Massachusetts Water Resources Authority

Presentation to the

Wastewater Advisory Committee & Water Supply Citizens Advisory Committee

Fiscal Year 2015
Proposed

Capital Improvement and Current Expense Budget

Overviews

April 8, 2014



Agenda for CIP and CEB Budget Review

- MWRA an agency in Transition
 - An agency nearing steady-state
 - Debt Repayment
- Capital Improvement Program
 - FY13 Actual Results & FY14 Year to
 Date Results through February
 - FY15 Proposed CIP Overview
 - FY15 Proposed FY14-18 Cap
 Overview
 - FY14-18 Proposed Spending
 - FY14-18 Major Initiatives

- Current Expense Budget
 - FY13 Actual Results & FY14 Results through February
 - FY15 Proposed Overview
 - Expenses and Revenues
 - Rates Outlook



The FY15 Proposed Budgets:

- Presents the 2nd year of the five-year Cap which meets all Cap requirements;
- Continues to project the lowest five-year spending to date;
- Recommends a 3.6% combined rate increase;
- Reduces FY17 Assessments; and
- Continues to reduce outstanding debt levels;



FY15 Proposed CIP and CEB Budget Summaries

FY15 Proposed CEB (in millions)							
Rate Revenue Requirement	\$651.2	3.6% increase from FY14					
Direct Expenses Indirect Expenses Captial Financing (net)	\$218.2 \$47.8 \$417.3	Rate Revenue Investment Income Other Revenue	\$651.2 \$9.8 \$22.3				
Total Expenses	\$683.3	Total Revenue	\$683.3				

FY15 Proposed CIP

FY14-18 Base-Line Spending Cap \$791.7 million

FY14-18 Spending Cap (per FY15) \$787.1 million

FY15 Spending \$124.6 million



Fiscal Year 2013 Capital Improvement Program Year-End Results

Fiscal Year 2013 (000s)							
\$ in Millions	Budget	Actuals	\$ Var.	% Var.			
Wastewater System Improvements							
Interception & Pumping	6,435	1,931	-4,504	-70.0%			
Treatment	34,422	16,027	-18,394	-53.4%			
Residuals	595	380	-216	-36.2%			
CSO	28,058	35,431	7,374	26.3%			
Other	1,844	20,436	18,593	1008.3%			
Total Wastewater System Improvements	71,354	74,207	2,853	4.0%			
Waterworks System Improvements							
Drinking Water Quality Improvements	46,429	35,475	-10,953	-23.6%			
Transmission	17,634	17,170	-464	-2.6%			
Distribution & Pumping	9,317	4,426	-4,890	-52.5%			
Other	109	18,038	17,930	16485.6%			
Total Waterworks System Improvements	73,489	75,112	1,623	2.2%			
Business & Operations Support	11,094	5,208	-5,886	-53.0%			
Total MWRA	155,937	154,526	-1,410	-0.9%			

Spending through year-end totaled \$154.5 million which was \$1.4 million or 0.9% below budget. Spending without the Local Water Pipeline program and the Inflow and Infiltration (I/I) program, would have been \$38.1 million or 24.7% under budget.



The main reasons for FY13 underspending were:

- Wastewater Treatment of \$18.4 million mainly for delays for Electrical Equipment Upgrade Construction, Scum Skimmer Replacement, Miscellaneous VFD Replacements, Power System Improvements, Thermal/Power Plant Boiler Control, HVAC Equipment Replacement Design, Fire Alarm System Replacement Design, Sodium Hypochlorite Pipe Replacement Design. Expansion Joint repair Construction 2 and a variety of other projects.
- **Drinking Water Quality Improvements** of \$11.0 million mainly for lower than budgeted spending for Spot Pond due to project delays, Carroll Water Treatment Plant due to delays in CP7 Existing Facilities, Quabbin Water Treatment Plant due to schedule change and lower award value on Ultraviolet Disinfection Construction, and Blue Hills Covered Storage.
- **Business and Operations Support** of \$5.9 million mainly for lower spending on MIS projects of \$2.8 million due to timing of IT Strategic Plan implementation, Alternative Energy of \$2.6 million due to delay of Deer Island Phase 2 Wind Construction, lower than projected need for technical assistance, and lower Centralized Equipment Purchase of \$443,000 mainly due to timing of larger vehicle purchases.



- Water Distribution and Pumping of \$4.9 million mainly for lower spending on Northern Intermediate High primarily due to delay in award of Gillis Pump Station Improvements, Southern Spine Distribution Mains due to less than anticipated Section 21, 43, & 22 Design, Construction Administration, and Resident Inspection work, Weston Aqueduct Supply Mains due to schedule change for WASM3 Design/Construction Administration/Resident Inspection, Valve Replacement due to less than anticipated change orders, and net underspending on a variety of other projects.
- Wastewater Interception & Pumping of \$4.5 million mainly for Facility Asset Management Plan (FAMP) due to Prison Point CSO facility pump and gearboxes rebuilt project for schedule changes, Melrose Sewer repayment for past work budgeted in FY12 and received in FY13, Rehabilitation of Sections 186 and 4, DeLauri Pump Station Upgrades, Braintree-Weymouth Relief Facilities mainly due to delay in Wetlands Replication, Upper Neponset Valley Sewer System due to easement settlement being less than anticipated, and net underspending on other projects.

The underspending was offset by overspending for:

- Wastewater Other of \$18.6 million primarily due to Inflow and Infiltration (I/I) community requests for grants and loans being greater than budgeted.
- Water Other of \$17.9 million primarily due to community requests for Local Water Pipeline Improvement Loans being greater than budgeted.
- Combined Sewer Overflow (CSOs) of \$7.4 million primarily for Reserved Channel Sewer Separation due to contractors progress and Cambridge Sewer Separation for greater than anticipated award and progress offset by North Dorchester Bay due to schedule shift and lower than projected need and additional nominal underspending on other projects.



