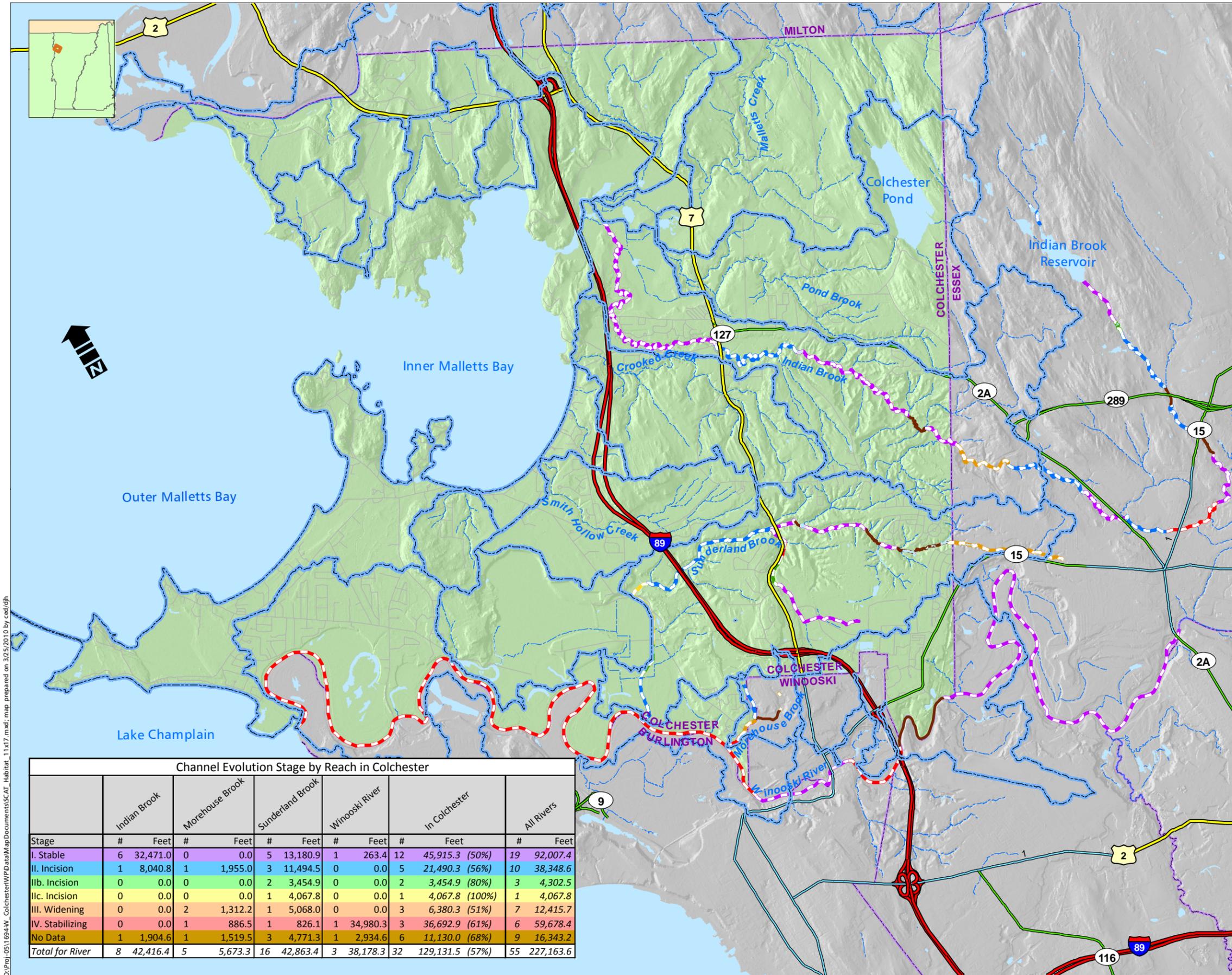


Channel Evolution

Stream Geomorphic Assessment

Integrated Water Resources Management Program

Town of Colchester, Vermont



Channel Evolution Stage

- I. Stable
- II. Incising
- IIb. Incising
- IIc. Incising
- III. Widening
- IV. Stabilizing
- No data
- Not Assessed

I. Stable: In regime, reference to good condition, insignificant to minimal adjustment.
 II. Incising: Fair to poor condition, major to extreme channel degradation.
 III. Widening: Fair to poor condition, major to extreme widening and aggradation.
 IV. Stabilizing: Fair to good condition, major reducing to minor aggradation, widening, and planform adjustments.
 V. Stable: In regime, reference to good condition, insignificant to minimal adjustment.

0 0.5 1 Miles
 Sources: ANR: Stream Geomorphic Assessment data; VCGI: Streams, Roads

Channel evolution is categorized into five stages. Each stage represents the level of stream channel degradation and the channel's adjustment from the reference stream type. The reference stream type refers to the type of stream expected to exist in the current geological setting without human alterations and development. Once the reference stream has been identified, the level of adjustment from the reference stream is used to establish to which of the five stages the channel has currently evolved.

Source: Vermont Agency of Natural Resources. Vermont Stream Geomorphic Assessment Protocol Handbook. 2004.

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Channel Evolution Stage by Reach in Colchester												
	Indian Brook		Morehouse Brook		Sunderland Brook		Winoski River		In Colchester		All Rivers	
Stage	#	Feet	#	Feet	#	Feet	#	Feet	#	Feet	#	Feet
I. Stable	6	32,471.0	0	0.0	5	13,180.9	1	263.4	12	45,915.3 (50%)	19	92,007.4
II. Incision	1	8,040.8	1	1,955.0	3	11,494.5	0	0.0	5	21,490.3 (56%)	10	38,348.6
IIb. Incision	0	0.0	0	0.0	2	3,454.9	0	0.0	2	3,454.9 (80%)	3	4,302.5
IIc. Incision	0	0.0	0	0.0	1	4,067.8	0	0.0	1	4,067.8 (100%)	1	4,067.8
III. Widening	0	0.0	2	1,312.2	1	5,068.0	0	0.0	3	6,380.3 (51%)	7	12,415.7
IV. Stabilizing	0	0.0	1	886.5	1	826.1	1	34,980.3	3	36,692.9 (61%)	6	59,678.4
No Data	1	1,904.6	1	1,519.5	3	4,771.3	1	2,934.6	6	11,130.0 (68%)	9	16,343.2
Total for River	8	42,416.4	5	5,673.3	16	42,863.4	3	38,178.3	32	129,131.5 (57%)	55	227,163.6

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