

ATTACHMENT A: Niantic River Estuary Data Sources

Type	Agency/Organization	Format	Contact	Example	Date
Water quality, autotroph, nutrient loading and internal cycling study	Niantic River Nitrogen Work Group Dominion Millstone Environmental Lab P.O. Box 128 Waterford, CT 06385 CT DEEP - LIS Study 79 Elm Street, Hartford, CT 06106	Electronic, paper	Don Landers (860) 444-4235 Donald.F.Landers@dom.com Kelly Streich Kelly.Streich@ct.gov (860)-424-3864	Biweekly water dissolved organic and inorganic nitrogen, phosphorous, DO, salinity, temperature macrophyte/particulate CHN, Isotopic N, macrophyte biomass at 5 stations in Niantic River and Bay	2011-present
Water Quality Monitoring – Latimer Brook	Niantic River Watershed Committee	Electronic	Judy Rondeau Judy.Rondeau@comcast.net (860) 887-4163 x 401	Monthly Latimer Brook water quality monitoring (temp., DO, pH, conductivity, nitrate) at 9 stations	April 2012 - present
Water Quality Monitoring	Save the River/ Save the Hills P.O. Box 505 Waterford, CT 06385	paper, electronic	Fred Grimsey (860) 442-8349	Physical oceanography, meteorological conditions & nutrients.	2002-2003
Ecological monitoring study	Dominion Millstone Environmental Lab P.O. Box 128 Waterford, CT 06385	Electronic, paper	Don Landers (860) 444-4235 Donald.F.Landers@dom.com	Fish & invert. species composition & abundance. Physical oceanography & meteorological conditions. Eelgrass abundance & distribution surveys	Annual Reports 1976-present
Water Quality, Nonpoint source pollution, OLISP Individual and General Permit applications, LIS TMDL, Integrated Water Quality Assessment Report (305b)	CT DEEP 79 Elm St. Hartford, CT 06106	Electronic, paper	Mary-beth Hart Marybeth.Hart@ct.gov (860) Kelly Streich Kelly.Streich@ct.gov (860)-424-3864	Water quality impairment data for developing CWA 303d biennial reports. Set limits for bacteria and nutrient loads in Niantic River. Data requests to support OLISP permits (docks, dredging)	
Tributary Water Quality (nutrients, chemicals, bacteria), Stream Flow	USGS CT Water Science Center 101 Pitkin St E Hartford, CT 06108	Electronic/web based report available online, electronic database	John Mullaney 860-291-6760 jmullane@usgs.gov	Real time stream gauging (web-based), water quality, nutrient, chemistry, bacterial data extraction requests. http://pubs.er.usgs.gov/publication/sir20135008	2005, 2008-2011, 2012 data to be published
Groundwater nutrient loads	USGS CT Water Science Center 101 Pitkin St E Hartford, CT 06108	Electronic/web based report available online, electronic database	John Mullaney 860-291-6760 jmullane@usgs.gov	Evaluation of the Effects of Sewering on Nitrogen Loads to the Niantic River http://pubs.usgs.gov/sir/2015/5011/	2005-2011
Nitrogen loading models. Water quality, macroalgae, eelgrass, sediments, modeling	CT DEP Long Island Sound Research Fund www.lisrc.uconn.edu/eelgrass/index.html	Report, web based	Jim Kremer/Jamie Vaudrey 860-405-9149 Jamie.vaudrey@uconn.edu	Establishing restoration objectives for eelgrass in Long Island Sound. Part II: Case studies	2002-2003

