



ASR and Deep Well Update

June 7, 2007



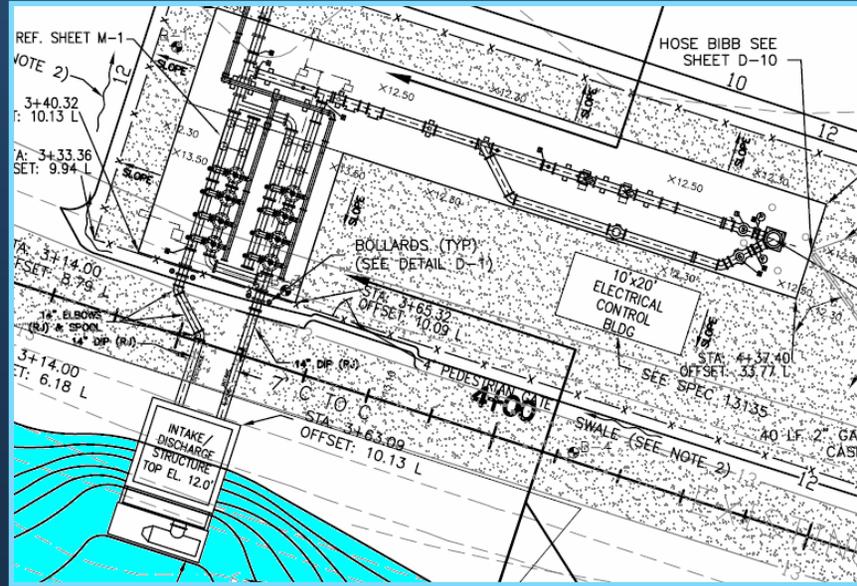
sfwmd.gov



Presentation Objectives

- Provide an update (since October 2006) on the CERP Aquifer Storage and Recovery (ASR) Pilot Projects and Regional Study
- Present an update on the Lake Okeechobee and Estuary Recovery (LOER) deep well projects

Two CERP Pilots are under construction





Hillsboro ASR Pilot Project

- Construction complete in late summer 2007
- FP&L working on getting electricity to site
- PB County building permit still pending
- Anticipate cycle testing starting Fall 2007



