

Aquarion Water Company of New Hampshire  
WICA Main Replacement Projects

proposed - December 2012

Account 331

PROJECT NAME	Town	LENGTH (FEET)	PIPE DIAMETER (INCHES)	TOTAL ESTIMATED COST	Actual 2010 - 2012	Projected 2013	Projected 2014	Projected 2015	Comments	PRIORITIZATION FACTORS
Church Street - Highland Avenue to William Street	Hampton	700	12	\$ 211,426	\$ 11,426	\$ 200,000				Main break history, pipe age / useful life, material integrity and critical system component.
Well 7 Transmission Main	Hampton	800	12	\$ 201,000		\$ 201,000			Construction	Main is 52 years old; installed in 1950. It's in poor condition and has experienced multiple main breaks.
Well 9 Transmission Main	Hampton	300	12	\$ 67,000		\$ 67,000			Construction	Main is in poor condition and degrades reliability of Well 9.
Great Boars Head (back alley main)	Hampton	560	8	\$ 176,000		\$ 24,000			Estimated construction costs \$152,000	Main is 102 years old; installed in 1910. Main passes through an alley and is impossible to reach with digging equipment if a main break occurs.
Meadow Pond / Gentian / Green Streets	Hampton	1,800	6	\$ 560,000		\$ 51,000			Estimated construction costs \$509,000	These mains are too shallow; bleeders must be installed in winter to prevent freezing.
Ocean Boulevard - Dumas Avenue to Winnacunnet Road	Hampton	2,100	12	\$ 910,900	\$ 65,900		\$ 845,000			Main is 105 years old; installed in 1907. Frequent main breaks. This main must be renewed so it can support flows to the beach while the Rt 101 main is being replaced.
Rt 101 - Glade Path to Tide Mill Road	Hampton	3,200	12	\$ 1,055,800	\$ 15,800	\$ 83,000		\$ 757,000	Design in 2013 Construction spread between 2014 and 2015.	Deteriorated pipe with leaks that crosses a salt marsh.
<b>TOTALS</b>				\$ 3,182,126	\$ 93,126	\$ 626,000	\$ 845,000	\$ 757,000		

WICA Main Replacement Projects

projected - August 2013

Account 331

PROJECT NAME	Town	LENGTH (FEET)	PIPE DIAMETER (INCHES)	TOTAL ESTIMATED COST	Actual 2010	Projected 2013	Projected 2014	Projected 2015	Comments	PRIORITIZATION FACTORS
Church Street - Highland Avenue to William Street	Hampton	700	12	\$ 211,426	\$ 11,426	\$ 145,700			Installation completed in May 2013	Main break history, pipe age / useful life, material integrity and critical system component.
Auburn Avenue	Hampton	460	6	\$ 200,000		\$ 185,000			Installation completed in July 2013	Town of Hampton is replacing sewer lines on these streets in autumn 2013. Old water main was of poor quality material (asbestos-cement), subject to multiple main breaks, and too shallow (requiring bleeder in winter to avoid freezing). Due to narrow street, location and condition of the old main, sewer construction was deemed very likely to result in main breaks and unplanned service interruptions. Replacement with new main is intended to provide better integrity to minimize these consequences and their associated costs. Final paving costs were shared with the Town.
Perkins Avenue	Hampton	530	6	\$ 237,000		\$ 237,000			Installation completed in July 2013	
Auburn Avenue Extension	Hampton	260	4	\$ 88,000		\$ 88,000			Installation completed in July 2013	
Well 7 Transmission Main	Hampton	800	12	\$ 201,000					Postponed	Main is 52 years old; installed in 1950. It's in poor condition and has experienced multiple main breaks.
Well 9 Transmission Main	Hampton	300	12	\$ 36,000			\$ 36,000		Postponed to October 2013	Main is in poor condition and degrades reliability of Well 9.
Great Boars Head (back alley main)	Hampton	560	8	\$ 176,000					Postponed	Main is 102 years old; installed in 1910. Main passes through an alley and is impossible to reach with digging equipment if a main break occurs.
Meadow Pond / Gentian / Green Streets	Hampton	1,800	6	\$ 560,000					Postponed	These mains are too shallow; bleeders must be installed in winter to prevent freezing.
Ocean Boulevard - Dumas Avenue to Winnacunnet Road	Hampton	2,100	12	\$ 910,900	\$ 65,900		\$ 865,000			Main is 105 years old; installed in 1907. Frequent main breaks. This main must be renewed so it can support flows to the beach while the Rt 101 main is being replaced.
Rt 101 - Glade Path to Tide Mill Road	Hampton	3,200	12	\$ 1,055,800	\$ 15,800		\$ 83,000	\$ 757,000	Design in 2014 Construction spread between 2015 and 2016.	Deteriorated pipe with leaks that crosses a salt marsh.
<b>TOTALS</b>				\$ 3,676,126	\$ 93,126	\$ 655,700	\$ 984,000	\$ 757,000		

**Alternative Main Replacement Projects**

<u>Projects</u>	<u>Length</u>	<u>Projected Costs</u>
Auburn Avenue Main Replacement	460	185,000
Auburn Avenue Extension Main Repl.	260	88,000
Perkins Avenue Main Replacement	530	237,000
		<u>510,000</u>

**DW 12-325 Approved Main Replacements - Replaced**

<u>Projects</u>	<u>Length</u>	<u>Projected Costs</u>
Well 7 Transmission Main	800	201,000
Well 9 Transmission Main	300	67,000
Meadow Pond / Gentian / Green Streets	1,800	51,000
Great Boars Head (back alley main)	560	24,000
Rt 101 - Glade Path to Tide Mill Road	3,200	83,000
		<u>426,000</u>
Cost Savings from Church Street Project		<u>54,300</u>
Funds Available for Alternative Projects		<u>480,300</u>
<b>Additional Main Replacement Project Costs</b>		<b><u>29,700</u></b>