



District of Squamish  
Box 310, 39909 Government Road  
Squamish, B.C. V8B 0A3  
Phone: 604.815.6868  
Fax: 604.898.5299

REPORT TO: Vancouver Coastal Health

PRESENTED: Bob Smith, Director of Operations  
Jim McKerr, Utilities Supervisor

SUBJECT: Annual Drinking Water Quality Report for 2012  
Facility: District of Squamish Waterworks  
Purveyor: District of Squamish

---

1. **Introduction:**

To comply with the Drinking Water Protection Act and Regulations, as well as to comply with the conditions on our Permit to operate as issued by Vancouver Coastal Health, the District of Squamish will be annually issuing a report describing the quality of our drinking water. The purpose of this report is to raise the understanding of drinking water and awareness of the need to protect our drinking water sources.

2. **Where Does Our Water Come From:**

Our water system serves the population of the District of Squamish (19,252 est.) with an average daily demand of 4,107,171 Liters per day (winter) and 7,813,089 Liters (summer). Our water sources are Powerhouse springs (well), Mashiter Creek (surface supply) and Stawamus River (surface supply).

There are approximately 120 kms of waterlines and 7,507 connections.

- Primary water source is Power House Springs – 7 wells with a consumption in 2012 of 3.394,620 m<sup>3</sup>/year (99.9% of total usage)
- Backup is the Stawamus surface source consumption in 2012 was 130 m<sup>3</sup>/year (.10% of total use) and Mashiter source consumption was not in sue in 2012

3. **Testing:**

We test the drinking water for numerous contaminants. Last year, we conducted weekly testing at 9 locations. These include weekly Ecoli and total coliforms, a full-enhanced potable once a year and we have begun a new program where Trihalomethanes (THM) are sampled once a year and full metals testing done twice a year.

It should be noted that all drinking water, including bottled drinking water, might be reasonably expected to contain at least small amounts of some contaminants. The low-level presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Vancouver Coastal Health at 604 815 6841.

4. **Boil Water Advisories:**

If the District gets turbidity readings above one NTU, we may issue a Boil Water Advisory. Readings over 5 NTU will typically result in the District issuing a Boil Water Order in consultation with the Drinking Water Officer.

There were no boil water advisories or boil water orders in 2012.

5. **Challenges:**

District of Squamish has over 80% asbestos concrete water main lines. These lines do not create a health hazard but they are reaching the end of their designed life span and therefore breakage will occur. In 2012 we had five (5) water main breaks.

During the summer months the residents and business owners in Squamish use a tremendous amount of water. This not only puts a strain on the distribution system but also taxes the Powerhouse well water supply. When this happens the two surface supplies may open to supplement the supply. Although Squamish has excellent surface sources of water, neither of these sources is filtered, consequently, the quality of water can be affected by rain events or upstream activity. The District would prefer to not ever use the surface supplies and by saving water we could achieve that goal.

6. **Programs:**

- a) **UDF** – Uni-directional flushing is a method of flushing the water distribution system that increases pipe velocities to scour the lines. This ensures the distribution system is robust and improves water quality.
- b) **Leak Detection** – The District has a leak detection program. With leak detection equipment and trained crews they conduct a water use survey that identifies areas in town that had leaks. District crews now focus on those areas to find and repair leaks. This will improve our distribution system as well as conserve water.
- c) **Cross Connection Control (CCC)** –Cross connections can allow contaminants to enter the distribution system via negative pressure or siphoning. This program is ongoing.
- d) **Automated Monitoring** - At strategic locations, the District installed electronic chlorine residual analyzers that will send out an alarm if residual chlorine levels should fall below our required level.
- e) **Fire Hydrant Ratings** –\_Started in 2012 we now rate the fire hydrants with the NFPA flow rate standards.
- f) **Water metering** – This program began in 2012 and will continue with the installation of ICI meters.
- g) **Fill Stations** – The District began construction of fill stations in order to make water more conveniently available to customers with water-hauling trucks.
- h) **Water Conservation Bylaw** – a water conservation bylaw was drafted in 2012 – to be adopted by Council in 2013