Fiscal Year 2014 Capital Improvement Program through February

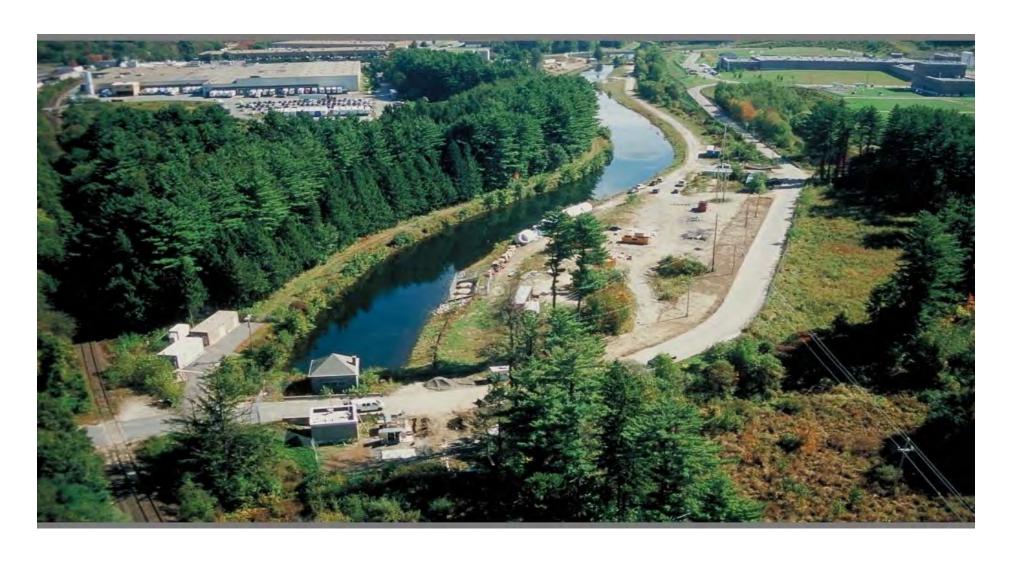
Fiscal Year 2014 thru February (000's)							
\$ in Millions	Budget	Actuals	\$ Var.	% Var.			
Wastewater System Improvements							
Interception & Pumping	4,801	3,477	-1,323	-27.6%			
Treatment	11,147	9,161	-1,985	-17.8%			
Residuals	231	115	-116	-50.1%			
CSO	16,083	6,484	-9,598	-59.7%			
Other	-471	4,534	5,006	-1063.3%			
Total Wastewater System Improvements	31,790	23,774	-8,014	-25.2%			
Waterworks System Improvements							
Drinking Water Quality Improvements	24,295	17,384	-6,910	-28.4%			
Transmission	4,425	3,573	-852	-19.3%			
Distribution & Pumping	6,478	2,935	-3,542	-54.7%			
Other	2,006	6,068	4,063	202.5%			
Total Waterworks System Improvements	37,204	29,960	-7,243	-19.5%			
Business & Operations Support	4,316	3,123	-1,192	-27.6%			
Total MWRA	73,309	56,859	-16,450	-22.4%			

Spending through February totaled \$56.9 million which is \$16.4 million or 22.4% under budget. Spending without the Local Water Pipeline program and the Inflow and Infiltration (I/I) program, would have been \$20.6 million or 28.7% under budget.



Massachusetts Water Resources Authority

Fiscal Year 2015 Proposed Capital Improvement Program



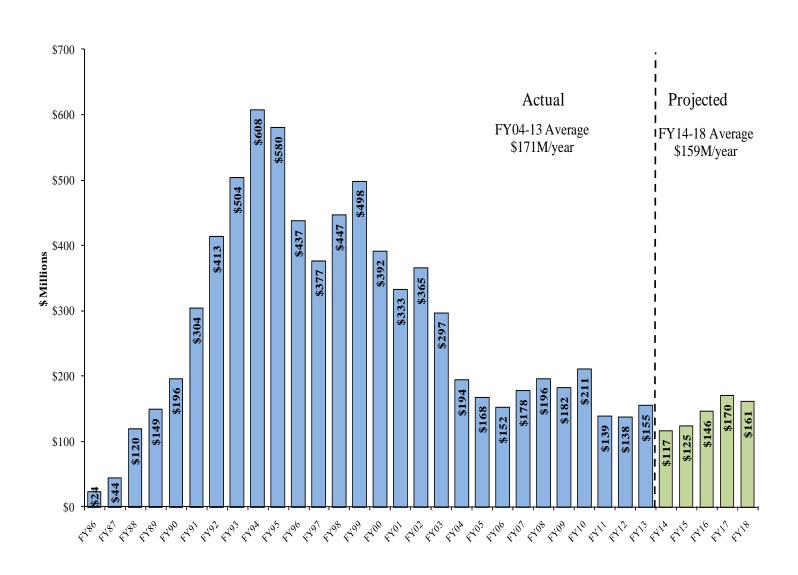


FY15 Community Assistance Program – Inflow & Infiltration

- No additional I/I funding;
- Advisory Board Operations Committee recently voted on two additional phases;
- FY15 Final CIP will include additional funding;
- Will likely have Cap implications; and
- Will consider exempting the Community Financial Assistance Programs from the Cap.

