

# Wastewater and Water Advisory Committees' Presentation

FY17 Proposed Capital Improvement & Current Expense Budgets

> Thomas J. Durkin Director, Finance

April 12, 2016

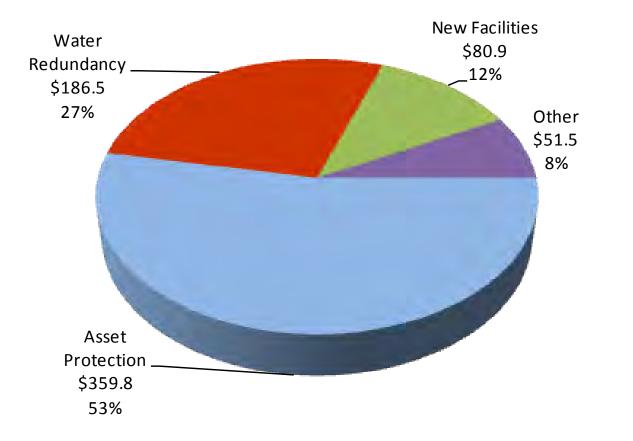


# MWRA Fiscal Year 2017 Proposed Capital Improvement Budget



- MWRA continues to focus on Asset Protection and Long Term Redundancy initiatives;
- ✓ MWRA continues to reduce debt levels; and
- ✓ FY17 Proposed CIP meets the overall 5-Year spending Cap requirement.

# FY14-FY18 Capital Expenditures – Fix it First





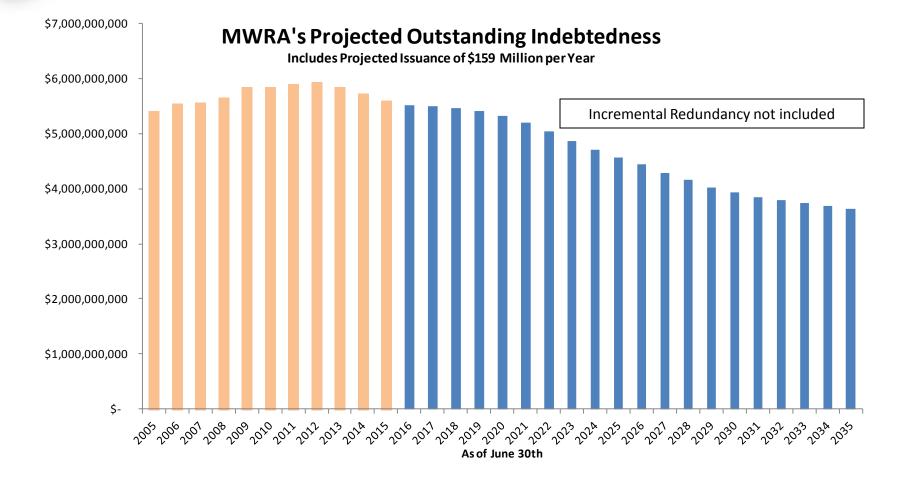
✓ City Tunnel Redundancy Decision Time;

- ✓ Acceleration of pipeline projects; and
- ✓ Acceleration of Shaft 12, Shaft 2, & Winsor Power Station.

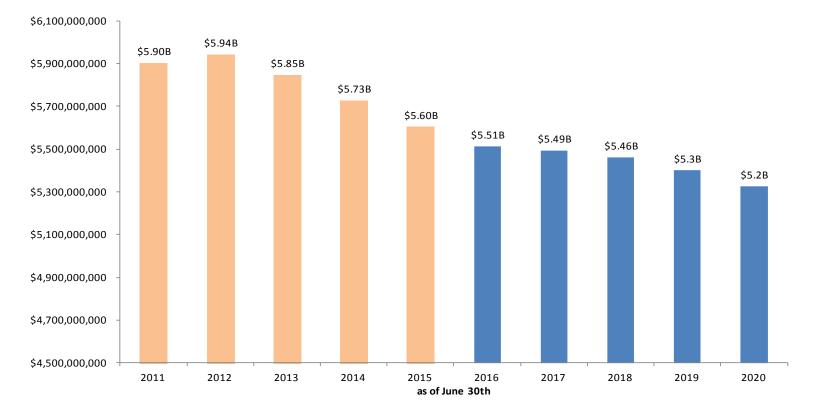
(000s)	FY16 Final	FY17 Proposed	\$ Change	% Change		l6 Final (14-18	Pro	Y17 posed 14-18	14-18 \$ hange	FY14-18 % Change
Total Wastewater	\$ 2,974.6	\$3,062.3	\$ 87.7	2.9%	\$	419.3	\$	397.5	\$ (21.8)	-5.2%
Total Waterworks	\$ 2,909.4	\$3,790.6	\$ 881.1	30.3%	\$	251.3	\$	239.4	\$ (11.9)	-4.7%
Business & Operations Support	\$ 128.4	\$ 134.7	\$ 6.3	4.9%	\$	40.9	\$	41.8	\$ 0.9	2.1%
Total MWRA	\$ 6,012.4	\$6,987.5	\$ 975.1	16.2%	\$	711.5	\$	678.7	\$ (32.8)	-4.6%