7. **Why Save Water and How to Avoid Wasting It:**

Although our system has an adequate amount of water to meet present with normal consumption, there are a number of reasons why it is important to conserve water:

- Saving water saves energy
- Saving water reduces the need to construct costly new wells, pumping systems and water reservoirs
- Saving water can allow for growth without expensive infrastructure improvements
- Saving water lessens the strain on the water system during dry weather, helping to avoid severe water use restrictions so that essential fire fighting needs are met

The public can play a role in conserving water by becoming conscious of the amount of water each household is using, and by looking for ways to use less whenever they can. It is not hard to conserve water. Conservation tips include:

- Automatic dishwashers use 15 gallons for every cycle, regardless of how many dishes are loaded. Set a run for your money and load it to capacity.
- Turn off the tap when brushing teeth
- Check every faucet in the home for leaks. Just a slow drip can waste 15-20 gallons a day. Fix it and save almost 6,000 gallons per year.
- Toilets can be checked for leaks by putting a few drops of food coloring in the tank and watch for a few minutes to see if the color shows up in the bowl. It is not uncommon to lose up to 100 gallons a day from one of these invisible toilet leaks. Fixing it will save more than 30,000 gallons a year.
- Lawn watering and irrigation is needed only once a week for healthy lawns

8. **Closing:**

In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit the public. The costs of these improvements may be reflected in the rate structure. The budget for delivery and cost to maintain the distribution system for one year is 3.3 million. Rate adjustments may be necessary in order to address these improvements. We ask that the public help us protect our water sources, which are the heart of the community.

If you have any questions about this report or concerning your drinking water, please contact Mr. Bob Smith, Director of Operations, 604 815 6871.

## Water Main Breaks 2012

| Location        | Date       |
|-----------------|------------|
| Victoria Street | January 19 |
| Wenda Place     | April 16   |
| Kalodon         | June 19    |
| Tantalus        | July 10    |
| Greenwood Way   | August 23  |

