

**Quarterly Communications Meeting on the
Long-Term Plan For Achieving Water Quality Goals for
Everglades Protection Area Tributary Basins**

MAY 23, 2012

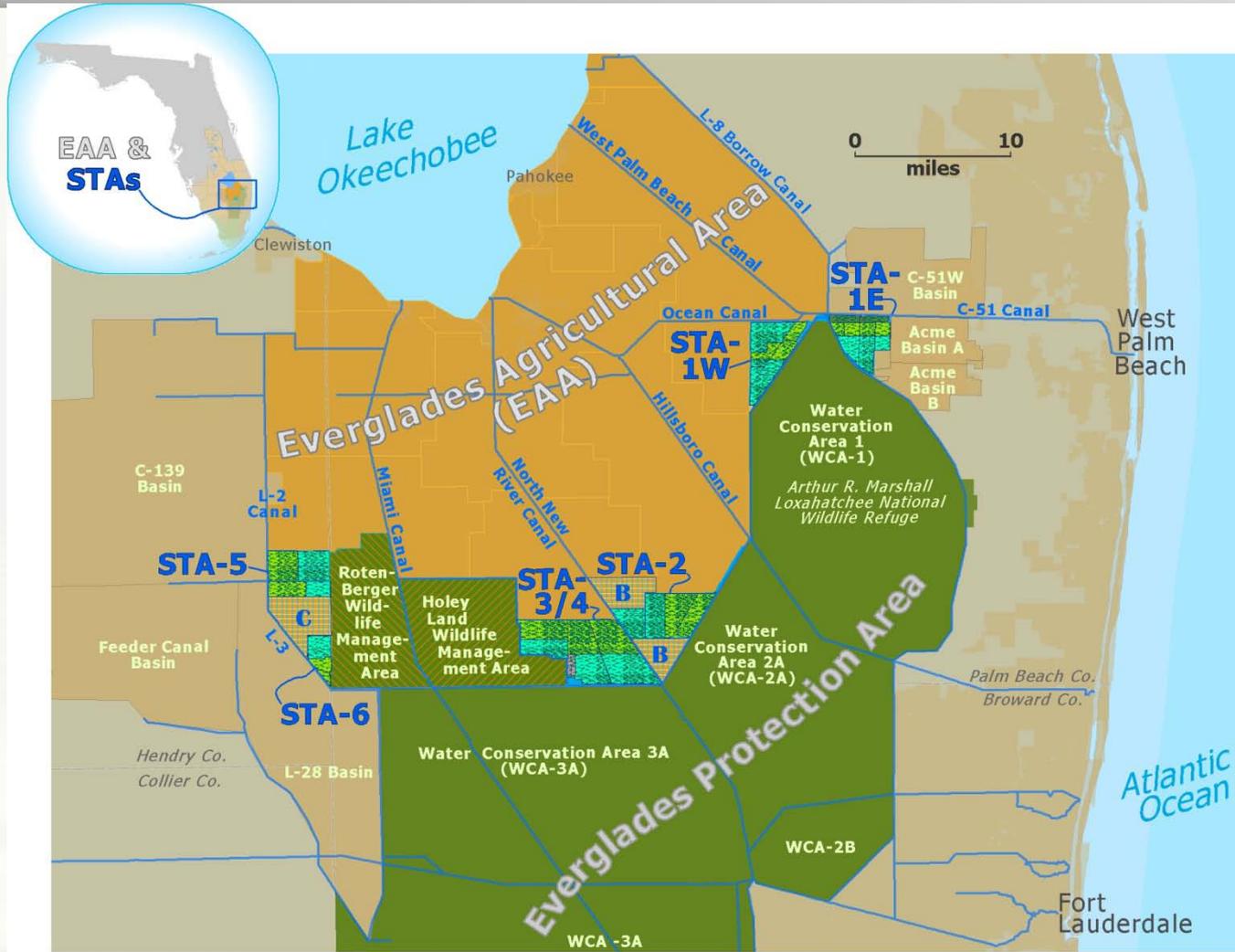
**WY2012 STA and Selected Flow-way
Performance (preliminary)**

