

Requests for Modifications to Settlement Agreement Mandated Monitoring

Pete Rawlik
Sr. Environmental Scientist
SFWMD

TOC
February 21, 2006

Three Areas of Change

- NECP permit modification eliminates 16 parameters at 26 stations
- NECP permit modification at S9 and S9A
- Eliminate Chlorophyll species and Alkaline Phosphatase analysis from 14 structures

NECP Parameter changes to 26 Stations

Eliminated parameters:

- OPO_4 , NH_4 , NO_2 ,
- Color, TSS, Alkalinity
- Cl, K, Ca, Mg, Fe, SiO_2 ,
- 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, NO_x)
- **SO₄ Quarterly**

NECP Modifications at S9

- Physical parameters BWF/M
 - T, DO, SCond, pH, Turbidity,
 - ~~Color, TSS~~
- Nutrients ACF-weekly
 - TP, TKN, NO_x
 - ~~NH₄, OPO₄, NO₂~~
- Ions Quarterly
 - 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, NO_x BWF/M
 - ~~NH₄, OPO₄, NO₂~~
 - Ions Quarterly
 - ~~Alk, Cl, Na, K, Ca, Mg, Fe, SiO₂, SO₄~~

Chlorophyll Species and Alkaline Phosphatase Activity (APA)

- **Currently monitored biweekly at 12 structures**
 - **S12A, S12B, S12C, S12D, S176, S177, S178, S18C, S332, S5A, Tambr105, US41-25.**

Chlorophyll Species

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.
- Usefulness as a monitoring tool debatable.

