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# FY18 Water Fund Budget

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As Introduced

By The

Finance Director &  
Public Works Director

May 16, 2017

# Town of Bar Harbor

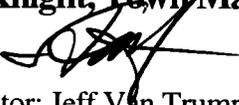
## FY 2018 Water Budget

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# Memo

**To: Town Councilors; Cornell Knight, Town Manager**  
From: Stan Harmon, Finance Director   
CC: Chip Reeves, Public Works Director; Jeff Van Trump, Superintendent  
Date: 4/26/17  
Re: Water Budget Message – FY2018 Water Budget

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## Summary

This FY2018 budget for the Bar Harbor Water Division specifically recommends the following changes from last year's 2017 budget:

- **No rate increase for the 2<sup>nd</sup> year in a row**
- **Gross capital expenditures projected at \$168,286, with no bonding**
- **A 0% budgeted increase of operating revenues**
- **A 1.5% budgeted increase of operating expenses**

You will find attached the proposed budget for FY'18. Revenues are projected to be level with the FY17 budget and .9% lower than the FY17 results. Total operating expenses over the 2017 budget are scheduled to increase by 1.1%. In maintaining a consistent FY2017 policy (no new borrowing) with the General Fund, Capital spending is requested at \$168,286; covered entirely by internally generated funds. The fiscal year just ending (FY17) projects a positive cash flow of approximately \$58,990, primarily because of a staff shortage and higher recorded revenues.

## Statistical Infrastructure & Operational Data of the Water Division

There are 1780 metered customers, of which 70%, or 1245 accounts, are classified as Residential. 25% of these total metered customers as well as 22% of the related revenue volume are seasonal customers, but all customers receive their bills quarterly. There are 87 customers related to non-metered sprinkler and private hydrant fire protection.

*Investment* in plant and infrastructure totals increased by \$8.4 million since the Town purchased the Water Company in 2001. The water *mains* in its service areas total 29.6 miles with distribution pipe sized from 1" to 12". Since 2001 the Division has invested in 7.2 miles of new mains while retiring 5.2 miles. Design capacity is approximately 2400 gallons per minute. 346 million gallons are sent through the transmission mains annually with about 11% unaccounted for; down from 30% ten years ago. Some of this unaccounted for lost water is due to the aging efficiency of measured water flowing through old meters---The Town hopes to begin measuring most of the retired meters to see if there is an amount that can be estimated for under

## **Town of Bar Harbor**

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measured/unbilled water. Jackson Lab is 7% of the total revenue for the utility, but 11% of the metered revenues. *Employees* at the Water Division numbered 6 in 2001 and stand at 5.5 in this budget. Management/Accounting administrative fees charged by the Town to the Water Division have remained relatively stable since 2001. The 2016 annual filing with the *Public Utilities Commission* provides additional detail operating data and is located on the State PUC and the Town website under the Water Division of Public Works.

#### **Current Water Rates & Average Customer Bill** (no changes from last year)

- A minimum quarterly bill currently under this budget allowing 1200 cubic feet through a 5/8" meter of \$76.17 per quarter will remain at that level. Bar Harbor's typical quarterly average household charge for 2000 cubic feet currently is \$111.53, still below the average rate of \$114.84 for 15 selected comparable communities. As a comparison, the Town's sewer customers pay quarterly fees for *wastewater* usage of \$46.80 (for a minimum-allowing 600 cuft usage) and \$156.00 (2000 cuft for a small family).
- *USDA-Rural Development*, the federal organization that provides grant and loan funds for qualifying utilities, has used a 2000 cubic feet per quarter standard to compare usage for a typical family household among all the utilities. At the current rates, 8000 cubic feet in annual water usage totals to \$446 per annum for a family of four in Bar Harbor or \$37.18 per month. Refer to page 22 for other water utility rate comparisons.

#### **Volume**

This budget assumes a 1.6% increase in volume from the FY 17 budget but a 3.9% decrease from the current FY 17 actual volume. The trend seems to be stabilizing from the previous downtrends since the 2008 recession started; with the primary volume fluctuations due to the Jackson Lab usage. Page 14 shows the trends of total water sales since 2011 in six month rolling averages. We anticipate some limited reduction in water volume from the Lab as they transition to its Ellsworth production facility. However, their long term water use projections provided to the Town show generally level usage for the next 5 years.

#### **Revenues**

The 2018 budget assumes level gross revenue with the same rate structure compared to FY2017 estimated and the FY2017 budget.

#### **Operating Expenditures**

The proposed FY2018 water budget reflects a 1.5% overall increase in operating expenses over the FY '17 budget year and a 4.6% increase over this past year's estimated final expenses. Payroll and benefits are anticipated to reflect a 1.6% increase above last year's budget. The budgeted COLA wage increase is 1.7%.

**Major line item increases of \$1500 or more in projected cash expenses anticipated in FY2018 above last year's budget are as follows:**

- Benefits Opt Out Stipend **-#5162**, \$8,500 switched from regular insurance coverage
- Benefits-Health Ins. **-#5225**, (\$7,000) reduction; switched to Opt Out above

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- ContServ-Town Mgt Services-#5306, \$3,527 for added allocated costs of General Fund
- ContServ-Eng/Survey -#5326, \$4,500 to start *Arcmap* of the distribution system
- ContServ-Wtr CO2 Tank-#5336, \$2,200 for higher CO2 tank rental costs
- ContServ-CompLicSupprt-#5368, \$1,800 add for SEMS, new Asset Mgt. System
- Rep.& Maint.-Plant & Water Treatment-#5634, \$2,000 for higher repair costs
- Meter Repairs (#5630) will likely be lower this year due to a staffing shortage and the inability to change out and test as many meters as the Water Division normally does during the year.

#### What Were the Results of Actual FY17 Operating Expenses vs the FY17 Budget?

The Water Division's FY'17 projected actual operating expense results will end just below the 2017 spending budget this year, within \$46,000+/-, or 3%.

#### Some of the major expense line items that were over budget this past year (FY17) include:

- Only two cash expenditure line items are projected to be overspent of any significance
- ContServ-Wtr CO2 Tank -#5336, \$1,900 for higher CO2 tank rental costs
- Reprs&Maint-Plnt & Wtr Treatmnt Eq -#5634, \$2,000 for higher repairs/replacements
- Depreciation-#6012, \$5,000 for new depreciation for facilities & equipment.

#### Public Fire Protection (Hydrant Revenues)

Included in the budget revenue is the PUC mandated annual public fire protection amount authorized for the utility to charge the Town for its downtown fire protection. It was stated in prior budgets that it is formula driven, calculated by our rate case consultant in accordance with PUC standards in line with the State Statutes. A copy of that calculation is included in the Town's rate case located on the website.

**Public Fire Protection History** - To provide public fire protection a utility generally must size its infrastructure 2 to 3 times larger. Variables within that formula include the estimated year round population as well as the total reported gallons pumped. However, the results do have an overall regulatory cap of 30% of total revenues that can be derived as public hydrant revenues—in Bar Harbor's situation, the last rate case determined that number to be \$585,602. This charge of \$585,602 to the Town's taxpayers is shown as an expense in the Town Budget and shown as anticipated revenue in this Water budget. These funds are used for the general operations of the Water Division, including debt service. All other revenues raised come from either specific user fees, or private fire protection (hydrants/sprinklers).

The Town in 2016 received an improved ISO (*Insurance Services Office*) rating, which over time may lower fire insurance premiums for home and business owners. The rating went from a 5/9 to a 4/4x rating which reflects the Town's continued measureable improvement in its fire department funding & operations (50% of the rating) and by its continued replacement of older mains and hydrants (40% of the rating), by measuring increasing peak flows towards a 3500 gpm target. These efforts contribute to improved fire response capability.

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#### Annual Drinking Water Quality Report

This is a required annual report by the Federal Safe Drinking Water Act that is sent to all customers of the Water Division. There were no violations in calendar 2016. Due to the continued exceptional water quality of our source, the surrounding protection of the watershed, the water system has a filtration waiver.

#### Debt Service

As of June 30, 2017, total principal in obligated debt for the water users stands at \$6,737,507, or approximately 36% of all direct debt obligations of the Town. The \$1.7 million borrowed at Town Meeting last year is still on hand and will be paid to the State Contractor for the Rte #3 project as the project progresses further along, likely before June 2017. In the FY2018 budget, the debt service is projected to be at \$724,000 or approximately 35% of the total annually revenues presently generated. All current debt is currently fully funded within the existing rate structure with interest rates ranging from 1.5% to 4%.

**Future Debt**—the 5 year CIP spending plan shows another \$1,600,000 in monies that needs to be borrowed for replacement of aging mains starting in year three. These are projects which were postponed when the entire Consolidated Capital Plan was deferred to avoid new bonding for a certain period. The total estimated new annual debt service added at 4% interest towards the end of the next 5 years would likely require a 6% rate increase.

#### Capital Outlay

The Town has invested \$8,411,629 (75% from bonds) on capital improvements since the purchase of the company in 2001. In fiscal year 2017 the Water division spent or committed \$1,976,100 for necessary capital investments. The proposed FY'18 capital budget requests \$218,286 and is funded by operating cash flow. The Water Division now raises well over \$175,000 per year available from its own cash flow for capital equipment and small project costs.

#### FY 2018 Capital Spending (CIP) Recap

<b>Mains-</b>	<b>\$72,286</b> —Replace main on Devon Road
	<b>\$30,000</b> —CIP reserve for main replacement
<b>Hydrants-</b>	<b>\$10,000</b> --Annual hydrants replacement program
<b>Services-</b>	<b>\$10,000</b> --Normal service renewals related to main replacements
<b>Engineering</b>	<b>\$35,000</b> —Update water Master Plan
<b>Equipment-</b>	<b>\$11,000</b> —Actuator Valve & Heat Trace for CO2 Feed Line
	<b><u>\$168,286</u></b> Total FY18 CIP

#### Working Capital/Cash Flow

A conservative method for measuring a healthy working capital formula for a utility that bills in advance is to use 3 months or 25% of annual cash expenses, including the annual debt service. This target calculates to

## **Town of Bar Harbor**

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a \$410,000 estimated requirement as of June 30, 2017. Since FY2010 the Division has been building up its own cash reserve. The cash balance at the end of this year is anticipated to stand at \$350,000—just short of the goal, but much healthier than in years past. The proposed budget projects adding a positive net cash flow from FY2017 operations of \$58,990 and \$95,419 in FY2018 without the need for a rate increase.

#### **Water Master Plan**

The prior Water Master Plan was completed in April of 2005. Much of those recommendations have been funded and implemented. Staff has recommended to hire engineers to update this plan in FY2018 to use as a continuing guide, a living document so to speak, to assist in long term planning, avoiding surprises in both capital and operational aspects of maintaining the efficient running of the water facility and to give general direction for budgeting priorities. This includes maintaining the *filtration waiver*, which if not renewed, would be very expensive for the ratepayers.

Some items that may be looked at within the Master Plan would perhaps be reviewing & choosing priorities for the next primary focus of attention; such as, identifying bottle necks of constricted flow in the distribution system, documenting weaknesses of the system, help design equipment replacements and upgrades to the plant and work with the Town's comprehensive plan to investigate likely expansion opportunities in designated growth areas to relieve stress on the private well water resources.

**Town Council Action** – The next step is for the Town Council to pass a motion to adopt the Water Budget and Ordinance, as proposed, (*or amended*) and schedule a public hearing on June \_\_\_\_\_, 2017.

# Water Budget Ordinance Amendment

## Town of Bar Harbor

### An Ordinance Amendment to Adopt the Fiscal Year 2018 Water Budget

The Town of Bar Harbor hereby ordains that Chapter 201, Water, of the Town Code is amended as follows:

[Please Note: Old language is ~~stricken~~. New language is underlined.]