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Kathleen Pietro,
Sr. Env. Scientist

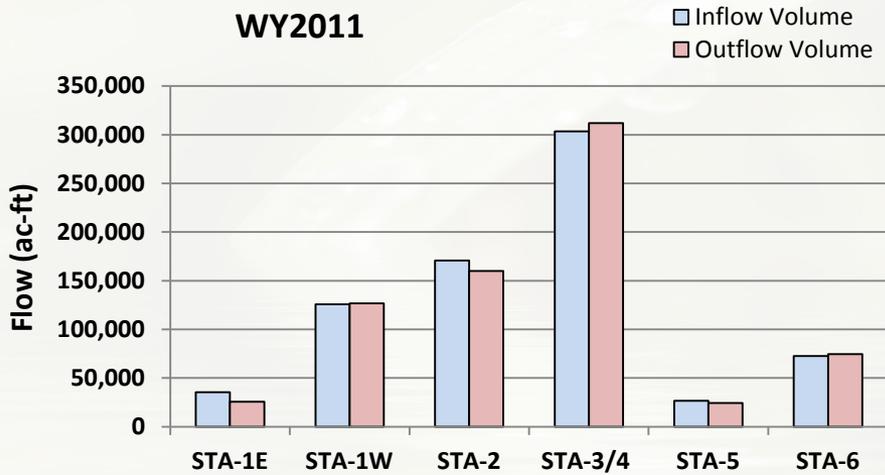
Applied Sciences Bureau

STA Location Map

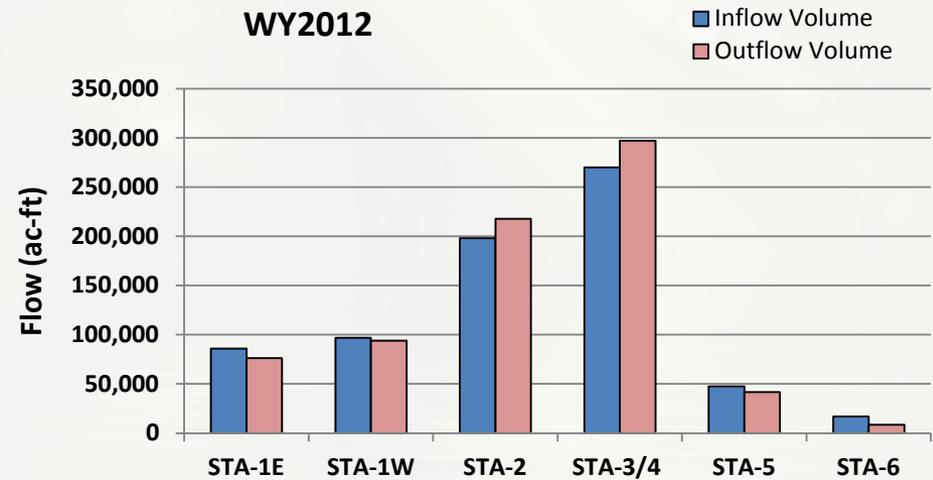


Inflow and Outflow Volumes

WY2011

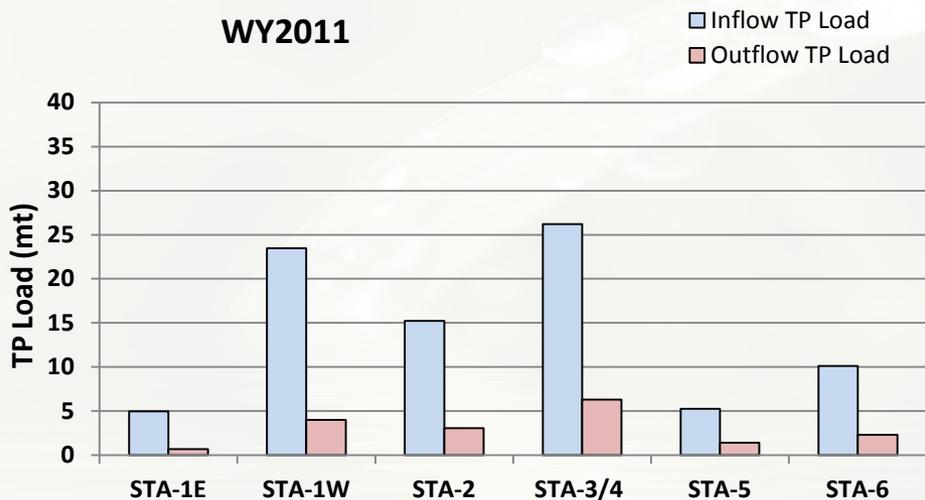


WY2012

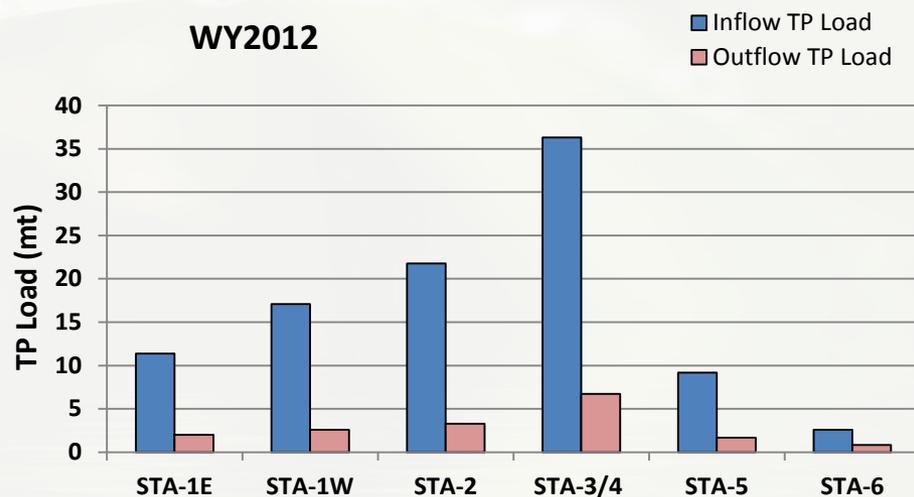


