

# Appendix 5

# Compilation of

# Existing Monitoring

# Plans



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## Appendix 5. Compilation of Existing Monitoring Plans

This appendix lists the key, relevant monitoring plans in Rhode Island which monitor key species, guild or habitat parameters that will be part of Rhode Island’s broad monitoring framework [sources include RIEMC (2005, 2010 and 2012)]. This list represents many partner programs and an important implementation and coordination part of this WAP effort to adaptively manage, incorporate, and communicate goals and data as each plan is revised and updated. Because monitoring will occur at the state, local, regional, national and international levels, it will require the establishment of this broad framework for monitoring at all of these levels. This will also allow partners to incorporate the SWG targets into their plans. This directly addresses Element 5 as well as Elements 6 and 7.

### Monitoring Programs and Plans in Rhode Island

Monitoring Program or Action	Implementation Lead	Level of Monitoring		
		Species	Guild	Habitat
RI Audubon Birdathon	Audubon Society of Rhode Island	X	X	
Diamondback Terrapin Population Study	Barrington Land Conservation Trust	X		
Barrington and Palmer River Monitoring (physical parameters)	Brown University, Dept. of Geosciences			X
Summer on the Water Program (water and faunal sampling Great Salt Pond)	Committee for the Great Salt Pond		X	X
Marine and Estuarine Aquatic Invasive Species	CRMC and many others	X		
Coastline Erosion and Accretion	CRMC, URI			X
Hazardous waste site clean-up and remediation (Superfund sites)	Dept. of Defense, US Navy			X
Coastal 2000/EMAP (coastal ecosystem health)	EPA		X	X
Aircraft remote sensing for Chlorophyll-a for Narragansett Bay and coastal waters	EPA-AED			X
Survey and Monitoring Programs, including Volunteer DO Night Survey on Upper Narragansett Bay	Estuary Programs, RI DEM			
Spring and fall banding	Lapham Family	X	X	
Blackstone and Woonasquantucket Rivers Watershed Education Project (water quality)	Massachusetts Audubon Society, Smithfield and Tolman High Schools			X
Moshassuck River Monitors (water quality)	Moses Brown and Wheeler Schools			X
Narragansett Bay Program, RI DEM	Narragansett Bay	X	X	X
Providence River and Upper Bay Sampling (water quality)	Narragansett Bay Commission (NBC)			X
Watershed Counts	Narragansett Bay Region Indicator Development Workgroup		X	X
Christmas Bird Counts	National Audubon Society	X	X	

**APPENDIX 5: COMPILATION OF EXISTING MONITORING PLANS**

Monitoring Program or Action	Implementation Lead	Level of Monitoring		
		Species	Guild	Habitat
Bird Source (national monitoring program)	National Audubon Society and Cornell Lab of Ornithology		X	
Regional River Fecal Monitoring (5 rivers)	NBC			X
Seekonk River Monitoring (water quality)	NBC			X
Ten Mile River Sampling (water quality)	NBC			X
Surface Water Quality Mapping	NBC			X
Benthic Video Monitoring	NBC		X	
Phytoplankton Monitoring	NBC		X	
Upper Bay Dissolved Oxygen Surveys	NBEP, Brown University, NBC			X
National Estuarine Reserve Systems: Narragansett Bay, RI (water quality, bio-indicators, invasive species)	NBNERR		X	X
Lobster Tagging Program	NMFS, RI Sea Grant, CMER	X		
National Status and Trends Program on Narragansett Bay (water quality, fish health, benthic surveys)	NOAA, RI DEM		X	X
NOAA Restoration Center Programs (oil spill and contaminant release response and restoration)	NOAA, RI DEM	X	X	X
Narragansett Bay Window (water quality and benthic surveys)	NOAA/NMFS, EPA, RI DEM, URI			X
Norman Bird Sanctuary Monitoring (amphibians, grassland birds, marshland)	Norman Bird Sanctuary		X	X
Pawtuxet River Authority (water quality)	Pawtuxet River Authority			X
Oceanology Program on Little Narragansett and Pawcatuck Estuaries (water quality, benthic surveys)	Pine Point School		X	X
Runnins River Monitoring (water quality)	Pokanoket Watershed Alliance			X
Prudence Island Conservancy Citizens Monitoring Program (water quality, meteorological parameters)	Prudence Island Conservancy, Narragansett Bay NERR			X
Raytheon Employees Wildlife Habitat Committee (flora and fauna inventories)	Raytheon, INC		X	
Adult American Shad and River Herring Monitoring (5 locations)	RI DEM	X		
Air Quality Monitoring (15 locations)	RI DEM			X
Ambient River Program (water quality)	RI DEM			X
Aquatic Furbearer Survey	RI DEM	X	X	
Artificial Substrate Monitoring (benthic surveys)	RI DEM		X	X
Biotoxin Shellfish Poisoning Sampling	RI DEM		X	
Bird Species Breeding Monitoring (colonial waterbirds)	RI DEM	X	X	
Chemical Baseline Monitoring (water quality at 25 locations)	RI DEM			X
Fin Fish Monitoring on Coastal Ponds	RI DEM	X	X	

