

APPENDIX F

NASHUA RIVER WATERSHED

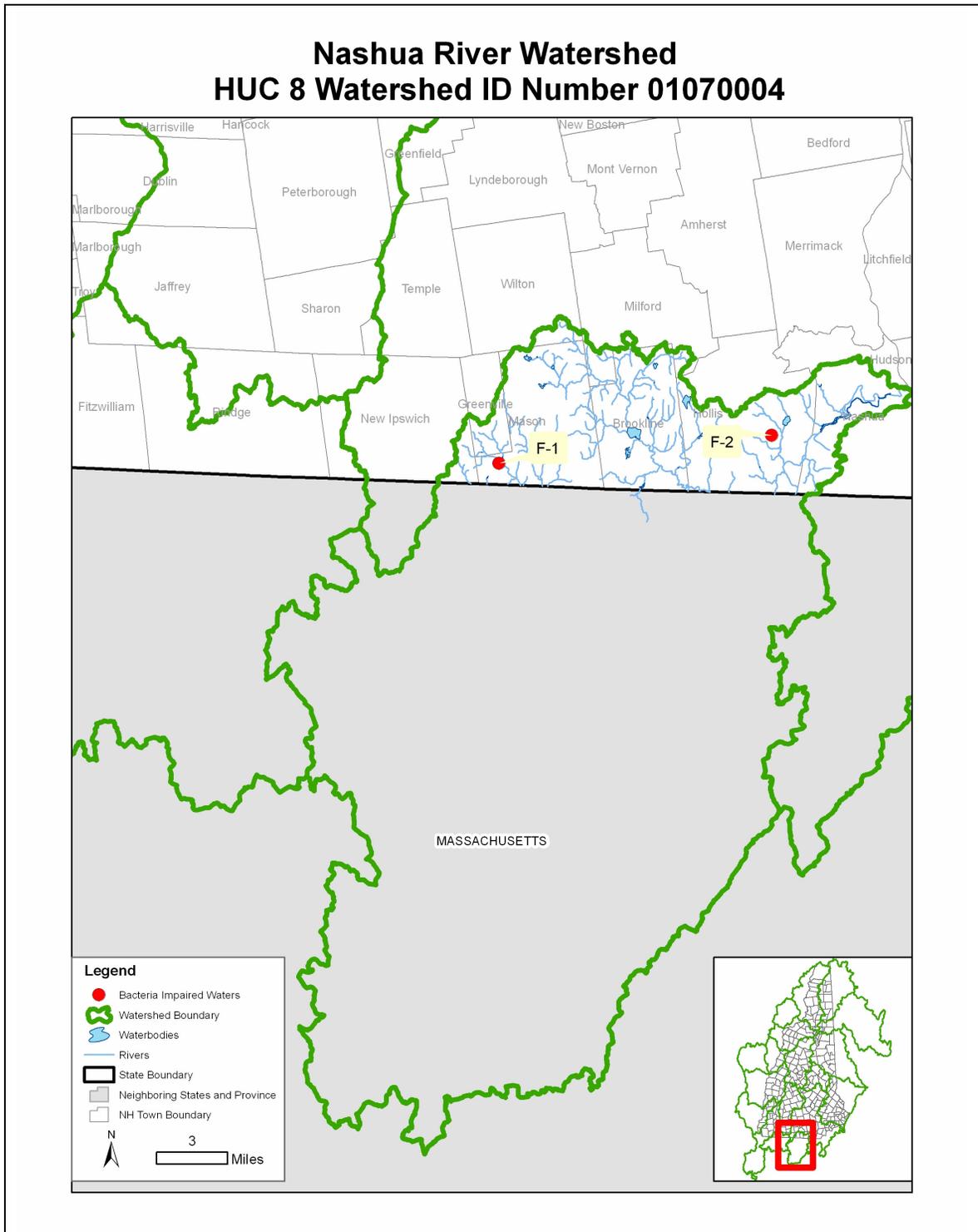
(HUC8: 01070004)

I. WATERSHED DESCRIPTION AND MAPS

The Nashua River Watershed covers an area of approximately 193 square miles centrally located on the New Hampshire-Massachusetts border. Approximately 46% of the watershed is located in New Hampshire and includes from west to east the towns of: New Ipswich, Greenville, Mason, Wilton, Milford, Brookline, Hollis, and Nashua. As shown in Figure 1, the primary watercourse in the region is the Nashua River which flows northeast from the Wachusett Reservoir in Massachusetts. The river ends at its confluence with the Merrimack River in Nashua, NH. Small hills dot the landscape of this watershed with few landforms above 1,200 feet. Lake Potanipo is the largest waterbody in the watershed.

