

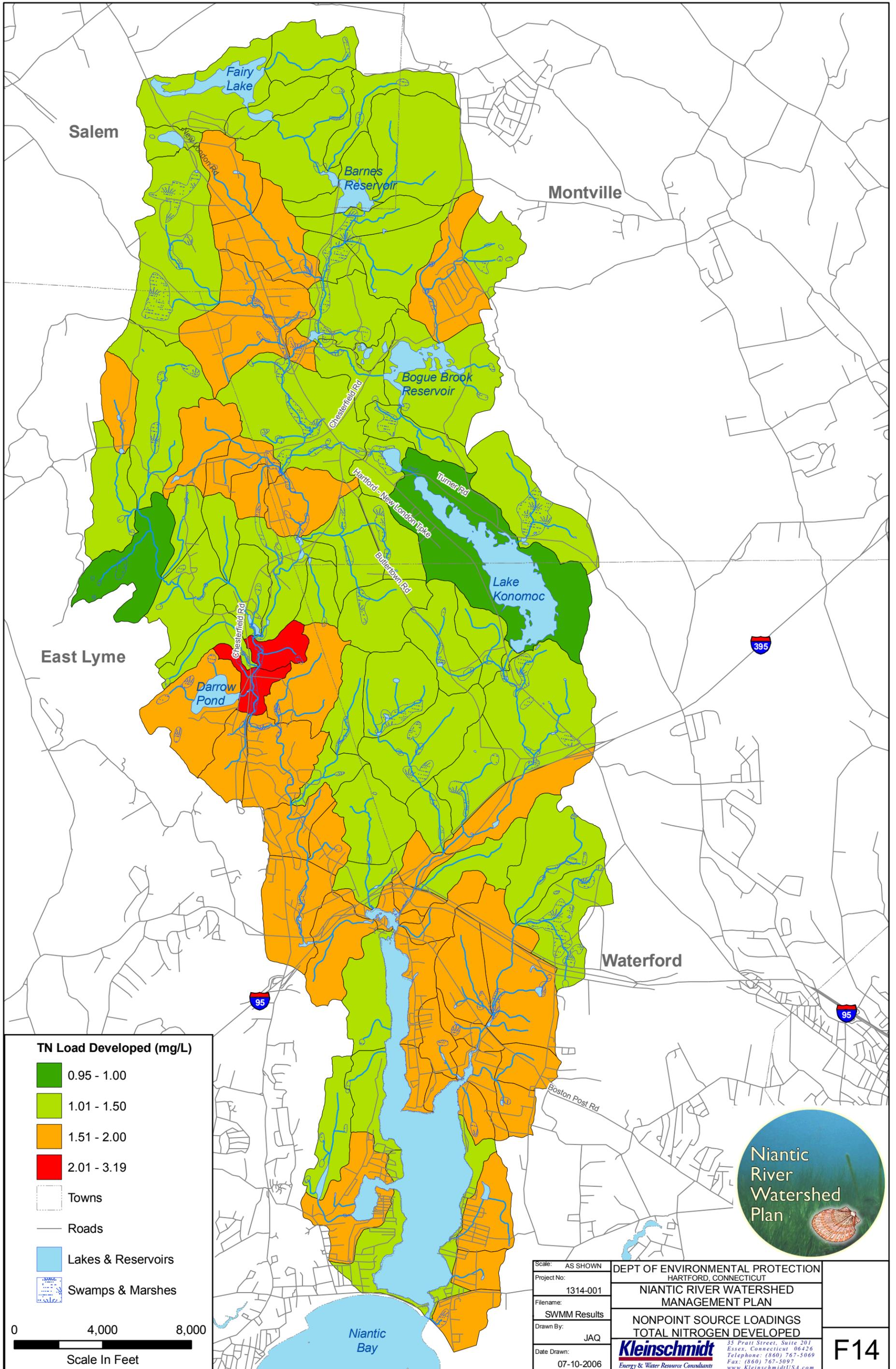
TN Load Existing (mg/L)

- 0.77 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 3.01

- Towns
- Roads
- Lakes & Reservoirs
- Swamps & Marshes



Scale: AS SHOWN	DEPT OF ENVIRONMENTAL PROTECTION HARTFORD, CONNECTICUT
Project No: 1314-001	NIANTIC RIVER WATERSHED MANAGEMENT PLAN
Filename: SWMM Results	NONPOINT SOURCE LOADINGS TOTAL NITROGEN EXISTING
Drawn By: JAQ	Kleinschmidt Energy & Water Resource Consultants
Date Drawn: 07-10-2006	35 Pratt Street, Suite 201 Essex, Connecticut 06426 Telephone: (860) 767-5069 Fax: (860) 767-5097 www.KleinschmidtUSA.com
	F13