Total Inflow and Outflow TP Loads

WY2011

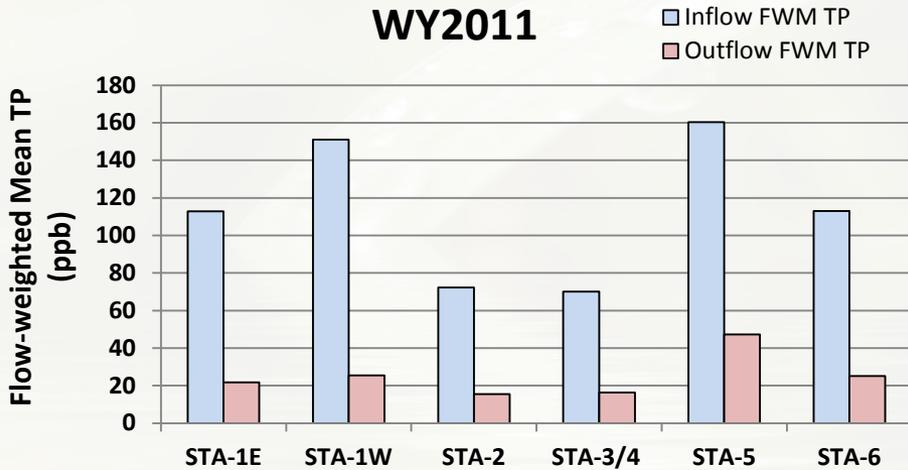


WY2012

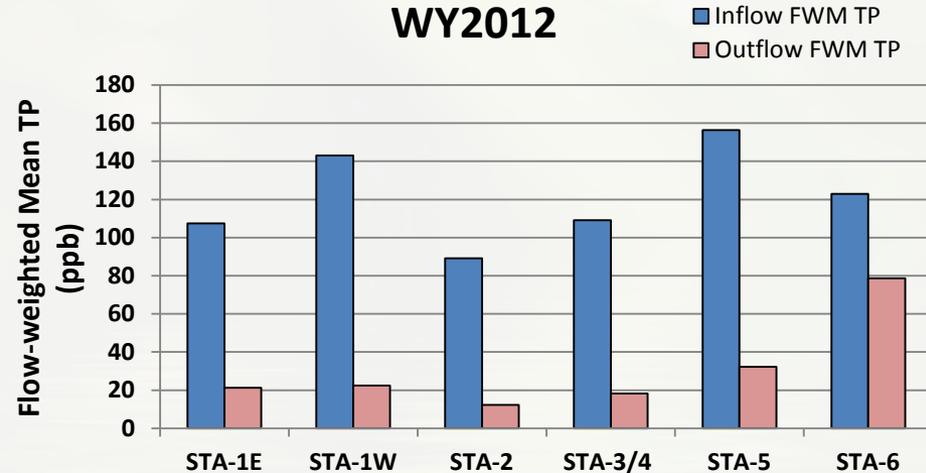


Inflow and Outflow TP Concentrations

WY2011

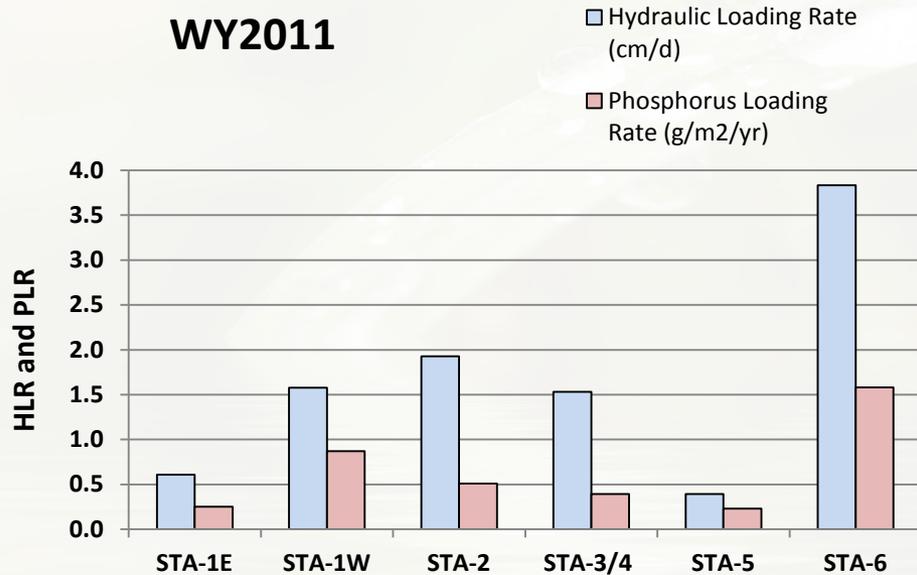


WY2012

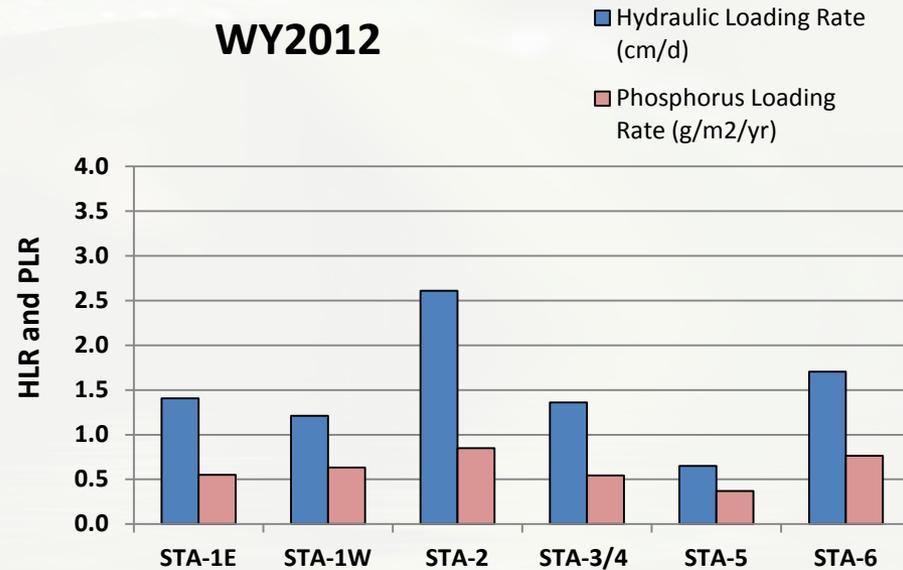


Hydraulic and Phosphorus Loading Rates