### **Paying More Principal than Interest**

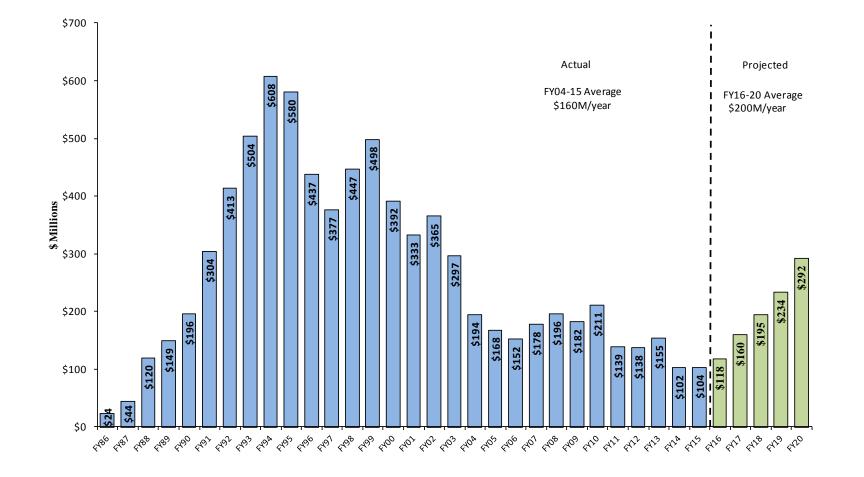


### Reduction to MWRA Projected Debt Between FY11 and FY20





# Historic and Projected Capital Improvement Spending



9

# FY14-18 Base-Line Cap as Compared with FY17 Proposed Spending

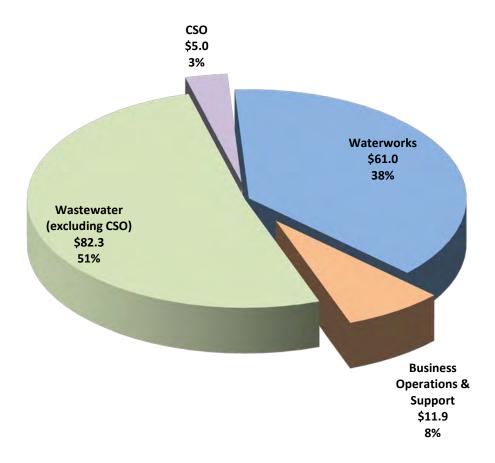
	<b>a</b> p		FY14	FY15	FY16	FY17	FY18	Total FY14-18
		Projected Expenditures	\$142.5	\$147.6	\$149.3	\$141.8	\$136.8	\$718.0
	14 Lin	Contingency	7.6	9.5	10.1	9.8	9.3	46.1
		Inflation on Unawarded Construction	0.8	4.2	8.4	11.1	13.5	37.9
Ba	Ba	Less: Chicopee Valley Aqueduct Projects	(5.0)	(2.2)	(1.4)	(1.3)	(0.4)	(10.3)
		FY14-18 Base-Line Cap	\$145.8	\$159.1	\$166.4	\$161.3	\$159.1	\$791.7