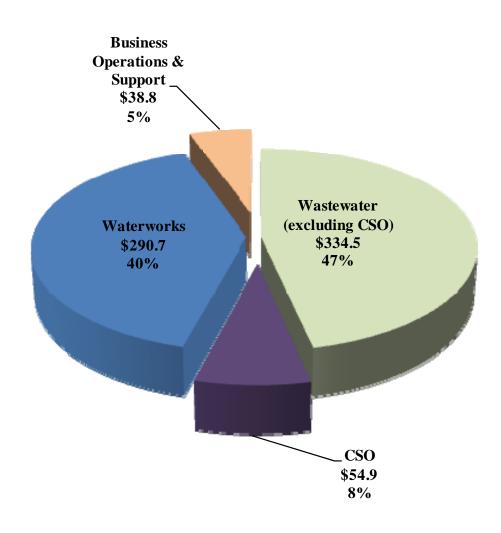


Historical and Projected CIP Spending



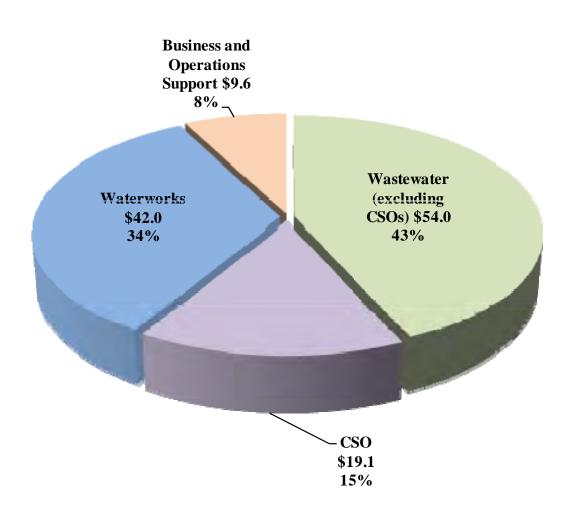


FY14-18 Proposed CIP Expenditures by Major Programs





FY15 Proposed CIP Expenditures by Major Programs



FY15 Big Spenders

	FY15 Planned		
	Spending		
DI Treatment Plant Asset Protection	\$	39.5	
Long-Term Redundancy		14.8	
Facility Asset Protection	-	12.7	
Cambridge Sewer Separation		11.9	
Spot Pond Storage Facility		8.3	
Carroll Water Treatment Plant		8.1	
Weston Aqueduct Supply Mains		3.9	
Dorchester Bay Sewer Separation (Commercial Point)		3.8	
Equipment Purchase		2.7	
Applications Improvement Program		2.3	
Top 10 Spending in FY15	\$	108.0	
FY15 Spending	\$	124.6	

The top ten projects account for 86.7% of FY15 planned spending.



Capital Improvement Program – Shift from Mandated Projects

Approximately 80% of the spending to date has been for mandated projects, most notably the Combined Sewer Overflow (CSO) program.

Having nearly completed the first phase of its mission, the Authority now must preserve it operating assets and establish redundancy to ensure continuous operations.

Going forward the majority of spending will support the following:

Asset Protection

Water Redundancy

Pipeline Replacement and Rehabilitation

Energy Initiatives



Capital Improvement Program – Shift from Mandated Projects

	Tota	al Contract	F	Y09-13	F	Y14-18	Be	yond 18
Asset Protection	\$	1,934.3	\$	250.6	\$	384.2	\$	664.1
Carroll WTP	\$	432.3	\$	39.1	\$	20.4	\$	0.1
Water Redundancy	\$	1,853.6	\$	141.2	\$	243.5	\$	606.2
CSO	\$	842.3	\$	315.7	\$	28.8	\$	0.3
Other	\$	535.5	\$	85.8	\$	55.1	\$	(100.1)
Total	\$	5,598.0	\$	832.5	\$	732.0	\$	1,170.6

Asset Protection	34.6%	30.1%	52.5%	56.7%
Carroll WTP	7.7%	4.7%	2.8%	0.0%
Water Redundancy	33.1%	17.0%	33.3%	51.8%
CSO	15.0%	37.9%	3.9%	0.0%
Other	9.6%	10.3%	7.5%	-8.5%
Total	100.0%	100.0%	100.0%	100.0%

Striking a balance between maintenance and infrastructure improvements



On-Going Capital Projects



Deer Island Asset Protection





Deer Island: Scum Skimmer Replacement

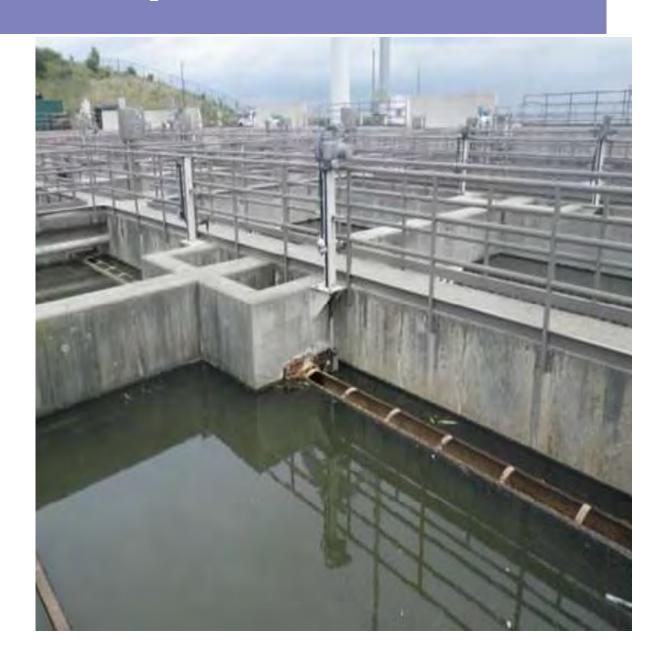
NTP: October 2013

SC: October 2016

Total Contract: \$20.2M

FY14-18 Spending: \$20.2M

FY15 Spending: \$6.7M







NTP: December 2011

SC: March 2016

Total Contract: \$24.3M

FY14-18 Spending: \$17.7M

FY15 Spending: \$ 3.2M



North Main Pump Station and Winthrop Terminal Facility Butterfly Valve Replacements