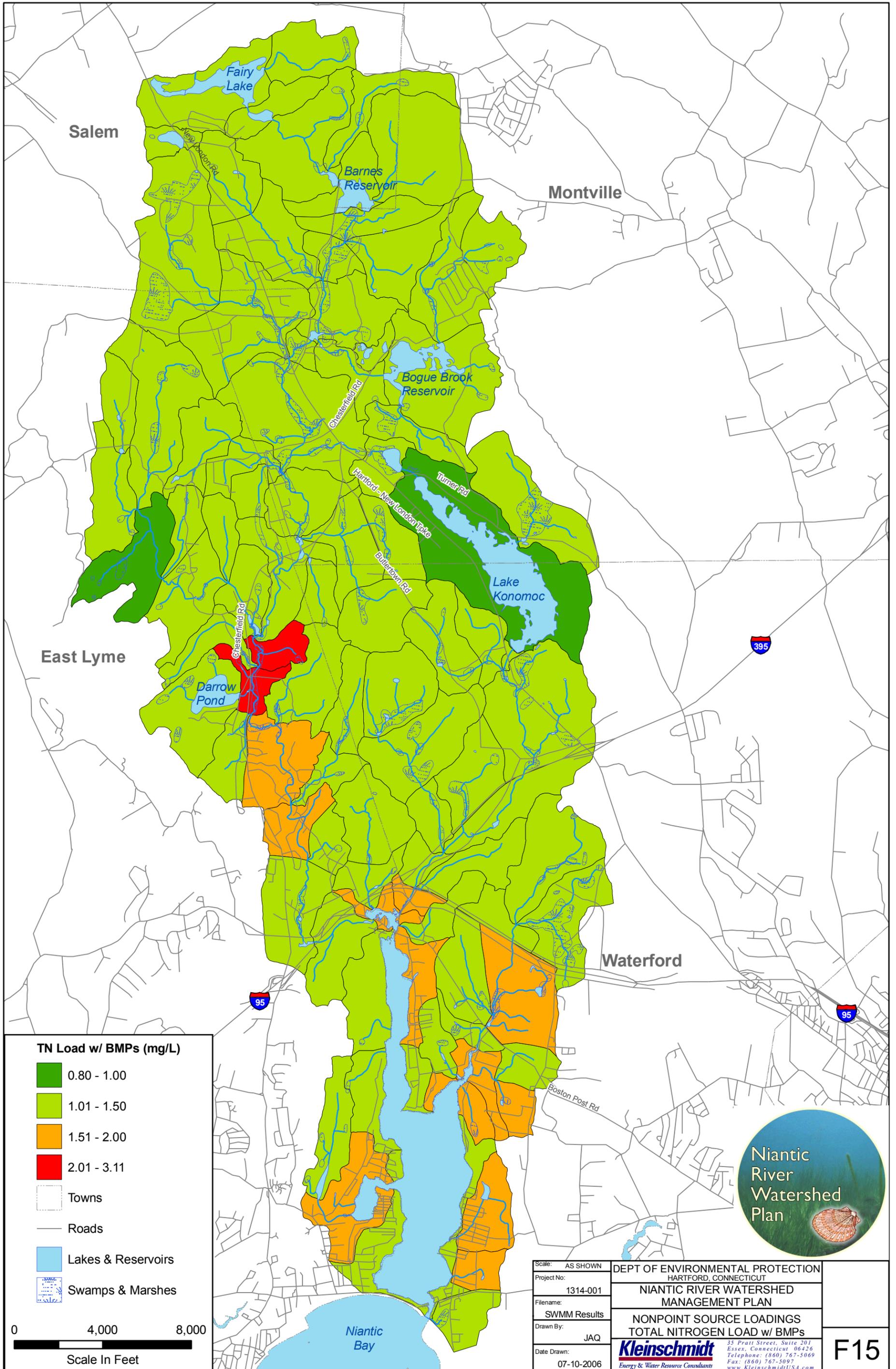
TN Load Developed (mg/L)

- 0.95 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 3.19

- Towns
- Roads
- Lakes & Reservoirs
- Swamps & Marshes



Scale: AS SHOWN	DEPT OF ENVIRONMENTAL PROTECTION HARTFORD, CONNECTICUT
Project No: 1314-001	NIANTIC RIVER WATERSHED MANAGEMENT PLAN
Filename: SWMM Results	NONPOINT SOURCE LOADINGS TOTAL NITROGEN DEVELOPED
Drawn By: JAQ	Kleinschmidt Energy & Water Resource Consultants
Date Drawn: 07-10-2006	35 Pratt Street, Suite 201 Essex, Connecticut 06426 Telephone: (860) 767-5069 Fax: (860) 767-5097 www.KleinschmidtUSA.com
	F14



