

City of Newton Utilities Enterprise Fund

FISCAL YEAR 2014 WATER AND SEWER RATES PRESENTATION

May 6, 2013

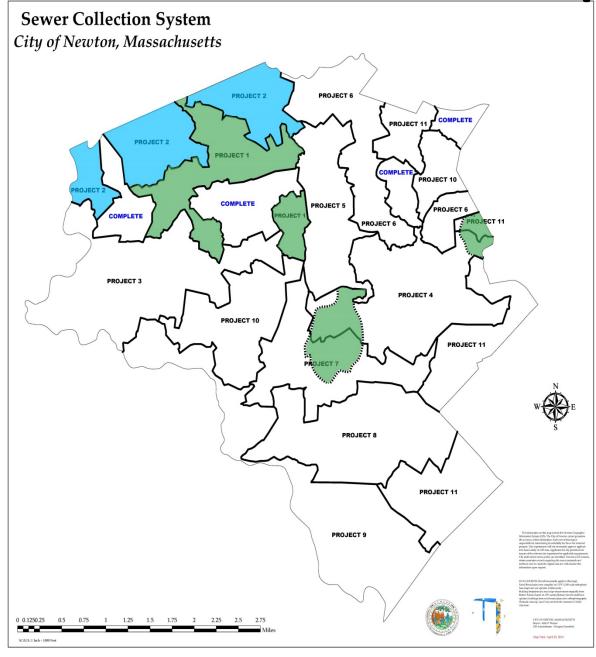
Presentation Agenda

FY13 Accomplishments

Investing in the Future

Proposed FY14 Rates

FY13 Sewer Accomplishments



PROJECT AREA 1; CRYSTAL LAKE; NCGC
ASSESSMENT/INVESTIGATION COMPLETE
CONSTRUCTION COMPLETION MARCH 2014

PROJECT AREA 2: ASSESSMENT/INVESTIGATION BY OCTOBER 2013 CONSTRUCTION TO BEGIN APRIL 2014

FY13 Sewer Accomplishments

Massachusetts Water Resources Authority

Preliminary FY14 Sewer Assessments

	Final FY13 Sewer Assessment	Preliminary FY14 Sewer Assessment	Percent Change from FY13	ollar Change from FY13
NEWTON	19,917,866	20,146,020	1.1%	\$ 228,154
AVERAGE MWRA Fully Served Sewer Customers	\$301,300,473	\$314,157,900	4.3%	
NEWTON (MWRA average)	19,917,866	20,774,334	4.3%	\$ 856.468
PROJECTED SAVINGS				\$ 628,314

<u>MWRA Preliminary Sewer Assessment</u> below system-wide average

FY13 Water Accomplishments

Replacement and cleaning and lining cast iron water mains to be completed in FY13

Lowell Ave





- Clean & line 19,800 If of cast iron mains.
- Replace 5,430 If of undersized water mains.

FY13 Stormwater Accomplishments

Reconstruction of Cheesecake Brook walls at end of Albermarle Road (near Charles River)