_		FY14	FY15	FY16	FY17	FY18	Total FY14-18
oposed	Projected Expenditures	\$102.2	\$103.6	\$118.3	\$160.1	\$194.6	\$678.7
opc	Contingency	0.0	0.0	5.6	9.5	12.0	27.0
	Inflation on Unawarded Construction	0.0	0.0	2.1	5.3	11.1	18.5
11	Less: I/I Program	0.0	(17.5)	(19.4)	(19.0)	(17.3)	(73.1)
FY	Less: Water Loan Program	0.0	1.4	1.4	2.0	(0.6)	4.3
	Less: Chicopee Valley Aqueduct Projects	(5.6)	(1.2)	(0.5)	(0.1)	(0.0)	(7.4)
	FY17 Proposed FY14-18 Spending	\$96.6	\$86.3	\$107.5	\$157.9	\$199.7	\$648.0

vs. e Cap		FY14	FY15	FY16	FY17	FY18	Total FY14-18
	Projected Expenditures	(\$40.3)	(\$43.9)	(\$31.1)	\$18.3	\$57.8	(\$39.3)
Proposed Base-Lin	Contingency	(7.6)	(9.5)	(4.5)	(0.3)	2.7	(19.1)
Pro	Inflation on Unawarded Construction	(0.8)	(4.2)	(6.2)	(5.8)	(2.4)	(19.4)
FY17 H FY14-18 ]	Less: I/I Program	0.0	(17.5)	(19.4)	(19.0)	(17.3)	(73.1)
	Less: Water Loan Program	0.0	1.4	1.4	2.0	(0.6)	4.3
	Less: Chicopee Valley Aqueduct Projects	(0.6)	0.9	0.9	1.2	0.4	2.9
Η	FY14-18 Cap (\$ Change)	(\$49.2)	(\$72.7)	(\$58.9)	(\$3.4)	\$40.6	(\$143.7)



## FY17 Proposed CIP Expenditures by Major Programs for 2017

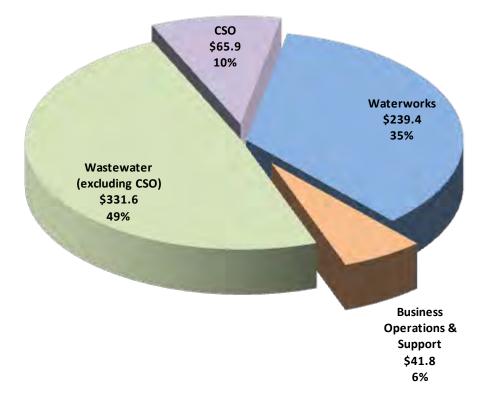


**FY17 Subphases** Spending \$30.3 Community Financial Assistance Programs \$16.1 Section 89/29 Redundancy Chelsea Creek Upgrade Construction \$15.2 Wachusett Aqueduct PS Construction \$15.0 \$5.3 Alewife Brook PS Construction NMPS & WTF Butterfly Valve Replacement \$4.5 **Top Spenders in FY17** \$86.3 **Total Projected FY17 Spending** \$160.1

**FY17 Big Spenders** 

The top spenders account for 54% of FY17 planned spending.

# FY14-18 Proposed CIP Expenditures by Major Programs





# FY17 Proposed CIP Expenditures by Major Initiatives

	FY09-13	FY14-18	FY19-23
Asset Protection	\$248.0	\$359.8	\$760.7
Carroll WTP	38.5	15.0	11.2
Water Redundancy	134.7	186.5	431.8
CSO	315.5	65.9	3.0
Other	88.4	51.5	-6.3
Total	\$825.1	\$678.7	\$1,200.4
Asset Protection	30.1%	53.0%	63.4%
Carroll WTP	4.7%	2.2%	0.9%
Water Redundancy	16.3%	27.5%	36.0%
CSO	38.2%	9.7%	0.2%
Other	10.7%	7.6%	-0.5%
Total	100.0%	100.0%	100.0%

Asset Protection and Redundancy are the principle drivers of future capital expenditures.



