



# TOWNSHIP OF GEORGIAN BLUFFS

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**Date:** March 16, 2015  
**Report To:** Environment Committee  
**From:** Peter Paquette, Director of Operations  
**Subject:** Old Beach Drive Water main  
**Report #:** Op.15.23

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## Strategic Plan:

### 2.1 Water and Waste Water Systems

Operate water and waste water systems to maintain a high standard of public health and safety, protect the environment and ensure long term financial sustainability.

## Summary:

At the February 9<sup>th</sup>, 2015 Environment Committee meeting the following direction was given to Operations:

### Prepare a report on:

- **how far the water line could extend** (based on the results of the survey)
- **costs to upgrade the 3" line to a 6" line** (existing water main)
- **extension of the 3" line with upgrades later**

## Comments:

On May 31<sup>st</sup>, 2013, Chris Thompson, former Operations Manager prepared a report for the Environmental Committee in regard to extending the East Linton Water Distribution System, ER008-2013 is attached. In May and November of 2013 Mr. Beattie, of 318601 Grey Road 1 and Mrs. Cindy Harris, of 109 Old Beach Drive (herein OBD), called Operations to discuss the possibility of extending municipal services south along County Road 1; and to a point just south of the Municipal boat launch on Old Beach Drive. Since then, several other residents have indicated interest in municipal water including a deputation from Verna Simpson and Debbie Aitken, requesting an extension to the water main. Direction from Murray Hackett, CAO was requested, and Holly Morrison was consulted on the process for staff to collect information on the issue. Murray Hackett determined that a survey of the residents on OBD should be undertaken to determine if there was sufficient interest in looping with the water main on Balmy Beach Road or a partial extension to service the southern section.

The survey was sent to residents in September of 2014. The results of the survey are attached in Table 2 and a colour coded plan of the area showing each response is attached for a visual reference. The results indicate there are 9 residents or 60% interest within the fifteen southernmost properties along OBD and Grey Road 1. The remaining northerly section of 34 properties indicated interest at 54%. Five percent of the survey did not respond. If the 2 (two) non responders were assumed to be "Yes" the result is 59%.

### Survey summary:

- 49 properties were identified within the survey boundary.
- 23 responded with a YES.

- 22 responded NO.
- 3 did not respond at all.
- 1 was YES/NO (requested more financial info).

Based on the results of the survey, estimates to install various sections of water main were prepared and are presented in Table 1 below.

Director of Operations, Peter Paquette notes that preliminary analysis of reserve capacity in the system indicates there is sufficient supply of water for peak day use. Fire supply combined with peak day demand would require modeling by an engineer to determine if fire flows would meet the Ministry of the Environment’s (MOE) minimum specification for supply.

### Financial Considerations:

Construction estimates Class ‘D’ Grey Road 1 and Old Beach Drive.

**TABLE 1**

**Old Beach Road Water Main extension ESTIMATE**

Section Description	FROM	TO	Length metres	Replace water main metres	Diameter Size mm	Number of Services	Estimated Engineering & Contingency Costs	Estimated Cost per metre	Cost to Homeowner per service (per 30m)	Construction Estimate
Grey County Rd 1 Extend new trunk water main	Intersection of Balmy Beach Rd	South to end of existing 100mm water main East Side	160	150	200-300	0	15%	\$325./m		\$ 52,000
Trunk Funded from General Capital										
Grey County Rd 1	End of existing 100mm water main East side	Intersection of Old beach Dr.	200	0	150	5	30%	\$300./m	\$ 12,000 (per 30m \$9,000)	\$ 60,000
Old Beach Dr.	Grey county Rd 1	To 380 meters north	380	0	150	10	15%	\$250./m	\$ 9,500 (per 30m \$7,500)	\$ 95,000
Old Beach Dr.	380 m north of County Road 1	To intersection with existing water main	820	0	150	34	12%	\$250./m	\$ 6,000 (per 30m \$7,500)	\$ 205,000
New water main only No replacement water main or temporary	End of existing 100mm water main on County Road 1	Connection with Balmy Beach road water main on Old Beach Drive	1400	0	150	49	10%	\$200./m	\$ 5,800 (per 30m \$6,000)	\$ 280,000
Construct all at once										
New water main from Balmy Beach Road to Balmy Beach Road			1560	150	Varies	49	10%	\$225./m	\$ 7,200 (per 30m \$6,750)	\$ 351,000

Preliminary cost estimates indicate it would be less expensive for individual property owners if the entire loop were installed and charged on a per lot basis.

Option #1 – Sufficient Supply

If there is sufficient supply for 15 additional services in the “southern zone”, the cost to connect to the existing 100mm diameter water main, install 200m of new 150mm diameter water main along Country Road 1 and northerly 380m on OBD, would cost \$155,000 or \$10,333.00 per service to construct.

Option #2 – Close Loop

Install new trunk main on Country Road #1 and distribution main on OBD. Total Length 1560m, supply 49 new services, cost per service \$7,200.00.

Based on average lot frontage of 30m it is still more cost effective to construct the loop system.

**Recommendation:**

That the Environment Committee receives this report for information from the Director of Operations, Peter Paquette and further that committee provide direction for staff on how to proceed.

Respectfully submitted,  
Peter Paquette,  
Director of Operations

Reviewed by: \_\_\_\_\_

Supported by: \_\_\_\_\_  
Holly Morrison, Acting CAO