FY13 Stormwater Accomplishments

City Hall Pond dredging



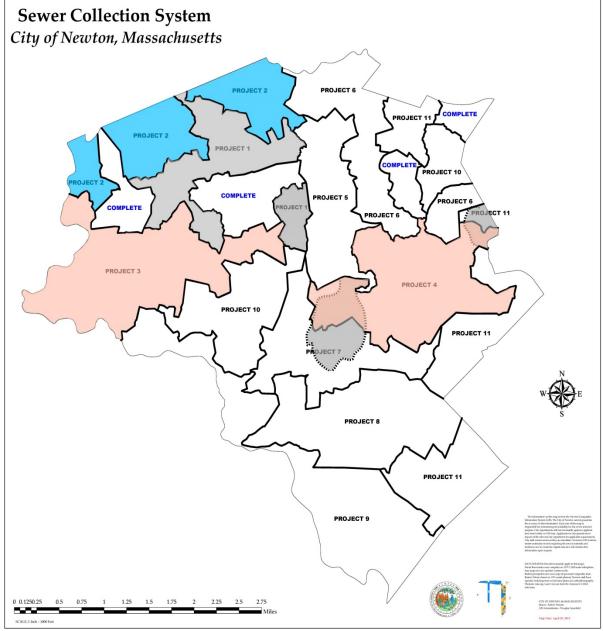


01-22-13 04-25-13

 Ongoing 11-year plan to investigate, repair, seal, re-line Sewer System (Accelerated to \$5.5M annually)

 Ongoing 20-year plan to investigate, replace, clean and line Water System (\$4.0M annually)

Begin Stormwater Assessment Plan (\$100K)



ACCELERATED

SCHEDULE FOR

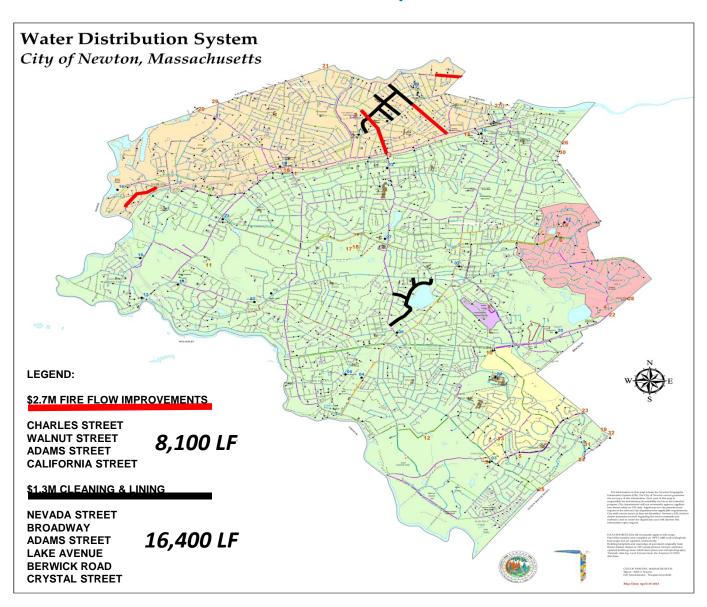
INFLOW/INFILTRATION

REMOVAL

PROJECT AREA 2:
ASSESSMENT/INVESTIGATION BY
OCTOBER 2013
CONSTRUCTION TO BEGIN APRIL 2014

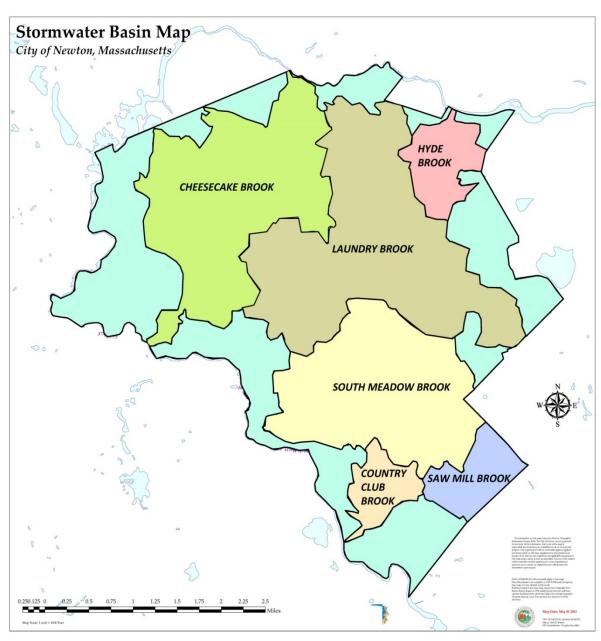
PROJECT AREAS 3 AND 4:
ASSESSMENT/INVESTIGATION BY
OCTOBER 2014

WATER SYSTEM IMPROVEMENTS: \$4.0M ANNUAL INVESTMENT



Stormwater System

- 320 miles of pipes
- 12,750 catch basins
- 350+ outfalls
- 7 +/- miles of streams (walls/embankments)





