Status of STAs: Recovery and Enhancements

October 3, 2006
Technical Oversight Committee

Rice with periphyton at STA-1W Cell 5B

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STA 1 West

Western Flowway (Cells 2A, 2B, 4)
- Offline for scheduled LTP enhancements
- Emergent vegetation growing in Cell 2A
- SAV Cells (2B and 4)
  - Rice planting
  - Inoculation
Northern Flowway (Cells 5A and 5B)

- Rice planting
- Restricted flow and water levels
- Improved water quality outflow
- Emergent vegetation strips planted
- G-304 structures being automated
STA 1 West Northern Flow Way Rice Planting

280 acres to be planted with Rice

247 acres to be planted with Rice

Future SAV Inoculation Area

239 acres to be planted with Rice

Emergent Vegetation in this Area

Future SAV Inoculation Area

Note: original estimate was 976 ac; actual planted was about 767 ac.

NOTE: Gross Rice Planting Area = 976 Total Acres Less 10% Remaining Roads and Ditches = 881 Net Acres

Vegetative Planting Strips

Not planted

1.7ac Rice Buffer

Cell 5A
Rice Planting
Vegetation Strip Planting
Eastern Flowway (Cells 1 and 3)

- Online
- Levee to divide Cell 1 to be constructed this winter
STA-1W Total Monthly Flow-weighted Means
Preliminary Data

Inflow (S5A)
Outflow Combined (G251+G310)
Interim Target

Northern Flow-way Rehabilitation and LTP Enhancements
Western Flow-way LTP Enhancements

Total Phosphorus (ppb)

May-99
Aug-99
Nov-99
Feb-00
May-00
Aug-00
Nov-00
Feb-01
May-01
Aug-01
Nov-01
Feb-02
May-02
Aug-02
Nov-02
Feb-03
May-03
Aug-03
Nov-03
Feb-04
May-04
Aug-04
Nov-04
Feb-05
May-05
Aug-05
Nov-05
Feb-06
May-06
Aug-06
- Uneven flow distribution between western and central flow ways
- Considering addition of pump to inflow and distribution area
STA1E Total Monthly Flow-Weighted Means
Preliminary Data

- Inflow (S319+S361+G311)
- Outflow (S362)
- Interim Target
Central flow way (Cell 2) is receiving disproportionately high inflows
STA-2 Total Monthly Flow-Weighted Means
Preliminary Data

- **Inflow (S6+G328)**
- **Outflow (G335)**
- **Interim Target (50 ppb)**

Total Phosphorus (ppb)
- PSTA cells currently being operated manually; more detailed operation plan being developed

- Construction of public use facility will begin soon
STA 3/4 Total Monthly Flow-Weighted Means
Preliminary Data

- Inflow (G370+G372)
- Outflow (G376A-F)+(G379A-E)+(G381A-F)
- Interim Target
Approval received on 9/29 to resume southern flow way operations

G-406 open for 24 days

Water control structures in southern flow way are now automated

G-410 operation suspended until P concentrations return below 70 ppb
STA-5 Total Monthly Flow-Weighted Means
Preliminary Data

Total Phosphorus (ppb)

Inflow (G-342A-D)
Outflow (G-344A-D)
Interim Target (50 ppb)

Northern Flow-way LTP Enhancements
Southern Flow-way LTP Enhancements
On schedule for being flow capable by December 2006
The outflow TP values from July 2006 are currently under review. There was no outflow from April through June 2006.
Other STA Activities

- Avian Protection Plan being developed
- Memorandum of Agreement to be executed with Everglades Protection District for optimization of research

*Migratory black-necked stilts (Himantopus mexicanus) in STAs.*