Total Contract: \$14.6M

FY14-18 Spending: \$14.6M

FY15 Spending: \$ 4.9M

NTP: May 2014

SC: May 2016





Deer Island Electrical Upgrades - Construction 4

NTP: May 2013

SC: May 2016

Total Contract: \$10.9M

FY14-18 Spending: \$10.9M

FY15 Spending: \$ 3.9M







Carroll Water Treatment Plant UV



Total Contract: \$32.0M

Spending thru FY13: \$29.2M

FY14-18 Spending: \$2.8M

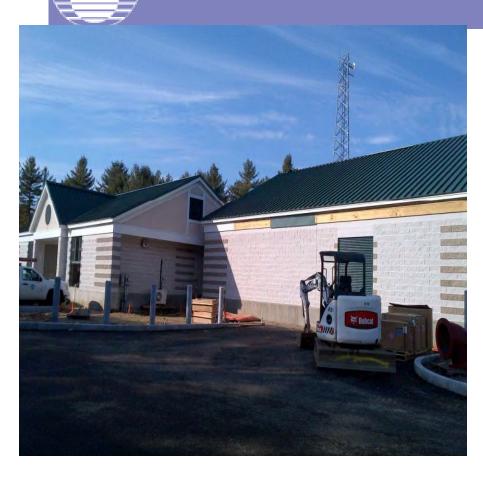
FY15 Spending: \$0.1M

NTP: May 2011

SC: March 2014



Quabbin Ultraviolet Disinfection Project



Total Contract: \$5.7M

FY14-18 Spending: \$4.0M

FY15 Spending: \$0.0M NTP: January 2013

SC: August 2014





Spot Pond Covered Storage Facility and Pump Station

NTP: November 2011

SC: November 2014





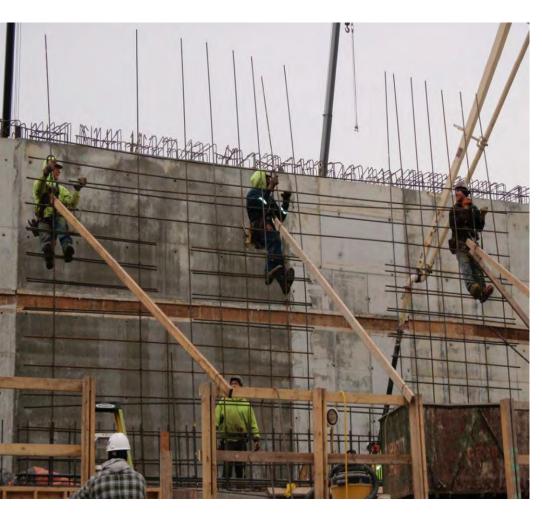
Total Contract: \$50.0M

FY14-18 Spending: \$32.4M

FY15 Spending: \$ 7.2M



Spot Pond Covered Storage Facility and Pump Station







Cambridge Sewer Separation - Construction



Total Contract: \$61.7M

FY14-18 Spending: \$32.5M

FY15 Spending: \$8.9M

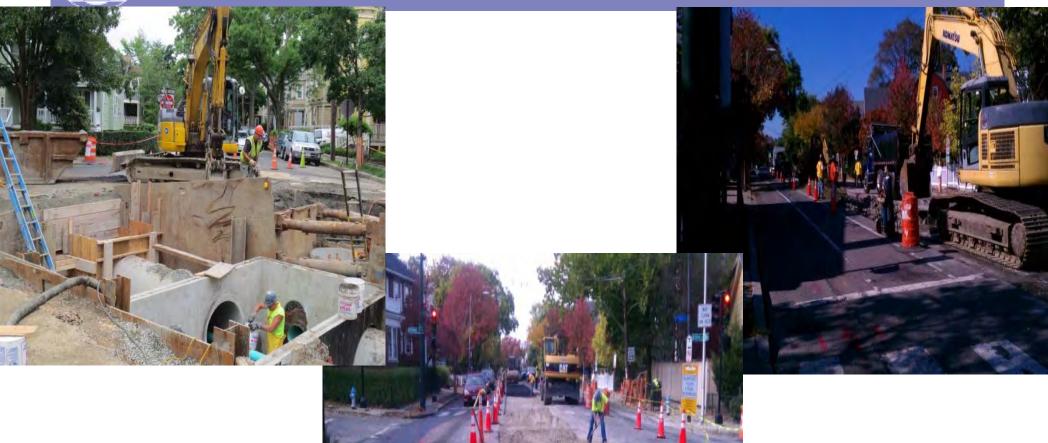
NTP: July 1998

SC: December 2015





Cambridge Sewer Separation - Construction



Drain Vault #1 Vassal Lane

Track removal along Concord Ave



Alewife Brook Pump Station Rehabilitation

NTP: January 2015

SC: May 2017





Total Contract: \$9.3M

Fy14-18 Spending: \$9.3M

FY15 Spending: \$2.1M



Upcoming Capital Projects



Chelsea Headworks Rehabilitation

Design

NTP: July 2010

SC: December 2019

Total Contract: \$7.9M

FY14-18 Spending: \$4.2M

FY15 Spending: \$0.1M





Construction

NTP: July 2015

SC: December 2018

Total Contract: \$53.7M

FY14-18 Spending: \$42.2M

FY15 Spending: \$0.0M



Wachusett Aqueduct Pump Station

NTP: August 2014

SC: January 2017



Total Contract: \$47.0M

FY14-18 Spending: \$47.0M

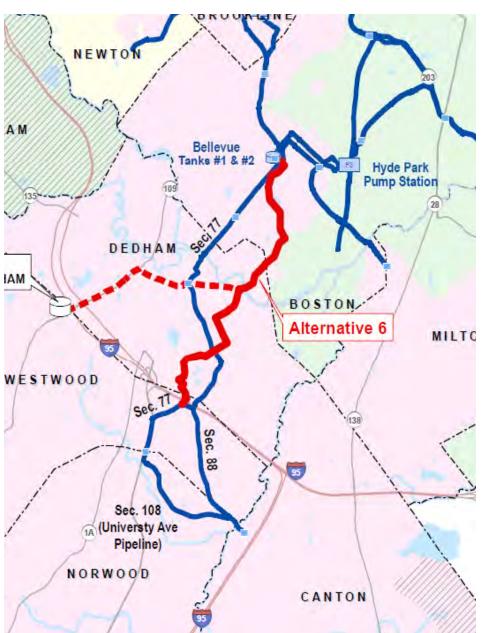
FY15 Spending: \$12.5M



Southern Extra High Redundancy – Section 111

NTP: August 2016

SC: June 2020



Total Contract: \$29.2M

FY14-18 Spending: \$16.7M

FY15 Spending: \$0.0M

Clinton Treatment Plant Phosphorous Removal



NTP: December 2013

SC: August 2017

Total Contract: \$6.9M

FY14-18 Spending: \$6.9M

FY15 Spending: \$0.3M

HIGH STREET

- Residual Processing/Asset Management;
- Sudbury Aqueduct tunnel vs. surface pipeline;
- Chelsea Creek Headworks Rehabilitation; and
- New regulatory mandates.



Massachusetts Water Resources Authority

MWRA Fiscal Year 2015

Proposed

Current Expense Budget



Fiscal Year 2013 Current Expense Budget Year-End Results

	Fiscal Year 2013	(000s)		
Expenses	Budget	Actual	Variance	%
Direct Expenses	\$214,916	\$208,607	-\$6,310	-2.9%
Indirect Expenses	\$45,693	\$45,124	-\$569	-1.2%
Debt Service	\$375,248	\$380,244	\$4,996	1.3%
TOTAL EXPENSES	\$635,857	\$633,976	-\$1,879	-0.3%
TOTAL REVENUE	\$635,857	\$636,983	\$1,127	0.2%
REVENUE LESS EXPENSES	\$0	\$3,008	\$3,008	

- Lower Direct Expense of \$6.3 million reflects lower spending on Wages and Salaries, Other Services, Maintenance, and Professional Services.
- The debt service of \$380.2 million includes \$25.4 million defeasance.
- Year-End Surplus of \$3.0 million, after the \$25.4 million FY13 Defeasance funded primarily from favorable interest rates. This defeasance provides targeted relief in FY15 and FY16.