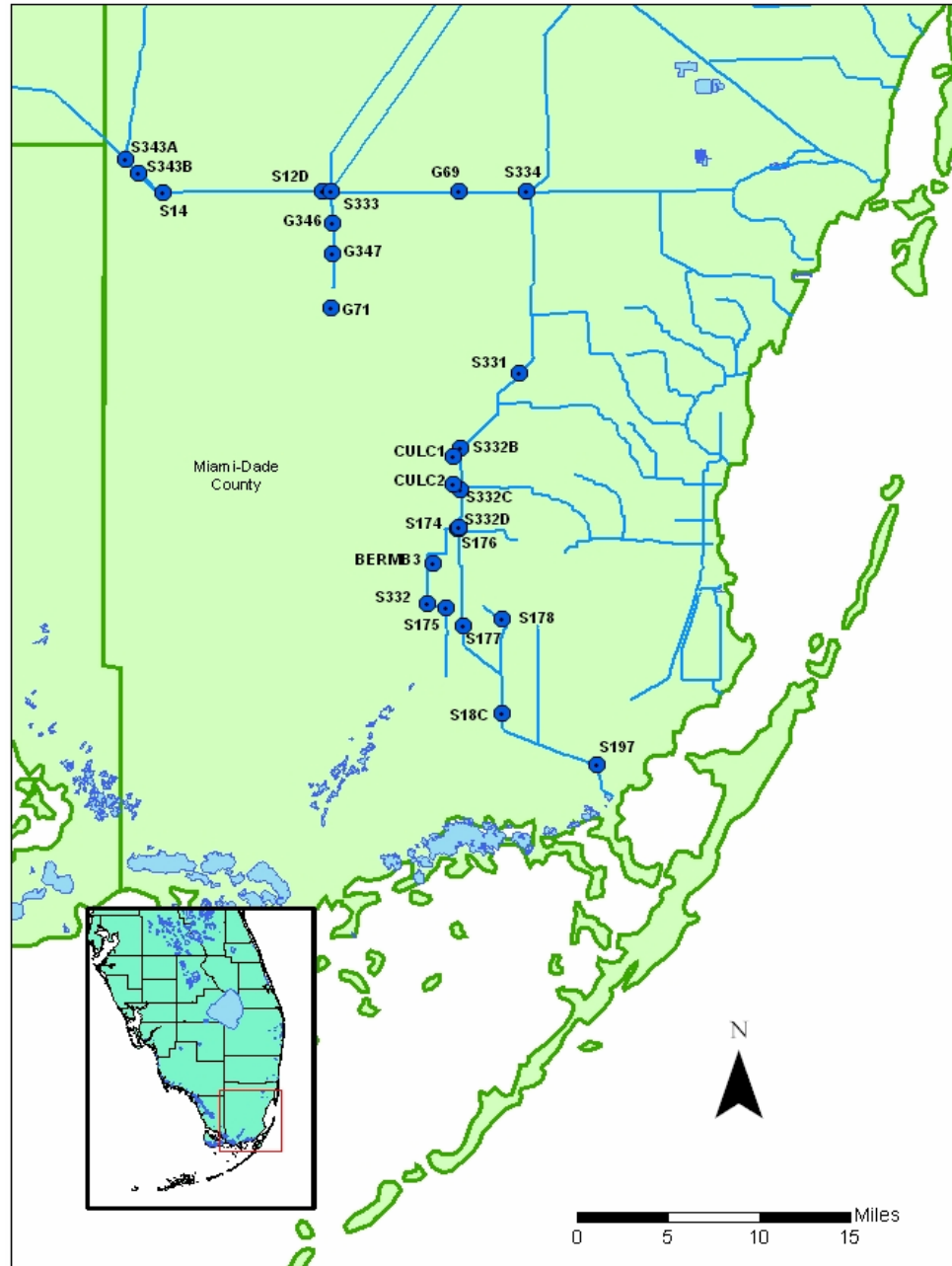
Requests

- **Eliminate monitoring for Chlorophyll species and APA at 12 structures.**
 - S12A, S12B, S12C, S12D, S176, S177, S178, S18C, S332, S5A, Tambr105, US41-25.

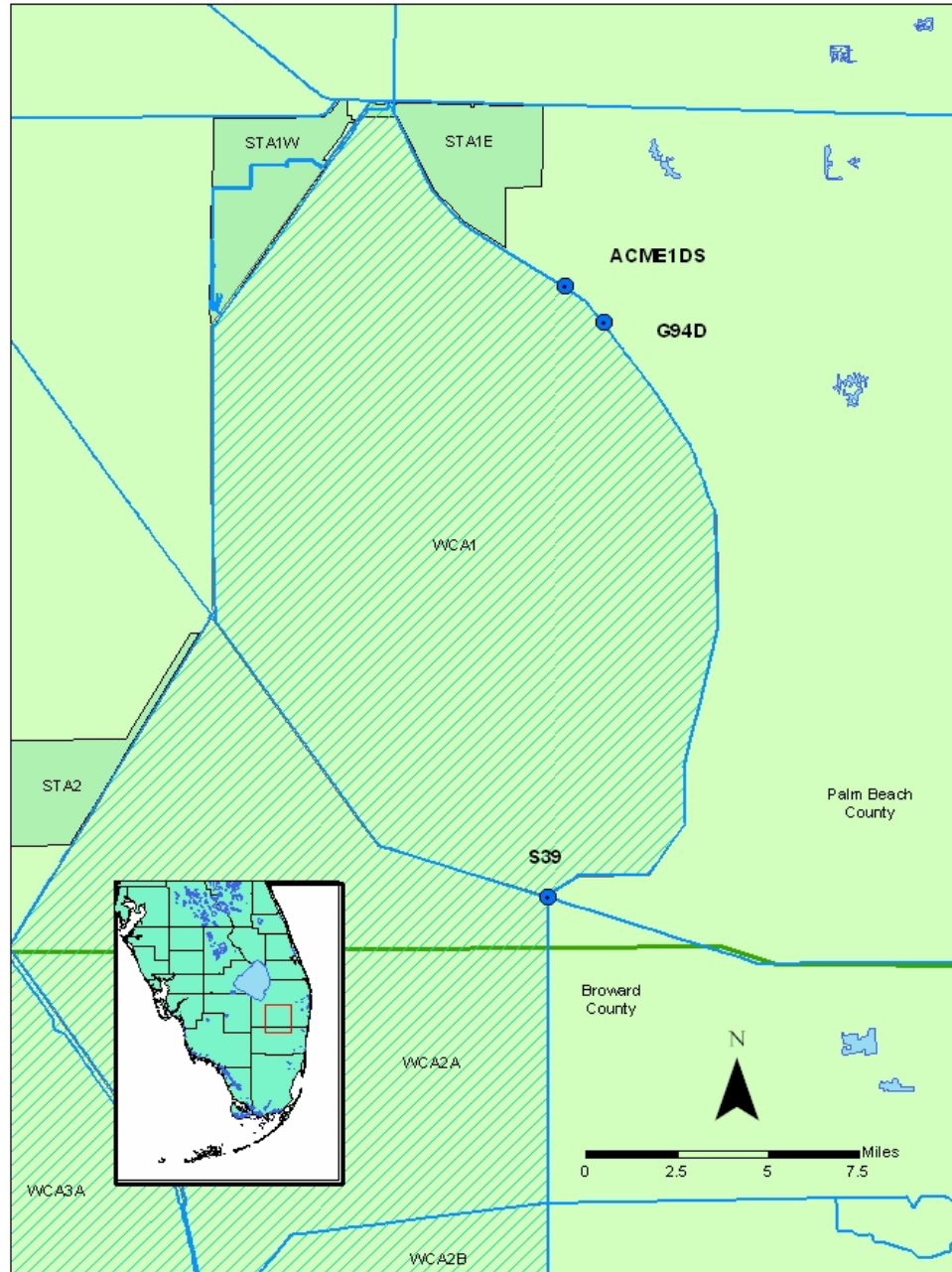
Requests

- **Discuss changes to monitoring of**
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)**
- **S9 and S9A**