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## Chapter 201, Water

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### ARTICLE III, Water Budget, Rates Fees and Charges

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#### § 201-11 Water budget.

[Amended 10-4-2011 by Ord. No. 2011-03; 10-16-2012 by Ord. No. 2012-05; 6-18-2013 by Ord. No. 2013-02; 8-19-2014 by Ord. No. 2014-05; 6-16-2015 by Ord. No. 2015-01; 7-19-2016 by Ord. No. 2016-03]

A. Budget ~~adopted~~introduced. The fiscal year 2017~~8~~ Water Budget, dated ~~June 16, 2016~~May 16, 2017, is hereby ~~adopted~~introduced as published and summarized below.

- (1) Cash. Net cash generated is estimated to be ~~\$37,511~~95,419.
- (2) Revenues.
  - (a) PUC regulated revenues are estimated to be ~~\$2,073,402~~2,069,802.
  - (b) Total water revenues are estimated to be ~~\$2,084,202~~2,083,302.
- (3) Expenses. The following appropriations are hereby approved:
  - (a) Nonoperating expenses: \$4,600.
  - (b) Salaries and wages: ~~\$297,674~~300,385.
  - (c) Payroll benefits: ~~\$143,900~~148,200.
  - (d) Contractual services: ~~\$256,667~~270,258.
  - (e) Materials and supplies: ~~\$111,500~~114,500.
  - (f) Utilities and commodities: ~~\$59,400~~60,000.
  - (g) Repairs and maintenance: ~~\$145,300~~147,600.
  - (h) Equipment purchases: ~~\$7,150~~3,700.
  - (i) Other: insurance, travel, advertising and miscellaneous: ~~\$42,984~~45,384.
  - (j) Interest: ~~\$167,021~~156,322.
  - (k) Depreciation and amortization: ~~\$301,883~~306,883.
  - (l) Capital spending: ~~\$248,300~~168,286.

[end of ordinance]

Town of Bar Harbor  
FY2018  
Water Budget

APY	BTY	ETY	RNY	RNY	RNY	RNY
Actual Last Yr. 6/30/2016 FY16 Actual	Budget This Yr 6/30/2017 FY17 Budget	Estimate This Yr 6/30/2017 FY17 Estimate	Request Next Yr 6/30/2018 FY18 Budget	\$ Change vs. Bgt.'17	% Change vs. Bgt.'17	% Change vs. Est.'17

**Net Income Statement -**

**SUMMARY PAGE**

Volume: ('000's cubic feet)	32,268	32,000	33,829	32,500	1.6%	-3.9%	
<b>Operating Revenues</b>	<b>\$ 1,950,984</b>	<b>\$ 2,073,402</b>	<b>\$ 2,087,802</b>	<b>\$ 2,069,802</b>	<b>\$ (3,600)</b>	<b>-0.2%</b>	<b>-0.9%</b>
<b>Operating Expenses:</b>							
Payroll & Benefits	\$ 443,474	\$ 441,575	\$ 425,517	\$ 448,585	\$ 7,010	1.6%	5.4%
Contractual Services	\$ 244,436	\$ 256,667	\$ 256,153	\$ 270,258	\$ 13,591	5.3%	5.5%
Materials & Supplies	\$ 96,228	\$ 111,500	\$ 110,400	\$ 114,800	\$ 3,300	3.0%	4.0%
Utilities & Commodities	\$ 51,717	\$ 59,400	\$ 57,600	\$ 60,000	\$ 600	1.0%	4.2%
Repairs & Maintenance	\$ 164,770	\$ 145,300	\$ 143,200	\$ 147,600	\$ 2,300	1.6%	3.1%
Minor Equipment Purchases	\$ 15,522	\$ 7,150	\$ 11,200	\$ 3,700	\$ (3,450)	-48.3%	-67.0%
Other Miscellaneous Expenses	\$ 41,378	\$ 42,984	\$ 44,026	\$ 45,384	\$ 2,400	5.6%	3.1%
Depreciation & Amortization	\$ 306,870	\$ 301,883	\$ 272,883	\$ 296,883	\$ (5,000)	-1.7%	8.8%
<b>Utility Operating Expenses:</b>	<b>\$ 1,364,395</b>	<b>\$ 1,366,459</b>	<b>\$ 1,320,979</b>	<b>\$ 1,387,210</b>	<b>\$ 20,751</b>	<b>1.5%</b>	<b>5.0%</b>
<b>Net Utility Operating Income</b>	<b>\$ 586,589</b>	<b>\$ 706,943</b>	<b>\$ 766,823</b>	<b>\$ 682,592</b>	<b>\$ (24,351)</b>	<b>-3.4%</b>	<b>-11.0%</b>
Interest Income	\$ 8,896	\$ 800	\$ 9,000	\$ 4,500	\$ 3,700		
Non-Utility Income, net of expense	\$ 135,140	\$ 5,400	\$ 600	\$ 3,600	\$ (1,000)		
Interest Costs	\$ 168,785	\$ 167,021	\$ 167,021	\$ 156,322	\$ (10,699)		
<b>NET INCOME</b>	<b>\$ 561,840</b>	<b>\$ 546,122</b>	<b>\$ 609,402</b>	<b>\$ 534,370</b>	<b>\$ (11,752)</b>	<b>-2.2%</b>	<b>-12.3%</b>
<b>Conversion to Cash Basis:</b>							
Add back: Deprciation & Acqtn. Adjtmnt.	\$ 306,870	\$ 301,883	\$ 272,883	\$ 296,883			
Less: Principal Debt Retired	\$ (467,185)	\$ (562,195)	\$ (562,195)	\$ (567,548)			
<b>Cash Available for C.I.P.</b>	<b>\$ 401,525</b>	<b>\$ 285,810</b>	<b>\$ 320,090</b>	<b>\$ 263,705</b>			
Less: Capital Expenditures (From Internal Funds)	\$ (88,776)	\$ (248,300)	\$ (261,100)	\$ (168,286)			
<b>Net Cash Generation (Drawdown)</b>	<b>\$ 312,749</b>	<b>\$ 37,510</b>	<b>\$ 58,990</b>	<b>\$ 95,419</b>			

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Water Budget

APY	BTY	ETY	RNY	RNY	RNY
Actual Last Yr.	Budget This Yr.	Estimate This Yr.	Request Next Yr.	\$ Change	% Change
6/30/2016	6/30/2017	6/30/2017	6/30/2018	vs. Bgt.'17	vs. Bgt.'17
FY16 Actual	FY17 Budget	FY17 Estimate	FY18 Budget	vs. Bgt.'17	vs. Est.'17

**Revenues**

4098	<b>Revenues: Misc. Non Operational</b>								
4924	Jobbing Income	\$ 11,177	\$ 10,000	\$ 9,000	\$ 9,000	\$ (1,000)			
4700	Investment Interest Income	\$ 8,896	\$ 800	\$ 9,000	\$ 4,500	\$ 3,700			
4928	Nonutility Income- FA Sales	\$ 141,438	\$ -	\$ -	\$ -	\$ -			
	<b>Other Income Total</b>	<b>\$ 161,511</b>	<b>\$ 10,800</b>	<b>\$ 18,000</b>	<b>\$ 13,500</b>	<b>\$ 2,700</b>	<b>25%</b>	<b>-25.0%</b>	
4098	<b>PUC Regulated Revenues:</b>								
4704	Penalty Interest Income	\$ 2,043	\$ 1,700	\$ 1,700	\$ 1,700	\$ -	0.0%	0.0%	
4900	Metered Residential Sales-Qtrly	\$ 396,320	\$ 427,000	\$ 432,000	\$ 428,000	\$ 1,000	0.2%	-0.9%	
4901	Metered Residential Sales-Seas.	\$ 116,370	\$ 121,000	\$ 88,000	\$ 100,000	\$ (21,000)	-17.4%	13.6%	
4902	Metered Commercial Sales-Qtrly	\$ 309,528	\$ 326,000	\$ 365,000	\$ 352,000	\$ 26,000	8.0%	-3.6%	
4903	Metered Commercial Sales-Seas.	\$ 254,170	\$ 268,000	\$ 241,000	\$ 250,000	\$ (18,000)	-6.7%	3.7%	
4904	Metered Indstrial Sales-Jax Lab-Qtrly	\$ 136,822	\$ 150,000	\$ 163,000	\$ 148,000	\$ (2,000)	-1.3%	-9.2%	
4905	Metered Indstrial Sales-Jax Lab-Seas.	\$ 2,539	\$ 3,000	\$ 4,500	\$ 4,000	\$ 1,000	33.3%	-11.1%	
4906	Metered Sales Government-Qtrly	\$ 34,038	\$ 34,000	\$ 40,000	\$ 36,000	\$ 2,000	5.9%	-10.0%	
4907	Metered Sales Government-Seas.	\$ 27,705	\$ 25,000	\$ 29,000	\$ 27,000	\$ 2,000	8.0%	-6.9%	
4920	Public Fire Protection/Hydrant -	\$ 533,036	\$ 585,602	\$ 585,602	\$ 585,602	\$ -	0.0%	0.0%	
4922	Private Fire Protection	\$ 126,020	\$ 123,000	\$ 128,000	\$ 128,000	\$ 5,000	4.1%	0.0%	
4938	Misc Water Fees	\$ 12,393	\$ 9,100	\$ 10,000	\$ 9,500	\$ 400	4.4%	-5.0%	
	<b>Subtotal-PUC Regulated Revenues</b>	<b>\$ 1,950,984</b>	<b>\$ 2,073,402</b>	<b>\$ 2,087,802</b>	<b>\$ 2,069,802</b>	<b>\$ (3,600)</b>	<b>-0.2%</b>	<b>-0.9%</b>	
	<b>Total Water Revenues</b>	<b>\$ 2,112,495</b>	<b>\$ 2,084,202</b>	<b>\$ 2,105,802</b>	<b>\$ 2,083,302</b>	<b>\$ (900)</b>	<b>0.0%</b>	<b>-1.1%</b>	

Town of Bar Harbor  
FY 2018  
Water Budget

	APY	BTY	ETY	RNY	RNY	RNY	RNY
	Actual Last Yr.	Budget This Yr.	Estimate This Yr.	Request Next Yr.	\$ Change	% Change	% Change
	6/30/2016	6/30/2017	6/30/2017	6/30/2018	vs. Bgt.'17	vs. Bgt.'17	vs. Est.'17
	FY16 Actual	FY17 Budget	FY17 Estimate	FY18 Budget			

