, 2013**

---

**SUBJECT      WATER DISTRIBUTION MAIN REPLACEMENT PROGRAM – 2012 PROGRAM  
SUMMARY**

**ISSUE**

This report provides a summary of the 2012 Water Distribution Main Replacement Program, an on-going program initiated in 1999.

**BACKGROUND**

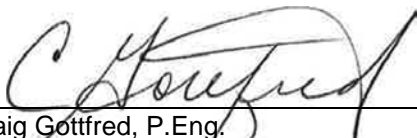
The Water Distribution Main Replacement Program was approved by the Juan de Fuca Water Distribution Commission in 1999, and is a comprehensive program providing a plan for pipe replacement based on the analysis of the following factors: age, type, and condition of the pipe, leak history, financial risk, environmental risk, service pressure, water quality impacts, and other factors such as other construction and road paving programs. The approved program budget for 2012 was \$2,200,000. The following and Attachment 1, provide a summary of the 2012 upgrades.

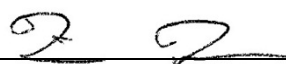
1. A total of 4181 metres of 150mm-300mm water mains were designed and constructed at a cost of \$2,188,261.
2. Water main designs were completed utilizing both Capital Regional District (CRD) engineering staff and engineering consultants.
3. All water main installation was completed by CRD crews.


At the end of the first year, the program is on schedule and budget.

**RECOMMENDATION**

That the Juan de Fuca Water Distribution Commission receive this report for information.

  
\_\_\_\_\_  
Craig Gottfred, P.Eng.  
Manager, Distribution Engineering  
Infrastructure Engineering

  
\_\_\_\_\_  
Tim Tanton, MPA, P.Eng.  
Senior Manager, Infrastructure Engineering  
Concurrence

  
\_\_\_\_\_  
Ted Robbins, B.Sc., C.Tech.  
Acting General Manager,  
Integrated Water Services  
Concurrence

Attachment: Table 1

## JUAN DE FUCA WATER DISTRIBUTION SYSTEM

### Table 1: Water Main Distribution Replacement Program - Summary of Construction in 2012

Location	Municipality	Size	Proposed (metres)	Complete (metres)
Ganges Cr	Colwood	150	169	169
Virago Cr	Colwood	150	405	405
Bruce Ave	Colwood	150	217	217
Belmont Rd	Colwood	200	314	314
Tribune Cr	Colwood	150	158	125
Olympic View Dr	Metchosin	150	570	485
Hockley Ave*	Langford	200	136	0
Bryn-Maur Rd*	Langford	200	63	0
Goldstream Ave	Langford	300	170	152
Selwyn Rd	Langford	200	180	226
Galena Rd	Sooke	200	520	522
Klahanie Dr	Langford	250	540	600
Willing Dr	Langford	250	146	195
Kelly Rd**	Colwood	300	633	633
Calvert Rd	Sooke	150	138	138
Prince Robert Ln*	View Royal	200	545	0
		<b>Total Length (m)</b>	<b>4034</b>	<b>4181</b>
<b>Design for 2013</b>				
St.Gilles St	View Royal	200	148	
Stillwater Rd	View Royal	150	67	
Lowland Rd	View Royal	150	88	
Sooke Rd	Colwood	300	1990	
Metchosin Rd	Colwood	250	810	
Laren Rd	Colwood	200	319	
		<b>Budget</b>		<b>\$1.88M</b>
		<b>Actual Cost</b>		<b>2,188,261</b>

**Notes:**

\* These water mains were deferred to accommodate the following new projects: 1) request from the City of Langford to complete Goldstream Ave/Leigh Rd upgrade in conjunction with the interchange project; 2) District of Sooke to complete Galena Rd upgrade prior to road paving project; and 3) upgrade the Selwyn Rd main resulting from a broken main

\*\* Kelly Rd connection on Sooke Rd is not complete.