

Water quality (Data table, Map, Site-info table) Winn's Brook and Wellington Brook in Belmont — collected by the Mystic River Watershed Association March 28 2006

Data

Winn's Brook & Wellington Brook in Belmont & Cambridge, Hotspot Sampling March 28, 2006. Dry weather. Air temp 0 to 11.0 C
 Monitors: Jenny Birnbaum & Steve Murphy

Definitions of terms in column headings

- cfu (in *E. coli* cfu/100mL) = colony forming units per 100 milliliters (is a unit of measurement for bacteria)
- DO %sat = percent saturation (is a unit of measurement for dissolved oxygen)
- DO (in DO mg/l) = milligrams per liter (is a unit of measurement for dissolved oxygen)
- us/cm (in Sp. Cond. us/cm) = microsiemens per centimeter (a unit of measurement for specific conductivity, which is conductivity standardized to a temperature of 25 degrees Celsius; specific conductivity is also called temperature corrected conductivity)

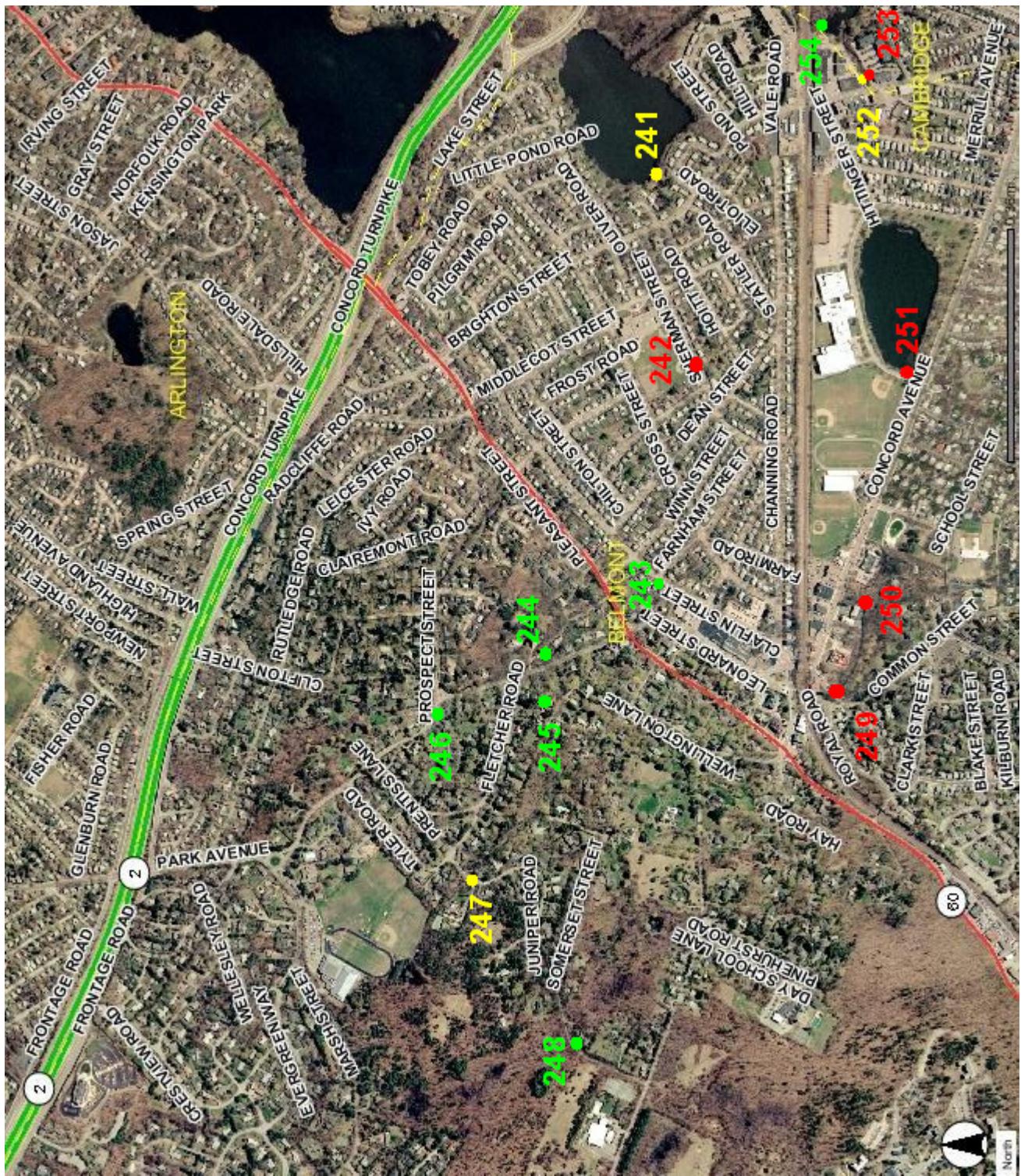
Sample #	Site ID	<i>E. coli</i> cfu/100mL	H ₂ O Temp. C	DO %sat	DO mg/l	Sp. Cond. us/cm	Time am	Town	Type	Site Description [and Comments]
1241	WIB001	780	6.7	95	11.58	494	6:15	Belmont	centerline	Winn's Br. outflow to Little Pond- park on Larch Circle- walk down path between 145 & 163 Brighton- sample left side of bridge
1242	WIB005	2069					6:37	Belmont	centerline	Brook covered here-grate over Winn's Br on N side of Sherman St. E of Broad St.
1243	WIB009	97	4.9	96.9	12.38	450	6:48	Belmont	centerline	Winn's Br beside 73 Clafflin St. US of grate
1244	WIB012	21	5.1	96.6	12.28	433	7:01	Belmont	centerline	Winn's Br on E side of Clifton St by Hickory Lane
1245	WIB013	16	5.2	94.5	12	420	7:10	Belmont	centerline	Winn's Br @ Howells Rd footpath bridge- park on Fletcher & walk up driveway of blue house
1246	WIBUTB	8					7:24	Belmont	tributary	[Comment: DS side] Tributary 'B' to Winn's Br on S side of Prospect St W of Clifton- park on Prentiss