Begin Stormwater
Infrastructure
Assessment to develop
long-term capital needs
program





FOCUS OF STORMWATER
 INFRASTRUCTURE ASSESSMENT

Structural problems/defects (failure)

Hydraulic capacity (flooding)

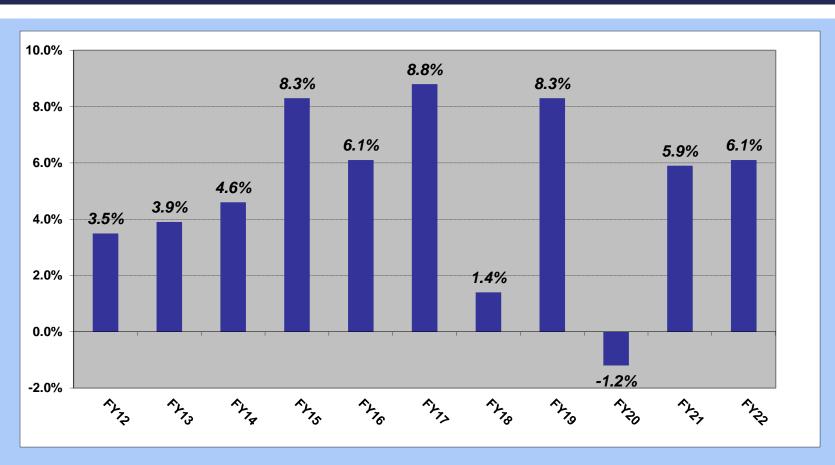
Water quality

FY2014

WATER/SEWER RATES

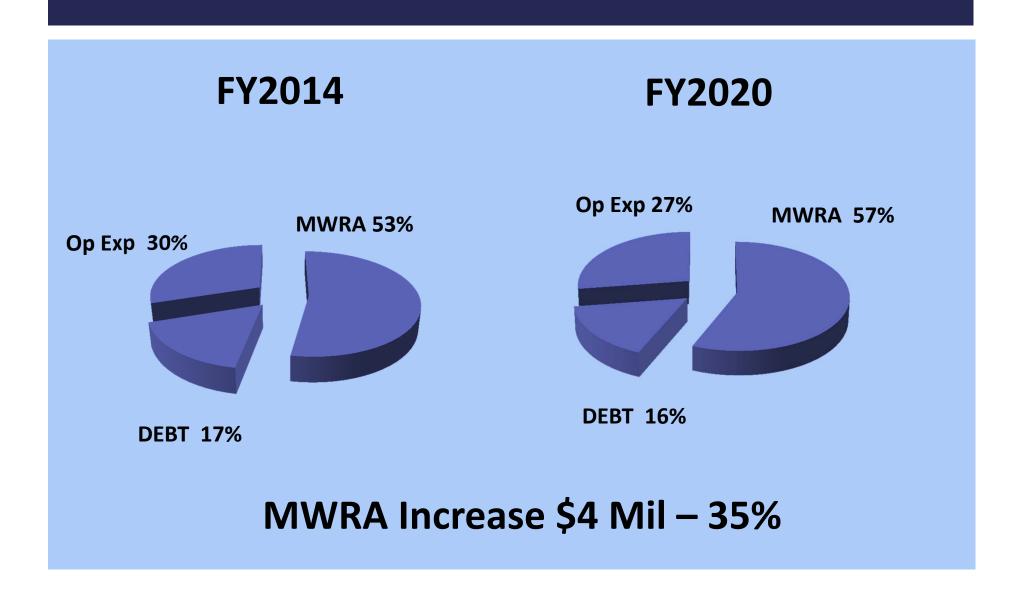


MWRA PROJECTED RATE INCREASES

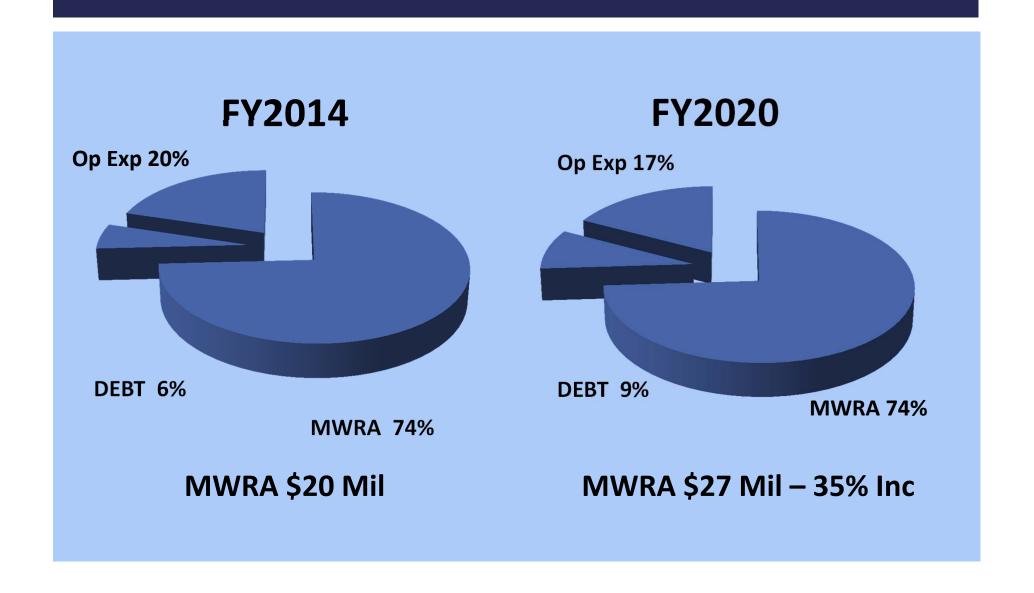


→ MWRA forecasts Rate Increases between 1.4% and 8.8% over the next 10 years

PROJECTED COMPONENTS OF CITY OF NEWTON WATER BUDGET



PROJECTED COMPONENTS OF CITY OF NEWTON SEWER BUDGET



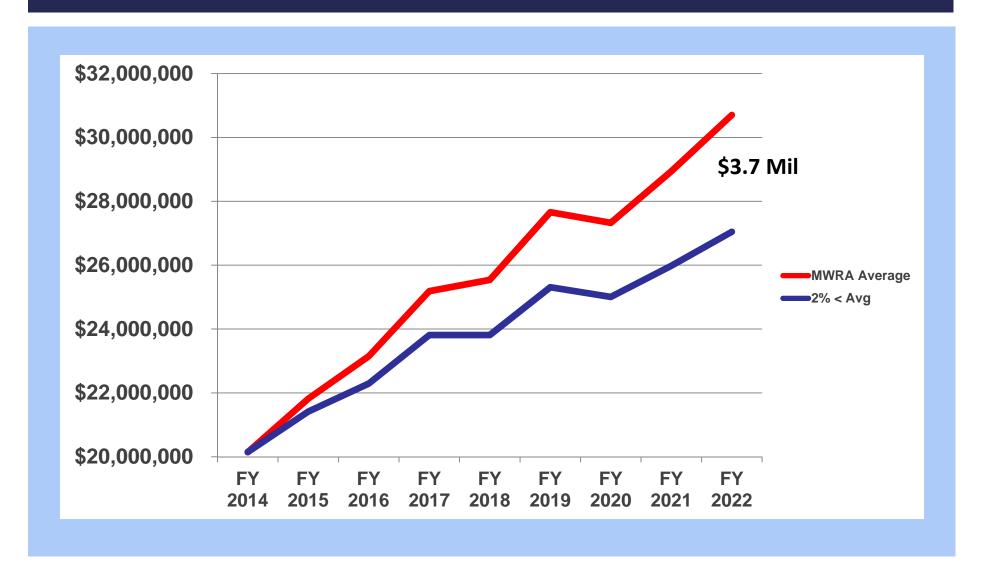
MWRA PRELIMINARY SEWER ASSESSMENT

Massachusetts Water Resources Authority

Preliminary FY14 Sewer Assessments

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NEWTON (MWRA average)	19,917,866	20,774,334	4.3%	\$ 856,468
PROJECTED SAVINGS			_	\$ 628,314

PROJECTED MWRA TREND VS. 2% LESS



FY2014 WATER/SEWER RATES

Net increase for FY14 = 3.9%

FY 14 Rate Estimate

95 HCF - Estimated Average Household Usage

	<u>Water</u>	<u>Sewer</u>	<u>Total</u>
FY 13 Rates:	\$651.65	\$960.85	\$1,612.50
Proposed FY 14 Rates:	\$677.08	\$998.50	\$1,675.58