## Expenses

4098	<b>49 - NON OPERATING EXPENSES:</b>							
	6002 Amortization-Cont In Aid of Construction	\$ (10,382)	\$ (10,000)	\$ (34,000)	\$ (10,000)	\$ -		
	6016 Loss of Disposal of Assets	\$ -	\$ -	\$ 3,000	\$ -	\$ -		
	6018 L.T. Pension Liab Exp	\$ 22,800	\$ -	\$ -	\$ -	\$ -		
	6020 Jobbing Supplies & Expenses	\$ 5,057	\$ 5,400	\$ 5,400	\$ 5,400	\$ -		
	<b>Total Non Operating Expenses:</b>	<b>\$ 17,475</b>	<b>\$ (4,600)</b>	<b>\$ (25,600)</b>	<b>\$ (4,600)</b>	<b>\$ -</b>	<b>0.0%</b>	<b>-82.0%</b>
4098-	<b>51 - WAGES:</b>							
	5100 Wages-Salaries	\$ 41,123	\$ 41,902	\$ 41,902	\$ 42,614	\$ 712	1.7%	1.7%
	5105 Wages-Hourly	\$ 213,865	\$ 219,289	\$ 211,000	\$ 218,115	\$ (1,174)	-0.5%	3.4%
	5110 Wages-Overtime	\$ 47,461	\$ 40,484	\$ 40,515	\$ 43,157	\$ 2,673	6.6%	6.5%
	5165 Wages-Reclass to CIP	\$ (1,574)	\$ (4,000)	\$ (2,000)	\$ (3,500)	\$ 500	-12.5%	75.0%
	5175 Wages-Vacation Accruals	\$ 3,937						
	<b>Total Salaries &amp; Wages-Operations:</b>	<b>\$ 304,812</b>	<b>\$ 297,675</b>	<b>\$ 291,417</b>	<b>\$ 300,385</b>	<b>\$ 2,710</b>	<b>0.9%</b>	<b>3.1%</b>
4098-	<b>52 - PAYROLL BENEFITS:</b>							
	5160 Benefits-ICMA Wages	\$ 2,855	\$ 3,300	\$ 3,200	\$ 3,300	\$ -	0.0%	3.1%
	5162 Benefits-Health Ins Wage Stipend	\$ -	\$ -	\$ 8,000	\$ 8,500	\$ 8,500		
	5200 Benefits-FICA/Medicare	\$ 22,764	\$ 21,500	\$ 20,500	\$ 22,500	\$ 1,000	4.7%	9.8%
	5210 Benefits-MSRS Pension	\$ 18,604	\$ 19,000	\$ 18,500	\$ 20,000	\$ 1,000	5.3%	8.1%
	5215 Benefits-Workers Compensation	\$ 5,136	\$ 6,400	\$ 6,000	\$ 7,000	\$ 600	9.4%	16.7%
	5220 Benefits-Unemployment Compensation	\$ 1,497	\$ 1,700	\$ 1,600	\$ 1,700	\$ -	0.0%	6.3%
	5225 Benefits-Health Insurance	\$ 76,525	\$ 81,000	\$ 66,000	\$ 74,000	\$ (7,000)	-8.6%	12.1%
	5230 Benefits-Health Ins - Opt Out Program	\$ 10,590	\$ 11,000	\$ 10,000	\$ 11,000	\$ -	0.0%	10.0%
	5245 Benefits-Retirement Health Savings Plan	\$ 1,084	\$ 900	\$ 900	\$ 900	\$ -	0.0%	0.0%
	5270 Benefits-Transf. to Capital Projects	\$ (393)	\$ (900)	\$ (600)	\$ (700)	\$ 200	-22.2%	16.7%
	<b>Total PAYROLL BENEFITS:</b>	<b>\$ 138,662</b>	<b>\$ 143,900</b>	<b>\$ 134,100</b>	<b>\$ 148,200</b>	<b>\$ 4,300</b>	<b>3.0%</b>	<b>10.5%</b>

Town of Bar Harbor  
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Water Budget

	APY	BTY	ETY	RNY	RNY	RNY	RNY
	Actual Last Yr.	Budget This Yr.	Estimate This Yr.	Request Next Yr.	\$ Change	% Change	% Change
	6/30/2016	6/30/2017	6/30/2017	6/30/2018	vs. Bgt.'17	vs. Bgt.'17	vs. Est.'17
	FY16 Actual	FY17 Budget	FY17 Estimate	FY18 Budget			
<b>4098- 53 - CONTRACTUAL SERVICES:</b>							
5304 Cont Srv-Auditing/Accounting	\$ 2,000	\$ 2,100	\$ 2,100	\$ 2,200	\$ 100	5%	5%
5306 Cont Srv-BH Town Mgt Services	\$ 76,976	\$ 79,121	\$ 79,121	\$ 82,648	\$ 3,527	4%	4%
5308 Cont Srv-Billing Processing	\$ -	\$ 1,100	\$ -	\$ -	\$ (1,100)	-100%	#DIV/0!
5312 Cont Srv-Duckbrook Septic Pumping	\$ 288	\$ 2,000	\$ 1,000	\$ 2,000	\$ -	0%	100%
5314 Cont Srv-Copier/Postage Equipment	\$ 676	\$ 676	\$ 1,500	\$ 1,600	\$ 924	137%	7%
5315 Cont Srv-Courier Services- Wtr Samples	\$ 6,165	\$ 7,300	\$ 7,300	\$ 7,300	\$ -	0%	0%
5326 Cont Srv-Engineering & Surveying	\$ -	\$ 3,500	\$ 1,000	\$ 8,000	\$ 4,500	129%	700%
5332 Cont Srv-Generator Maintenance	\$ 650	\$ 640	\$ 650	\$ 660	\$ 20	3%	2%
5334 Cont Srv-Gen Prof. Fees	\$ 1,212	\$ 1,500	\$ 1,500	\$ 1,500	\$ -	0%	0%
5336 Cont Srv-Water Treatmnt C02 Tank	\$ 9,045	\$ 9,600	\$ 11,500	\$ 11,800	\$ 2,200	23%	3%
5340 Cont Srv-Legal Fees	\$ 162	\$ 1,000	\$ 1,000	\$ 1,000	\$ -	0%	0%
5348 Cont Srv-Duckbrook Mowing	\$ 1,365	\$ 1,000	\$ 1,300	\$ 1,400	\$ 400	40%	8%
5360 Cont Srv-Printing of Reports	\$ -	\$ 700	\$ 700	\$ 700	\$ -	0%	0%
5364 Cont Srv-Lease 1/3 PWrks Bldg	\$ 79,056	\$ 78,980	\$ 79,081	\$ 79,200	\$ 220	0%	0%
5368 Cont Srv-Comp Lic & Suppt	\$ 14,069	\$ 14,600	\$ 14,800	\$ 16,400	\$ 1,800	0%	11%
5372 Cont Srv-Standpipe/Intake Clean/Inspect's	\$ 15,064	\$ 15,500	\$ 16,300	\$ 16,500	\$ 1,000	0%	1%
5374 Cont Srv-Tank Paint Maint. Amort.	\$ 27,000	\$ 27,000	\$ 27,000	\$ 27,000	\$ -	12%	0%
5376 Cont Srv-Temporary Help	\$ -	\$ -	\$ -	\$ -	\$ -	6%	#DIV/0!
5378 Cont Srv-Test/Maint. of Equipment	\$ 1,455	\$ 1,350	\$ 1,301	\$ 1,350	\$ -	0%	4%
5384 Cont Srv-Testing Water Samples	\$ 8,271	\$ 9,000	\$ 9,000	\$ 9,000	\$ -	0%	0%
5388 Cont Srv-Uniform Cleaning/Rental	\$ 982	\$ -	\$ -	\$ -	\$ -	#DIV/0!	#DIV/0!
<b>Total CONTRACTUAL SERVICES</b>	<b>\$ 244,436</b>	<b>\$ 256,667</b>	<b>\$ 256,153</b>	<b>\$ 270,258</b>	<b>\$ 13,591</b>	<b>5%</b>	<b>5.5%</b>
<b>4098 54 - MATERIALS &amp; SUPPLIES:</b>							
5410 Supplies-Clothing, Uniforms, Boots	\$ 2,380	\$ 3,800	\$ 3,300	\$ 3,800	\$ -	0%	15%
5412 Supplies-Copier & Computers	\$ 1,915	\$ 1,300	\$ 1,800	\$ 1,600	\$ 300	23%	-11%
5418 Supplies-Forms, Checks & Misc	\$ 634	\$ 1,000	\$ 1,000	\$ 1,000	\$ -	0%	0%
5423 Supplies-Ammonia	\$ 5,400	\$ 4,100	\$ 5,400	\$ 5,400	\$ 1,300	32%	0%
5424 Supplies-Sod. Hypochlorite	\$ 28,102	\$ 36,000	\$ 34,000	\$ 36,000	\$ -	0%	6%
5425 Supplies-Flouride	\$ 4,771	\$ 7,500	\$ 7,000	\$ 7,500	\$ -	0%	7%
5426 Supplies-CO2	\$ 9,879	\$ 15,000	\$ 15,000	\$ 15,000	\$ -	0%	0%
5427 Supplies-Lime	\$ 9,360	\$ 12,400	\$ 11,500	\$ 12,400	\$ -	0%	8%
5428 Supplies-Water Treatment	\$ 13,206	\$ 12,000	\$ 12,500	\$ 12,500	\$ 500	4%	0%
5436 Supplies-Office	\$ 1,731	\$ 2,400	\$ 2,300	\$ 2,400	\$ -	0%	4%
5438 Supplies-Operating	\$ 13,281	\$ 9,200	\$ 9,800	\$ 9,900	\$ 700	8%	1%
5444 Supplies-Safety Supplies	\$ 943	\$ 2,800	\$ 2,800	\$ 2,800	\$ -	0%	0%
5458 Supplies-Vehicle	\$ 4,626	\$ 4,000	\$ 4,000	\$ 4,500	\$ 500	13%	13%
<b>Total MATERIAL &amp; SUPPLIES:</b>	<b>\$ 96,228</b>	<b>\$ 111,500</b>	<b>\$ 110,400</b>	<b>\$ 114,800</b>	<b>\$ 3,300</b>	<b>3%</b>	<b>4%</b>

Town of Bar Harbor  
FY 2018  
Water Budget

		APY	BTY	ETY	RNY	RNY	RNY	RNY
		Actual Last Yr.	Budget This Yr	Estimate This Yr	Request Next Yr	\$ Change	% Change	% Change
		6/30/2016	6/30/2017	6/30/2017	6/30/2018	vs. Bgt.'17	vs. Bgt.'17	vs. Est.'17
		FY16 Actual	FY17 Budget	FY17 Estimate	FY18 Budget			
4098	<b>55 - UTILITIES &amp; COMMODITIES:</b>							
5504	Utility-Electricity	\$ 29,847	\$ 31,000	\$ 31,000	\$ 31,500	\$ 500	2%	2%
5506	Utility-Electricity Pumping	\$ 2,315	\$ 3,300	\$ 3,100	\$ 3,300	\$ -	0%	6%
5514	Utility-Motor Fuel-Diesel	\$ 338	\$ 1,500	\$ 1,400	\$ 1,500	\$ -	0%	7%
5516	Utility-Motor Fuel-Gasoline	\$ 8,149	\$ 10,500	\$ 9,500	\$ 10,500	\$ -	0%	11%
5520	Utility-Propane	\$ 6,772	\$ 8,500	\$ 8,000	\$ 8,500	\$ -	0%	6%
5528	Utility-Telephone & Cellular	\$ 3,906	\$ 4,000	\$ 4,000	\$ 4,100	\$ 100	3%	3%
5530	Utility-Water	\$ 390	\$ 600	\$ 600	\$ 600	\$ -	0%	0%
	<b>Total UTILITIES &amp; COMMODITIES</b>	<b>\$ 51,717</b>	<b>\$ 59,400</b>	<b>\$ 57,600</b>	<b>\$ 60,000</b>	<b>\$ 600</b>	<b>1%</b>	<b>4%</b>
4098	<b>56 -REPAIRS &amp; MAINTENANCE</b>							
5602	Rep & Mt-Buildings	\$ 2,202	\$ 2,000	\$ 2,000	\$ 2,000	\$ -	0%	0%
5618	Rep & Mt-Equipment, Gen'l	\$ 1,904	\$ 2,500	\$ 2,500	\$ 2,500	\$ -	0%	0%
5626	Rep & Mt-Hydrants	\$ 3,718	\$ 7,500	\$ 7,000	\$ 7,500	\$ -	0%	7%
5628	Rep & Mt-Mains	\$ 46,519	\$ 40,000	\$ 40,000	\$ 40,000	\$ -	0%	0%
5630	Rep & Mt-Meters	\$ 67,753	\$ 63,000	\$ 59,000	\$ 63,000	\$ -	0%	7%
5634	Rep & Mt-Plant & Wtr Treatmnt Equipmnt	\$ 9,861	\$ 7,000	\$ 9,000	\$ 9,000	\$ 2,000	29%	0%
5642	Rep & Mt-Pumping Equipment	\$ 3,444	\$ 3,300	\$ 3,300	\$ 3,300	\$ -	0%	0%
5650	Rep & Mt-Services	\$ 28,192	\$ 15,000	\$ 15,000	\$ 15,000	\$ -	0%	0%
5652	Rep & Mt-Standpipes	\$ -	\$ 500	\$ 900	\$ 800	\$ 300	60%	-11%
5658	Rep & Mt-Vehicles	\$ 1,177	\$ 4,500	\$ 4,500	\$ 4,500	\$ -	0%	0%
	<b>Total REPAIRS &amp; MAINTENANCE</b>	<b>\$ 164,770</b>	<b>\$ 145,300</b>	<b>\$ 143,200</b>	<b>\$ 147,600</b>	<b>\$ 2,300</b>	<b>2%</b>	<b>3%</b>
4098	<b>57 -EQUIPMENT PURCHASES</b>							
5700	Equip Purch-Computers & Printers	\$ 3,762	\$ 3,400	\$ 3,400	\$ 2,700	\$ (700)	-21%	-21%
5702	Equip Purch-Office Furniture	\$ -	\$ 1,000	\$ 1,000	\$ -	\$ (1,000)		
5704	Equip Purch-Operating Equipment	\$ 11,760	\$ 2,750	\$ 6,800	\$ 1,000	\$ (1,750)	-64%	-85%
	<b>Total EQUIPMENT PURCHASES</b>	<b>\$ 15,522</b>	<b>\$ 7,150</b>	<b>\$ 11,200</b>	<b>\$ 3,700</b>	<b>\$ (3,450)</b>	<b>-48%</b>	<b>-67%</b>