Project	Subphase		FY17 Proposed
NIH Redundancy & Storage	Sec 89 & 29 Redundancy Construction Phase 2	Jul-16	\$21.4
Central Monitoring System	Waterworks SCADA/PLC Upgrades	Oct-16	\$18.5
SEH Redundancy & Storage	Redundancy Pipleline Section III Contstruction 2	Jul-16	\$10.8
Residuals Asset Protection	esiduals Asset Protection Residuals Facility Upgrade-Construction		\$10.0
SEH Redundancy & Storage	Redundancy Pipleline Section III Contstruction 3	Oct-16	\$7.4
DI Treatment Plant Asset Protection	Future Miscellaneous VFD Replacements-Construction	May-17	\$5.3
Facility Asset Protection	IR-Construction 1 Reading Extension Sewer	Mar-17	\$4.3
Applicat Improvement Program	Enterprise Content Management	Aug-16	\$4.0
Top Awards for FY17			\$81.6
27 Contract Awards Planned for FY	X17		\$101.7

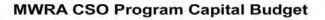
### The top awards account for over 80% of FY17 planned awards.

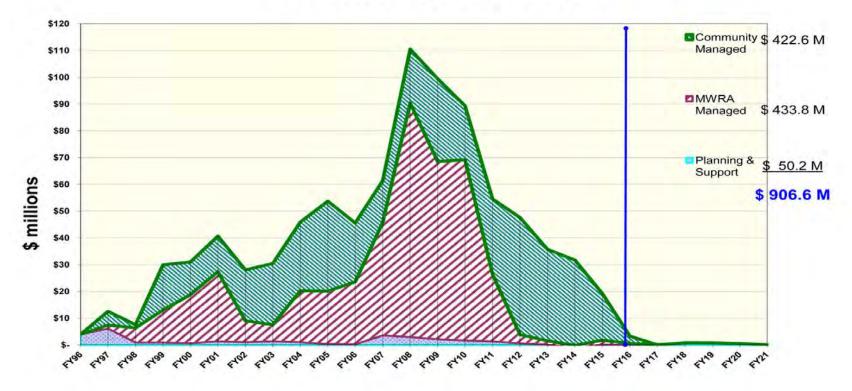


# **Completed Projects**



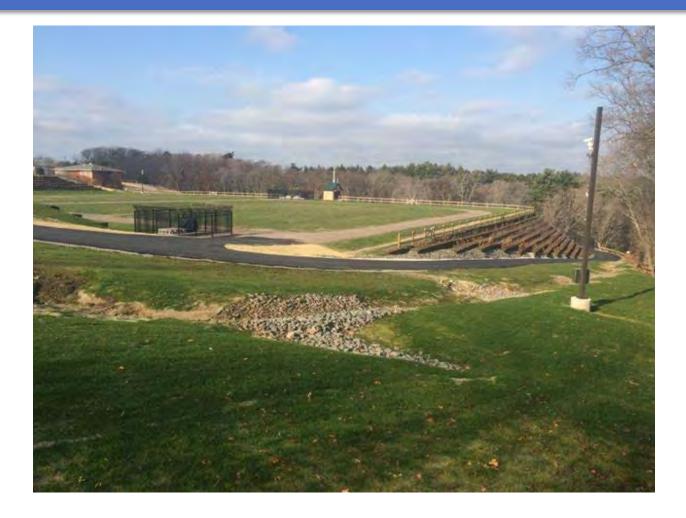
### **MWRA CSO Capital Spending**





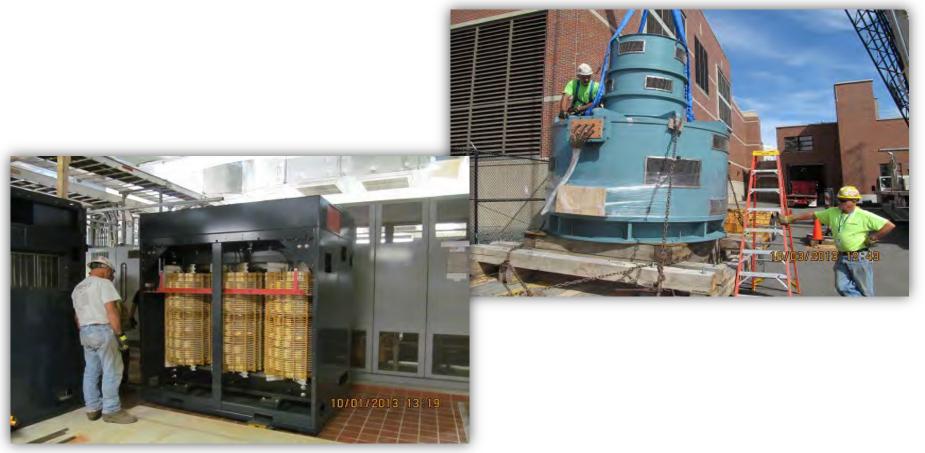
\$891.2 million spent to date. Remaining spending of \$15.4 million for surface restorations, contract close-outs and CSO performance assessment thru 2020.