Hillsboro

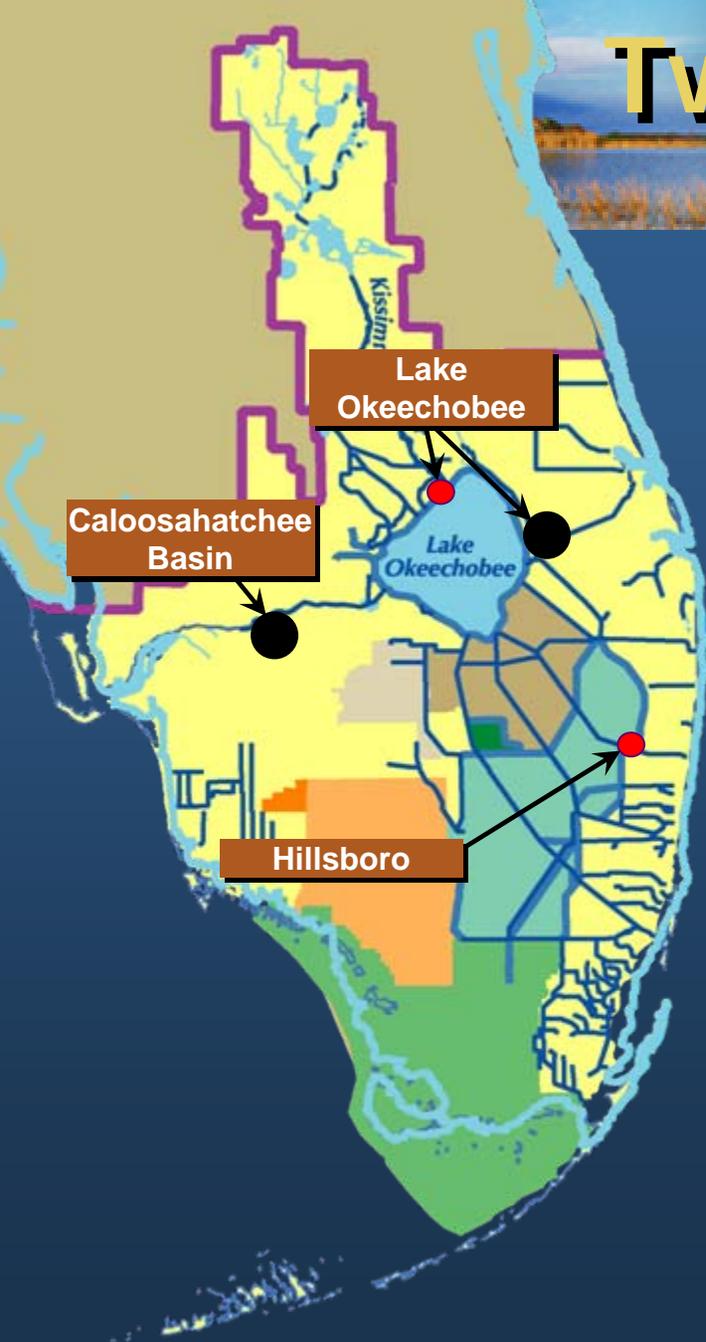




Kissimmee



Two other CERP Pilots



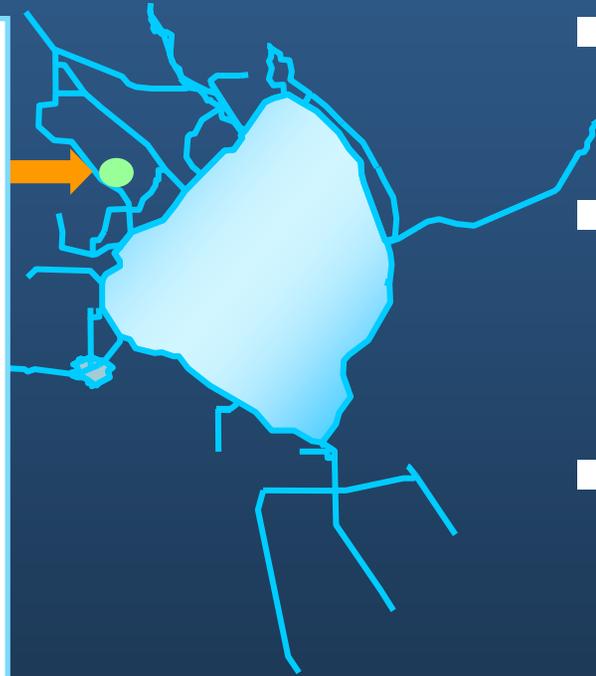
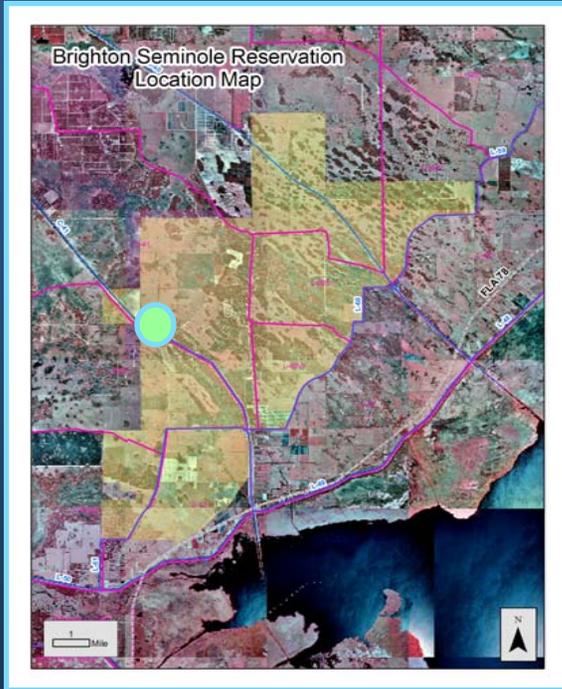
- Port Mayaca: Multi-well facility by USACE to begin construction in Winter 2007; operational by 2009
- Caloosahatchee: Exploratory well at Berry Groves unsuccessful, recommend evaluating other C-43 reservoir location



Schedule for CERP ASR Program

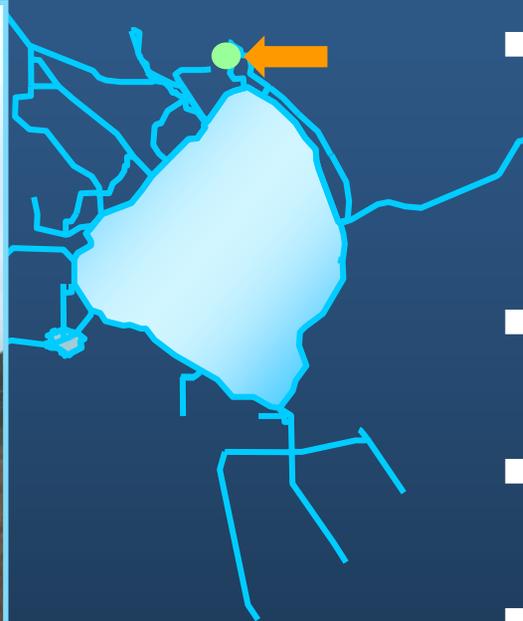
- Interim Report by Fall 2007
- Pilot Project cycle testing initiated by 2008
- Groundwater Model results 2009
- Pilot Projects complete by 2010
- Regional Study complete 2011
- Initiate construction by 2015
- Phased construction through 2025