WY2011



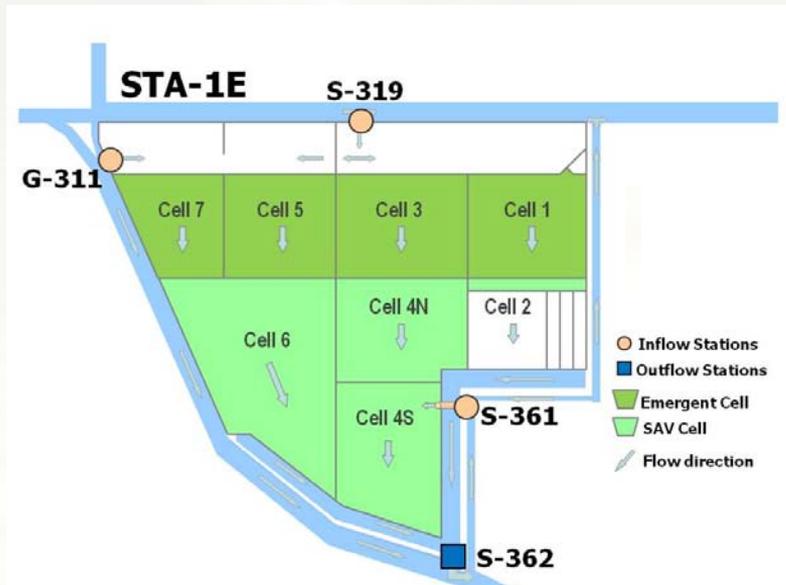
WY2012



STA-1E Flow-ways

Flow-way	Inflow Volume ac-ft	Inflow Conc. ppb	Outflow Conc. ppb	PLR g/m ² /yr
Western	19,422	125	38	0.4
Central	56,756	109	18	1.0

**Data, which includes results up to 4/29/2012, are preliminary and subject to change.*

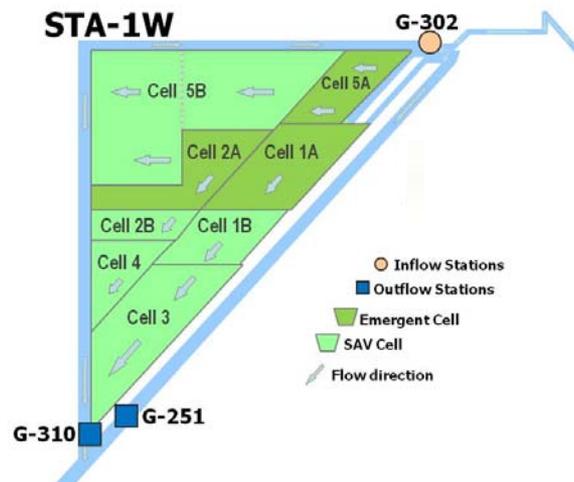


- Structural issues; S-375, S-370C, and S-373B construction activities
- Western Flow-way restrictions
- Eastern Flow-way remained online with restrictions
- Impacts of hydrilla dieoff in WY2010 continued
- Stilt nesting impacts in early part of WY2012
- Supplemental water delivered for hydration