Based on the 2012 303(d) list, two assessment units (AUs) in this watershed are listed as being impaired for bacteria. The location of the bacteria impaired surface water AUs are shown on Figure 1 as red circles. Items F1 and F2 present the percent reduction needed to meet each water quality criterion (and TMDL), based on the highest recorded bacteria measurement that exceeds the criterion for the AU, as well as the bacteria data collected in the impaired AUID that was used to list the AU as impaired on the 2012 303(d) list.

FIGURE 1:



II. WATER QUALITY DATA TABLES

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F1: Squannacook River

AUID NHRIV700040301-05

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100ML

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 74%

Geometric mean: 49%

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
SQUANNACOOK RIVER	00C-WKG	1/1/11	613
SQUANNACOOK RIVER	00C-WKG	1/1/11	1553
SQUANNACOOK RIVER	00C-WKG	1/1/11	55
SQUANNACOOK RIVER	00C-WKG	9/1/11	43.2
SQUANNACOOK RIVER	00C-WKG	11/1/11	325.5
SQUANNACOOK RIVER	00C-WKG	1/1/11	166
SQUANNACOOK RIVER	00C-WKG	10/16/10	435
SQUANNACOOK RIVER	00C-WKG	5/1/11	68.4
SQUANNACOOK RIVER	00C-WKG	5/1/11	50.4
SQUANNACOOK RIVER	00C-WKG	11/1/11	45.5
SQUANNACOOK RIVER	00C-WKG	11/1/11	131.4
SQUANNACOOK RIVER	00T-WKR	1/1/11	16
SQUANNACOOK RIVER	00T-WKR	1/1/11	17
SQUANNACOOK RIVER	00T-WKR	9/1/11	16
SQUANNACOOK RIVER	00T-WKR	11/1/11	325.5
SQUANNACOOK RIVER	00T-WKR	1/1/11	17
SQUANNACOOK RIVER	00T-WKR	1/1/11	5
SQUANNACOOK RIVER	00T-WKR	5/1/11	52.9
SQUANNACOOK RIVER	00T-WKR	5/1/11	14.8
SQUANNACOOK RIVER	00T-WKR	11/1/11	25.9
SQUANNACOOK RIVER	00T-WKR	11/1/11	1119.9

Shaded cells indicate exceedance of water quality criteria

Geometric mean *E. coli* results (CTS/100ML)

Station Name	Date	Result
SQUANNACOOK RIVER	7/17/10	247.89
SQUANNACOOK RIVER	8/21/10	113.24
SQUANNACOOK RIVER	8/20/11	92.51
SQUANNACOOK RIVER	5/1/10	24.16
SQUANNACOOK RIVER	5/23/10	53.42
SQUANNACOOK RIVER	9/16/10	74.09
SQUANNACOOK RIVER	5/3/11	40.53
SQUANNACOOK RIVER	5/23/11	26.80
SQUANNACOOK RIVER	9/16/11	162.44

Shaded cells indicate exceedance of water quality criteria

F2: Flints Brook, Wild Trout Fishery

AUID NHRIV700040402-03

Characteristics: freshwater, class B designation, primary contact recreation.

Impairment: *E coli*

Water Quality Criteria & TMDL for *E coli*

Single sample: 406 CTS/100MI

Geometric mean: 126 CTS/100mL

Percent reduction to meet TMDL:

Single sample: 79%

Geometric mean: 89%

Data: NHDES EMD, 2012 303(d)

Single sample *E coli* results (CTS/100ML)

Station Name	Station ID	Date	Result
FLINTS BROOK, Wild Trout Fishery	06-FLT	11/1/11	1986.3
FLINTS BROOK, Wild Trout Fishery	06-FLT	11/1/11	387.3
FLINTS BROOK, Wild Trout Fishery	06-FLT	11/1/11	1986.3

Shaded cells indicate exceedance of water quality criteria

Geometric mean *E. coli* results (CTS/100ML)

Station Name	Date	Result
FLINTS BROOK, Wild Trout Fishery	9/16/11	1151.81

Shaded cells indicate exceedance of water quality criteria