

Kleinschmidt Report to PNB (2003)	Charge to RI Environmental Monitoring Collaborative (RIGL 46-31-9 (e))	DEM Monitoring Plan¹ & RIEMC Projects
Landscape Composition (Bay)		
Shoreline buffers	Land cover or uses w/in the shoreline buffer	RI Natural History Survey proposal to RIEMC
Landscape Composition (Watershed)		
Impervious surface	Land cover or uses w/in the shoreline buffer	RI Natural History Survey proposal to RIEMC
Shoreline buffers		RI Natural History Survey proposal to RIEMC
Protected undeveloped land		RI Natural History Survey proposal to RIEMC
Population density		
Habitat Condition (Bay)	Presence of aquatic nuisance species	
Coastal wetlands		RI Natural History Survey proposal to RIEMC
Benthic habitats		GSO benthos monitoring, SAV monitoring proposal
Habitat Condition (Watershed)		
Anadromous fish habitat		
Freshwater wetlands		In Development by DEM Wetlands Division
Forested lands		RI Natural History Survey proposal to RIEMC
Water and Sediment Condition (Bay)		
Water temperature	Water temperature	DEM water monitoring plan
Salinity	Salinity	DEM water monitoring plan
Oxygen	Dissolved Oxygen	DEM water monitoring plan
Nitrogen	Nitrogen	DEM water monitoring plan
Pathogens	Bacteria	DEM water monitoring plan
Metals		DEM water monitoring plan
Organics		DEM water monitoring plan
Total Suspended Solids		DEM water monitoring plan
Flows and circulation	Water flows and circulation	NBC hydrological modeling project
Water and Sediment Condition (Watershed)		
Water temperature	Water temperature	DEM water monitoring plan
pH	pH	DEM water monitoring plan
Oxygen	Dissolved Oxygen	DEM water monitoring plan
Phosphorous	Phosphorous	DEM water monitoring plan
Nitrogen	Nitrogen	DEM water monitoring plan
Pathogens	Bacteria	DEM water monitoring plan
Metals		
Organics		DEM water monitoring plan
Total Suspended Solids		DEM water monitoring plan
Hydrology/flows	Water flows and circulation	DEM water monitoring plan

¹ This includes monitoring by partner agencies outside DEM such as the Health Department, Narragansett Bay Commission, and URI Watershed Watch

Fish and Wildlife Populations and Biodiversity (Bay)	Presence of aquatic nuisance species	
Fish and Invertebrates	Species assemblages and relative abundance (finfish)	DEM water monitoring plan
Shellfish	Species assemblages and relative abundance (shellfish)	DEM water monitoring plan
Benthic Organisms	Species assemblages and relative abundance (benthic macroinvertebrates)	GSO benthos project
Birds and Marine Mammals		
Chlorophyll		DEM water monitoring plan
Primary production		DEM water monitoring plan
Fish and Wildlife Populations and Biodiversity (Watershed)	Presence of aquatic nuisance species	
Fish and Invertebrates	Species assemblages and relative abundance (finfish)	DEM water monitoring plan
Macroinvertebrates	Species assemblages and relative abundance (benthic macroinvertebrates)	DEM water monitoring plan
Birds and Mammals		
Reptiles and Amphibians		
Chlorophyll		DEM water monitoring plan
Primary production		DEM water monitoring plan