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Monitoring Program or Action	Implementation Lead	Level of Monitoring		
		Species	Guild	Habitat
Gill Net Monitoring Program (pelagic gamefish)	RI DEM	X	X	
Juvenile American Shad and River Herring Monitoring (5 locations)	RI DEM	X		
Juvenile Fin Fish Survey (18 locations on Narragansett Bay)	RI DEM	X	X	
Largemouth Bass Monitoring (5 locations)	RI DEM	X		
Lobster Fishery Monitoring	RI DEM	X		
Rapid Bioassessment Protocol Monitoring (45 stream locations for macroinvertebrates)	RI DEM		X	X
RI Pollution Discharge Elimination System Monitoring (water quality for >335 locations)	RI DEM			X
Shellfish Growing Area Monitoring (water quality for 305 locations)	RI DEM		X	X
Shellfish Water Quality Monitoring Program (bacteria sources)	RI DEM		X	X
Shellfish Resource Program (shellfish harvest for human consumption)	RI DEM	X		
Summer Inland Breeding Survey of Canadian Geese	RI DEM	X		
Surface Water Quality Assessment Program	RI DEM			X
Upland Game Species Monitoring	RI DEM	X		
Wade-able Stream Macroinvertebrate Program	RI DEM		X	
Waterfowl Survey	RI DEM	X	X	
Rotating Basin Water Quality Monitoring Program (invasive plants)	RI DEM			X
BI Veterans Day bird count	RI DEM	X	X	
President's Day bird count	RI DEM	X	X	
Finfish Trawl Survey, Narragansett Bay	RI DEM DFW	X	X	X
Aquatic Invasive Species Surveys	RI DEM, CRMC, RINHS, URI	X		
Rotating Assessments of Rivers and Streams[physical, chemical, biological (macroinvertebrates) parameters]	RI DEM, DOH, EPA		X	X
Seasonal Finfish Trawl Survey	RI DEM, Marine Fisheries (1979-present)	X	X	X
Large River Water Quality Monitoring	RI DEM, NBC, USGS			X
Narragansett Bay Fixed-site Network (water quality)	RI DEM, URI, NBC, NBNERR			X
Coastal Fishery Resource Assessment Trawl Survey (18-28 stations in Narragansett Bay, RI and Block Island Sounds)	RI DEM, USFWS	X	X	X
Streamflow Gage Network	RI DEM, USGS, WRB, Providence Water Supply Board, Ocean State Power			X
Beach Program (water quality)	RI Department of Health			X
Drinking Water Monitoring (water quality)	RI Department of Health			X
Surveys (rare species, natural communities, invasive species)	RI Natural History Survey	X	X	X

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Monitoring Program or Action	Implementation Lead	Level of Monitoring		
		Species	Guild	Habitat
Forest Health Works Project (invasive plants)	RI NHS			X
Narragansett Bay Rapid Assessment Survey for Marine Bioinvasive Species	RI Sea Grant, RI CRMC, RI DEM	X	X	
Lobster Larval Settlement Index	RI Sea Grant, RI DEM	X		
Blue Water Task Force Beachscape (coastal water quality)	RI Surfrider Foundation			X
Rhode Island Bristol County Observer Network (RIBCON) (meteorological parameters)	RIBCON			X
Salt Pond Watchers (water quality)	Salt Ponds Coalition			X
Bay Watchers (water quality, marsh health, seal and horseshoe crab surveys)	Save The Bay, RI DEM	X		X
Save The Bay's Monitoring (salt marsh and eelgrass restoration monitoring)	Save The Bay, RI DEM	X		X
Fin Fish Monitoring Great Salt Pond	The Nature Conservancy	X	X	X
Disposal Area Monitoring System (water quality, faunal surveys at offshore disposal sites)	U.S. Army Corps of Engineers			X
Watershed Watch Program (coastal ponds and embayments)	URI			X
Banding at Doug Krause	URI	X	X	
University of Rhode Island Watershed Watch (water quality for ~250 locations)	URI Cooperative Extension			X
Long-term beach profile monitoring (4 locations)	URI Dept. of Geosciences, RI Sea Grant			X
Benthic In fauna in Narragansett Bay	URI Graduate School of Oceanography		X	X
Quonochontaug and Salt Ponds Research Fellowships (shellfish health, winter flounder, water quality, sediments)	URI Graduate School of Oceanography	X	X	X
Water Column Nutrients (long-term for 1 location)	URI Graduate School of Oceanography			X
Narragansett Bay Phytoplankton Surveys	URI Graduate School of Oceanography		X	
Monitoring Network for Narragansett Bay Waters (water quality for 6 locations)	URI Graduate School of Oceanography, NOAA, EPA, RI DEM			X
Kingston Wildlife Research Station Fall Migratory Bird Monitoring	URI, Audubon Society of RI	X	X	
Cooperative Agricultural Pest Survey (CAPS)	USDA/APHIS	X	X	
Pawcatuck Watershed Monitoring (water quality)	Wood Pawcatuck Watershed Association			X