Fiscal Year 2014 Current Expense Budget through February

Fiscal Yo	ear 2014 year-to	o-date February (000s)	
Expenses	Budget	Actual	Variance	%
Direct Expenses	\$136,988	\$136,664	-\$324	-0.2%
Indirect Expenses	\$35,563	\$35,081	-\$482	-1.4%
Debt Service	\$263,454	\$263,454	\$0	0.0%
TOTAL EXPENSES	\$436,004	\$435,198	-\$806	-0.2%
TOTAL REVENUE	\$443,894	\$445,583	\$1,689	0.4%
REVENUE LESS EXPENSES	\$7,890	\$10,386	\$2,496	

- Direct Expense underspending is due to lower wages and salaries, other services, fringe benefits, workers' compensation, professional services, and utilities.
- Indirect Expense underspending is mainly due to lower insurance claims.
- Debt Service is at budgeted levels after transferring year-to-date favorable variable rate debt savings of \$8.6 million into the Defeasance Account.

Fiscal Year	r 2014 CEB yea	r-end projection	(000s)	
Expenses	Budget	Projection	Variance	%
Direct Expenses	\$214,374	\$211,955	-\$2,420	-1.1%
Indirect Expenses	\$46,823	\$46,080	-\$743	-1.6%
Debt Service	\$397,226	\$397,226	\$0	0.0%
TOTAL EXPENSES	\$658,423	\$655,261	-\$3,162	-0.5%
TOTAL REVENUE	\$658,423	\$658,923	\$500	0.1%
REVENUE LESS EXPENSES	\$ -	\$3,663	\$3,663	

The defeasance account is projected to reach \$16.5 million by year-end.

FY14 CEB Year-End Projection

- Overall, year-end surplus of \$3.7 million projected.
- Lower Direct Expenses of \$2.4 million mainly for lower Wages and Salaries due to lower headcount.
- Lower Indirect Expenses of \$743,000 primarily due to lower insurance claims and Watershed expenses.



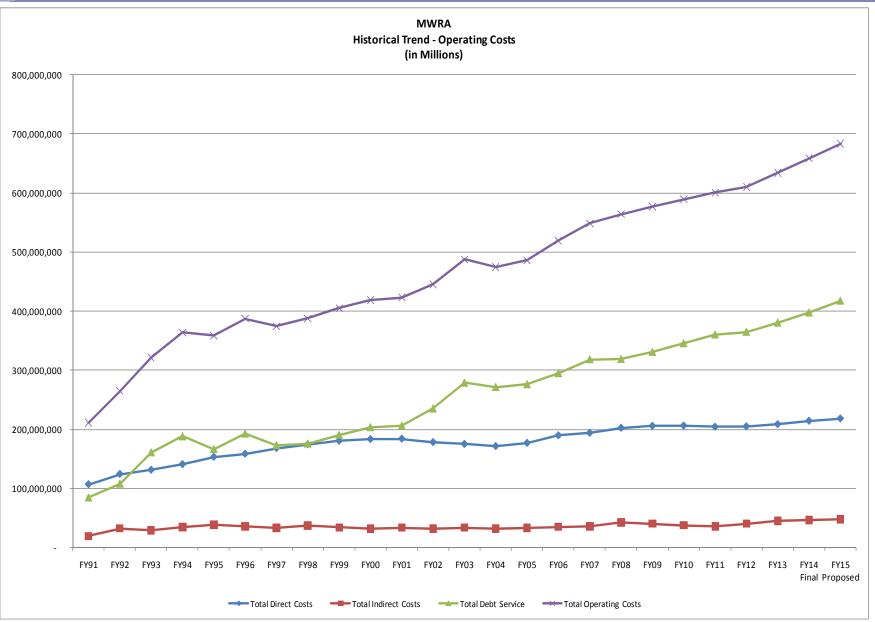
The FY15 Proposed CEB:

- The MWRA employs a multi-year rates management strategy of providing predictable and reasonable rate increases to our member communities.
- The FY15 Proposed Budget puts forth a 3.6% combined rate increase, consistent with the FY14 planning estimates.
- Partially addresses the significant assessment increase projected for FY17.

- Support the core operations and ensure meeting the operating permits;
- Holistic approach to addressing liabilities;
- Continue the Authority's long standing multi-year assessment strategy; and
- Continued debt reduction from current \$5.7 billion level.

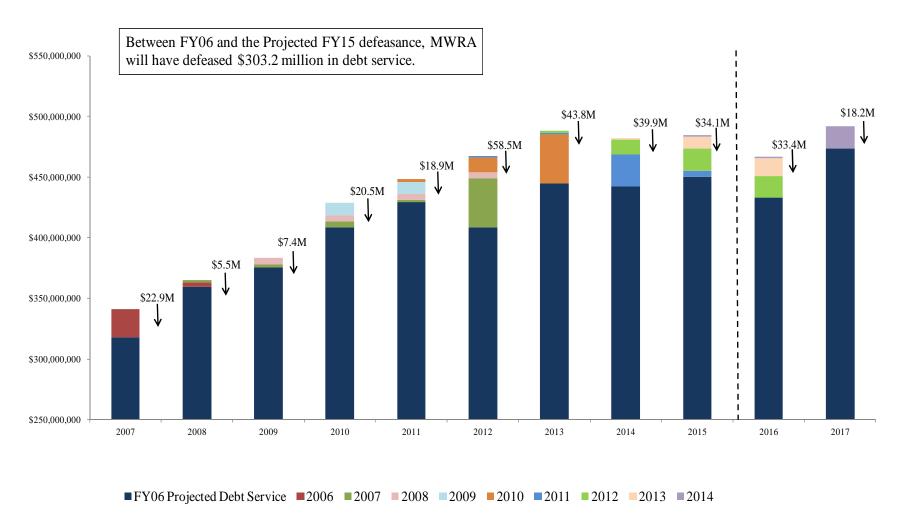
- Continued conservative fiscal management;
- Management of all expenses, with focus on controlling costs;
- Recognition of the changing nature of the capital program; and
- Targeted used of defeasance funding.

Historical Spending Chart





Impact of the FY06 - Projected FY15 Defeasances



Since FY06, MWRA has used defeasances to reduce future years debt service by \$303.2M

- Continuation of defeasance account.
- FY14 Projected surplus of \$20.0 million is imbedded in the FY15 Proposed Budget.
- The FY14 defeasance is targeting FY17.