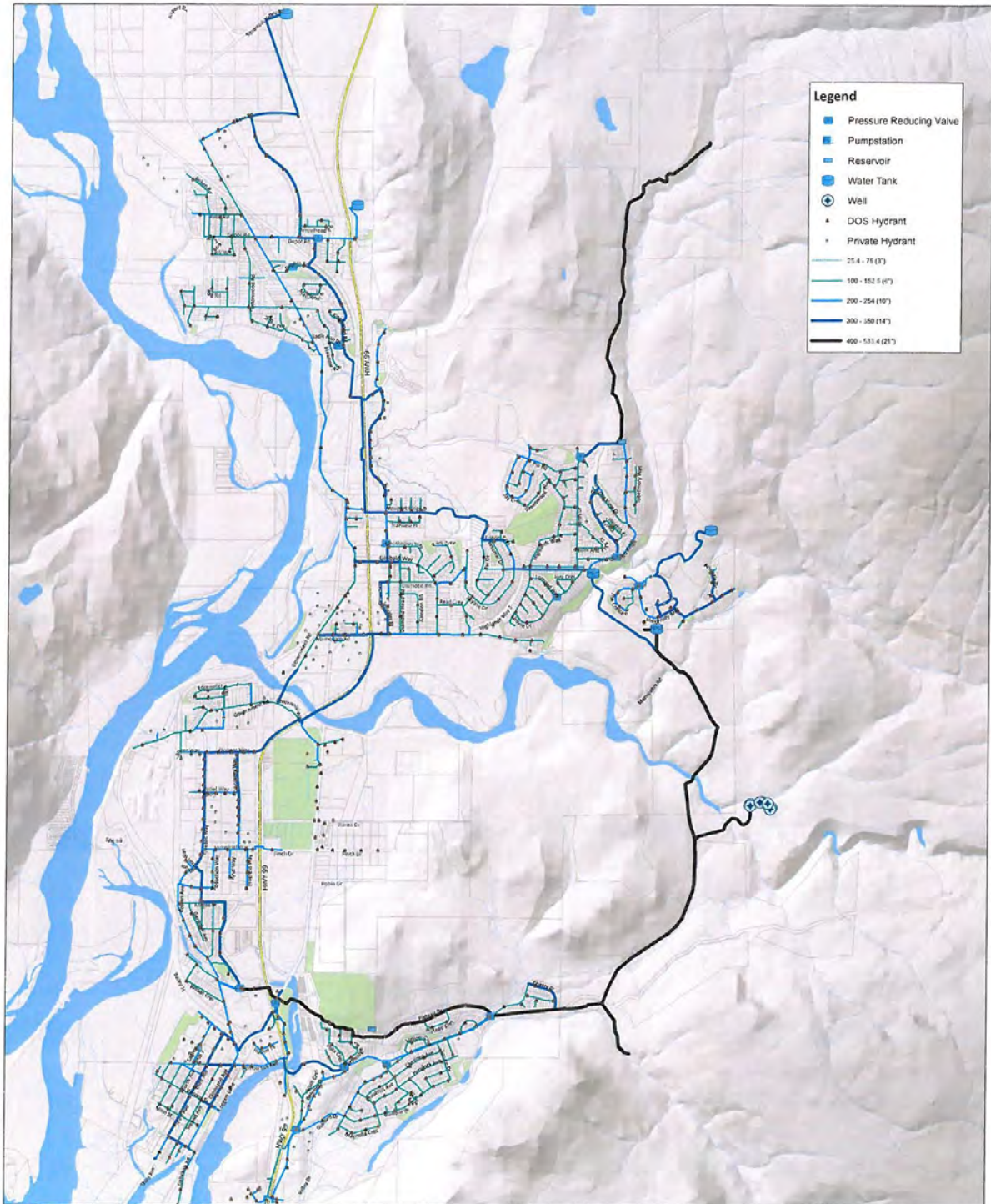
Location of water lines – District of Squamish –

<http://squamish.ca/discover-squamish/maps-and-data/gis-map-viewer/>

Health Canada Guidelines for Canadian Drinking Water Quality –

<http://hc-sc.gc.ca/ewh-semt/water-eau/drink-potab/guide/index-eng.php>

# District of Squamish Water Network



DRINKING WATER PACKAGE (DRINKING WATER)

|                             | UNITS     | MASHITER | STAWAMUS | POWERHOUSE SPRINGS | RDL    |         |
|-----------------------------|-----------|----------|----------|--------------------|--------|---------|
| Nitrite (N)                 | mq/L      | <0.0050  | <0.0050  | <0.0050            | 0.0050 | 6493995 |
| Calculated Parameters       |           |          |          |                    |        |         |
| Total Hardness (CaCO3)      | mq/L      | 19.9     | 13.0     | 24.0               | 0.50   | 6487965 |
| Nitrate (N)                 | moil      | 0.049    | 0.083    | 0.060              | 0.020  | 6488020 |
| Misc. Inorganics            |           |          |          |                    |        |         |
| Fluoride (F)                | mo/L      | 0.028    | 0.037    | 0.098              | 0.010  | 6493985 |
| Alkalinity (Total as CaCO3) | mg/L      | 21.4     | 6.02     | 17.4               | 0.50   | 6492797 |
| Alkalinity (PP as CaCO3)    | mg/L      | <0.50    | <0.50    | <0.50              | 0.50   | 6492797 |
| Bicarbonate (HCO3)          | mg/L      | 26.1     | 7.34     | 21.2               | 0.50   | 6492797 |
| Carbonate (CO3)             | mq/L      | <0.50    | <0.50    | <0.50              | 0.50   | 6492797 |
| Hydroxide (OH)              | mq/L      | <0.50    | <0.50    | <0.50              | 0.50   | 6492797 |
| Anions                      |           |          |          |                    |        |         |
| Dissolved Sulphate (SO4)    | moil      | <0.50    | 7.98     | 9.30               | 0.50   | 6494067 |
| Dissolved Chloride (Cl)     | mg/L      | 0.90     | 0.78     | 5.1                | 0.50   | 6494062 |
| MISCELLANEOUS               |           |          |          |                    |        |         |
| True Colour                 | Col. Unit | 30.0     | 5.0      | <5.0               | 5.0    | 6492054 |
| Nutrients                   |           |          |          |                    |        |         |
| Nitrate plus Nitrite (N)    | mq/L      | 0.049    | 0.083    | 0.060              | 0.020  | 6493994 |
| Physical Properties         |           |          |          |                    |        |         |
| Conductivity                | uS/cm     | 46.0     | 36.6     | 79.9               | 1.0    | 6492801 |
| pH                          | pH Units  | 7.40     | 6.85     | 7.19               |        | 6492802 |
| Physical Properties         |           |          |          |                    |        |         |
| Total Dissolved Solids      | mg/L      | 52       | 22       | 70                 | 10     | 6492811 |
| Turbidity                   | NTU       | 1.24     | 0.25     | <0.10              | 0.10   | 6491421 |