# Spot Pond Covered Storage Facility and Pump Station





# Deer Island – North Main Pump Station VFDs and Motors

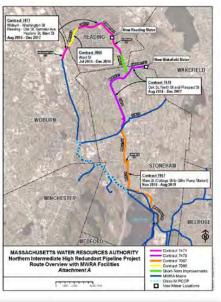




# FY17 Big Spenders



✓ Section 89/29
✓ North Main Valve Replacement
✓ Wachusett PS
✓ Alewife Brook PS
✓ Chelsea Creek









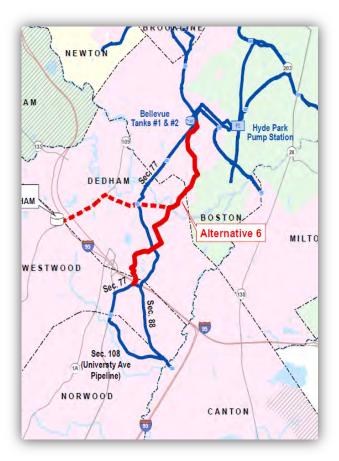




FY17 Proposed CIP – What is New?



## Southern Extra High



## Cambridge Sewer Branch







# Acceleration of Shaft 12, Shaft 2 and Winsor Power Station









- Further presentations to the Board on Redundancy options;
- ✓ Work with the Advisory Board;
- ✓ Affordability; and
- ✓ Reach a decision by June 2016.



# MWRA Fiscal Year 2017 Proposed Current Expense Budget



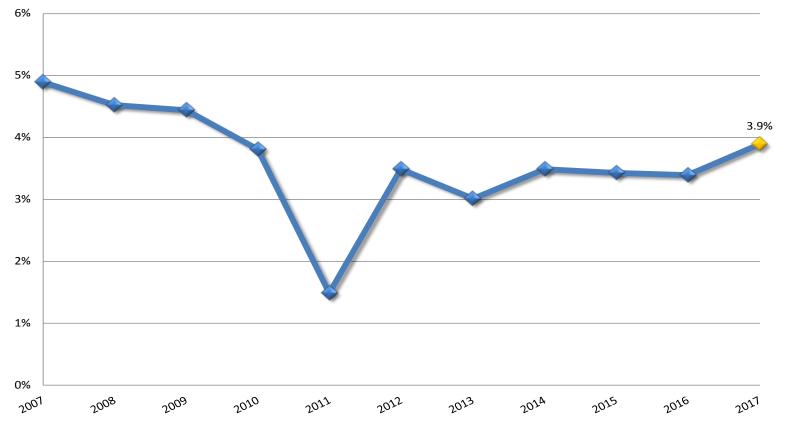
# "Sustainable and Predictable"



- Continue to deliver on the mission;
- Manage long-term goals; and
- Address for the first time smoothing of assessments at the utility level