Use of Reserves in Long-Term Rates Management Strategy

The MWRA has a total of \$69.4 million in Rate Stabilization and Bond Redemption funds.

\$36.5 million in Rate Stabilization

\$32.9 million in Bond Redemption Fund

Fiscal Year	Rate	Bond	Total Reserve	Total Reserve
riscai Teai	Stabilization	Redemption	Impact	Balance
		1	1	69,366
2015	7,862	1,300	9,162	60,204
2016	9,559	2,441	12,000	48,204
2017	6,217	5,783	12,000	36,204
2018	10,688	1,312	12,000	24,204
2019	-	204	204	24,000
2020	2,187	9,813	12,000	12,000
2021	-	-	-	12,000
2022	_	12,000	12,000	-
2023	-	-	-	-
2024	-	-	-	-
TOTAL	\$ 36,513	\$ 32,853	\$ 69,366	

FY15 Major Budget Assumptions

- Headcount remains level funded at 1,175 positions;
- Use of \$7.9 million use of Rate Stabilization funds;
- Use of \$1.3 million in Bond Redemption funds; \$2.8 million lower than projected.
- Over \$790,000 of debt service savings in FY15 & FY16 from a proposed \$20 million defeasance in FY14 targeting FY17;

FY15 Major Budget Assumptions (continued)

- Variable rate debt budgeted at 3.25% same level as FY14;
- Investment Income budgeted at .20% same level as FY14;
- Pension Funding Required Contribution based on latest actuarial evaluation funded at \$7.8 million;
- Inclusion of \$4.8 million additional pension deposit; and
- No Debt Service Assistance.

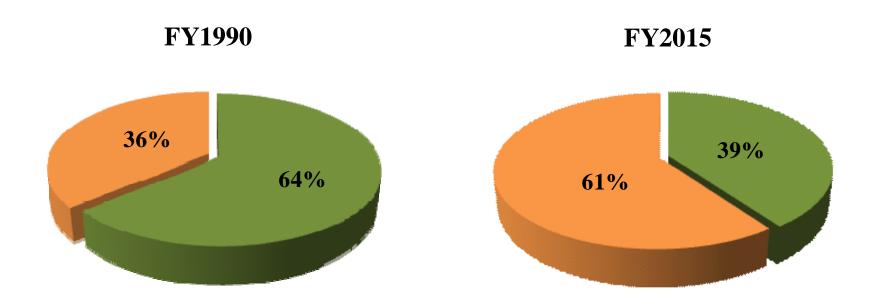
FY15 Proposed CEB

As shown below, 61% of the Authority's FY15 CEB is related to its debt obligations.

	F	Y15 Proposed	% of Total
		Budget	Budget
Direct Expenses	\$	218,220,990	32%
Indirect Expenses	\$	47,765,268	7%
Total Debt Service (after offsets)	\$	417,305,411	61%
Total Expense	\$	683,291,669	
Rate Revenue	\$	651,169,443	95%
Non-Rate Revenue	\$	32,122,226	5%
Total Revenue	\$	683,291,669	



Debt Service Is The Largest Driver of Rate Increases



■ Direct and Indirect Expenses ■ Debt

Debt Service is anticipated to increase to 64% by FY22.



FY15 Proposed CEB – Direct Expenses

Direct Expenses	FY14	FY	15 Proposed	\$	%
\$ in Millions	Budget		Budget	Change	Change
Wages and Salaries	\$ 94.9	\$	96.8	\$ 1.9	2.0%
Overtime	3.6		3.6	0.0	1.1%
Fringe Benefits	18.1		18.5	0.5	2.6%
Workers' Compensation	2.0		2.2	0.2	10.0%
Chemicals	10.7		10.7	(0.0)	0.0%
Energy and Utilities	22.8		23.4	0.6	2.6%
Maintenance	27.8		28.0	0.3	1.0%
Training and Meetings	0.3		0.4	0.0	9.1%
Professional Services	6.1		6.1	0.1	1.0%
Other Materials	6.0		5.9	(0.1)	-1.4%
Other Services	22.3		22.6	0.4	1.6%
TOTAL DIRECT EXPENSES	\$ 214.4	\$	218.2	\$ 3.8	1.8%

FY15 Direct Expenses

Direct Expenses are \$218.2 million, an increase of \$3.8 million or 1.8%.

- Increased Wages and Salaries of \$1.9 million;
- Increased Utilities of \$590,000 for higher electricity pricing and increased diesel usage;
- Increased Fringe Benefits of \$476,000 for health insurance;
- Increased Other Services of \$353,000 for higher Sludge Pelletization inflation indices and Space/Lease Rentals; and
- Increased Maintenance of \$275,000.

FY15 Proposed CEB – Indirect Expenses

Indirect Expenses	EV1	4 Budget	FY	15 Proposed	\$	%
\$ in Millions	r I I	+ Duuget		Budget	Change	Change
Insurance	\$	2.1	\$	2.1	\$ 0.0	1.6%
Watershed/PILOT		27.2		27.5	0.3	1.2%
HEEC		3.3		3.2	(0.1)	-4.4%
Mitigation		1.6		1.6	0.0	2.5%
Addition to Reserves		0.2		0.7	0.5	290.8%
Retirement Fund		7.5		7.8	0.4	4.7%
OPEB/Additional Pension Deposit		5.0		4.8	(0.2)	-3.1%
TOTAL	\$	46.8	\$	47.8	\$ 0.9	2.0%

Indirect Expenses increased \$972,000 or 2.0%.

- Addition to Reserves of \$492,000;
- Increased Required Pension Fund contribution of \$353,000; and
- Higher Watershed expenses of \$327,000.

FY15 Proposed CEB – Debt Service Expenses

Debt Service	E,	Y14 Budget	FY	15 Proposed	\$	%
\$ in Millions	Г	114 Duuget		Budget	Change	Change
Total Debt Service (before offsets)	\$	397.2	\$	418.6	\$ 21.4	5.4%
Bond Redemption		-		(1.3)	(1.3)	-
Debt Service Assistance		-		-	-	-
TOTAL	\$	397.2	\$	417.3	\$ 20.1	5.1%

Massachusetts Water Resources Authority Proposed \$20 million Defeasance*

			De	ebt Service Sa	vings
	Dom	Defeasance			
	Par	Cost	2015	2016	2017
Total Senior Candidates	\$ 17,550,000	\$ 19,924,650	\$ 791,550	\$ 791,550	\$ 18,341,550
Total Subordinated Candidates	\$ -	\$ -	\$ -	\$ -	\$ -
Total Defeasance Candidates	\$ 17,550,000	\$ 19,924,650	\$ 791,550	\$ 791,550	\$ 18,341,550

^{*}Pending Board approval in coming month.