**TRIHALOMETHANES (THM) IN WATER**

| Maxxam ID                     |       | FJ5526     | FJ5527     | FJ5528          | FJ5529               |     |           |
|-------------------------------|-------|------------|------------|-----------------|----------------------|-----|-----------|
| Samolino Date                 |       | 2013/01/15 | 2013/01/15 | 2013/01/15      | 2013/01/15           |     |           |
|                               | UNITS | LOMOND     | MUNI HALL  | #41550 GRANT RD | #40044<br>PLATEAU DR | RDL | QC Batch  |
| <b>Volatiles</b>              |       |            |            |                 |                      |     |           |
| Chloroform                    | ug/L  | <1.0       | <1.0       | <1.0            | <1.0                 | 1.0 | 6493314   |
| Chlorodibromomethane          | ug/L  | <1.0       | <1.0       | <1.0            | <1.0                 | 1.0 | 6493314   |
| Bromodichloromethane          | ug/L  | <1.0       | <1.0       | <1.0            | <1.0                 | 1.0 | 6493314   |
| Bromoform                     | ugfl  | <1.0       | <1.0       | <1.0            | <1.0                 | 1.0 | 6493314   |
| <b>Surrogate Recovery (%)</b> |       |            |            |                 |                      |     |           |
| 1,4-Difluorobenzene (sur.)    | %     | 100        | 99         | 99              | 100                  |     | 6493314   |
| 4-BROMOFLUOROBENZENE (sur.)   | %     | 87         | 83         | 82              | 82                   |     | 6493314   |
| D4-1,2-DICHLOROETHANE (sur.)  | %     | 104        | 104        | 101             | 102                  | —   | 6.1 3311. |