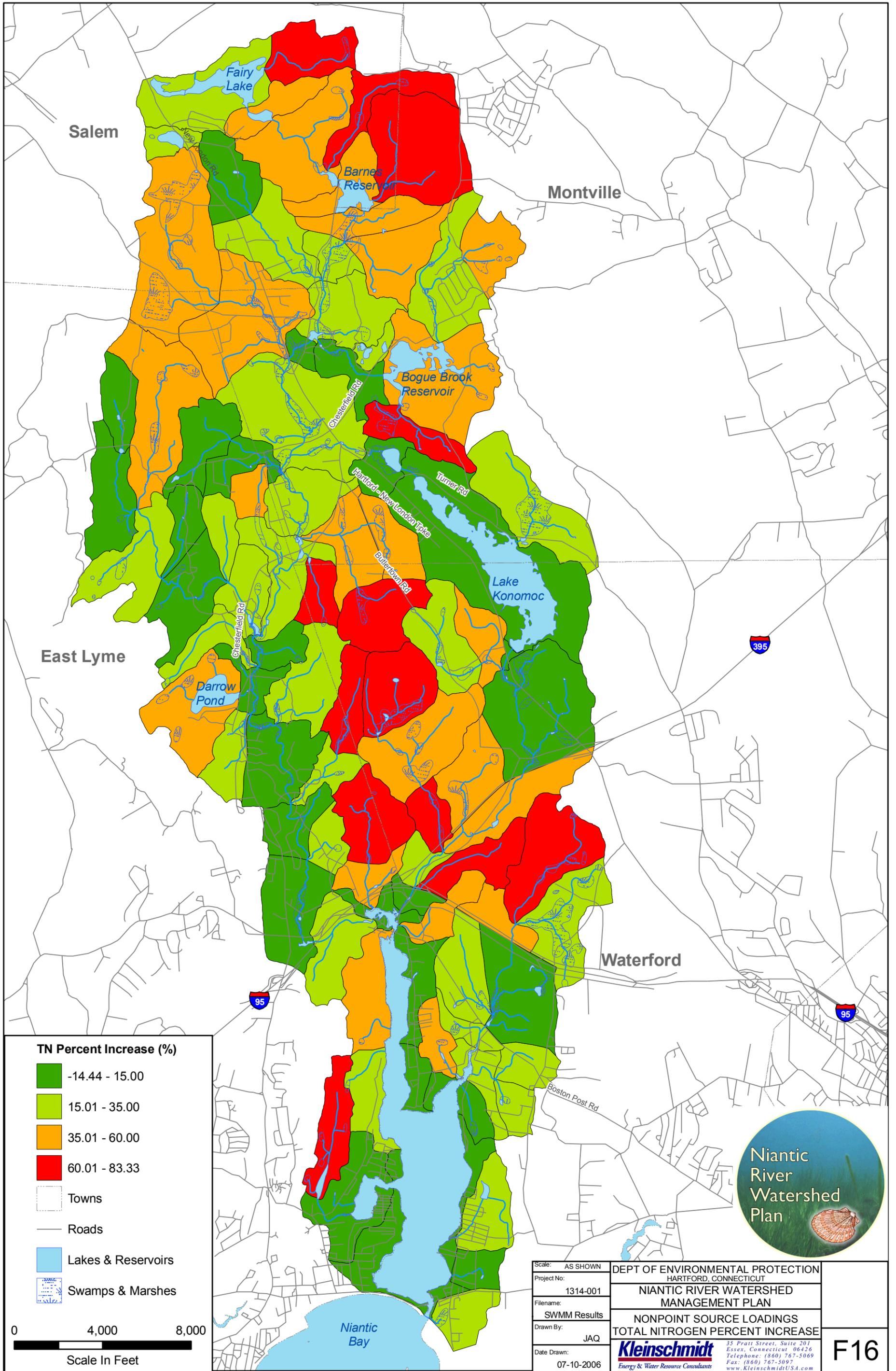
TN Load w/ BMPs (mg/L)

