

## STILL RIVER REGIONAL BASIN TOTAL MAXIMUM DAILY LOAD (TMDL) SUMMARY

A Total Maximum Daily Load (TMDL) analysis was completed for indicator bacteria in the Still River Regional Basin. Waterbodies in the TMDL analysis consist of the Still River, Miry Brook, Kohanza Brook, Padanaram Brook, Sympaug Brook, East Swamp Brook and Limekiln Brook. These waterbodies were included on the Connecticut "*Impaired Waters List*" due to exceedences of the indicator bacteria criteria contained within the State *Water Quality Standards*.

### TMDL Overview

$$TMDL = Point Sources + Nonpoint Sources + Background + Margin of Safety$$

- A requirement under section 303(d) of the Federal Clean Water Act
- A management tool used to restore impaired waters by establishing the maximum amount of a pollutant that a waterbody can receive without adverse impacts to fish, wildlife, recreation, or other public uses
- Developed for waterbodies listed on the CT Impaired Waters List
- Provides guidance for responsible parties to use as a framework for developing a TMDL implementation plan

The TMDLs were drafted using data collected by the CT DEP and the CT DEP *Cumulative Frequency Distribution Function Method*, which expresses the TMDL as an average percent reduction from the current condition required to achieve consistency with the State recreational water quality criteria. Potential sources of indicator bacteria include point and nonpoint sources, such as stormwater runoff, pet waste (dogs), natural sources (wildlife), and illicit discharges. A summary of TMDL percent reductions and land use map are provided below.

The percent reductions established in this TMDL can be achieved by implementing control actions where technically and economically feasible that are designed to reduce indicator bacteria loading from nonpoint sources and point sources. These actions may be taken by State and Local government, academia, volunteer citizens groups, and individuals to promote effective watershed management.

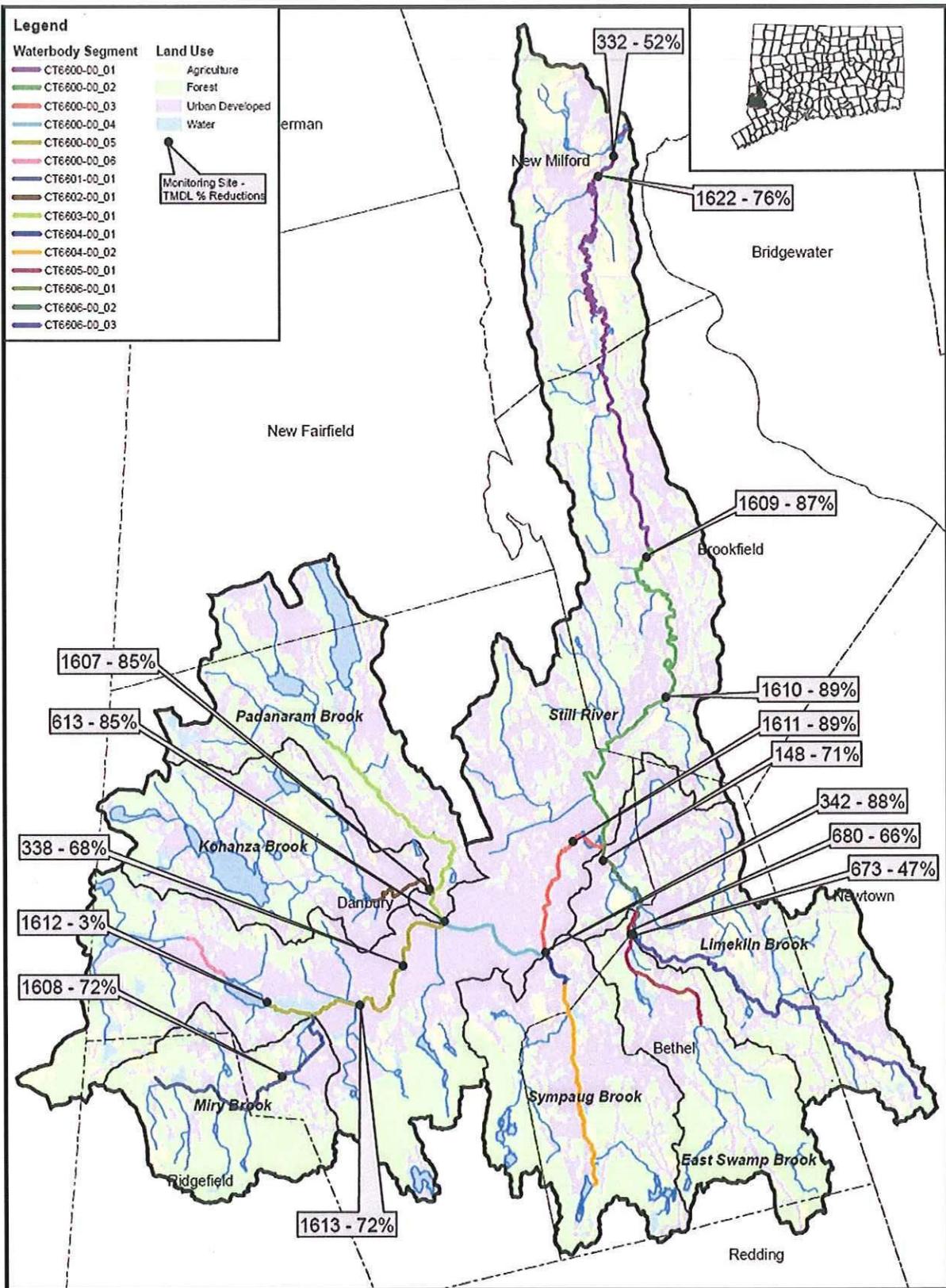
It is important to note that the TMDLs are effective for the entire watershed because they are a measurement of compounded impacts at a single point. As such, corrective actions must be undertaken at the source(s) whether it is a tributary or illicit discharge pipe, in order to achieve the required percent reductions. The approach to TMDL Implementation is anticipated to be on a watershed wide scale, which will require that all sources within the regional basin that are contributing to the in-stream impairment be addressed. The DEP supports an adaptive and iterative management approach where reasonable controls are implemented and water quality is monitored in order to evaluate for achievement of the TMDL goals and modification of controls as necessary. Local watershed groups are encouraged to continue their efforts by working with municipalities to formulate a TMDL implementation plan. An implementation plan formulated at the local level will most efficiently make use of local resources by assigning tasks to responsible parties and should serve as an agreed roadmap to reducing bacteria levels in the Basin.