Proposed Dollar Change:			\$63.08
Proposed Percentage Change:			3.9%

FY2014 WATER/SEWER RATES

DISCUSSION

Back Up Slides

Newton Sewer Flow comparison CY08 to CY12

	Community Average Daily Wastewater Flows											
CY	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2012	17.91	14. 7 9	14.27	12.28	13.96	12.19	10.05	10.54	9.66	10.91	12.66	15.95
2011	14.24	20.48	30.64	21.92	16.18	13.45	10.09	14.76	18.34	24.55	24.01	24.02
2010	17.87	20.28	44.01	30.10	16.44	13.65	10.06	9.38	9.89	12.54	13.76	14.81
2009	24.49	23.17	24.92	22.71	15.72	13.60	18.20	12.35	11.04	11.89	17.15	20.22
2008	19.93	30.67	28.35	20.36	15.93	12.34	13.38	15.13	15.25	15.74	14.24	34.01

Average Daily Flow	Percent of System
12.93	4.67%
19.38	5.46%
17.72	5.27%
17.93	5.47%
18.66	5.41%

SEWER SYSTEM CAPITAL IMPROVEMENTS PROJECT SCHEDULE (ENR Adjusted) NOVEMBER 15, 2011

PROJECT NAME	ESTIMATED COST
Scheduled Projects (FY2012)	
Area B Sewer Rehabilitation - Phase IA Design (MWRA Funded)	\$225,000
Area B Sewer Rehabilitation - Phase IA Construction/Construction Services (MWRA Funded)	\$283,750
Area B Sewer Rehabilitation - Phase IA Construction/Construction Services (unfunded)	\$1,475,750