Town of Bar Harbor  
FY 2018  
Water Budget

	APY	BTY	ETY	RNY	RNY	RNY	RNY	
	Actual Last Yr.	Budget This Yr	Estimate This Yr	Request Next Yr	\$ Change	% Change	% Change	
	6/30/2016	6/30/2017	6/30/2017	6/30/2018	vs. Bgt.'17	vs. Bgt.'17	vs. Est.'17	
	FY16 Actual	FY17 Budget	FY17 Estimate	FY18 Budget				
4098	<b>58 - OTHER-INS, TRVL, ADV, MISC:</b>							
5800	Advertising	\$ 3,082	\$ 2,100	\$ 2,750	\$ 2,500	\$ 400	19%	-9%
5802	Uncollectible Customer Accts	\$ 900	\$ 1,000	\$ 1,000	\$ 1,000	\$ -	0%	0%
5808	Dues-Licenses & Other	\$ 3,727	\$ 3,900	\$ 3,900	\$ 3,900	\$ -	0%	0%
5822	Insurance-General & Pub Off. Liab.	\$ 5,631	\$ 5,800	\$ 5,802	\$ 6,000	\$ 200	3%	3%
5824	Insurance-Property & Casualty	\$ 6,074	\$ 6,400	\$ 5,744	\$ 6,200	\$ (200)	-3%	8%
5826	Insurance-Vehicle Coll./Liab.	\$ 1,570	\$ 2,000	\$ 3,046	\$ 3,000	\$ 1,000	50%	-2%
5832	Permits & Fees	\$ 452	\$ 600	\$ 600	\$ 600	\$ -		0%
5836	Postage & Shipping Costs	\$ 4,340	\$ 2,600	\$ 2,600	\$ 2,600	\$ -	0%	0%
5840	Regulatory Assessments	\$ 11,063	\$ 10,000	\$ 10,000	\$ 11,000	\$ 1,000	10%	10%
5844	Training, Workshops, Etc.	\$ 1,865	\$ 2,100	\$ 2,100	\$ 2,100	\$ -	0%	0%
5846	Travel, Rooms, Miles & Meals	\$ 731	\$ 2,600	\$ 2,600	\$ 2,600	\$ -	0%	0%
6008	Rate Case Amortization	\$ 1,943	\$ 3,884	\$ 3,884	\$ 3,884	\$ -	0%	0%
	<b>Total OTHER-INS, TRAVL, ADV, MISC</b>	<b>\$ 41,378</b>	<b>\$ 42,984</b>	<b>\$ 44,026</b>	<b>\$ 45,384</b>	<b>\$ 2,400</b>	<b>6%</b>	<b>3%</b>
4098	<b>59 - UNCLASSIFIED</b>							
5910	Debt Service-Interest	\$ 168,785	\$ 167,021	\$ 167,021	\$ 156,322	\$ (10,699)		
	<b>Total Debt Service-Interest</b>	<b>\$ 168,785</b>	<b>\$ 167,021</b>	<b>\$ 167,021</b>	<b>\$ 156,322</b>	<b>\$ (10,699)</b>	<b>-6%</b>	<b>-6%</b>
4098	<b>60 - DEPRECIATION &amp; AMORT.:</b>							
6000	Amortization-Acquisition Adjustment	\$ 70,124	\$ 70,124	\$ 70,124	\$ 70,124	\$ -		
6006	Amortization-Debt Expenses	\$ 759	\$ 759	\$ 759	\$ 759	\$ -		
4610	Old Account	\$ -	\$ -	\$ -	\$ -	\$ -		
6009	Old Account	\$ -	\$ -	\$ -	\$ -	\$ -		
6012	Depreciation-	\$ 225,606	\$ 221,000	\$ 224,000	\$ 224,000	\$ 3,000		
6014	Depreciation-Cont In Aid of Construction	\$ 10,381	\$ 10,000	\$ 12,000	\$ 12,000	\$ 2,000		
	<b>Total Depreciation &amp; Amortization Exps:</b>	<b>\$ 306,870</b>	<b>\$ 301,883</b>	<b>\$ 306,883</b>	<b>\$ 306,883</b>	<b>\$ 5,000</b>	<b>2%</b>	<b>0%</b>

Town of Bar Harbor  
FY 2018  
Water Budget

	APY	BTY	ETY	RNY	RNY	RNY
	Actual Last Yr.	Budget This Yr.	Estimate This Yr.	Request Next Yr.	\$ Change	% Change
	6/30/2016	6/30/2017	6/30/2017	6/30/2018	vs. Bgt.'17	% Change
	FY16 Actual	FY17 Budget	FY17 Estimate	FY18 Budget		vs. Est.'17
<b>Capital Expenditures</b>						
4098-						
6900	Update Master Plan	\$ -	\$ -	\$ -	\$ 35,000	
6906	Lakehse PLC Upgrade/Turbidity Meter	\$ 6,578	\$ 5,300	\$ 6,516	\$ -	
6908	Asset Management System		\$ 25,000	\$ 20,000	\$ -	
6910	Demo Dreamwood Hill tank		\$ -	\$ -	\$ -	
6914	Pipe Fusion Machine	\$ -	\$ 30,000	\$ 30,000	\$ -	
6912	Backup Lime Pump	\$ 6,626	\$ -	\$ -	\$ -	
6912	Actuator Valve-PS & Heat Trace CO2	\$ -	\$ -	\$ -	\$ 11,000	
6916	Pumphouse-refinish/paint walls	\$ -	\$ 15,000	\$ 15,000	\$ -	
6918	Hydrants Replacements	\$ -	\$ 10,000	\$ 10,000	\$ 10,000	
6922	Main Replacements	\$ 39,945	\$ 1,857,805	\$ 1,857,805	\$ 72,286	
6924	Added A/C unit in the UV room		\$ 18,000	\$ 6,563	\$ -	
6928	Service Replacements	\$ 2,104	\$ 10,000	\$ 10,000	\$ 10,000	
6932	Vehicles - New Vacuum Trailer	\$ 34,714	\$ -	\$ -	\$ -	
6932	Vehicles-Snow plow unit		\$ 5,500	\$ 5,216	\$ -	
6950	CIP Reserve-Mains	\$ -	\$ 5,000	\$ -	\$ 30,000	
	<b>Totals-Gross Capital Spending</b>	<b>\$ 89,967</b>	<b>\$ 1,981,605</b>	<b>\$ 1,961,100</b>	<b>\$ 168,286</b>	<b>-92%</b>
	Less: CIAC	\$ (1,191)	\$ -	\$ -	\$ -	<b>-91%</b>
	Less: Bonding (mains)	\$ -	\$ -	\$ (1,700,000)	\$ -	
	<b>Net Capital Spending (Internal funds)</b>	<b>\$ 88,776</b>	<b>\$ 1,981,605</b>	<b>\$ 261,100</b>	<b>\$ 168,286</b>	<b>-92%</b>
	Less: FY16 Carryover		\$ (1,733,305)			
	<b>=Original Budget Spending</b>		<b>\$ 248,300</b>		<b>\$ 168,286</b>	<b>-32%</b>

Town of Bar Harbor  
FY 2018  
Water Budget

**List of Positions - Authorized Wages**

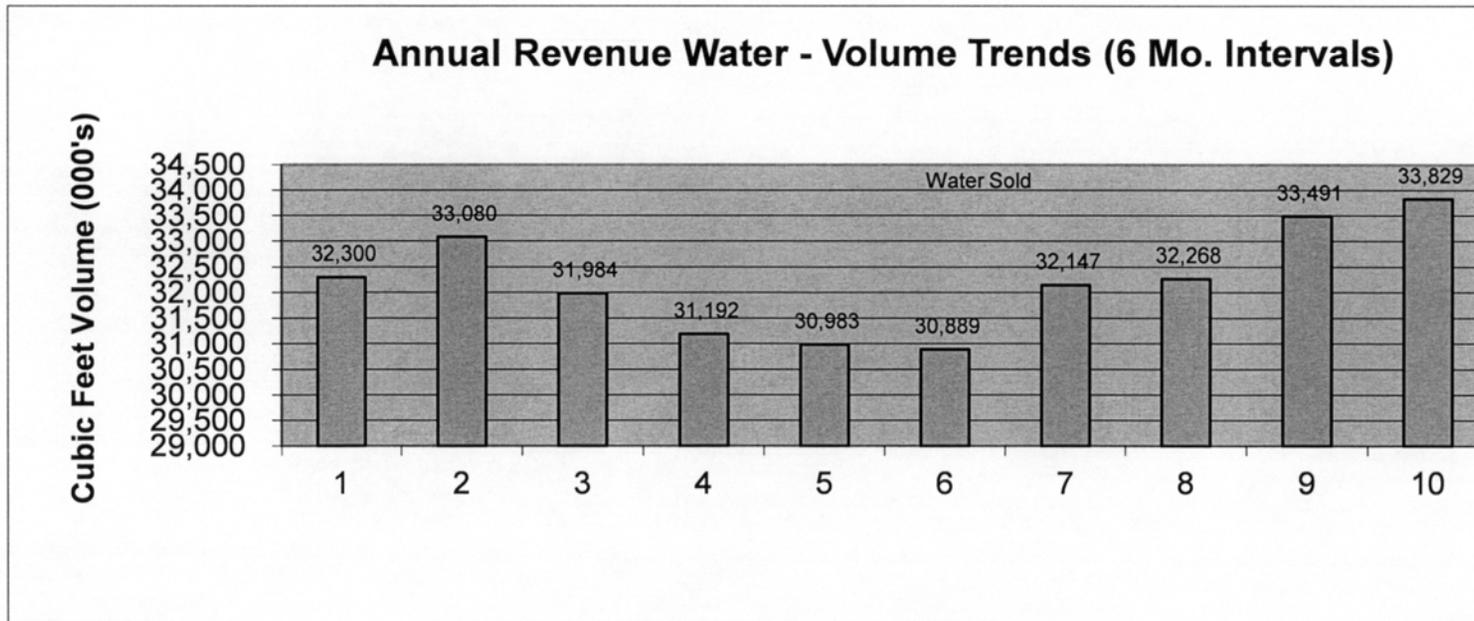
A/c #	-base pay-	Present Rate @ 6-30-17	June '17 Base Wage	Proposed 1.7% FY18 Rate or Hours 2080	Proposed Base Wages 1.7%	Proposed FY18 Budget
5100	Superintendent -Salary- Van Trump <i>Less 1/2 charged to Wastewater</i>	\$ 83,803	\$ 83,803		\$ 85,228 \$ (42,614)	\$ 85,228 \$ (42,614)
	Foreman/Lic. Oper.-Vacant	\$ 24.00	\$ 49,920	\$ 24.41	\$ 50,769	\$ 50,769
	Office Manager-NW	\$ 20.94	\$ 43,555	\$ 21.30	\$ 44,296	\$ 44,296
	Water Maint/Eqpt Worker-MK	\$ 21.21	\$ 44,117	\$ 21.57	\$ 44,867	\$ 44,867
	Water Maint. Worker-BA	\$ 18.48	\$ 38,438	\$ 18.79	\$ 39,092	\$ 39,092
	Water Maint. Worker-BL ( <i>new hire \$16.00</i> )	\$ 18.48	\$ 38,438	\$ 18.79	\$ 39,092	\$ 39,092
5105	<b>Total wages-hourly</b>		\$ 214,469	\$ -	\$ 218,115	\$ 218,115
	Scheduled Overtime-Avg. OT rate (3)	\$ 32.40	\$ 23,242	832	\$ 26,957	\$ 26,957
	Unscheduled Overtime-Avg. OT rate (3)	\$ 32.40	\$ 15,000	500	\$ 16,200	\$ 16,200
5110	<b>Total wages-overtime</b>		\$ 38,242	\$ -	\$ 43,157	\$ 43,157
	<b>Totals - Salaries &amp; Wages</b>		\$ 336,514		\$ 303,885	\$ 303,885
	<b>Actual Unscheduled Overtime Hours - CY 2016</b>			726		
	<b>Actual Unscheduled Overtime Hours - CY 2015</b>			741		
	<b>Actual Unscheduled Overtime Hours - CY 2014</b>			836		
	<b>Actual Unscheduled Overtime Hours - CY 2013</b>			358		