A copy of the entire Still Regional Basin TMDL can be found on the CT DEP website at <http://www.ct.gov/dep/tmdl>.

A Summary of TMDL Percent Reductions

Waterbody Name	Waterbody Segment Description	Waterbody Segment	Monitoring Site	Average Percent Reduction to Meet Water Quality Standards			
				TMDL	WLA	LA	MOS
Still River (Brookfield / Danbury/ New Milford)	From mouth at confluence with Housatonic River, New Milford, upstream to Lake Kenosia, Danbury	CT6600-00_01	332	52	62	49	Implicit
			1622	76	80	75	Implicit
		CT6600-00_02	1609	87	89	86	Implicit
			1610	89	92	88	Implicit
		CT6600-00_03	1611	89	93	88	Implicit
		CT6600-00_04*	338	68	77	66	Implicit
		CT6600-00_05	338	68	77	66	Implicit
			1613	72	72	72	Implicit
		1612	3	0	3	Implicit	
Miry Brook (Danbury)	From confluence with Still River, Danbury, upstream to headwaters at North Ridgefield Pond outlet, Ridgefield.	CT6601-00_01	1608	72	77	71	Implicit
Kohanza Brook (Danbury)	From confluence with Padanaram Brook upstream to Ridgewood Country Club Pond outlet, Danbury.	CT6602-00_01	1607	85	84	85	Implicit
Padanaram Brook (Danbury)	From confluence with Still River upstream to headwaters at Padanaram Reservoir outlet, Danbury.	CT6603-00_01	613	85	89	84	Implicit
Sympaug Brook (Danbury)	From confluence with Still River upstream to Greatpasture Rd crossing, Danbury.	CT6604-00_01	342	88	91	88	Implicit
East Swamp Brook (Bethel)	From confluence with Limekiln Brook upstream to confluence with Wolf Pit Brook, Bethel.	CT6605-00_01	680	66	79	61	Implicit
Limekiln Brook (Danbury / Newtown)	From confluence with Still River upstream to confluence with Danbury WPCF outfall, Danbury.	CT6606-00_01	148	71	73	71	Implicit
		CT6606-00_03	673	48	60	43	Implicit

\*Data was unavailable for segment CT6600-00\_04. Site 338 was determined to be representative of segment CT6600-00\_04 and used to provide a TMDL analysis.



**Figure 3: Still River Regional Basin Land Use and TMDL % Reductions Map**

