WATER QUALITY

TREATED WATER

+ STRINGENTS

+ QUALITY of WATER

+ PERMITS

NPDES PERMIT PROGRAM

INCREASED # of ADVANCED TREATMENT PLANTS

TREATMENT PLANTS

QLTY WATER

IF ↑ FAILED TESTING

AT SAME TIME CLEANING UP WATER **AND** DEV

MORE IMPERVIOUS AREA w/DEV.

INCREASED FLOW

NITROGEN & BACTERIA

POLLUTANT LOAD

STORMWATER POLLUTION PERMITS

LOOK for CONNECTIONS

NO ONE FIX

SEASONAL VARIANCE

SPATIAL/TEMPORAL TRENDS

CONTAMINANTS of EMERGING CONCERN (CECs)

ie PHARMA

HAZARDOUS MATERIALS

AMOUNTS LOW 7 NANOGRAMS / LITER

SEPTIC SYSTEMS

NEED for: PUBLIC EDUCATION

DATA SAMPLING

ALSO HUMAN USE & ANIMALS...

ROBUST DATA SETS

IMPACTED BY RAINFALL & RUNOFF

SOME BEACHES PROACTIVE

RAINFALL & BEACH EXCEEDANCES

NO SWIM ZONES

and BEACH CLOSURES

TIDES

PROCESSED WATER

NEW TREATMENT PLANTS

LOCAL EFFORTS

BEACH CLEAN UPS

ADDRESSING SYSTEMIC ISSUES of DRAINAGE WATERSHED

INSPECTIONS

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NATIONAL ESTUARY PROGRAM
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