Town of Bar Harbor  
2018 Water Budget

**Volume - 12 Month Roll Forward Volume Numbers**  
**Cubic Feet (000's)**

6 Month Increments

	Dec-12 PUC Yr 1	Jun-13 FY 2	Dec-13 PUC Yr 3	Jun-14 FY 4	Dec-14 PUC Yr 5	Jun-15 FY 6	Dec-15 PUC Yr 7	Jun-16 FY 8	Dec-16 PUC Yr 9	Jun-17 FY 10
<b>Billed Consumption</b>	<b>32,300</b>	<b>33,080</b>	<b>31,984</b>	<b>31,192</b>	<b>30,983</b>	<b>30,889</b>	<b>32,147</b>	<b>32,268</b>	<b>33,491</b>	<b>33,829</b>
<b>6 Month % Changes</b>		2%	-3%	-2%	-1%	0%	4.1%	0.4%	4%	1%
YTD -(4.5) year % change										-5%
1% average decrease in annual consumption										
<b>Production Water</b>	<b>51,000</b>		<b>46,350</b>		<b>45,959</b>		<b>46,267</b>		<b>49,628</b>	
YTD 4 Year % change									-2.7%	



Town of Bar Harbor  
2018 Water Budget

**Capital Investment (CIP) Since Purchase of water Company**

*Company purchased Oct 2001*

	6/30/2016 (14.75 yrs)	6/30/2017 (est)	15.75 yrs Totals	
<b>Gross Capital Investment:</b>	<b>\$ 6,450,529</b>	<b>\$ 1,961,100</b>	<b>\$ 8,411,629</b>	<b>**</b>
<b>Paid By:</b>				
Bonding & Constr. Contributions	\$ 4,621,226	\$ 1,700,000	\$ 6,321,226	75%
Internally Generated Cash Used	\$ 1,829,303	\$ 261,100	\$ 2,090,403	25%

**Recap of Source & Use of Cash Generated** (after operating expenses & debt service)  
(15.75 years activity)

<b>Source:</b>		
From Sale of Properties: (Main St. & edgewood St.)	\$ 717,291	
From Normal Operations (Rates)	<u>\$ 1,977,246</u>	<i>(\$131,000 per year)</i>
<b>Net Cash Available</b>	<b>\$ 2,694,537</b>	
<b>Used For:</b>		
Capital	\$ 2,090,403	
Paying off the Underfunded Pension Plan	\$ 247,773	
For Painting Jackson Lab Tank	<u>\$ 258,208</u>	
<b>Net Cash Used</b>	<b>\$ 2,596,384</b>	
<b>Estimated Net Working Capital Increase - 15.75 years</b>	<b>\$ 98,153</b>	

\*\* (excludes \$1.7 million bond for future Rte #3 DOT project not yet completed)

FY 2018 Water Budget

5 Year Capital Improvement Program

Year By Year Overview

Acct. No.	Account Description	Age	Year One	Year Two	Year Three	Year Four	Year Five	Total
			FY18	FY19	FY20	FY21	FY22	Five Year
			Funding/Spending	Funding/Spending	Funding/Spending	Funding/Spending	Funding/Spending	Spending
<b>Vehicles</b>								
6932	94 Backhoe/Loader	1994						-
6932	14' Starcraft boat	1998						-
6932	GMC Sierra-2500	2012				37,000		37,000
6932	GMC Sierra Util Pickup-2500	2015						-
6932	GMC Sierra Supt Pickup-2500	2011			37,000			37,000
6932	GMC Sierra Pickup-2500	2016						-
6932	Snowplow unit	new						-
<b>Facilities</b>								
6916	Pumphouse-Paint basement walls				-			-
	Standpipe Coating-1936 Steel Tank					-		-
	Demo Dreamwood Hill Tank		-	50,000				50,000
<b>Equipment</b>								
6908	Asset Management System	new		-				-
6914	Pipe Fusion Machine (Crissy)	new		-				-
6906	Lakehouse Turbidity Meter	new						-
6924	Actuator Valve @ Pump Station	new	5,000					5,000
	LeRoi Portable Air Compressor	1996		-			25,000	25,000
	Heat Trace CO2 Feed Line	new	6,000	-				6,000
								-
<b>Mains (Rep = replacement)</b>								
6922								-
6922				-				-
6922	Rep Ash Place-500' - 1"1/2"	Work Cap		-				-
6922	Rep Atlantic Ave - 6" CI -1927- 250'	Work Cap						-
6922	Rep Atlantic Ave - 6" CI -1927- 510'	Work Cap		93,050				93,050
6922	Rte #3 Project-Coordinate with DOT	New Bond						-
6922	Rep Des Isle Ave - 2" galv -1937 - 495'	New Bond			81,275			81,275
6922	Rep Hancock St. - 6" - 1898 - 1800'	New Bond				281,150		281,150
6922	Rep Devon Road	Work Cap	72,286					72,286
6922	Rep Shannon Road - 1500'	New Bond				246,400		246,400
6922	Rep Highbrook Rd.-850' extension	New Bond						-
6922	Rep Rodick St. (West to Cottage)-470'	New Bond			95,950			95,950
6922	Rep Derby Lane - 430'	New Bond			72,450			72,450
6922	Rep Livingston Road - 6" - 1912	New Bond			182,075			182,075
6922	Rep Lower Main St. - 2050'	New Bond				343,950		343,950
6922	Rep Cottage St. - 400'	New Bond			63,308			63,308
6922	Rep Glen Mary Road - 1350'	New Bond				225,450		225,450
6922	Rep Pleasant St.							-
6922	Rep Holland Ave - 1450'	New Bond				191,050		191,050

FY 2018 Water Budget

5 Year Capital Improvement Program

Year By Year Overview

Acct. No.	Account Description	Age	Year One	Year Two	Year Three	Year Four	Year Five	Total
			FY18	FY19	FY20	FY21	FY22	Five Year
			Funding/Spending	Funding/Spending	Funding/Spending	Funding/Spending	Funding/Spending	Spending
			-			-	-	-
						-		-
								-
								-
	<i>Mains - subtotal</i>		72,286	93,050	495,058	1,288,000	-	1,948,394
6918	Hydrants-from road construction		10,000	10,000	10,000	10,000	10,000	50,000
6950	CIP Reserve-Unallocated		30,000	50,000	-	25,000	30,000	135,000
6928	Services - Rebuild from road const		10,000	10,000	10,000	10,000	10,000	50,000
								-
<b>Totals</b>			<b>133,286</b>	<b>213,050</b>	<b>552,058</b>	<b>1,370,000</b>	<b>75,000</b>	<b>2,343,394</b>

<b>Funded From:</b>	Operations/Fund Balance	133,286	213,050	152,058	170,000	75,000	743,394
	Other adjustments/Reserves						-
	20 Year Bonding-new bonds	-	-	400,000	1,200,000	-	1,600,000
	20 Year Bonding-existing	-	-				-
		<b>133,286</b>	<b>213,050</b>	<b>552,058</b>	<b>1,370,000</b>	<b>75,000</b>	<b>2,343,394</b>

20 Yr Bonding- added annual debt service on \$1,600,000

@4.0% = \$120,000 per year or 6% est. rate impact

# *2016 Annual Drinking Water Quality Report*

## **Town of Bar Harbor Water Division**

**Bar Harbor, Maine  
PWSID ME0090120**

We're pleased to present to you our Annual Drinking Water Quality Report, also known as the Consumer Confidence Report. This report, a requirement of the 1996 amendments to the Safe Drinking Water Act, is designed to inform you about the quality water and services we deliver to you every day. Our constant goal is to provide you with a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and protect our water resources. We are committed to ensuring the quality of your water.

### **WATER SOURCE**

Bar Harbor's water is drawn from Eagle Lake in Acadia National Park. Our water, which serves a population of 4,625 through 1,850 service connections, is treated with chlorine to protect against potential bacteriological contaminants, fluoride to promote dental health, and lime for pH adjustment for corrosion control. In May 2009, our system added chloramines by means of ammonia for additional treatment in an effort to reduce Disinfection By-Products. Due to the exceptional water quality of our source, our water system has a filtration waiver.

### **SOURCE WATER ASSESSMENT**

The Maine Drinking Water Program (DWP) has evaluated all public water supplies as part of the Source Water Assessment Program (SWAP). The assessments included geology, hydrology, land uses, water testing information, and the extent of land ownership or protection by local ordinance to see how likely our drinking water source is to being contaminated by human activities in the future. Assessment results are available at public water suppliers, town offices, and the DWP. For more information about the SWAP, please contact the DWP at telephone 207-287-2070.

If you have any questions about this report or concerning your water system, please contact Jeff Van Trump at telephone number 207-288-3555, fax number 207-288-2273 or mailing address 50 Public Works Way, Bar Harbor, ME 04609. We want our valued customers to be informed about their water system. If you want to learn more, please contact us about the time and place of regularly scheduled meetings.

### **WATER QUALITY**

Bar Harbor Water Division routinely monitors for contaminants in your drinking water according to Federal and State laws. The following table shows any detection resulting from our monitoring for the period of January 1<sup>st</sup> to December 31<sup>st</sup>, 2016.

In 2014, due to efforts to protect the water supply, our system was granted a 'Synthetic Organics Waiver.' This is a three-year exemption from the monitoring/reporting requirements for the following industrial chemical(s): herbicides, carbamate pesticides, toxaphene/chlordane/PCB and semivolatiles organics. This waiver was granted due to the absence of these potential sources of contamination within a half-mile radius of the water source.

The sources of drinking water include rivers, lakes, ponds and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and radioactive material and can pick up substances resulting from human or animal activity. All sources of drinking water are subject to potential contamination by substances that are naturally occurring or man-made. Contaminants that may be present in source water include:

**Microbial contaminants**, such as viruses and bacteria, may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.

**Inorganic contaminants**, such as salts and metals, can be naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.

**Pesticides and herbicides** may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.

**Organic chemical contaminants**, including synthetic and volatile organic chemicals, are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff, and septic systems.