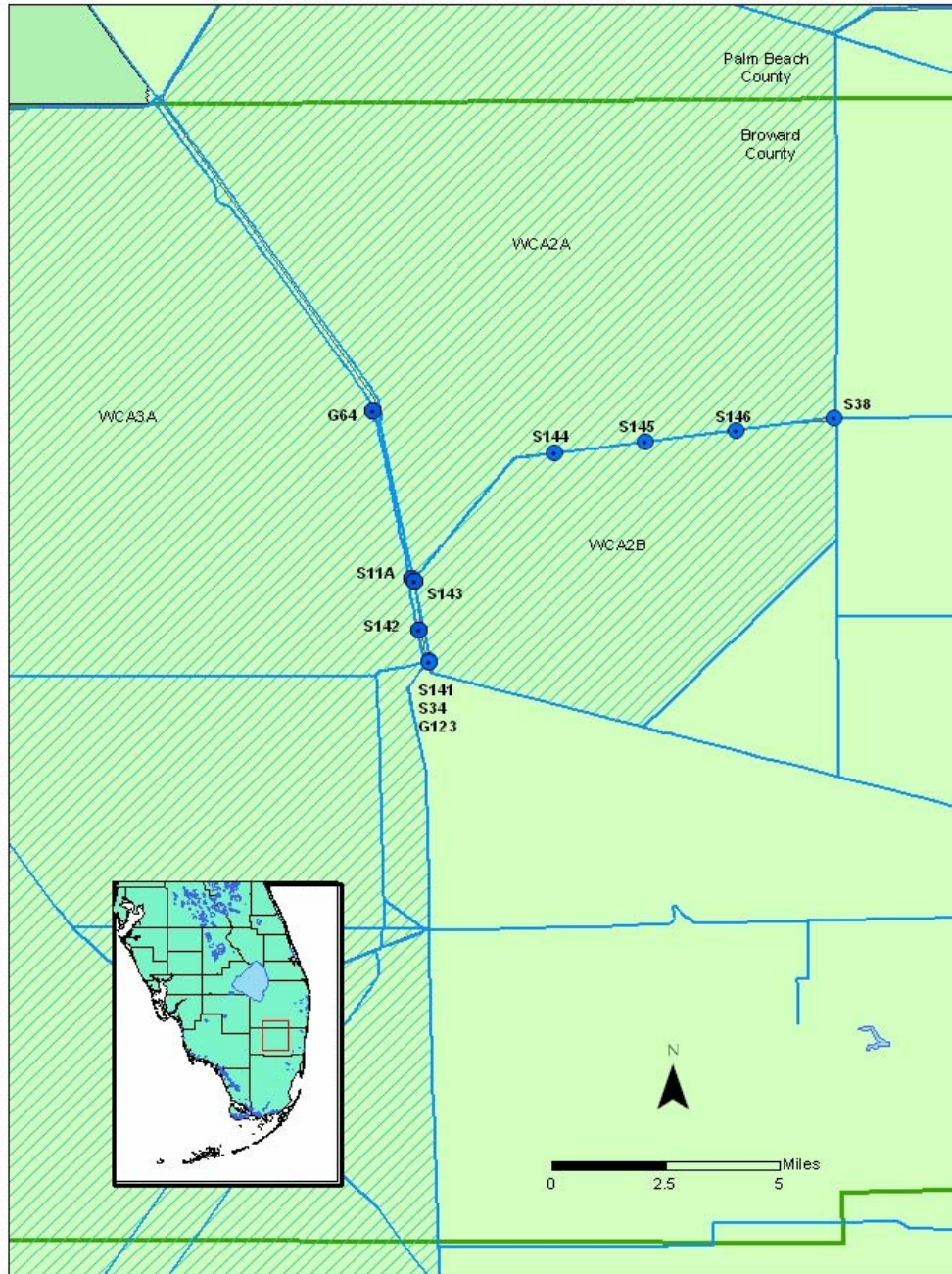
ENP SAMPLING LOCATIONS AFFECTED BY POP NECP MODIFICATIONS



WCA 1 SAMPLING LOCATIONS AFFECTED BY POP NECP MODIFICATIONS



WCA 2 SAMPLING LOCATIONS AFFECTED BY POP NECP MODIFICATIONS



WCA 3 SAMPLING LOCATIONS AFFECTED BY POP NECP MODIFICATIONS