FY15 Proposed CEB - Revenue

Revenue	EV1	1 Dudget	F	Y15 Proposed	\$	%
Nevelue		4 Budget		Budget	Change	Change
Rate Revenue	\$	628.7	\$	651.2	\$ 22.4	3.6%
Other User Charges		8.1		8.3	0.1	1.6%
Other Revenue		6.4		6.2	(0.2)	-3.8%
Rate Stabilization		3.5		7.9	4.4	
Investment Income		11.6		9.8	(1.8)	-15.7%
TOTAL	\$	658.4	\$	683.3	\$ 24.9	3.8%



MWRA PLANNING ESTIMATES

Final FY14 Budget

		F	Y2014	F	Y2015	I	FY2016]	FY2017	I	FY2018	F	FY2019]	FY2020	F	Y2021	F	FY2022	J	FY2023	J	FY2024
	Direct Expenses (\$ in Mil)	\$	214,374	\$	220,466	\$	226,613	\$	233,113	\$	239,490	\$	246,197	\$	252,762	\$	259,461	\$	266,034	\$	273,293	\$	280,751
	Indirect Expenses (\$ in Mil)	\$	46,823	\$	49,959	\$	49,543	\$	50,193	\$	52,604	\$	54,023	\$	55,412	\$	56,913	\$	59,681	\$	55,775	\$	57,460
	Capital Expenses (\$ in Mil)	\$	397,226	\$	417,519	\$	440,460	\$	491,778	\$	495,445	\$	506,895	\$	561,341	\$	560,066	\$	590,687	\$	545,427	\$	522,103
3.6%	Total Rate Revenue (\$ in Mil)	\$	628,721	\$	651,551	\$	678,509	\$	736,413	\$	755,600	\$	775,286	\$	829,570	\$	847,999	\$	875,457	\$	845,784	\$	831,337
	Rate Revenue Change (\$ in Mil)	\$	21,209	\$	22,830	\$	26,959	\$	57,904	\$	19,187	\$	19,686	\$	54,284	\$	18,429	\$	27,458	\$	(29,673)	\$	(14,447)
	Rate Revenue Change		3.49%		3.6%		4.1%		8.5%		2.6%		2.6%		7.0%		2.2%		3.2%	<u></u>	-3.4%	L	-1.7%
	Use of Rate Stabilization & Bond Redemption	\$	3,500	\$	12,000	\$	12,000	\$	12,000	\$	4,900	\$	4,466	\$	12,000	\$	-	\$	12,000	\$	-	\$	-
	Rate Stabilization & Bond Redemption Balance	\$	69,366	\$	57,366	\$	45,366	\$	33,366	\$	28,466	\$	24,000	\$	12,000	\$	12,000	\$	(0)	\$	(0)	\$	(0)

Proposed FY15 Budget

		F	Y2014	F	FY2015]	FY2016	FY2017	1	FY2018	I	FY2019]	FY2020	F	Y2021	I	FY2022	J	FY2023	J	FY2024
	Direct Expenses (\$ in Mil)	\$	214,374	\$	218,221	\$	224,533	\$ 230,768	\$	237,195	\$	243,799	\$	250,333	\$	257,122	\$	263,641	\$	270,831	\$	278,217
	Indirect Expenses (\$ in Mil)	\$	46,823	\$	47,765	\$	47,943	\$ 49,141	\$	51,582	\$	53,070	\$	54,574	\$	56,209	\$	59,035	\$	55,264	\$	57,095
	Capital Expenses (\$ in Mil)	\$	397,226	\$	418,605	\$	442,647	\$ 475,550	\$	500,650	\$	514,275	\$	569,759	\$	569,588	\$	601,097	\$	556,463	\$	533,795
3.6%	Total Rate Revenue (\$ in Mil)	\$	628,721	\$	651,169	\$	679,107	\$ 719,981	\$	751,330	\$	782,068	\$	833,175	\$	852,786	\$	881,132	\$	851,963	\$	838,217
	Rate Revenue Change (\$ in Mil)	\$	21,209	\$	22,448	\$	27,938	\$ 40,874	\$	31,348	\$	30,738	\$	51,108	\$	19,611	\$	28,346	\$	(29,169)	\$	(13,746)
	Rate Revenue Change		3.49%		3.6%		4.3%	6.0%		4.4%		4.1%		6.5%		2.4%	<u>L</u>	3.3%		-3.3%	<u>L</u>	-1.6%
	Use of Rate Stabilization & Bond Redemption	\$	3,500	\$	9,162	\$	12,000	\$ 12,000	\$	12,000	\$	204	\$	12,000	\$	-	\$	12,000	\$	-	\$	-
	Rate Stabilization & Bond Redemption Balance	\$	69,366	\$	60,204	\$	48,204	\$ 36,204	\$	24,204	\$	24,000	\$	12,000	\$	12,000	\$	(0)	\$	(0)	\$	(0)