**Radioactive contaminants** can be naturally-occurring or be the result of oil and gas production and mining activities.

In order to ensure that tap water is safe to drink, U.S. Environmental Protection Agency (EPA) prescribes regulations

which limit the amount of certain contaminants in water provided by public water systems. U.S. Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

The table below lists all of the drinking water contaminants that were detected throughout water quality monitoring and testing. The presence of contaminants in the water does not necessarily indicate that the water poses a health risk.

### Bar Harbor Water Division had no violations in 2016

<b>TEST RESULTS</b>						
Unless otherwise noted, testing was done in 2016.						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
<b>Microbiological Contaminants</b>						
Total Coliform Bacteria	N	<b>0 positive</b>	Highest monthly # of positive samples	0 positive	1 pos/mo or 5%	Naturally present in the environment.
Turbidity (2016)	N	0.91	ntu	n/a	5	Soil runoff.
<b>Inorganic Contaminants</b>						
Barium (5/9/16)	N	<b>0.002</b>	ppm	2	2	Discharge of drilling wastes. Discharge from metal refineries. Erosion of natural deposits.
Copper* (1/1/14-12/31/14)	N	<b>0.075</b>	ppm	1.3	AL=1.3	Corrosion of household plumbing systems.
Fluoride (6/27/16)	N	<b>1</b>	ppm	4	4	Erosion of natural deposits. Water additive that promotes strong teeth. Discharge from fertilizer and aluminum factories.
Lead* (1/1/14-12/31/14)	N	<b>4</b>	ppb	0	AL=15	Corrosion of household plumbing systems.
* = Reported results are the 90 <sup>th</sup> percentile value (the value that 90% of all samples are less than).						
<b>Disinfection By-Products – Jackson Lab</b>						
HAA5 [Total Haloacetic Acids]	N	<b>LRAA = 28</b> <i>(18.4-32)</i>	ppb	0	60	By-product of drinking water chlorination.
TTHM [Total Trihalomethanes]	N	<b>LRAA = 37</b> <i>(26-40.2)</i>	ppb	0	80	By-product of drinking water chlorination.
<b>Disinfection By-Products – Paradis True Value</b>						
HAA5 [Total Haloacetic Acids]	N	<b>LRAA = 27</b> <i>(16.6-30)</i>	ppb	0	60	By-product of drinking water chlorination.
TTHM [Total Trihalomethanes]	N	<b>LRAA = 37</b> <i>(25.1-39.1)</i>	ppb	0	80	By-product of drinking water chlorination.

**Note:** The state allows us to monitor for some contaminants less than once per year because the concentrations of these contaminants do not change frequently. Not all contaminants are tested for every year due to monitoring waivers and therefore we must use the most recent round of sampling. Some of our data is more than one year old, however, is limited to no older than 5 years.

**Definitions:**

- Action Level (AL)** - The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
- Locational Running Annual Average (LRAA)** - A 12 month rolling average of all monthly or quarterly samples at specific sampling locations. Calculation of the RAA may contain data from the previous year.
- Maximum Contaminant Level (MCL)** - is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- Maximum Contaminant Level Goal (MCLG)** - is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- Maximum Residual Disinfection Level (MRDL)** -The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- Maximum Residual Disinfection Level Goal (MRDLG)** – The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- Not Applicable (N/A)** - Does not apply
- Running Annual Average (RAA)** - A 12 month rolling average of all monthly or quarterly samples at all locations. Calculations of the RAA may contain data from the previous year.
- Treatment Technique (TT)** - A required process intended to reduce the level of a contaminant in drinking water (e.g. treatment technique for turbidity).
- Variations, Exemptions, and Waivers** - State or EPA permission not to meet an MCL, a treatment technique or test for a given contaminant under certain conditions.

**Units:**

ppm = parts per million or milligrams per liter (mg/L).  
ppb = parts per billion or micrograms per liter (µg/L).

pCi/L = picocuries per liter (a measure of radioactivity).  
pos = positive samples. MFL = million fibers per liter

**Notes:**

**Arsenic** - While your drinking water may meet EPA's standard for Arsenic, if it contains between 5 to 10 ppb you should know that the standard balances the current understanding of arsenic's possible health effects against the costs of removing it from drinking water. EPA continues to research the health effects of low levels of arsenic, which is a mineral known to cause cancer in humans at high concentrations and is linked to other health effects such as skin damage and circulatory problems. Quarterly compliance is based on running annual average.

**E. Coli** - E. coli are bacteria whose presence indicates that the water may be contaminated with human or animal wastes. Human pathogens in these wastes can cause short-term effects, such as diarrhea, cramps, nausea, headaches, or other symptoms. They may pose a greater health risk for infants, young children, the elderly, and people with severely-compromised immune systems.

**Fluoride** - For those systems that fluoridate, fluoride levels must be maintained between 0.5 to 1.2 ppm. The optimum level is 0.7 ppm.

**Gross Alpha** - Action level over 5 pCi/L requires testing for Radium 226 and 228. Action level over 15 pCi/L requires testing for Uranium. Compliance is based on Gross Alpha results minus Uranium results = Net Gross Alpha.

**Lead/Copper** - Action levels (AL) are measured at consumer's tap. 90% of the tests must be equal to or below the action level.

**Nitrate** - Nitrate in drinking water at levels above 10 ppm is a health risk for infants of less than six months of age. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels may rise quickly for short periods of time because of rainfall or agricultural activity. If you are caring for an infant you should ask advice from your health provider.

**Radon** - The State of Maine adopted a Maximum Exposure Guideline (MEG) for Radon in drinking water at 4000 pCi/L, effective 1/1/07. If Radon exceeds the MEG in water, treatment is recommended. It is also advisable to test indoor air for Radon.

**Total Coliform Bacteria** - Reported as the highest monthly number of positive samples, for water systems that take less than 40 samples per month.

**TTHM/HAA5** - Total Trihalomethanes and Haloacetic Acids (TTHM and HAA5) are formed as a by-product of drinking water chlorination. This chemical reaction occurs when chlorine combines with naturally occurring organic matter in water. Compliance is based on running annual average.

**IMPORTANT INFORMATION**

Since our system chlorinates its water, we are required to report our annual average for chlorine residual. **Chlorine Residual** was found to be **1.77 ppm**, with a range of 0.70 ppm to 3.70 ppm.

As you can see by the table, our system had no violations. We're proud that your drinking water meets all Federal and State requirements.

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 1-800-426-4791.

For most people, the health benefits of drinking plenty of water outweigh any possible health risk from these contaminants. However, some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/Center of Disease Control (CDC) guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline (800-426-4791).

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for thirty (30) seconds to two (2) minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>.

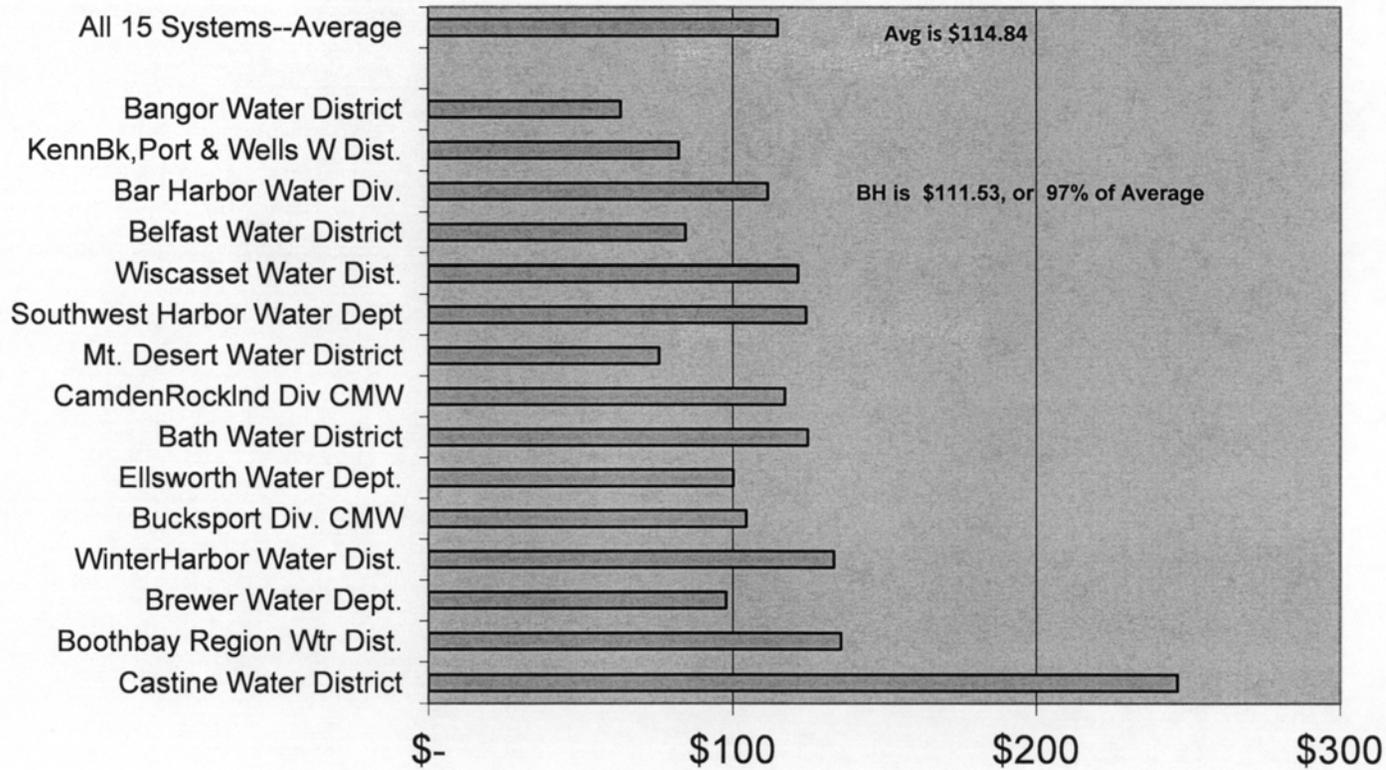
We, at Bar Harbor Water Division, work hard to provide top quality water to every tap. We ask that all our customers help us protect and preserve our drinking water resources, which are the heart of our community, our way of life, and our children's future. Please contact us with any questions. Thank you for working together for safe drinking water.