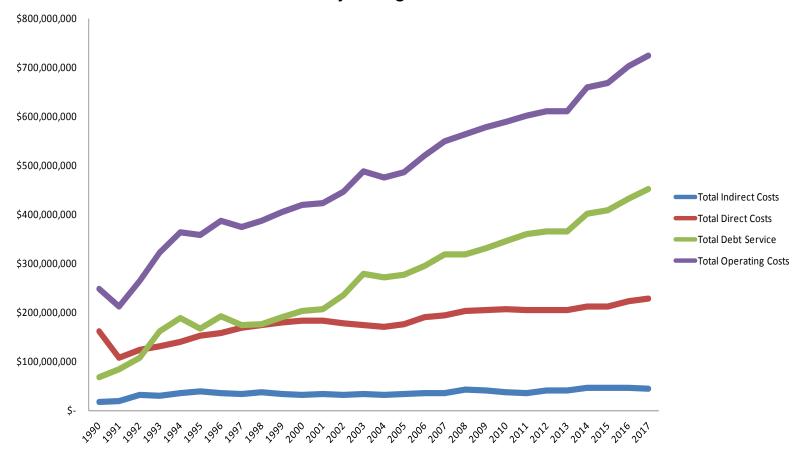


Assessment History 2007 - 2017



**Historical Spending Chart** 

**Major Budget Elements** 



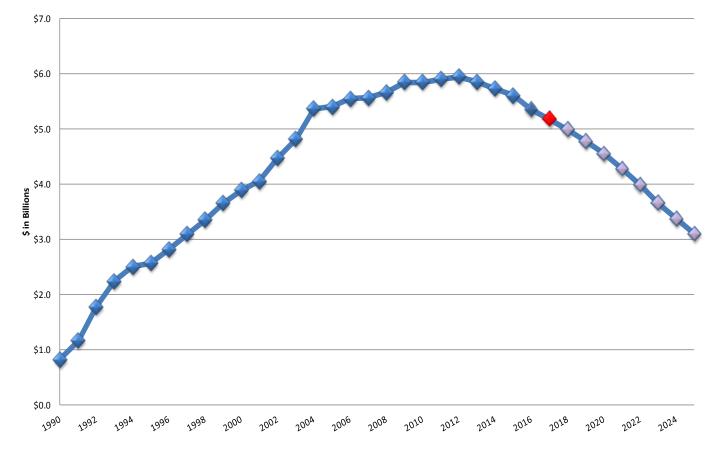
30



- Manage Debt;
- Continue to address major liabilities;
- Changing market conditions;
- Controlling expenses; and,
- System expansion

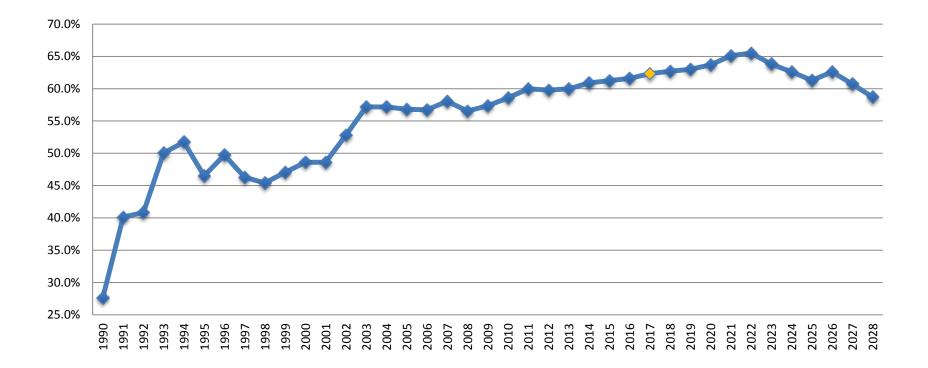


### Outstanding Debt History 1990 - 2025





# Debt Service as % of Total Budget





# Ways to address the Debt Service challenge

- Defeasance
- Use of Reserves
  - Rate Stabilization Fund
  - Bond Redemption Fund
- Tactical Issuance Repayment Structure
- Control Capital Spending
- Strategic use of Current Revenue/Capital funding



**CEB Budget Structure** 

- Direct Expenses
- Indirect Expenses
- Debt Service Expenses
- Non-Rate Revenue





Direct Expense Indirect Expense Debt Service Non-Rate Revenue

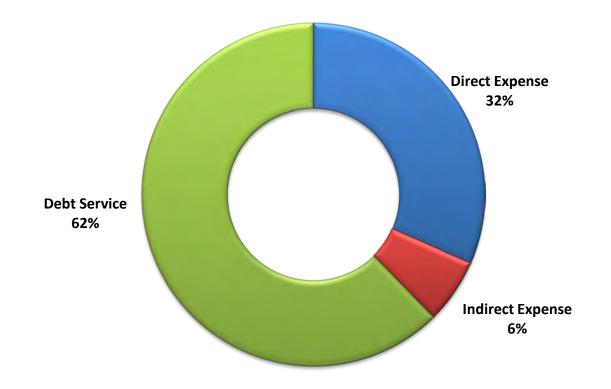
Rate Revenue Requirement

\$228.6 M \$44.2 M \$451.4 M (\$25.50) M \$698.7 M



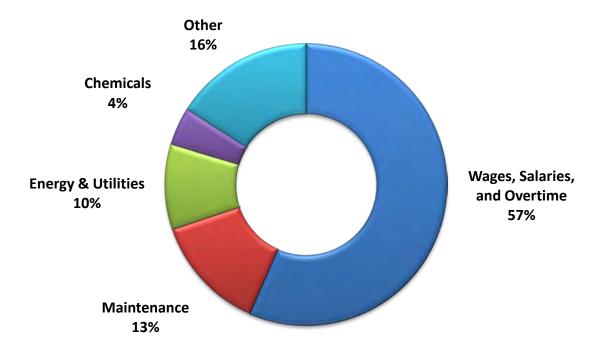
## **FY17** Proposed Current Expense Budget (CEB)