- 0.80 - 1.00
- 1.01 - 1.50
- 1.51 - 2.00
- 2.01 - 3.11

- Towns
- Roads
- Lakes & Reservoirs
- Swamps & Marshes



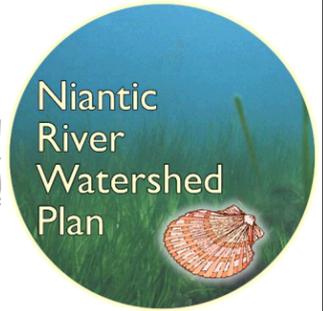
Scale: AS SHOWN	DEPT OF ENVIRONMENTAL PROTECTION HARTFORD, CONNECTICUT
Project No: 1314-001	NIANTIC RIVER WATERSHED MANAGEMENT PLAN
Filename: SWMM Results	NONPOINT SOURCE LOADINGS TOTAL NITROGEN LOAD w/ BMPs
Drawn By: JAQ	Kleinschmidt Energy & Water Resource Consultants
Date Drawn: 07-10-2006	35 Pratt Street, Suite 201 Essex, Connecticut 06426 Telephone: (860) 767-5069 Fax: (860) 767-5097 www.KleinschmidtUSA.com
	F15



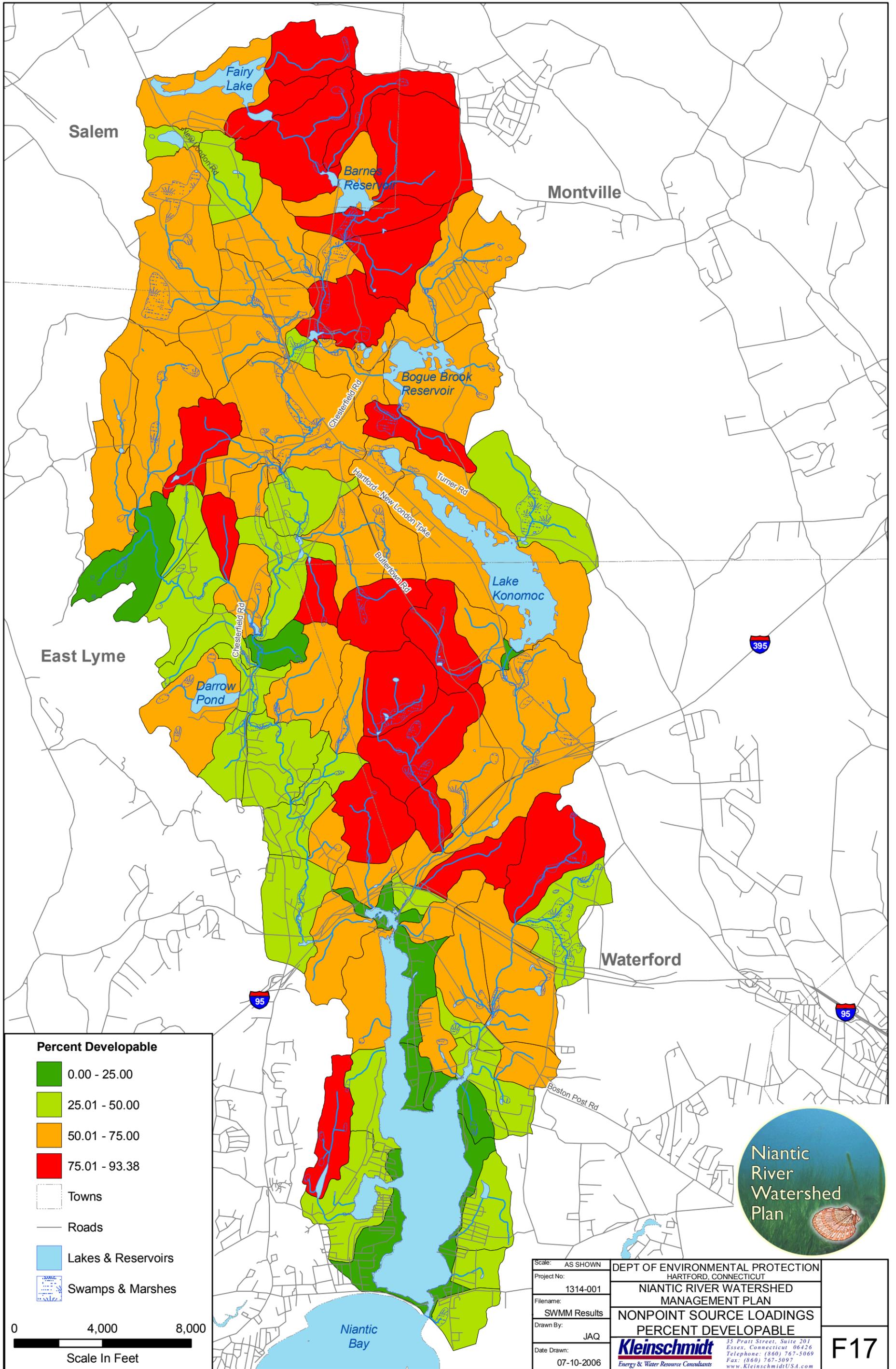
TN Percent Increase (%)