Town of Bar Harbor  
FY 2018  
Water Budget

<b>Calculation of Estimated Rate Increase</b>	Base- Budget	Adjustments	Pro-Forma
<b>Total Operating Expenses:</b>			
Payroll & Benefits	\$ 448,585		\$ 448,585
Contractual Services	\$ 270,258		\$ 270,258
Materials & Supplies	\$ 114,800		\$ 114,800
Utilities & Commodities	\$ 60,000		\$ 60,000
Repairs & Maintenance	\$ 147,600		\$ 147,600
Minor Equipment Purchases	\$ 3,700		\$ 3,700
Other Miscellaneous Expenses	\$ 45,384		\$ 45,384
subtotal-cash expenses			\$ 1,090,327
Depreciation & Amortization	\$ 296,883	\$ (70,124)	\$ 226,759
			*** a/c#6000
Utility Operating Expenses:	\$ 1,387,210	\$ (70,124)	\$ 1,317,086
Debt Service: Interest	\$ 156,322		\$ 156,322
Principal	\$ 567,548	\$ -	\$ 567,548
Total Base Expenses for Rates	\$ 2,111,080	\$ (70,124)	\$ 2,040,956
Contingency Allowance: 5%		5%	\$ 102,048
Total Gross Revenue Required:			\$ 2,143,004
Revenues @ current rates:			\$ 2,077,902
Estimated Increase in Annual Revenues Required:			\$ 65,102
<b>Estimated % Increase of rates needed</b>			<b>3.1%</b>

\*\*\*eliminate purchase cost of Water Company amortization per PUC order

### Water Rate Comparisons - Family Usage @ 2000 CF



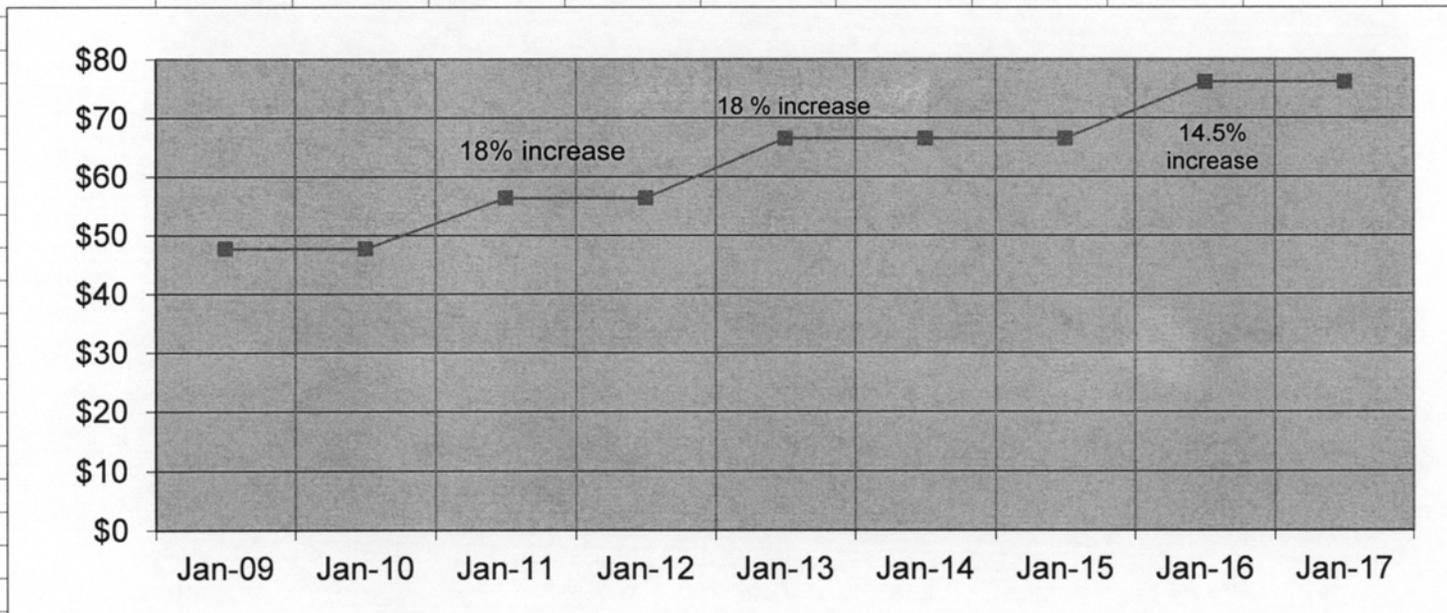
## Water Rate Comparisons

(USDA std)

<i>Utility Name</i>	<i>Qtr Minimum 1200 CuFt</i>	<i>Qtr - Family 2000 CuFt</i>	<i>Rates Effective</i>	<i>New Est</i>
<b>Unfiltered Systems:</b>				
Brewer Water Dept.	\$ 72.33	\$ 97.77	2008	
Mt. Desert Water District	\$ -	\$ 75.80	2003	
ME Water Co,-Camden	\$ -	\$ 117.16	2014	
<b>Bar Harbor Water Div.</b>	<b>\$ 76.17</b>	<b>\$ 111.53</b>	<b>2016</b>	
Bangor Water District		\$ 63.29	2015	
Average Billing		\$ 93.11		
<b>BH Rate as a % of Avg. Rate</b>		<b>120%</b>		
<b>Filtered Systems:</b>				
Castine Water District	\$ -	\$ 246.40	2011	
Boothbay Region Wtr Dist.	\$ -	\$ 135.65	2014	
WinterHarbor Water Dist.	\$ -	\$ 133.33	2012	
ME Water Co-Bucksport	\$ -	\$ 104.45	2013	
Ellsworth Water Dept.	\$ -	\$ 100.10	2008	
Bath Water District	\$ -	\$ 124.69	2015	
Southwest Harbor Water Dept	\$ -	\$ 124.12	2014	
Wiscasset Water Dist.	\$ -	\$ 121.52	2014	
Belfast Water District	\$ -	\$ 84.48	2015	
KennBk,Port & Wells W Dist.	\$ -	\$ 82.29	2015	
Average Billing	\$ -	\$ 125.70		
<b>BH Rate as a % of Avg. Rate</b>		<b>89%</b>		
All Systems-Average		\$ 114.84		
<b>BH Rate as a % of Avg. Rate</b>		<b>97%</b>		

Town Of Bar Harbor  
2018 Water Budget

History of Quarterly Minimum Water Charges									
Rate Increases by Town (on residential users)		17%		18%		18%			14.5%
Effective Dates	1/1/09	1/1/10	1/1/11	1/1/12	1/1/13	1/1/14	1/1/15	1/1/16	1/1/17
Water Minimum Charge	\$ 47.70	\$ 47.70	\$ 56.39	\$ 56.39	\$ 66.55	\$ 66.55	\$ 66.55	\$ 76.17	\$ 76.17
Minimum Allowance	1200	1200	1200	1200	1200	1200	1200	1200	1200
<i>an average of 7.5% increase per year over the last eight years</i>									



TOWN OF BAR HARBOR WATER DIVISION  
BAR HARBOR, MAINE 04609

Sheet #1  
SIXTH Revision

SCHEDULE OF METERED RATES FOR ANNUAL CUSTOMERS

**Quarterly Billing**

First 1,200 Cubic Feet or less per Quarter	76.17
For the next 10,800 Cubic Feet per Quarter	4.42 per 100 cu. ft.
For the next 78,000 Cubic Feet per Quarter	2.07 per 100 cu. ft.
Over 90,000 Cubic Feet per Quarter	1.35 per 100 cu. ft.

**Monthly Billing**

First 400 Cubic Feet or less per Month	25.39
For the next 3,600 Cubic Feet per Month	4.42 per 100 cu. ft.
For the next 26,000 Cubic Feet per Month	2.07 per 100 cu. ft.
Over 30,000 Cubic Feet per Month	1.35 per 100 cu. ft.

**Minimum Charge**

<u>SIZE OF METER</u>	<u>Quarterly</u>		<u>Monthly</u>	
	<u>Allowance</u>	<u>Charge</u>	<u>Allowance</u>	<u>Charge</u>
5/8"	1,200	76.17	400	25.39
3/4"	1,800	102.69	600	34.23
1"	3,000	155.73	1,000	51.91
1-1/2"	6,000	288.33	2,000	96.11
2"	9,600	447.45	3,200	149.15
3"	18,000	677.72	6,000	225.91
4"	30,000	926.13	10,000	308.71
6"	60,000	1,547.13	20,000	515.71

**Terms of Payment**

The minimum charge for different sizes of meters will be billed monthly or quarterly in accordance with the water division's billing procedure.

Charges under these rates will be subject to the Maine Sales Tax where applicable and are due and payable when issued. Unpaid balances of accounts thirty (30) days or more past due will be charged interest at the rate set annually by the Public Utilities Commission of the State of Maine.

Issued: October 15, 2015  
Proposed Effective: January 1, 2016  
Effective:  
Docket No. 2015-00317

  
\_\_\_\_\_  
Stanley W. Hammon  
Finance Director  
Bar Harbor Water Division

TOWN OF BAR HARBOR WATER DIVISION  
 BAR HARBOR, MAINE 04609

Sheet #2  
 SIXTH Revision

SCHEDULE OF METERED RATES FOR SEASONAL CUSTOMERS

Quarterly Billing

First 1,600 Cubic Feet or less per Quarter	201.63
For the next 10,400 Cubic Feet per Quarter	8.87 per 100 cu. ft.
For the next 78,000 Cubic Feet per Quarter	4.13 per 100 cu. ft.
For the next 300,000 Cubic Feet per Quarter	2.07 per 100 cu. ft.
Over 390,000 Cubic Feet per Quarter	1.58 per 100 cu. ft.

Minimum Charge

SIZE OF METER	Seasonal	
	Allowance	Charge
5/8"	1,600	201.63
3/4"	2,400	272.66
1"	4,000	414.73
1-1/2"	8,000	769.92
2"	12,800	1,158.19
3"	24,000	1,621.47
4"	40,000	2,283.28
6"	80,000	3,937.81

Terms of Payment

The minimum charge for different sizes of meters will be billed monthly or quarterly in accordance with the water division's billing procedure.

Charges under these rates will be subject to the Maine Sales Tax where applicable and are due and payable when issued. Unpaid balances of accounts thirty (30) days or more past due will be charged interest at the rate set annually by the Public Utilities Commission of the State of Maine.

Issued: October 15, 2015  
 Proposed Effective: January 1, 2016  
 Effective:  
 Docket No. 2015-00317



Stanley W. Harmon  
 Finance Director  
 Town of Bar Harbor Water Division

TOWN OF BAR HARBOR WATER DIVISION  
BAR HARBOR, MAINE 04609

SHEET #3  
SIXTH Revision

PUBLIC FIRE PROTECTION

AVAILABLE:

To the Town of Bar Harbor for Municipal Fire Protection

RATE:

The rate for existing hydrants as installed on the system at January 1, 2016,  
shall have an annual charge of

\$585,602 Annually

\$ 146,401 Quarterly

Rate for hydrants installed after January 1, 2016, shall be determined  
in accordance with the Public Utilities Commission Rules and Regulations  
Chapter 69.

The hydrant rental charge shall not be reduced, should a Town order  
one or more hydrants discontinued.

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Issued: October 15, 2015  
Proposed Effective: January 1, 2016  
Effective:  
Docket No. 2015 - 00317



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Stanley W. Harmon  
Finance Director  
Town of Bar Harbor Water Division

TOWN OF BAR HARBOR WATER DIVISION  
BAR HARBOR, MAINE 04609

SHEET # 4  
SIXTH Revision

PRIVATE FIRE PROTECTION

AVAILABLE:

To customers using the Division's service for private fire protection the following rates apply to fire protection only and include no allowance of water for other than fire fighting purposes.

RATES:

Private fire service rates for automatic sprinklers, standpipes or hose connections to be used only for fire protection inside of buildings.

Annual service charge per inch of service pipe diameter.

\$ 170

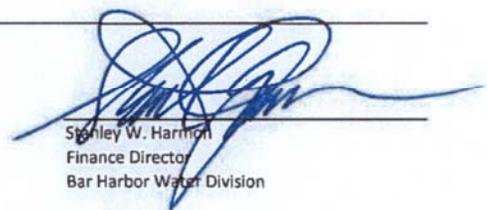
Annual service charge for each private hydrant with service connection furnished, installed and maintained by user for private fire protection.