#### **FY17 Current Expense Budget**



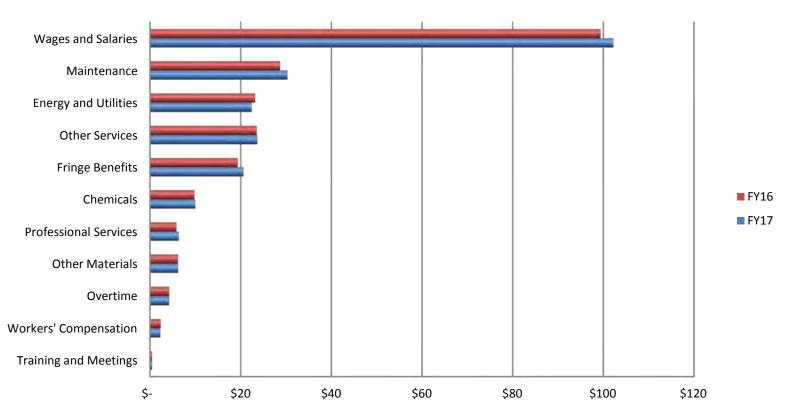


#### **Direct Expenses**





#### **Direct Expenses Comparison FY16 - FY17**



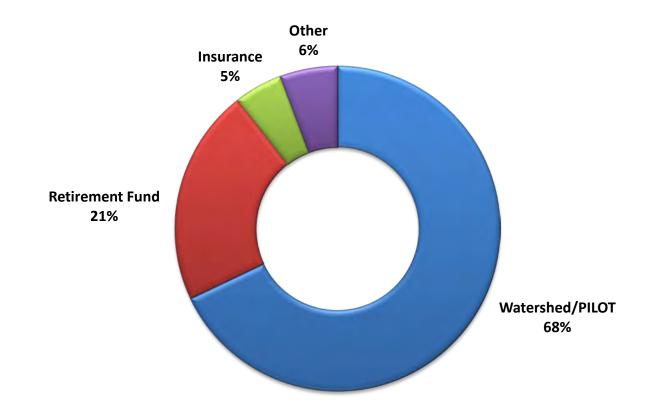
## FY17 Proposed Current Expense Budget (CEB)

# **Highlights – Direct Expenses**

- Wages and Salaries \$102.2M Budgeted FTE's: 1,155; 5 fewer than FY16;
- Maintenance \$30.3M \$1.6 million above FY16;
- Utilities \$22.4M \$747,000;
- Other Services \$23.7M basically level funded to FY16; and
- Fringe Benefits of \$20.6M \$1.3 million higher.