- 14.44 - 15.00
- 15.01 - 35.00
- 35.01 - 60.00
- 60.01 - 83.33

- Towns
- Roads
- Lakes & Reservoirs
- Swamps & Marshes



Scale: AS SHOWN	DEPT OF ENVIRONMENTAL PROTECTION HARTFORD, CONNECTICUT
Project No: 1314-001	NIANTIC RIVER WATERSHED MANAGEMENT PLAN
Filename: SWMM Results	NONPOINT SOURCE LOADINGS
Drawn By: JAQ	TOTAL NITROGEN PERCENT INCREASE
Date Drawn: 07-10-2006	 35 Pratt Street, Suite 201 Essex, Connecticut 06426 Telephone: (860) 767-5069 Fax: (860) 767-5097 www.KleinschmidtUSA.com
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Percent Developable

- 0.00 - 25.00
- 25.01 - 50.00
- 50.01 - 75.00
- 75.01 - 93.38

- Towns
- Roads
- Lakes & Reservoirs
- Swamps & Marshes



Scale: AS SHOWN	DEPT OF ENVIRONMENTAL PROTECTION HARTFORD, CONNECTICUT
Project No: 1314-001	NANTIC RIVER WATERSHED MANAGEMENT PLAN
Filename: SWMM Results	NONPOINT SOURCE LOADINGS PERCENT DEVELOPABLE
Drawn By: JAQ	Kleinschmidt Energy & Water Resource Consultants
Date Drawn: 07-10-2006	35 Pratt Street, Suite 201 Essex, Connecticut 06426 Telephone: (860) 767-5069 Fax: (860) 767-5097 www.KleinschmidtUSA.com
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APPENDIX G

Toolbox of Planning and Zoning Techniques

Implementation Definitions:

High - low cost; examples readily available in other CT communities; administrative/implementation process not complex; limited ongoing monitoring required

Medium - moderate cost; examples not readily available in other CT communities; administrative/implementation process may require added municipal staff; ongoing monitoring required

Low - High cost; Examples rare or not applied in other CT communities; administrative/implementation process complex and requires professional municipal staff; limited ongoing monitoring critical to success

		High			Low			Medium																
Implementation Ability		☺			☹			☺																
Protection Value		☺			☹			☺																
Issue																								
Threat																								
Tool																								
		1	3	2	4	5	6	7, 11 and 24	8	13	14	10 and 12	16	13	14	15	17	18	19	20	21	22	23	
		Development	Development		Development	Roads	Roads	Riparian Corridor	Development		Roads	Development		Roads	Roads	Roads			Development	Development	Roads			
REGULATORY	Open space set asides	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Fee-in-lieu of open space/ Alternative open space Conservation Subdivisions (also termed cluster subdivisions and open space subdivisions)	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Buffers with setbacks	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Conservation easements	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Density based zoning	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Regulatory/Density bonuses	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Developable area or soils based zoning	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Buildable area regulations	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Ridgeline protection	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Planned-unit development	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Parking regulation and management	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Erosion and sedimentation controls	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Slope limitations	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Landscaping requirements	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Lot coverage/impervious surface restrictions	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Road ordinances/construction standards	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Scenic road ordinance	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Stormwater management requirements	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Engineering review	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Design or Site Plan Review	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Notification to State Archaeologist of development within 300 feet of stream	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Transfer of Development Rights	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Moratorium on Development	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Conservation overlay zone	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Aquifer protection ordinance	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Anti-blight/dumping ordinance	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Resource extraction regulations	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Wetlands and watercourses regulations	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Floodplain management	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
	Telecommunications towers regulations	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	
Clearcutting/timber cutting regulations	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
Septic system ordinance/underground storage tank ordinance	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
PLANNING	Greenway Plan/Open Space Plan	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
	Niantic River Watershed Commission	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
PRESERVATION/A CQUISITION		☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
	Public Act 490	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
	Purchase of development rights	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
	Purchase of conservation easements	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
TOWN MAINTENANCE PRACTICES	Road maintenance best management practices	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
	Road salting/sanding practices	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
	Household hazardous waste collection	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
TOWN STAFFING	Zoning Enforcement Official, Wetlands Officer, Conservation Officer, other similar titles/positions	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
INFORMATION /EDUCATION	Data Gathering/Natural resource Inventory	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		
	Public Education/Municipal officials training/information programs	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺	☺		