Requests for Modifications to Settlement Agreement Mandated Monitoring at Three Structures and a Preview of Future Requests

TOC 10/18/05
Four Areas of Change

- NECP permit modification eliminates monitoring at three structures.

Preview of future requests

- NECP permit modification eliminates 16 parameters at 26 stations.
- NECP permit modification at S9 and S9A
- Eliminate Chlorophyll and Alkaline Phosphatase Analysis from 14 structures.
Eliminate Monitoring at Three Structures

• S14
  – Superseded by S12s.

• S175 No longer an input to ENP
  – Closed under IOP
  – Levee degraded
  – Infrequently used (i.e. storm events)

• S332 No longer an input to ENP
  – Levee degraded
  – Infrequently used (i.e. storm events)
NECP Parameter changes to 26 stations

Eliminated parameters:

- OPO4, NH4, NO2,
- Color, TSS, Alkalinity
- Cl, K, Ca, Mg, Fe, SiO2,
- Hardness, Cd, Cu, Zn

At:

- Acme1DS, G123, G94D, S140, S141, S144, S145, S146, S151, S174, S177, S178, S18C, S190, S31, S331, S333, S337, S34, S343A, S343B, S38, S39,
- S11A(S143), C123SR84(S339,S340), S12D(G346,G347,G71)
NECP Standard Monitoring Set

- Physical Parameters BWF/M
  - (D.O., pH, T, Scond., Turbidity)

- Macronutrients BWF/M
  - (TP, TKN, NOX)

- SO4 Q
NECP Modifications at S9

- Physical parameters BWf/M
  - T, DO, SCond, pH, Turbidity,
  - Color, TSS

- Nutrients ACF-weekly
  - TP, TKN, NOX
  - NH4, PO4, NO2

- Ions Q
  - SO4
  - Alk, Cl, Na, K, Ca, Mg, Fe, SiO2

- Trace metals SA
  - Cd, Cu, Zn, Hardness
NECP Modifications at S9A

• Physical parameters BWf/M
  – T, DO, SCond, pH, Turbidity,
  – Color, TSS

• Nutrients
  – TP Wf/M
  – TKN, NOX BWf/M
  – NH4, OPO4, NO2

• Ions Q
  – Alk, Cl, Na, K, Ca, Mg, Fe, Sio2, SO4
Chlorophyll and Alkaline Phosphatase Activity (APA)

• Currently monitored biweekly at 14 structures
Chlorophyll Surface Water Measurements

- As a measure of productivity it does not account for
  - periphyton
  - rooted macrophytes
  - floating macrophytes
  - local vs imported sources
APA Surface Water Measurements

• Has not transitioned from a research parameter to a monitoring tool, no applicable standard.
• Ongoing research shows APA to be influenced by a wide variety of factors including substrate, algal species, OPO4 recycling rate, etc.
• May be more applicable in the marsh where influencing factors can be characterized extensively.
• Usefulness at structures debatable.
WCA 1 SAMPLING LOCATIONS
AFFECTED BY POP NECP MODIFICATIONS
WCA 2 SAMPLING LOCATIONS
AFFECTED BY POP NECP MODIFICATIONS