Sample #	Site ID	<i>E. coli</i> cfu/100mL	H2O Temp. C	DO %sat	DO mg/l	Sp. Cond. us/cm	Time am	Town	Type	Site Description [and Comments]
1247	WIB018	236	8.2	91.9	10.79	487	7:38	Belmont	centerline	Winn's Br @ Juniper Rd [Comment: DS side, long green algae]
1248	ATB007	123					7:50	Belmont	centerline	Atkins Br @ Somerset St (near Habitat sanctuary)
1249	WEB013	38730	10.1	87.5	9.81	1,037	8:09	Belmont	centerline	Wellington Brook emerging from under Common Street- park on Durbarton Rd
1250	WEB010	5654	9.6	113.6	12.87	1,012	8:22	Belmont	centerline	Wellington Brook behind E end of library where brook goes back underground
1251	WEB007	4480	8.2	102.8	11.87	1,024	8:42	Belmont	centerline	Wellington Brook inflow to Claypit Pond @ SW corner by Concord Ave.
1252	BEL08N	205	6.6	99.2	12.07	1,422	8:59	Belmont	pipe	North (& side) pipe of two circular pipes- inflow to Blair Pond where Wellington Br emerges fr Blanchard Rd/Brighton St [Comment: pipe on inside not flowing]
1253	CAMD34	1379	8.6	66.5	8.05	694	9:03	Cambridge	pipe	South, rectangular outfall- inflow to Blair Pond where Wellington Br emerges fr Blanchard Rd/Brighton St [Comment: pipe on inside not flowing]
1254	WEB002	148	7.9	100.5	11.86	1,423	9:18	Belmont/ Cambridge	centerline	Blair Pond outlet on N side just before RR- becomes Wellington Br.- park on Flanders Rd.

Map

- All maps are from digital orthophotos
- courtesy of Office of Geographic and Environmental Information (MassGIS), Commonwealth of Massachusetts Executive Office of Environmental Affairs
- sites colored in green had E. coli concentrations below the state swimming standard of 200cfu/100ml for fecal coliforms
- sites in red were above the 1000cfu/100ml standard for secondary contact,
- and those between 200 and 999 are in yellow
- Add 1000 to site numbers on maps to get site ID's on "data" worksheet.

Winn's Brook & Wellington Brook (Belmont/Cambridge)



Site Info

MyRWA Sample Monitors: Jenny Birnbaum & Steve Murphy 2006

MyRWA Site	EPA Sample	Town	Date	N Degr	N Min	N Sec	W Degr	W Min	W Sec	Type	Directions
WIB001	1241	Belmont	0328	42	23	57.28	71	9	39.66	centerline	Winn's Br. outflow to Little Pond- park on Larch Circle- walk down path between 145 & 163 Brighton- sample left side of bridge
WIB005	1242	Belmont	0328	42	23	53.71	71	10	0.37	centerline	Brook covered here- grate over Winn's Br on N side of Sherman St. E of Broad St.
WIB009	1243	Belmont	0328	42	23	56.68	71	10	23.37	centerline	Winn's Br beside 73 Claffin St. US of grate
WIB012	1244	Belmont	0328	42	24	6.04	71	10	30.3	centerline	Winn's Br on E side of Clifton St by Hickory Lane
WIB013	1245	Belmont	0328	42	24	6.33	71	10	36.42	centerline	Winn's Br @ Howells Rd footpath bridge- park on Fletcher & walk up driveway of blue house
WIBUTB	1246	Belmont	0328	42	24	14.50	71	10	36.13	tributary	Tributary 'B' to Winn's Br on S side of Prospect St W of Clifton- park on Prentiss
WIB018	1247	Belmont	0328	42	24	11.74	71	10	54.39	centerline	Winn's Br @ Juniper Rd
ATB007	1248	Belmont	0328	42	24	3.35	71	11	13.41	centerline	Atkins Br @ Somerset St (near Habitat sanctuary)
WEB013	1249	Belmont	0328	42	23	42.89	71	10	34.74	centerline	Wellington Brook emerging from under Common Street- park on Dunbarton Rd
WEB010	1250	Belmont	0328	42	23	39.4	71	10	19.02	centerline	Wellington Brook behind E end of library where brook goes back underground
WEB007	1251	Belmont	0328	42	23	36.82	71	10	0.29	centerline	Wellington Brook inflow to Claypit Pond @ SW corner by Concord Ave.

MyRVNA Site	EPA Sample	Town	Date	N Degr	N Min	N Sec	W Degr	W Min	W Sec	Type	Directions
BEL08N	1252	Belmont	0328	42	23	40.46	71	9	29.86	pipe	North (& side) pipe of two circular pipes- inflow to Blair Pond where Wellington Br emerges fr Blanchard Rd/Brighton St
CAMD34	1253	Cambridge	0328	42	23	40.3	71	9	29.83	pipe	South, rectangular outfall- inflow to Blair Pond where Wellington Br emerges fr Blanchard Rd/Brighton St
WEB002	1254	Belmont/ Cambridge	0328	42	23	43.80	71	9	23.45	centerline	Blair Pond outlet on N side just before R/R- becomes Wellington Br.- park on Flanders Rd.