\$ 1,362

Private protection is billable on April 1st

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Issued: October 15, 2015  
Proposed Effective: January 1, 2016  
Effective:  
Docket No. 2015 - 00317



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Stanley W. Harmon  
Finance Director  
Bar Harbor Water Division



## Debt Service

### A Responsibility of the Finance Department

**Bond Issue F - Public Works Projects: FY10**  
**\*\*\*\* WATER FUND SHARE \*\*\*\***

FY	Date	Interest Rate	Principal Payment	Interest Payment	Payment Total	Water Fund FY Total	FY
18	11/1/17	2.75%	0.00	6,825.00	6,825.00		
	5/1/18	3.00%	30,000.00	6,825.00	36,825.00	43,650.00	18
19	11/1/18	3.00%	0.00	6,375.00	6,375.00		
	5/1/19	3.00%	30,000.00	6,375.00	36,375.00	42,750.00	19
20	11/1/19	3.00%	0.00	5,925.00	5,925.00		
	5/1/20	3.00%	30,000.00	5,925.00	35,925.00	41,850.00	20
21	11/1/20	3.00%	0.00	5,475.00	5,475.00		
	5/1/21	3.00%	30,000.00	5,475.00	35,475.00	40,950.00	21
22	11/1/21	3.00%	0.00	5,025.00	5,025.00		
	5/1/22	3.20%	30,000.00	5,025.00	35,025.00	40,050.00	22
23	11/1/22	3.20%	0.00	4,545.00	4,545.00		
	5/1/23	3.30%	30,000.00	4,545.00	34,545.00	39,090.00	23
24	11/1/23	3.30%	0.00	4,050.00	4,050.00		
	5/1/24	3.50%	30,000.00	4,050.00	34,050.00	38,100.00	24
25	11/1/24	3.50%	0.00	3,525.00	3,525.00		
	5/1/25	3.50%	30,000.00	3,525.00	33,525.00	37,050.00	25
26	11/1/25	3.50%	0.00	3,000.00	3,000.00		
	5/1/26	4.00%	30,000.00	3,000.00	33,000.00	36,000.00	26
27	11/1/26	4.00%	0.00	2,400.00	2,400.00		
	5/1/27	4.00%	30,000.00	2,400.00	32,400.00	34,800.00	27
28	11/1/27	4.00%	0.00	1,800.00	1,800.00		
	5/1/28	4.00%	30,000.00	1,800.00	31,800.00	33,600.00	28
29	11/1/28	4.00%	0.00	1,200.00	1,200.00		
	5/1/29	4.00%	30,000.00	1,200.00	31,200.00	32,400.00	29
30	11/1/29	4.00%	0.00	600.00	600.00		
	5/1/30	4.00%	30,000.00	600.00	30,600.00	31,200.00	30
Total Water Fund Share			390,000.00	101,490.00	491,490.00	491,490.00	13

**Summary of Bond Issue F:**

CIP Fund Share	2,405,000	86.0%
Water Fund Share	390,000	14.0%
<b>Grand Total</b>	<b>\$2,795,000</b>	<b>100.0%</b>

~~ Debt Service Continued on Next Page ~~

## Debt Service

### A Responsibility of the Finance Department

#### Bond Issue H

#### WATER SYSTEM IMPROVEMENTS: 2011

Original Principal:	Lender:	Morgan Stanley & Co
1,224,000 Approved by Voters June 2011 for Duck Brook Pump Station Upgrade and Watermain Replacement		
2,515,000 Approved by Council to Refinance 2001 Bond issued for purchase of Water Company		
<u>3,739,000 Total</u>		

Date of Issue: 9/15/11  
 Interest Rate = 2.0% - 3.50% (Avg. - 2.29%)  
 Payment Dates: December 1 (principal and interest) & June 1 (interest only)

Paying agent: Bank of New York/ Mellon Trust  
 Refinance: After Dec. 2021

FY	Date	Interest Rate	Principal Payment	Interest Payment	Payment Total	Fiscal Year Total
18	12/01/17	2.00%	281,247.00	28,441.95	309,688.95	
	06/01/18			25,629.48	25,629.48	335,318.43
19	12/01/18	2.00%	286,247.00	25,629.48	311,876.48	
	06/01/19			22,767.01	22,767.01	334,643.49
20	12/01/19	2.00%	293,944.00	22,767.01	316,711.01	
	06/01/20			19,827.57	19,827.57	336,538.58
21	12/01/20	2.50%	306,642.00	19,827.57	326,469.57	
	06/01/21			15,994.54	15,994.54	342,464.11
22	12/01/21	3.00%	311,642.00	15,994.54	327,636.54	
	06/01/22			11,319.91	11,319.91	338,956.45
23	12/01/22	3.00%	59,339.00	11,319.91	70,658.91	
	06/01/23			10,429.83	10,429.83	81,088.74
24	12/01/23	3.00%	62,036.00	10,429.83	72,465.83	
	06/01/24			9,499.29	9,499.29	81,965.12
25	12/01/24	3.00%	64,733.00	9,499.29	74,232.29	
	06/01/25			8,528.29	8,528.29	82,760.58
26	12/01/25	3.00%	67,431.00	8,528.29	75,959.29	
	06/01/26			7,516.83	7,516.83	83,476.12
27	12/01/26	3.00%	70,128.00	7,516.83	77,644.83	
	06/01/27			6,464.91	6,464.91	84,109.74
28	12/01/27	3.125%	72,825.00	6,464.91	79,289.91	
	06/01/28			5,327.02	5,327.02	84,616.93
29	12/01/28	3.25%	75,522.00	5,327.02	80,849.02	
	06/01/29			4,099.78	4,099.78	84,948.80
30	12/01/29	3.25%	78,219.00	4,099.78	82,318.78	
	06/01/30			2,828.72	2,828.72	85,147.50
31	12/01/30	3.375%	80,917.00	2,828.72	83,745.72	
	06/01/31			1,463.25	1,463.25	85,208.97
32	12/01/31	3.50%	83,614.00	1,463.25	85,077.25	
	06/01/32					85,077.25
<b>Totals</b>			<b>2,194,486.00</b>	<b>331,834.81</b>	<b>2,526,320.81</b>	<b>2,526,320.81</b>

~~ Debt Service Continued on Next Page ~~

## Debt Service

### A Responsibility of the Finance Department

#### Bond Issue I

#### WATER SYSTEM IMPROVEMENTS: 2012 - SRF

Duck Brook Water Pumping Station renovations, water treatment system improvements and watermain replacements. Financed by the Maine Drinking Water Program's State Revolving Loan Fund (SRF), using General Obligation (GO) notes, but is being repaid by the Water Fund from user fees.

Original Principal = \$2,662,957

Date of Issue: 10/1/2012

Average Interest Rate = 1.5%

Payment Dates: October 1 (principal and interest) & April 1 (interest only)

Lender: Maine Municipal Bond Bank

Agent fee: None

<i>Fiscal Year</i>	<i>Date</i>	<i>Principal Payment</i>	<i>Interest Payment</i>	<i>Payment Total</i>	<i>Fiscal Year Total</i>
18	10/01/17	125,850.00	17,694.99	143,544.99	
	04/01/18	0.00	10,741.77	10,741.77	154,286.76
19	10/01/18	127,108.00	17,097.17	144,205.17	
	04/01/19	0.00	10,074.46	10,074.46	154,279.63
20	10/01/19	128,379.00	16,493.41	144,872.41	
	04/01/20	0.00	9,400.46	9,400.46	154,272.87
21	10/01/20	129,663.00	15,883.61	145,546.61	
	04/01/21	0.00	8,719.73	8,719.73	154,266.34
22	10/01/21	130,960.00	15,267.73	146,227.73	
	04/01/22	0.00	8,032.19	8,032.19	154,259.92
23	10/01/22	132,269.00	14,645.64	146,914.64	
	04/01/23	0.00	7,337.77	7,337.77	154,252.41
24	10/01/23	133,592.00	14,017.37	147,609.37	
	04/01/24	0.00	6,636.41	6,636.41	154,245.78
25	10/01/24	134,928.00	13,382.81	148,310.81	
	04/01/25	0.00	5,928.04	5,928.04	154,238.85
26	10/01/25	136,277.00	12,741.89	149,018.89	
	04/01/26	0.00	5,212.58	5,212.58	154,231.47
27	10/01/26	137,640.00	12,094.58	149,734.58	
	04/01/27	0.00	4,489.97	4,489.97	154,224.55
28	10/01/27	139,016.00	11,440.77	150,456.77	
	04/01/28	0.00	3,760.13	3,760.13	154,216.90
29	10/01/28	140,406.00	10,780.43	151,186.43	
	04/01/29	0.00	3,023.00	3,023.00	154,209.43
30	10/01/29	141,811.00	10,113.55	151,924.55	
	04/01/30	0.00	2,278.49	2,278.49	154,203.04
31	10/01/30	143,229.00	9,439.94	152,668.94	
	04/01/31	0.00	1,526.53	1,526.53	154,195.47
32	10/01/31	144,660.00	8,759.53	153,419.53	
	04/01/32	0.00	767.07	767.07	154,186.60
33	10/01/32	146,108.00	8,072.47	154,180.47	154,180.47
Totals		2,171,896.00	295,854.49	2,467,750.49	2,467,750.49

~~ Debt Service Continued on Next Page ~~

## Debt Service

### A Responsibility of the Finance Department

Bond Issue L

#### ROUTE #3 WATER MAINS: FY16

Authorized by Town Meeting Vote @ 6/2/2015

Repaid by Water Rates

Principal =	\$	1,700,000					Lender: Roosevelt & Cross, Inc. & Assoc.
Interest Rate =		3.30% Avg.					TIC: 2.5%
Term in Years =		20					Refinance only after October 2025
							Paying Agent: US Bank St. Paul
<i>Fiscal Year</i>	<i>Due Date</i>	<i>Principal Payment</i>	<i>Interest Payment</i>	<i>Payment Total</i>	<i>Fiscal Year Total</i>		
18	10/15/17	85,000.00	27,412.50	112,412.50			3.0%
	04/15/18		26,137.50	26,137.50	138,550.00		
19	10/15/18	85,000.00	26,137.50	111,137.50			4.0%
	04/15/19		24,437.50	24,437.50	135,575.00		
20	10/15/19	85,000.00	24,437.50	109,437.50			3.0%
	04/15/20		23,162.50	23,162.50	132,600.00		
21	10/15/20	85,000.00	23,162.50	108,162.50			3.0%
	04/15/21		21,887.50	21,887.50	130,050.00		
22	10/15/21	85,000.00	21,887.50	106,887.50			3.0%
	04/15/22		20,612.50	20,612.50	127,500.00		
23	10/15/22	85,000.00	20,612.50	105,612.50			4.0%
	04/15/23		18,912.50	18,912.50	124,525.00		
24	10/15/23	85,000.00	18,912.50	103,912.50			4.0%
	04/15/24		17,212.50	17,212.50	121,125.00		
25	10/15/24	85,000.00	17,212.50	102,212.50			4.0%
	04/15/25		15,512.50	15,512.50	117,725.00		
26	10/15/25	85,000.00	15,512.50	100,512.50			5.0%
	04/15/26		13,387.50	13,387.50	113,900.00		
27	10/15/26	85,000.00	13,387.50	98,387.50			5.0%
	04/15/27		11,262.50	11,262.50	109,650.00		
28	10/15/27	85,000.00	11,262.50	96,262.50			2.5%
	04/15/28		10,200.00	10,200.00	106,462.50		
29	10/15/28	85,000.00	10,200.00	95,200.00			3.0%
	04/15/29		8,925.00	8,925.00	104,125.00		
30	10/15/29	85,000.00	8,925.00	93,925.00			3.0%
	04/15/30		7,650.00	7,650.00	101,575.00		
31	10/15/30	85,000.00	7,650.00	92,650.00			3.0%
	04/15/31		6,375.00	6,375.00	99,025.00		
32	10/15/31	85,000.00	6,375.00	91,375.00			3.0%
	04/15/32		5,100.00	5,100.00	96,475.00		
33	10/15/32	85,000.00	5,100.00	90,100.00			3.0%
	04/15/33		3,825.00	3,825.00	93,925.00		
34	10/15/33	85,000.00	3,825.00	88,825.00			3.0%
	04/15/34		2,550.00	2,550.00	91,375.00		
35	10/15/34	85,000.00	2,550.00	87,550.00			3.0%
	04/15/35		1,275.00	1,275.00	88,825.00		
36	10/15/35	85,000.00	1,275.00	86,275.00			3.0%
					86,275.00		
		1,615,000.00	504,262.50	2,119,262.50	2,119,262.50		

**Summary of Bond Issue L:**

CIP Fund Share 380,000  
 Water Fund Share 1,615,000

Grand Total 1,995,000