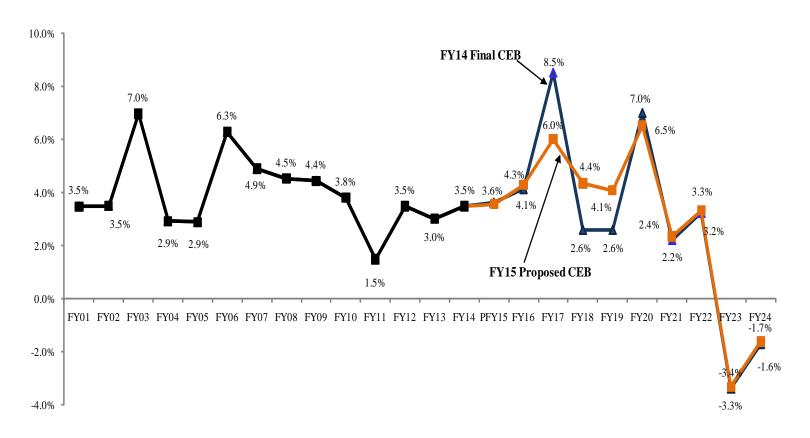
Change

	FY	2014	F	Y2015	FY2	2016]	FY2017	F	Y2018	I	FY2019]	FY2020	F	Y2021]	FY2022	F	Y2023]	FY2024
Direct Expenses (\$ in Mil)	\$	-	\$	(2,245)	\$	(2,080)	\$	(2,346)	\$	(2,295)	\$	(2,398)	\$	(2,429)	\$	(2,339)	\$	(2,392)	\$	(2,462)	\$	(2,534)
Indirect Expenses (\$ in Mil)	\$	-	\$	(2,194)	\$	(1,600)	\$	(1,052)	\$	(1,022)	\$	(953)	\$	(838)	\$	(704)	\$	(647)	\$	(511)	\$	(365)
Capital Expenses (\$ in Mil)	\$	-	\$	1,086	\$	2,187	\$	(16,228)	\$	5,205	\$	7,380	\$	8,418	\$	9,521	\$	10,411	\$	11,037	\$	11,692
Total Rate Revenue (\$ in Mil)	\$	-	\$	(381)	\$	598	\$	(16,432)	\$	(4,271)	\$	6,781	\$	3,605	\$	4,787	\$	5,675	\$	6,179	\$	6,880
Rate Revenue Change (\$ in Mil)	\$	-	\$	(381)	\$	979	\$	(17,030)	\$	12,161	\$	11,052	\$	(3,176)	\$	1,182	\$	888	\$	504	\$	701
Rate Revenue Change		0.0%		-0.1%		0.2%		-2.5%		1.7%		1.5%		-0.5%		0.1%		0.1%		0.1%		0.1%
Use of Rate Stabilization & Bond Redemption	\$	-	\$	(2,838)	\$	(0)	\$	0	\$	7,100	\$	(4,262)	\$	0	\$	-	\$	(0)	\$	-	\$	-
Rate Stabilization & Bond Redemption Balanc	\$	_	\$	2,838	\$	2,838	\$	2,838	\$	(4,262)	\$	(0)	\$	(0)	\$	(0)	\$	(0)	\$	(0)	\$	(0)

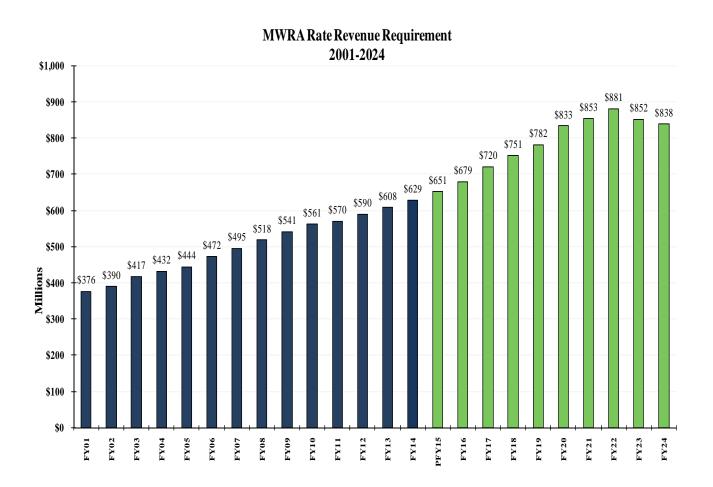


Longer Range View (continued)

Rate Revenue Requirement Increases FY14 Final CEB vs. FY15 Proposed CEB



FY01-24 Rate Revenue Requirement

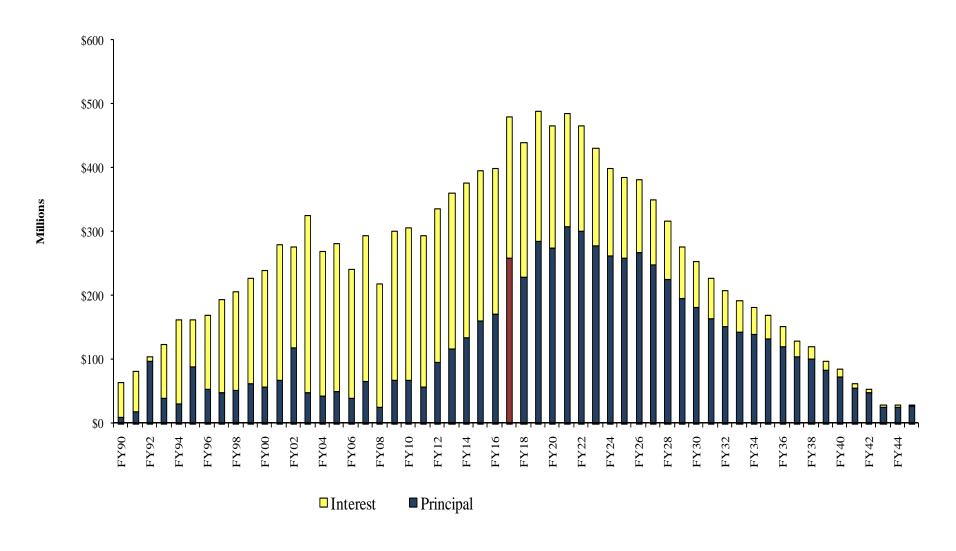


FY15-FY24 average yearly Rate Revenue Requirement increase is \$21.0M



Paying More Principal than Interest

MWRA Principal and Interest Payment History and Projections





FY06-15 Assessment Increases vs. Household Wholesale Rate Increases

Historical Household Wholesale rate increase based on annual average water use of 61,000 gallons

Fiscal Year	MWRA Assessment	Household \$ Increase					
T Bour Tour	Change						
FY06	4.2%	\$19					
FY07	4.9%	\$20					
FY08	4.5%	\$22					
FY09	4.5%	\$16					
FY10	3.8%	\$10					
FY11	1.5%	\$5					
FY12	3.5%	\$12					
FY13	3.0%	\$14					
FY14	3.5%	\$14					
PFY15	3.6%	\$15					
Average FY06-15	3.7%	\$15					

Challenges

- 1. Short-term interest rate market conditions;
- 2. Regulatory requirements;
- 3. Pension and OPEB obligations;
- 4. Uncertainty of Health Insurance premiums;
- 5. Limited system expansion opportunities;
- 6. Continued prioritization of CIP projects;
- 7. Inflationary pressures as economy improves; and
- 8. Availability of Debt Service Assistance.



FY15 Proposed CIP and CEB Budget Summaries

QUESTIONS?