SUBTOTAL	\$1,984,500
FY 2012 - Newtonville/West Newton	
Project 1 Inspection and Assessment (MWRA Funded)	\$537,250
Heavy Cleaning (10% of investigation footage)	\$53,725
Post Construction Flow Evaluation (unfunded)	\$25,875
SUBTOTAL	\$616,850
FY 2013 - Newtonville/West Newton/Auburndale	
Project 1 Design	\$207,000
Project 1 Construction/Construction Services	\$3,105,000
Project 1 Post Construction Flow Evaluation	\$25,875
Project 2 Inspection and Assessment	\$584,775
Project 2 Heavy Cleaning (10% of investigation footage)	\$58,478
Smoke/Dye Testing (Phase 1-3 Areas)	\$258,750
SUBTOTAL	\$4,239,878
FY 2014 - Auburndale/Lower Falls/West Newton	
Project 2 Design (with Public Inflow - Smoke Defects)	\$310,500
Project 2 Construction/Construction Services	\$3,881,250
Project 2 Post Construction Flow Evaluation	\$25,875
Project 3 Inspection and Assessment	\$476,100
Project 3 Heavy Cleaning (10% of investigation footage)	\$47,610
SUBTOTAL	\$4,741,335
FY 2015 - Chestnut Hill/Centre	
Project 3 Design	\$207,000
Project 3 Construction/Construction Services	\$3,105,000
Project 3 Post Construction Flow Evaluation	\$25,875
Project 4 Inspection and Assessment	\$672,750