## Sample Range Report

Vancouver Coastal Health

**Facility Name:** District Of Squamish Waterworks  
**Date Range:** Jan 1 2012 to Dec 31 2012

**Operator** Mark Caulton  
Box 310  
Squamish, BC V8B 0A3

| <u>Sampling Site</u> | <u>Date Collected</u> | <u>Total Coliform</u> | <u>E. Coli</u> | <u>Fecal Coliform</u> |
|----------------------|-----------------------|-----------------------|----------------|-----------------------|
| <u>Alice Lake</u>    | 04/01/2012            | L1                    | L1             |                       |
| <u>Reservoir,</u>    | 05/01/2012            | L1                    | L1             |                       |
| <u>Brackendale</u>   | 09/01/2012            | L1                    | L1             |                       |
|                      | 16/01/2012            | L1                    | L1             |                       |
|                      | 23/01/2012            | L1                    | L1             |                       |
|                      | 30/01/2012            | L1                    | L1             |                       |
|                      | 06/02/2012            | L1                    | L1             |                       |
|                      | 13/02/2012            | L1                    | L1             |                       |
|                      | 20/02/2012            | L1                    | L1             |                       |
|                      | 27/02/2012            | L1                    | L1             |                       |
|                      | 05/03/2012            | L1                    | L1             |                       |
|                      | 12/03/2012            | L1                    | L1             |                       |
|                      | 19/03/2012            | L1                    | L1             |                       |
|                      | 26/03/2012            | L1                    | L1             |                       |
|                      | 04/04/2012            | L1                    | L1             |                       |
|                      | 10/04/2012            | L1                    | L1             |                       |
|                      | 18/04/2012            | L1                    | L1             |                       |
|                      | 07/05/2012            | L1                    | L1             |                       |
|                      | 14/05/2012            | L1                    | L1             |                       |
|                      | 22/05/2012            | L1                    | L1             |                       |
|                      | 28/05/2012            | L1                    | L1             |                       |
|                      | 04/06/2012            | L1                    | L1             |                       |
|                      | 11/06/2012            | L1                    | L1             |                       |
|                      | 18/06/2012            | L1                    | L1             |                       |
|                      | 25/06/2012            | L1                    | L1             |                       |
|                      | 03/07/2012            | L1                    | L1             |                       |
|                      | 09/07/2012            | L1                    | L1             |                       |
|                      | 16/07/2012            | L1                    | L1             |                       |
|                      | 23/07/2012            | L1                    | L1             |                       |
|                      | 30/07/2012            | L1                    | L1             |                       |
|                      | 07/08/2012            | L1                    | L1             |                       |
|                      | 13/08/2012            | L1                    | L1             |                       |
|                      | 20/08/2012            | L1                    | L1             |                       |
|                      | 27/08/2012            | L1                    | L1             |                       |
|                      | 04/09/2012            | L1                    | L1             |                       |
|                      | 10/09/2012            | L1                    | L1             |                       |
|                      | 17/09/2012            | L1                    | L1             |                       |
|                      | 24/09/2012            | L1                    | L1             |                       |



|                 |           |           |   |
|-----------------|-----------|-----------|---|
| 01/10/2012      | L1        | L1        |   |
| 09/10/2012      | L1        | L1        |   |
| 16/10/2012      | L1        | L1        |   |
| 22/10/2012      | 1         | L1        |   |
| 29/10/2012      | L1        | L1        |   |
| 06/11/2012      | L1        | L1        |   |
| 19/11/2012      | L1        | L1        |   |
| 27/11/2012      | L1        | L1        |   |
| 03/12/2012      | L1        | L1        |   |
| 10/12/2012      | A         |           |   |
| 17/12/2012      | <u>L1</u> | <u>L1</u> |   |
| Total Positive: | 1         | 0         | 0 |

