

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

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**SUBJECT      5 YEAR FIRE FLOW UPGRADE PROGRAM – 2012 (YEAR 1) PROGRAM SUMMARY**

**ISSUE**

This report provides a summary of the 2012 Fire Flow Upgrade Program, a 5 year program initiated in 2012.

**BACKGROUND**

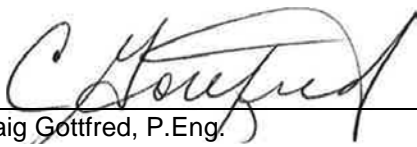
The 5 year Fire Flow Upgrade Program was approved by the Juan de Fuca Water Distribution Commission in 2011, for the purpose of ensuring, upon completion of the program, that all areas within the Juan de Fuca Water Distribution System will be provided with fire flows that meet the recommended Fire Underwriters Survey (FUS) Urban Single Family Dwelling flow rate. The approved program budget is \$1,880,000 per year. The following, and Table 1, provide a summary of the 2012 upgrades:

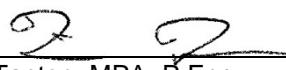
1. A total of 3224 metres of 150mm-300mm water mains were designed and constructed at a cost of \$1,897,870.
2. Water main designs were completed utilizing both Capital Regional District (CRD) engineering staff and engineering consultants.
3. All water main installation was completed by CRD crews.

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

**RECOMMENDATION**

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

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

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

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

CG:TR:mm  
Attachment: Table 1

## JUAN DE FUCA WATER DISTRIBUTION SYSTEM

**Table 1: 5 Year Fire Flow Upgrade Program - Summary of Construction in 2012**

Location	Municipality	Size	Proposed (metres)	Complete (metres)
Phelps Ave	Langford	200	144	180
Hansen Ave	Langford	200	552	550
Bellamy Rd	Langford	200	121	165
Mocha Close*	Langford	200	35	30
Chalister Crt	Metchosin	150	160	160
Hi-Mount Dr**	Metchosin	200	208	30
Saddleback Rd**	Metchosin	200	100	75
Hackamore Dr	Metchosin	250	237	240
Brookview Dr	Metchosin	150	341	350
Sundance Dr+	Metchosin	200	160	126
Glenforest Way	Metchosin	200	272	283
Fulton Rd***	Colwood	300	488	488
Cualta Cr	Colwood	250	284	120
Woodlands Rd++	Sooke	200	427	427
Elan Pl+++	East Sooke	250	366	0
		<b>Total Length</b>	<b>3895</b>	<b>3224</b>
<b>Design for 2013</b>				
Sunheights Dr	Colwood	300	74	
Blue Sky Pl	Colwood	200	194	
		<b>Budget</b>		<b>\$1,880,000</b>
		<b>Actual Cost</b>		<b>\$1,897,870</b>

- \* Mocha Close included a short section of water main to a hydrant and the cost was included in Hansen Ave.
- \*\* Due the difficulty with access to the Hi-Mount water main, improvements were made to Saddleback Rd, which delivers water to Hi-Mount and the achieved the improvement to available fire flow on Hi-Mount.
- \*\*\* Fulton Rd 488m of the 1,122m was completed in 2012, the new 300mm main extends from the Fulton Reservoir to Karger Terrace and in 2013 will be extended to Bexhill Rd.
- + Sundance Dr is arterial main and therefore was upgraded to 200mm.
- ++ Woodlands Rd construction is complete and is waiting for the re-opening of asphalt plants to complete paving.
- +++Elan Pl was delayed to 2013 due to budget limitation.