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Habitat characterization/ evaluation of eutrophication and hypoxia	Univ. Conn. Avery Pt. 1084 Shennecossett Rd Groton, CT 06340	Report in prep.	Jamie Vaudrey 860-405-9149 Jamie.vaudrey@uconn.edu	Summertime water quality (DO, Sal., pH, temp., light attenuation, secchi, dissolved nutrients), sediment quality (TOC, %silt/clay) and habitat characterization	2011-2014
Sediment Bio-geochemistry, Denitrification, ANAMMOX	Univ. Conn. Avery Pt. 1084 Shennecossett Rd Groton, CT 06340	Report in prep.	Craig Tobias Craig.Tobias@uconn.edu	Summertime sediment core sampling at numerous sites in the Niantic River Stable N isotope study	2012
Eelgrass monitoring, mapping and habitat assessment	CT DEP Long Island Sound Research Fund www.lisrc.uconn.edu	Final Grant Report CWF-314-R	Charles Yarish Charles.Yarish@uconn.edu	Environmental monitoring, seagrass mapping and biotechnology as a means of fisheries habitat enhancement along the Connecticut coast	2006
Oxygen Depletion in Connecticut Estuarine Waters	CT DEP Long Island Sound License Plate Funding provided to The Coast and Harbor Institute in Woods Hole, MA (PI's – Gaines, A.G., and S.M. Pratt)	Final Grant Report dated January 15, 2003	Kelly Streich Kelly.Streich@ct.gov (860) 424-3864	Oxygen depletion and hydrogen sulfide study for select coastal ponds and estuaries in Connecticut (including the Niantic River)	2003
Watershed nitrogen loading modeling	U.S. EPA Office of Research and Development National Health and Environmental Effects Research Laboratory Atlantic Ecology Division 27 Tarzwell Drive, Narragansett, RI 02882 401-486-9749	Published paper Estuarine, Coastal and Shelf Sci. 89:125-136	Jim Latimer Latimer.Jim@epa.gov M.A. Charpentier	Application of a watershed nitrogen loading model to 74 New England estuaries (including the Niantic River)	2010
Nitrogen loading and eelgrass relationships	U.S. EPA Office of Research and Development National Health and Environmental Effects Research Laboratory Atlantic Ecology Div. 27 Tarzwell Drive, Narragansett, RI 02882 401-486-9749	Published paper Estuarine, Coastal and Shelf Sci. 90:231-240	Jim Latimer Latimer.Jim@epa.gov S.A. Rego	Quantification of the extent of eelgrass as a function of watershed-derived nitrogen loading for 62 New England embayments	2010
Long-term eelgrass monitoring study	Dominion Millstone Environmental Lab P.O. Box 128 Waterford, CT 06385	Published Paper J. Sea Res. 49:11-26	M. Keser, J.T. Swenarton, J.M. Vozarik & J.F. Foertch Contact: John.T.Swenarton@dom.com	Decline in eelgrass (<i>Zostera marina</i>) in Long Island Sound near Millstone Point, Connecticut (USA) unrelated to thermal input.	2003
Hydrodynamic dye study of the Niantic River. Flushing rate estimates.	Dominion Millstone Environmental Lab P.O. Box 128 Waterford, CT 06385	Paper report	Don Landers (860) 444-4235 Donald.F.Landers@dom.com	Application of a 2-D particle tracking model to simulate entrainment of winter flounder larvae at the Millstone Nuclear Power Station	1988

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<p>Biological – shellfish, eelgrass Water quality – DO, temperature</p>	<p>Northeast Fisheries Science Center, Aquaculture and Enhancement Division, Milford Laboratory, National Marine Fisheries Service, 212 Rogers Avenue, Milford, CT 06460</p>	<p>Published paper Aquacult. Internat. 8: 139-158</p>	<p>R. Goldberg, J. Pereira & P. Clark</p>	<p>Strategies for enhancement of natural Bay scallop, <i>Argopecten irradians</i>, populations: A case study in the Niantic River estuary, Connecticut, USA.</p>	<p>2000</p>
<p>Water quality study, physical modeling</p>	<p>Long Island Sound Foundation Collection, UConn Avery Point Campus Library Dominion Millstone Environmental Lab Library</p>	<p>Paper report, 3 volumes</p>	<p>Don Landers (860) 444-4235 Donald.F.Landers@dom.com</p>	<p>A study of the Niantic River estuary, Niantic, Connecticut: Progress report phases I & II, data file of the Niantic River estuary. Ronald C. Kollmeyer, David A. McGill, USCGA Office of Research and Development</p>	<p>1970-1971</p>