STA-1W Flow-ways

Flow-way	Inflow Volume ac-ft	Inflow Conc. ppb	Outflow Conc. ppb	PLR g/m ² /yr
Western	31,974	116	23	0.9
Eastern	27,393	124	18	0.4
Northern	41,888	142	18	0.6

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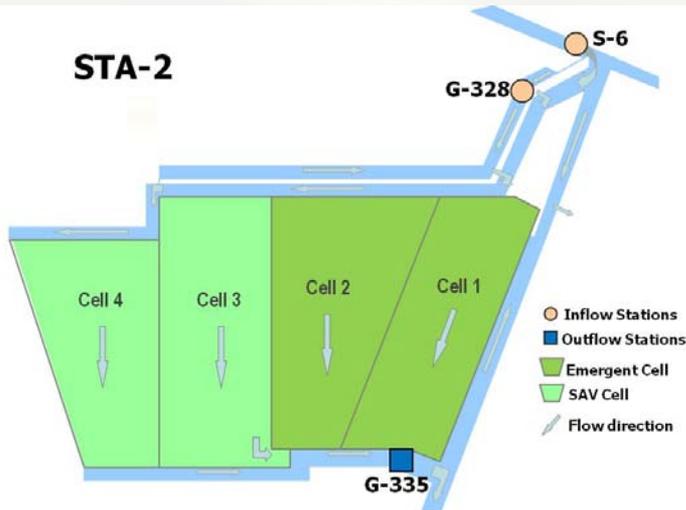


- Additional bulrush planting in Cell 5A open areas and in Cell 5B additional vegetation strips
- Supplemental water received for hydration

STA-2 Flow-ways

Flow-way	Inflow Volume ac-ft	Inflow Conc. ppb	Outflow Conc. ppb	PLR g/m ² /yr
Cell 1	57,320	79	9	0.8
Cell 2	78,200	103	15	1.1
Cell 3	73,549	82	15	0.8

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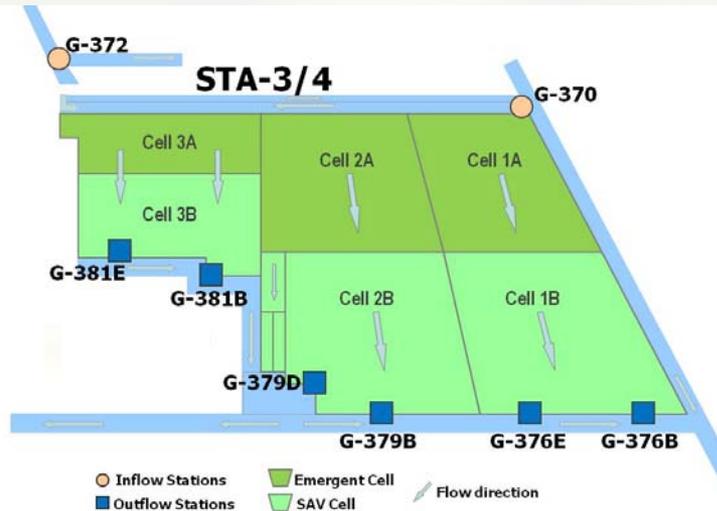


- S6 repairs; temporary pumps were installed
- STA-2 Cell 2 Conversion
 - additional SAV inoculation
- Cell 4 –offline for Compartment B construction
- Supplemental water received for hydration

STA-3/4 Flow-ways

Flow-way	Inflow Volume ac-ft	Inflow Conc. ppb	Outflow Conc. ppb	PLR g/m ² /yr
Western	123,600	36	15	0.3
Central	93,373	49	21	0.3
Eastern	80,368	60	20	0.3