Health Unit Office -  
audit, Downtown  
Squamish - Audit  
Site

|                 |           |           |   |
|-----------------|-----------|-----------|---|
| 03/01/2012      | L1        | L1        |   |
| 09/01/2012      | L1        | L1        |   |
| 16/01/2012      | L1        | L1        |   |
| 23/01/2012      | L1        | L1        |   |
| 30/01/2012      | L1        | L1        |   |
| 06/02/2012      | L1        | L1        |   |
| 15/02/2012      | L1        | L1        |   |
| 20/02/2012      | L1        | L1        |   |
| 27/02/2012      | L1        | L1        |   |
| 20/03/2012      | L1        | L1        |   |
| 26/03/2012      | L1        | L1        |   |
| 02/04/2012      | L1        | L1        |   |
| 11/04/2012      | L1        | L1        |   |
| 16/04/2012      | L1        | L1        |   |
| 30/04/2012      | L1        | L1        |   |
| 07/05/2012      | L1        | L1        |   |
| 28/05/2012      | L1        | L1        |   |
| 04/06/2012      | L1        | L1        |   |
| 11/06/2012      | L1        | L1        |   |
| 18/06/2012      | L1        | L1        |   |
| 25/06/2012      | L1        | L1        |   |
| 09/07/2012      | L1        | L1        |   |
| 24/07/2012      | L1        | L1        |   |
| 07/08/2012      | L1        | L1        |   |
| 13/08/2012      | L1        | L1        |   |
| 24/09/2012      | L1        | L1        |   |
| 15/10/2012      | L1        | L1        |   |
| 22/10/2012      | L1        | L1        |   |
| 05/11/2012      | L1        | L1        |   |
| 19/11/2012      | L1        | L1        |   |
| 26/11/2012      | L1        | L1        |   |
| 10/12/2012      | A         |           |   |
| 17/12/2012      | <u>L1</u> | <u>L1</u> |   |
| Total Positive: | 0         | 0         | 0 |

38296 Westway  
Avenue - audit.

Valleycliffe Audit Site

|                 |           |           |   |
|-----------------|-----------|-----------|---|
| 03/01/2012      | L1        | L1        |   |
| 09/01/2012      | L1        | L1        |   |
| 16/01/2012      | L1        | L1        |   |
| 23/01/2012      | L1        | L1        |   |
| 30/01/2012      | L1        | L1        |   |
| 06/02/2012      | L1        | L1        |   |
| 15/02/2012      | L1        | L1        |   |
| 20/02/2012      | L1        | L1        |   |
| 27/02/2012      | L1        | L1        |   |
| 20/03/2012      | L1        | L1        |   |
| 02/04/2012      | L1        | L1        |   |
| 11/04/2012      | L1        | L1        |   |
| 16/04/2012      | L1        | L1        |   |
| 30/04/2012      | L1        | L1        |   |
| 07/05/2012      | L1        | L1        |   |
| 14/05/2012      | L1        | L1        |   |
| 28/05/2012      | L1        | L1        |   |
| 04/06/2012      | L1        | L1        |   |
| 11/06/2012      | L1        | L1        |   |
| 18/06/2012      | L1        | L1        |   |
| 25/06/2012      | L1        | L1        |   |
| 09/07/2012      | L1        | L1        |   |
| 24/07/2012      | L1        | L1        |   |
| 07/08/2012      | L1        | L1        |   |
| 13/08/2012      | L1        | L1        |   |
| 24/09/2012      | L1        | L1        |   |
| 15/10/2012      | L1        | L1        |   |
| 22/10/2012      | L1        | L1        |   |
| 05/11/2012      | L1        | L1        |   |
| 19/11/2012      | L1        | L1        |   |
| 26/11/2012      | L1        | L1        |   |
| 10/12/2012      | A         |           |   |
| 17/12/2012      | <u>L1</u> | <u>L1</u> |   |
| Total Positive: | 0         | 0         | 0 |

Lamond Sample  
Station, Garibaldi  
Highlands

|            |    |    |
|------------|----|----|
| 04/01/2012 | L1 | L1 |
| 05/01/2012 | L1 | L1 |
| 09/01/2012 | L1 | L1 |
| 16/01/2012 | L1 | L1 |
| 23/01/2012 | L1 | L1 |
| 30/01/2012 | L1 | L1 |
| 06/02/2012 | L1 | L1 |
| 13/02/2012 | L1 | L1 |
| 20/02/2012 | L1 | L1 |
| 27/02/2012 | L1 | L1 |
| 05/03/2012 | L1 | L1 |
| 12/03/2012 | L1 | L1 |
| 19/03/2012 | L1 | L1 |
| 26/03/2012 | L1 | L1 |
| 04/04/2012 | L1 | L1 |
| 10/04/2012 | L1 | L1 |