1

SEWER SYSTEM CAPITAL IMPROVEMENTS PROJECT SCHEDULE (ENR Adjusted) NOVEMBER 15, 2011

Project 4 Heavy Cleaning (10% of investigation footage)	\$67,275
Smoke/Dye Testing (Remaining 'B' Areas)	\$517,500
SUBTOTAL	\$4,595,400
FY 2016 - Centre/Newtonville	
Project 4 Design (with Public Inflow - Smoke Defects)	\$414,000
Project 4 Construction/Construction Services	\$4,657,500
Progress Flow Monitoring	\$155,250
Project 4 Post Construction Flow Evaluation	\$25,875
Project 5 Inspection and Assessment	\$517,500
Project 5 Heavy Cleaning (10% of investigation footage)	\$51,750
SUBTOTAL	\$5,821,875
FY 2017 - Centre/Newtonville/Nonantum	
Project 5 Design	\$207,000
Project 5 Construction/Construction Services	\$3,105,000
Progress Flow Monitoring	\$51,750
Project 5 Post Construction Flow Evaluation	\$25,875
Project 6 Inspection and Assessment	\$517,500
Project 6 Heavy Cleaning (10% of investigation footage)	\$51,750
SUBTOTAL	\$3,958,875
FY 2018 - Upper Falls/Highlands/Thompsonville	0
Project 6 Design	\$207,000
Project 6 Construction/Construction Services	\$3,105,000
Progress Flow Monitoring	\$51,750
Project 6 Post Construction Flow Evaluation	\$25,875
Project 7 Inspection and Assessment	\$496,800
Project 7 Heavy Cleaning (10% of investigation footage)	\$49,680
SUBTOTAL	\$3,936,105
FY 2019 - Highlands/Oak Hill	
Project 7 Design	\$207,000
Project 7 Construction/Construction Services	\$3,105,000
Progress Flow Monitoring	\$51,750
Project 7 Post Construction Flow Evaluation	\$25,875
Project 8 Inspection and Assessment	\$548,550
Project 8 Heavy Cleaning (10% of investigation footage)	\$54,855

SEWER SYSTEM CAPITAL IMPROVEMENTS PROJECT SCHEDULE (ENR Adjusted) NOVEMBER 15, 2011

SUBTOTA	AL \$3,993,030
FY 2020 - Waban/Upper Falls/Highlands/Oak Hill Park/Oak Hill	
Project 8 Design	\$207,000
Project 8 Construction/Construction Services	\$3,105,000
Project 8 Post Construction Flow Evaluation	\$25,875
Project 9 Inspection and Assessment	\$553,725
Project 9 Heavy Cleaning (10% of investigation footage)	\$55,373
SUBTOTA	AL \$3,946,973
FY 2021 - Waban/Highlands/Centre/Newton Corner	
Project 9 Design	\$207,000
Project 9 Construction/Construction Services	\$3,105,000
Project 9 Post Construction Flow Evaluation	\$25,875
Project 10 Inspection and Assessment	\$533,025
Project 10 Heavy Cleaning (10% of investigation footage)	\$51,750
SUBTOTA	AL \$3,922,650
FY 2022 - Chestnut Hill/Newton Corner	
Project 10 Design	\$207,000
Project 10 Construction/Construction Services	\$3,105,000
Project 10 Post Construction Flow Evaluation	\$25,875
Project 11 Inspection and Assessment	\$605,475
Project 11 Heavy Cleaning (10% of investigation footage)	\$60,548
SUBTOTA	AL \$4,003,898
FY 2023 - Design/Construction	
Project 11 Design	\$207,000
Project 11 Construction/Construction Services	\$3,105,000
Project 11 Post Construction Flow Evaluation	\$25,875
SUBTOTA	AL \$3,337,875
Total Program Cost	\$49,099,243
Funded Projects	\$1,046,000
Unfunded Projects	\$48,053,243