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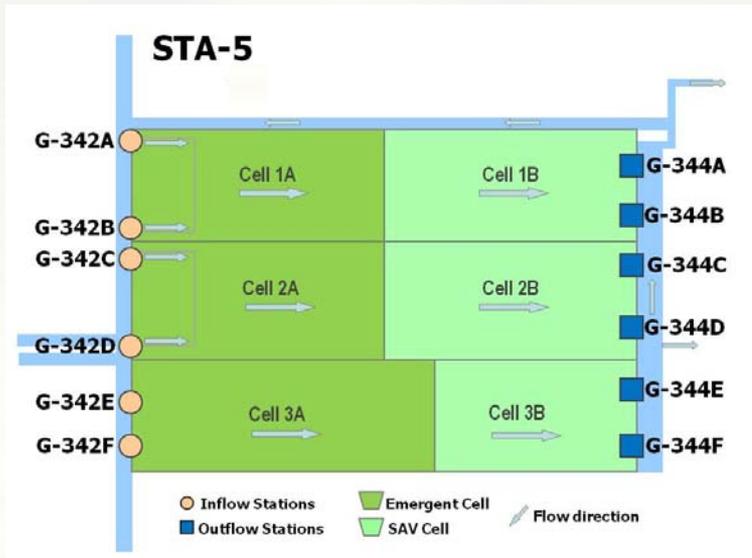


- All cells dried out
 - Cell 1A drawdown in early part of WY for vegetation rehabilitation
 - Water levels receded due to drought
- Eastern FW restrictions
- Central and Western FW temporary restrictions after heavy rain events
- Supplemental water delivered for hydration
- PSTA Implementation

STA-5 Flow-ways

Flow-way	Inflow Volume ac-ft	Inflow Conc. ppb	Outflow Conc. ppb	PLR g/m ² /yr
Northern	22,838	147	36	0.5
Central	24,515	165	28	0.6

**Data, which includes results up to 4/29/2012, are preliminary and subject to change.*

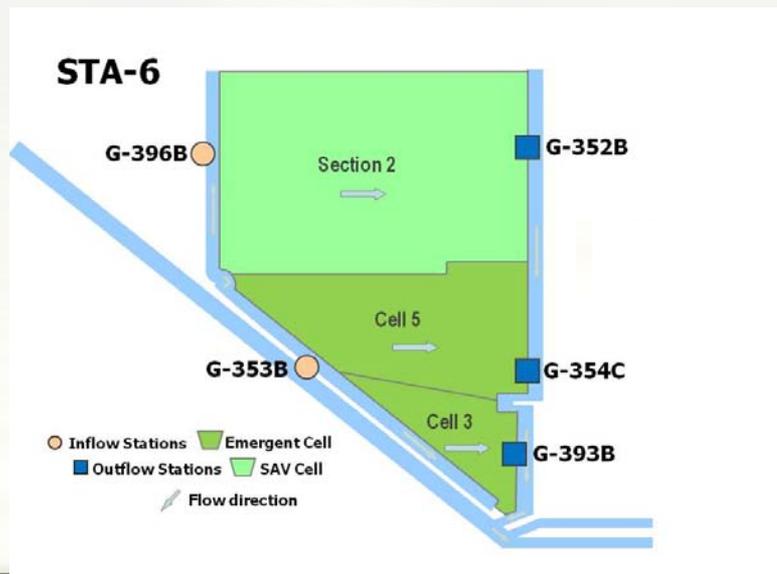


- FW3 – online but received <200 ac-ft of flow
- Dryout – Cells 1A, 2A, and FW 3 dried out
 - High TP spikes upon resumption of flow
- Supplemental water delivered directly to SAV cells to maintain hydration
- Plugs installed in Cell 2B strips to alleviate short-circuiting

STA-6 Flow-ways

Flow-way	Inflow Volume ac-ft	Inflow Conc. ppb	Outflow Conc. ppb	PLR g/m ² /yr
Cell 3	5,251	118	53	0.8
Cell 5	11,650	129	85	0.8

**Data, which includes results up to 4/29/2012, are preliminary and subject to change.*



- Section 2 – offline
- Dryout – yearly cycles of dryout and re-flooding
 - High TP spikes upon resumption of flow