|                        |          |          |
|------------------------|----------|----------|
| 18/04/2012             | L1       | L1       |
| 07/05/2012             | L1       | L1       |
| 14/05/2012             | L1       | L1       |
| 22/05/2012             | L1       | L1       |
| 28/05/2012             | L1       | L1       |
| 04/06/2012             | L1       | L1       |
| 11/06/2012             | L1       | L1       |
| 18/06/2012             | L1       | L1       |
| 25/06/2012             | L1       | L1       |
| 03/07/2012             | L1       | L1       |
| 09/07/2012             | L1       | L1       |
| 16/07/2012             | L1       | L1       |
| 23/07/2012             | L1       | L1       |
| 25/07/2012             | L1       | L1       |
| 30/07/2012             | L1       | L1       |
| 07/08/2012             | L1       | L1       |
| 13/08/2012             | L1       | L1       |
| 20/08/2012             | L1       | L1       |
| 27/08/2012             | L1       | L1       |
| 04/09/2012             | L1       | L1       |
| 10/09/2012             | L1       | L1       |
| 17/09/2012             | L1       | L1       |
| 24/09/2012             | L1       | L1       |
| 01/10/2012             | L1       | L1       |
| 09/10/2012             | L1       | L1       |
| 16/10/2012             | L1       | L1       |
| 29/10/2012             | L1       | L1       |
| 06/11/2012             | L1       | L1       |
| 13/11/2012             | L1       | L1       |
| 19/11/2012             | L1       | L1       |
| 27/11/2012             | L1       | L1       |
| 03/12/2012             | L1       | L1       |
| 17/12/2012             | L1       | L1       |
| <b>Total Positive:</b> | <b>0</b> | <b>0</b> |

0

Perth Sample  
Station, Garibaldi  
Highlands

|            |    |    |
|------------|----|----|
| 04/01/2012 | L1 | L1 |
| 05/01/2012 | L1 | L1 |
| 09/01/2012 | L1 | L1 |
| 16/01/2012 | L1 | L1 |
| 23/01/2012 | L1 | L1 |
| 30/01/2012 | L1 | L1 |
| 06/02/2012 | L1 | L1 |
| 13/02/2012 | L1 | L1 |
| 20/02/2012 | L1 | L1 |
| 27/02/2012 | L1 | L1 |
| 05/03/2012 | L1 | L1 |
| 12/03/2012 | L1 | L1 |
| 19/03/2012 | L1 | L1 |
| 26/03/2012 | L1 | L1 |
| 04/04/2012 | L1 | L1 |
| 10/04/2012 | L1 | L1 |
| 18/04/2012 | L1 | L1 |

|                        |           |           |
|------------------------|-----------|-----------|
| 07/05/2012             | L1        | L1        |
| 14/05/2012             | L1        | L1        |
| 22/05/2012             | L1        | L1        |
| 28/05/2012             | L1        | L1        |
| 04/06/2012             | L1        | L1        |
| 11/06/2012             | L1        | L1        |
| 18/06/2012             | L1        | L1        |
| 25/06/2012             | L1        | L1        |
| 03/07/2012             | L1        | L1        |
| 09/07/2012             | L1        | L1        |
| 16/07/2012             | L1        | L1        |
| 23/07/2012             | 6         | 4         |
| 25/07/2012             | L1        | L1        |
| 25/07/2012             | L1        | L1        |
| 30/07/2012             | L1        | L1        |
| 07/08/2012             | L1        | L1        |
| 13/08/2012             | L1        | L1        |
| 20/08/2012             | L1        | L1        |
| 27/08/2012             | L1        | L1        |
| 04/09/2012             | L1        | L1        |
| 10/09/2012             | L1        | L1        |
| 17/09/2012             | L1        | L1        |
| 24/09/2012             | L1        | L1        |
| 01/10/2012             | L1        | L1        |
| 09/10/2012             | L1        | L1        |
| 16/10/2012             | L1        | L1        |
| 22/10/2012             | L1        | L1        |
| 29/10/2012             | L1        | L1        |
| 06/11/2012             | L1        | L1        |
| 13/11/2012             | L1        | L1        |
| 19/11/2012             | L1        | L1        |
| 27/11/2012             | L1        | L1        |
| 03/12/2012             | L1        | L1        |
| 10/12/2012             | A         |           |
| 17/12/2012             | <u>L1</u> | <u>L1</u> |
| <b>Total Positive:</b> | <b>1</b>  | <b>1</b>  |