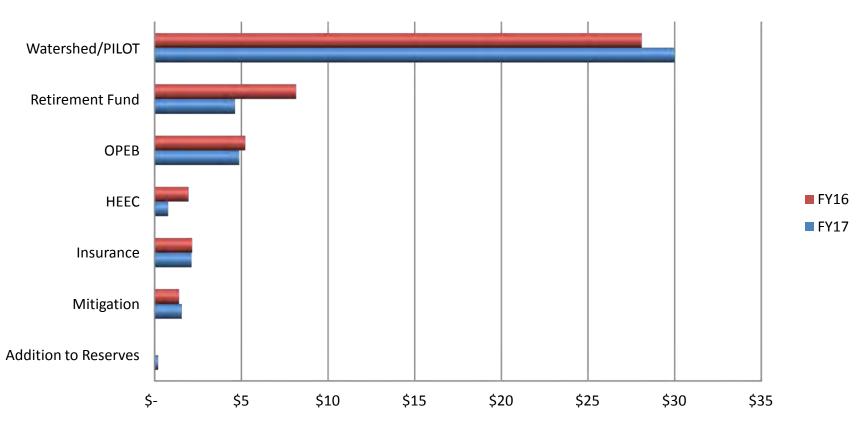


**Indirect Expenses** 





## Indirect Expenses Comparison



Indirect Expenses Comparison FY16 -FY17

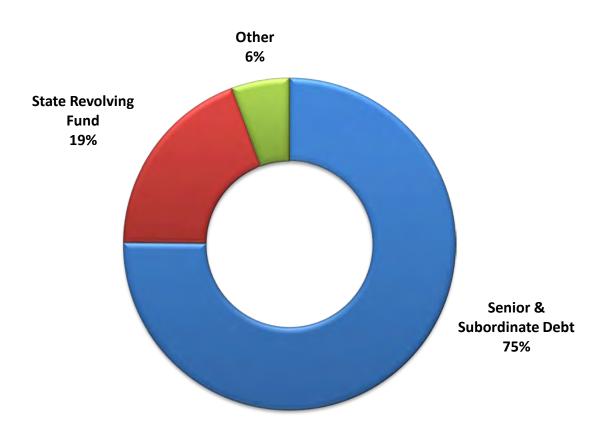


# **Highlights – Indirect Expenses**

- Watershed Program for operating, PILOT and debt \$30.0M;
- Pension Fund required contribution \$3.1M plus an additional \$1.5M contribution;
- OPEB \$4.9M;
- Insurance, level funded at \$2.2M;
- Mitigation \$1.6M; and
- HEEC contract \$0.8M.



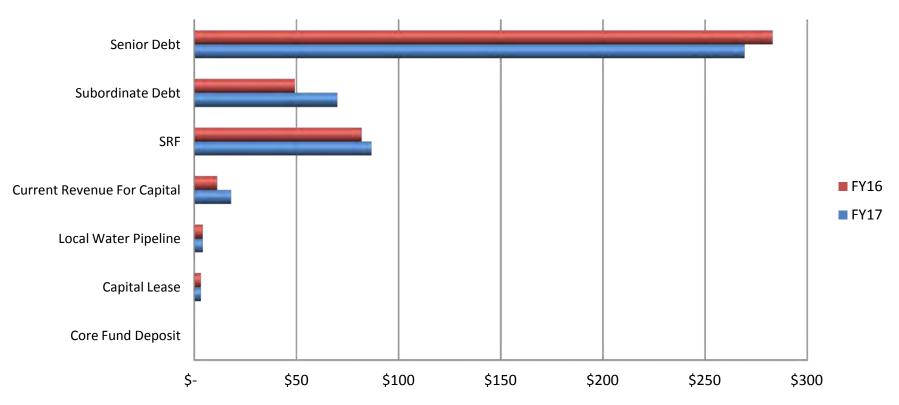
### **Debt Service Expenses**





### **Debt Service Expenses Comparison**







# **Highlights – Debt Service Expenses**

- Variable Rate Debt Assumption 3.25%;
- \$25M defeasance built into the FY17 Budget;
- Increase commitment to Current Revenue for Capital; and
- No Debt Service Assistance.



## Revenue

- Non-Rate Revenue
  - Other User Charges
  - Other Revenue
- Investment Income

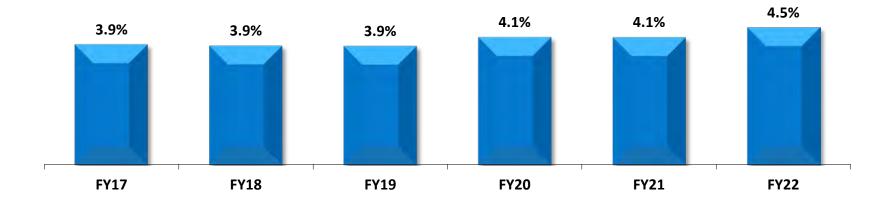


## Assumptions

- Direct Expenses Inflation
- Indirect Expenses Inflation
- Capital Spending Levels
- Variable and Fixed Debt Interest Rates
- Investment Income Interest Rates
- Level of Pension/OPEB Funding
- Use of Reserves



#### **Forecasted Assessment Changes**





- Transmit Proposed Budget to Advisory Board for 60 day review
- Reconvene Long-Term Rates Management Committee
- Public Hearings
- Staff will present Draft Final Budget in June