3

SEWER SYSTEM CAPITAL IMPROVEMENTS PROJECT SCHEDULE (ENR Adjusted) UPDATED MARCH 29, 2013

PROJECT NAME	ESTIMATED COST
FY 2012 - Newtonville/West Newton/Remaining Area B	
Project 1 Inspection and Assessment	\$537,250
Post Construction Flow Evaluation	\$15,000
Area B Sewer Rehabilitation (Remaining Areas) - Design	\$150,000
SUBTOTAL	\$702,250
FY 2013 - Newtonville/West Newton/Auburndale/Remaining Area B/Crystal Lake Area/Newton Commonwealth Golf Course	
Smoke/Dye Testing (Phase 1-3 Areas)	\$258,750
Project 1 Design	\$166,000
Project 1 Construction/Construction Services	\$2,757,000
Area B Sewer Rehabilitation (Remaining Areas) - Construction/Construction Services	\$975,375
Crystal Lake Area Construction/Construction Services	\$147,375
Newton Commonwealth Golf Course Construction/Construction Services	\$164,250
Project 1 Post Construction Flow Evaluation	\$25,875
Project 2 Inspection and Assessment	\$584,775
Project 2 Heavy Cleaning (10% of investigation footage)	\$58,478
Smoke/Dye Testing (Phase 4-7 Areas)	\$388,137
SUBTOTAL	\$5,526,015
FY 2014 - Auburndale/Lower Falls/West Newton	
Project 2 Design (with Public Inflow - Smoke Defects)	\$310,500
Project 2 Construction/Construction Services	\$3,881,250
Project 2 Post Construction Flow Evaluation	\$25,875
Project 3 Inspection and Assessment	\$476,100
Project 3 Heavy Cleaning (10% of investigation footage)	\$47,610
Project 4 Inspection and Assessment	\$672,750
Project 4 Heavy Cleaning (10% of investigation footage)	\$67,275
SUBTOTAL	\$5,481,360
FY 2015 - Chestnut Hill/Centre/Newtonville	
Project 3 Design	\$207,000
Project 3 Construction/Construction Services	\$3,105,000

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Project 4 Design (with Public Inflow - Smoke Defects)	\$414,000
Project 4 Construction/Construction Services	\$4,657,500
Project 5 Inspection and Assessment	\$517,500
Project 5 Heavy Cleaning (10% of investigation footage)	\$51,750
SUBTOTAL	\$8,952,750
FY 2016 - Centre/Newtonville/Nonantum	
Project 3 Post Construction Flow Evaluation	\$25,875
Project 4 Post Construction Flow Evaluation	\$25,875
Progress Flow Monitoring	\$155,250
Project 5 Design	\$207,000
Project 5 Construction/Construction Services	\$3,105,000
Project 5 Post Construction Flow Evaluation	\$25,875
Project 6 Inspection and Assessment	\$517,500
Project 6 Heavy Cleaning (10% of investigation footage)	\$51,750
Smoke/Dye Testing (Phase 8-11 Areas)	\$388,137
SUBTOTAL	\$4,502,262
FY 2017 - Upper Falls/Highlands/Thompsonville	
Project 6 Design	\$207,000
Project 6 Construction/Construction Services	\$3,105,000
Progress Flow Monitoring	\$51,750
Project 6 Post Construction Flow Evaluation	\$25,875
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SI	UBTOTAL \$4,003,898
FY 2022 - Design/Construction	
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Project 11 Construction/Construction Services	\$3,105,000
Project 11 Post Construction Flow Evaluation	\$25,875
SI	SUBTOTAL \$3,337,875
Total Program Cost	\$48,305,167