0

Quest University,  
University Lands

|            |    |    |
|------------|----|----|
| 04/01/2012 | L1 | L1 |
| 05/01/2012 | L1 | L1 |
| 09/01/2012 | L1 | L1 |
| 16/01/2012 | L1 | L1 |
| 23/01/2012 | L1 | L1 |
| 30/01/2012 | L1 | L1 |
| 06/02/2012 | L1 | L1 |
| 13/02/2012 | L1 | L1 |
| 20/02/2012 | L1 | L1 |
| 27/02/2012 | L1 | L1 |
| 05/03/2012 | L1 | L1 |
| 12/03/2012 | L1 | L1 |
| 19/03/2012 | L1 | L1 |
| 26/03/2012 | L1 | L1 |
| 04/04/2012 | L1 | L1 |
| 10/04/2012 | L1 | L1 |

|                        |          |          |          |
|------------------------|----------|----------|----------|
| 18/04/2012             | L1       | L1       |          |
| 07/05/2012             | L1       | L1       |          |
| 14/05/2012             | L1       | L1       |          |
| 22/05/2012             | L1       | L1       |          |
| 28/05/2012             | L1       | L1       |          |
| 04/06/2012             | L1       | L1       |          |
| 11/06/2012             | L1       | L1       |          |
| 18/06/2012             | L1       | L1       |          |
| 25/06/2012             | L1       | L1       |          |
| 03/07/2012             | L1       | L1       |          |
| 09/07/2012             | L1       | L1       |          |
| 16/07/2012             | L1       | L1       |          |
| 23/07/2012             | L1       | L1       |          |
| 30/07/2012             | L1       | L1       |          |
| 07/08/2012             | L1       | L1       |          |
| 20/08/2012             | L1       | L1       |          |
| 27/08/2012             | L1       | L1       |          |
| 04/09/2012             | L1       | L1       |          |
| 10/09/2012             | L1       | L1       |          |
| 17/09/2012             | L1       | L1       |          |
| 24/09/2012             | L1       | L1       |          |
| 01/10/2012             | L1       | L1       |          |
| 09/10/2012             | L1       | L1       |          |
| 16/10/2012             | L1       | L1       |          |
| 22/10/2012             | L1       | L1       |          |
| 29/10/2012             | L1       | L1       |          |
| 06/11/2012             | 3        | L1       |          |
| 13/11/2012             | L1       | L1       |          |
| 19/11/2012             | L1       | L1       |          |
| 27/11/2012             | L1       | L1       |          |
| 03/12/2012             | L1       | L1       |          |
| 10/12/2012             | A        |          |          |
| 17/12/2012             | L1       | L1       |          |
| <b>Total Positive:</b> | <u>1</u> | <u>0</u> | <u>0</u> |

**Result Values:**                      E - estimated                      L - less than                      G - greater than

|  |      |  |                |
|--|------|--|----------------|
| Samples that contain total coliform:                           | 3    |  | 1.13% of total |
| Samples that contain e. coli:                                  | 1    |  | 0.38% of total |
| Samples that contain fecal coliform:                           | 0    |  | 0.00% of total |
| Number of consecutive samples that contain total coliform:     | 0    |  |                |
| Number of samples that contain total coliform in last 30 days: | 0/15 |  |                |
| Total number of samples:                                       | 265  |  |                |

**Comments:**

---



---



---

Feb 26 2013

FOR FURTHER INFORMATION PLEASE CALL: Len Clarkson (604) 892-2293

