

TABLE 3

BUILDING INSPECTION AND DYED-WATER TRACING RESULTS  
WELLINGTON BROOK & WINN'S BROOK TRIBUTARY AREAS  
BELMONT, MASSACHUSETTS

Address		Sub-Catchment Area	No. of Tests Conducted	Date	Dye Test Entry	Sewer Connection Contamination Source	Dye Discharge		Sump Pumps	Sump Pump Discharge	Other Pipes	Comments
No.	Street						% Sewer	% Storm Drain				
30	Bow Road	8-1	3	10/24/2017	Basement Toilet, Basement Sink, First Floor Sink		Inconclusive	Inconclusive	1	Two (2) sumps pumps. Both do not appear to tie into sewer stack.	None	Could not see dye in either SMH or DMH across from house. Moved to SMH at Bow/School intersection and believed to see traces of dye (rapid flows due to pipe slope). Flow was also diluted by incoming flow from Lincoln street. No dye seen in DMH at Bow/School intersection after 35 minute wait.
38	Bow Road	8-1										No access upon initial 2 visits.
41	Bow Road	8-1	1	10/24/2017	Basement Sink		100	0	0	N/A	None	Dye was seen 100% in SMH at Bow/Lincoln intersection. No dye seen in DMH after 15 minute wait.
44	Bow Road	8-1										No access upon initial 2 visits.
51	Bow Road	8-1	1	10/24/2017	Basement Sink		100	0	0	N/A	Open Cleanout	Open cleanout in basement floor. Dye was seen 100% in SMH at Bow/Lincoln intersection rapidly after test. No dye seen in DMH at Bow/Lincoln intersection for 10-15 minutes after test was conducted.
53	Bow Road	8-1										No access upon initial 2 visits.
150	Orchard Street	8-2										No access upon initial 2 visits.
9	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
12	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
17	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
22	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
25	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
28	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
31	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
36	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
37	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
43	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
48	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
51	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
55	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
57	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
63	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
69	Brethwood Road	8-5										Dye testing to be conducted. No initial vist has been made yet.
10	Homer Road	8-5	0	10/24/2017	Not Conducted				1	One (1) sump pump seen. Does not connect to sewer stack.	None	Visually apparent that house ties into Homer Road sewer (not Pierce Road sewer) based on sewer stack positioning.
22	Homer Road	8-5	2	10/13/2017	Basement Sink and First Floor Toilet		100	0	2	One (1) sump to sewer; One (1) to back yard dry well	Yes - Perimeter french drain to sump pumps	Dye tested all identifiable stacks / sources; finished basement; sewer to Homer Rd
8	Pierce Road	8-5										No access upon initial 2 visits.
11	Pierce Road	8-5	1	10/19/2017	Basement Sink	Indirect	90	10	0	N/A	Basement Drain (Connects to sewer stack)	Sump pit with drain to sewer stack. Traces of dye visible in Drain Manhole. Appears to be an indirect connection.
14	Pierce Road	8-5										No access upon initial 2 visits.
17	Pierce Road	8-5										No access upon initial 2 visits.
22	Pierce Road	8-5										No access upon initial 2 visits.
28	Pierce Road	8-5										No access upon initial 2 visits.
37	Hoitt Road	10-2	1	10/24/2017	Basement Sink, First Floor Toilet (2 Toilets)	Indirect	80	20	0	N/A	2 stack pipes seen in separate rooms in basement. Could not verify conenctivity to other plumbing.	Performed dye test on sink, then on two separate toilets. Constant stream of dye in SMH at Waterhouse/Hoitt intersection. Constant trace of dye in DMH (somewhat faint) at Waterhouse/Hoitt intersection approx 20 minutes after dye tests had been performed. Appears to be a indirect connection.
43	Hoitt Road	10-2	1	10/14/2017	First Floor Toilet		100	0	1	Cleanout Pit	Could not confirm; Cleanout pit inaccessible	Sump pit under carpet by stairs. Inaccessible. Confirmed 2nd 2" pipe connected to 4" sewer stack by flushing sound test.
49	Hoitt Road	10-2	1	10/18/2017	Basement Sink, First Floor Toilet		100	0	0	N/A	None - Could not find a cleanout.	Strong stream of dye in the Waterhouse/Hoitt intersection approximately 10 minutes after tests had been conducted. Waited another 15 minutes for dye in DMH at Waterhouse/Hoitt intersection, but no traces.
52	Hoitt Road	10-2										No access upon initial 2 visits.
55	Hoitt Road	10-2	1	10/20/2017	Basement Toilet		100	0	0	N/A	Basement is finished; Could not locate any structures	Could not locate anything visible. Sewer stack is in a wall, but the cleanout is accessible. No traces of dye seen in DMH.
58	Hoitt Road	10-2										No access upon initial 2 visits.
64	Hoitt Road	10-2										No access upon initial 2 visits.
76	Hoitt Road	10-2	1	10/18/2017	First Floor Toilet		100	0	1	One (1) sump pump connecting to sewer stack.	None	Discovered during dye test that the DMH across from #55 was bone dry. This manhole was apparently also bone dry during the 2008 investigations. Should have inspected this MH previously before conducting dye test.
54	Waterhouse Rd	10-2	1	10/14/2017	First Floor Bathroom Toilet, Basement Sump Sink		100	0	1	Backyard buried drywells with perimeter french drain (new)	Perimeter French Drain	Sump pump pit new. Chronic root problems in service, according to homeowner.