



# Apex Annual Water Report 2016



## DRINKING WATER SYSTEM ANNUAL REPORT

Reporting Period:	January 1, 2016– December 31, 2016
Water System Name: (Facility Name)	Apex Mountain Resort Water System
Water Supplier Name: (as per permit)	Apex Mountain Resort Water System
Water System Owner:	Apex Mountain Resort
Email Address:	<a href="mailto:shawn@apexresort.com">shawn@apexresort.com</a>
Phone Number:	250 292-8222

### **Bacteriological Testing Completed During This Reporting Period:**

Bacteriological Results attached to this report –Yes

### **Immediate Reporting Standard Failure (E. coli positive test result)**

Immediate Reporting Standard Failure (IRSF) recorded – **No positive E. coli test in 2016.**

### **Chemical Testing Completed During This Reporting Period:**

Most recent chemical analysis attached to this report – No

### **Chemical Parameters Measured Above (exceeding) the Guidelines:**

Chemical parameters tested exceed the Maximum Acceptable Concentrations (MAC) or Aesthetic Objectives – No

**ADDITIONAL TESTING - Yes**

Description of parameter & reason for sampling	Comments
February 11, 2016	Raw water Sample from filtration, unfiltered lake water
September 19, 2016	Raw water Sample from filtration, unfiltered lake water

**WATER QUALITY COMPLAINTS – NONE**

Date	Water quality complaint (i.e. taste, odour, colour, etc)	Corrective action taken

**OPERATION PROBLEMS -**

Incident Date	Problem	Actions Taken	Corrected By
March 6, 2016	Water main break	Boil water advisory	Water main repaired. 10 feet of pipe was replaced in lower system

**Water System Description**

Sources of Raw Water

Groundwater

✓ Surface water

Other (specify)

✓ Does the drinking Water System have Disinfection?  Yes  No

**Disinfection Methods**

- ✓ Chlorination
- Ultraviolet light
- Ozonation
- Other (specify)

Does the drinking Water System have Filtration     Yes     No

**Filter Type**

- ✓ Cartridge filter (1 micron, 5 micron, 10 micron)
- ✓ Sand Filtration
- Reverse Osmosis
- Carbon Filter
- Other (specify)

**MAJOR EXPENSES INCURRED DURING THE PERIOD COVERED BY THE REPORT**

Major Expenses	Details
Water main repair	Replacement of cracked water main on the lower system
Water Valve repair	At the intersection of Whitetail Rd and Apex Mountain Rd
Installed two sampling stations	One was installed at the end of Cahill Rd. the other was installed at Clearview Rd

**ADDITIONS / CHANGES TO THE SYSTEM THAT HAVE BEEN MADE FOR THIS REPORTING PERIOD**

Additions/Changes	Details
Shawn Whitty received his Level 2 Filtration certification	

**Water Samples 2014**

Date Sampled	Location	Chlorine Free	Coliforms Total	E.Coli

January 6, 2016	Apex Maintenance Shop	.91	<1	<1
January 10, 2016	Apex Office	.61	<1	<1
January 21, 2016	Apex Filtration Plant	1.09	<1	<1
January 28, 2016	Apex Maintenance Shop	1.10	<1	<1
February 11, 2016	Raw Lake Water	none	<1	<1
February 11, 2016	Apex Filtration Plant	1.37	<1	<1
February 18, 2016	Apex Maintenance Shop	1.20	<1	<1
February 25, 2016	Apex Administration Office	.48	<1	<1
February 29, 2016	Apex Maintenance Shop	1.12	<1	<1
March 03, 2016	Apex Filtration Plant	1.03	<1	<1
March 07, 2016	Apex Maintenance Shop	1.43	<1	<1
March 07, 2016	123 Clearview Cres	1.21	<1	<1
March 07, 2016	104 Cahill Cres	.43	<1	<1
March 17, 2016	Apex Administration office	.79	<1	<1
March 24, 2016	Apex Maintenance Shop	1.14	<1	<1
March 31, 2016	Apex Maintenance Shop	.70	<1	<1
April 7, 2016	Apex Administration office	.80	<1	<1
April 14, 2016	Apex Filtration	1.05	<1	<1
April 18, 2016	Apex Maintenance Shop	.86	<1	<1
April 26, 2016	Apex Administration office	.32	<1	<1
May 7, 2016	Apex Maintenance Shop	.44	<1	<1
May 12	Apex Maintenance Shop		<1	<1
May 18, 2016	Apex Filtration Plant	1.25	<1	<1
May 26, 2016	Apex Administration office	.25	<1	<1
June 2, 2016	Apex Filtration Tank 4	1.61	<1	<1
June 9, 2016	Apex Administration Office	.21	<1	<1
June 16, 2016	Apex Maintenance Shop	.74	<1	<1
June 20, 2016	Apex Administration office	.43	<1	<1

June 28, 2016	Apex Maintenance Shop	.64	<1	<1
July 14, 2016	Apex Maintenance Shop	Sample did not arrive in time		
July 21, 2016	Apex Filtration	1.15	<1	<1
July 26, 2016	Apex Maintenance Shop	1.05	<1	<1
August 2, 2016	Apex Maintenance Shop	.64	<1	<1
August 11, 2016	Did not arrive in time			
August 17, 2016	Apex Administration office	.21	<1	<1
August 22, 2016	Apex Maintenance Shop	unavailable	<1	<1
September 1, 2016	Apex Administration Office	.21	<1	<1
September 8, 2016	Apex Maintenance Shop	.72	<1	<1
September 12, 2016	Apex Filtration	1.32	<1	<1
September 19, 2016	Apex Filtration Tank #4	3.22	<1	<1
September 19, 2016	Raw Lake Water	N/A	<1	<1
October 6, 2016	Apex Maintenance Shop	Sample did not arrive in time		
October 13, 2016	Apex Administration Office	0.03	<1	<1
October 20, 2016	Apex Maintenance Shop	.54	<1	<1
October 26, 2016	Apex Administration Office	.11	<1	<1
November 3, 2016	Apex Filtration Plant	0.99	<1	<1
November 17, 2016	Apex Maintenance Shop	1.42	<1	<1
November 24, 2016	Apex Filtration Plant	1.32	<1	<1
December 9, 2016	Apex Maintenance Shop	1.56	<1	<1
December 15, 2016	Apex Administration Office	1.11	<1	<1
December 21, 2016	Apex Maintenance Shop	1.45	<1	<1
December, 2016	Apex Administration Office	Due to Christmas holidays closure and shipping schedule shipping not possible for last week of December		

## MONTHLY WATER VOLUMES

Month	Creek Gallons	Lake Gallons
January	0	1377393
February	0	1245043
March	0	1320068
April	0	583291.9
May	0	297986.1
June	0	427430.4
July	0	479208.1
August	0	508531.2
September	0	390182.1
October	0	715113.7
November	0	435883.9
December	0	1600090

## IMPROVEMENTS/REMEDIAL ACTIONS

Improvements or remedial actions required by the Drinking Water Officer

Required action	Completion date
UV treatment	In future

## FUTURE IMPROVEMENTS

Future water system improvements planned listed below:

Future Plans	Planned Completion date
UV treatment	future
GPS mapping of all valve locations	Summer 2017
SCADA	Potential Summer 2017

## EMERGENCY RESPONSE PLAN CAN BE OBTAINED BY APEX MOUNTAIN RESORT OFFICE

Updated in March 2016

## METHOD USED TO NOTIFY USER OF ANNUAL REPORT

This is available at Apex Resort Mountain Main Office and the website