LOER – Seminole Brighton ASR Pilot Project



- Tribe has completed the siting evaluation
- Exploratory well construction in Summer 2007
- Design, permitting in 2008

LOER – Taylor Creek ASR System Reactivation



- Pilot treatment testing completed –
Gunderboom and UV passive technologies
- UIC permit application filed in February 2007
- WQCE under preparation
- Operational by 2009

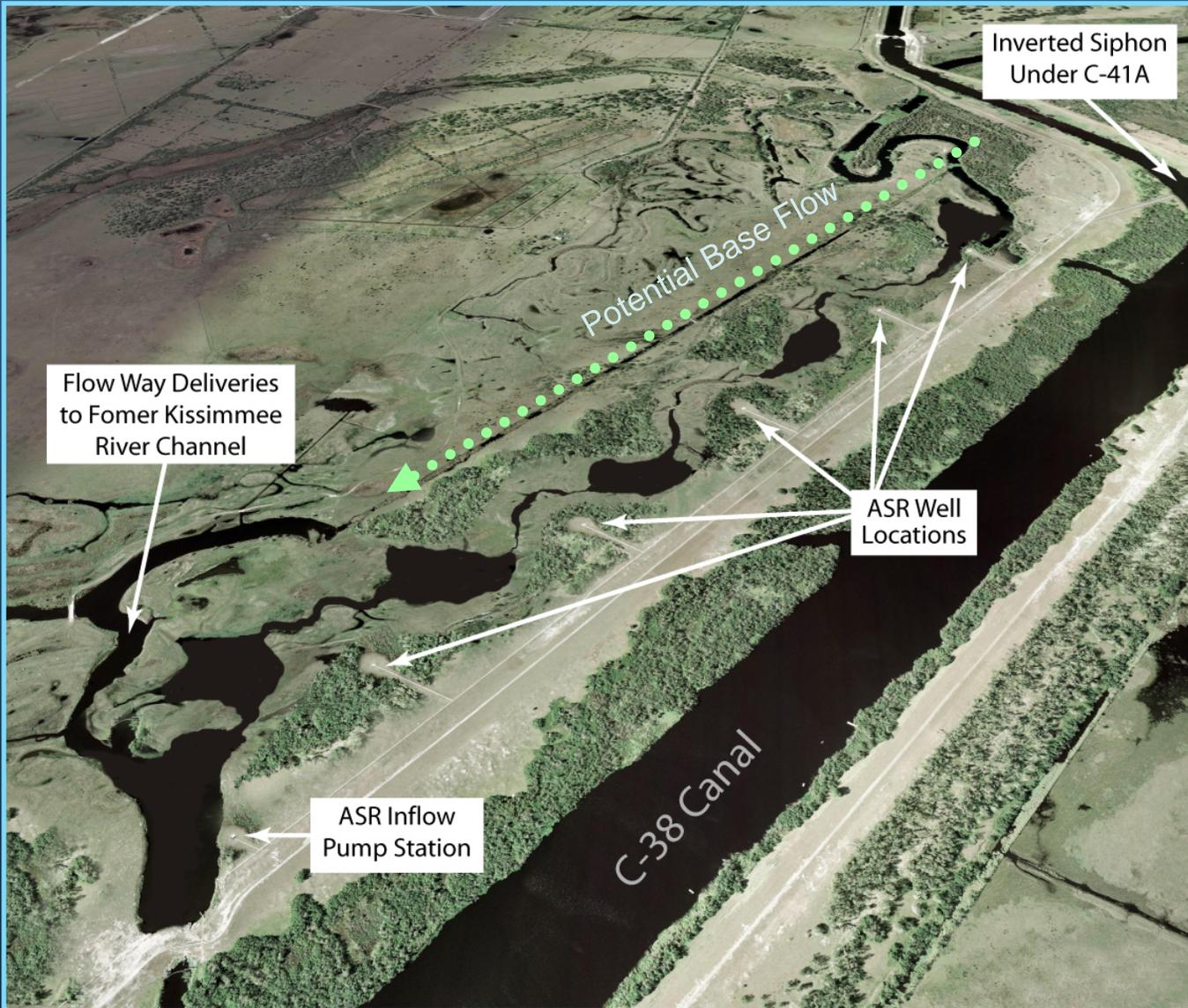
Paradise Run – Exploratory well, geotech, surveying, ecologic assessment and permitting is next



Paradise Run – Present Condition



Paradise Run – Conceptual Design





LOER Injection Well Study

- **Report final by Summer 2007**
- **Wells completed deeper in the Floridan Aquifer**
- **Focus on reducing high discharges to estuaries, TMDL reduction, control of Lake Okeechobee levels, augmenting ASR and STA systems**
- **First wells could be operational by 2010**

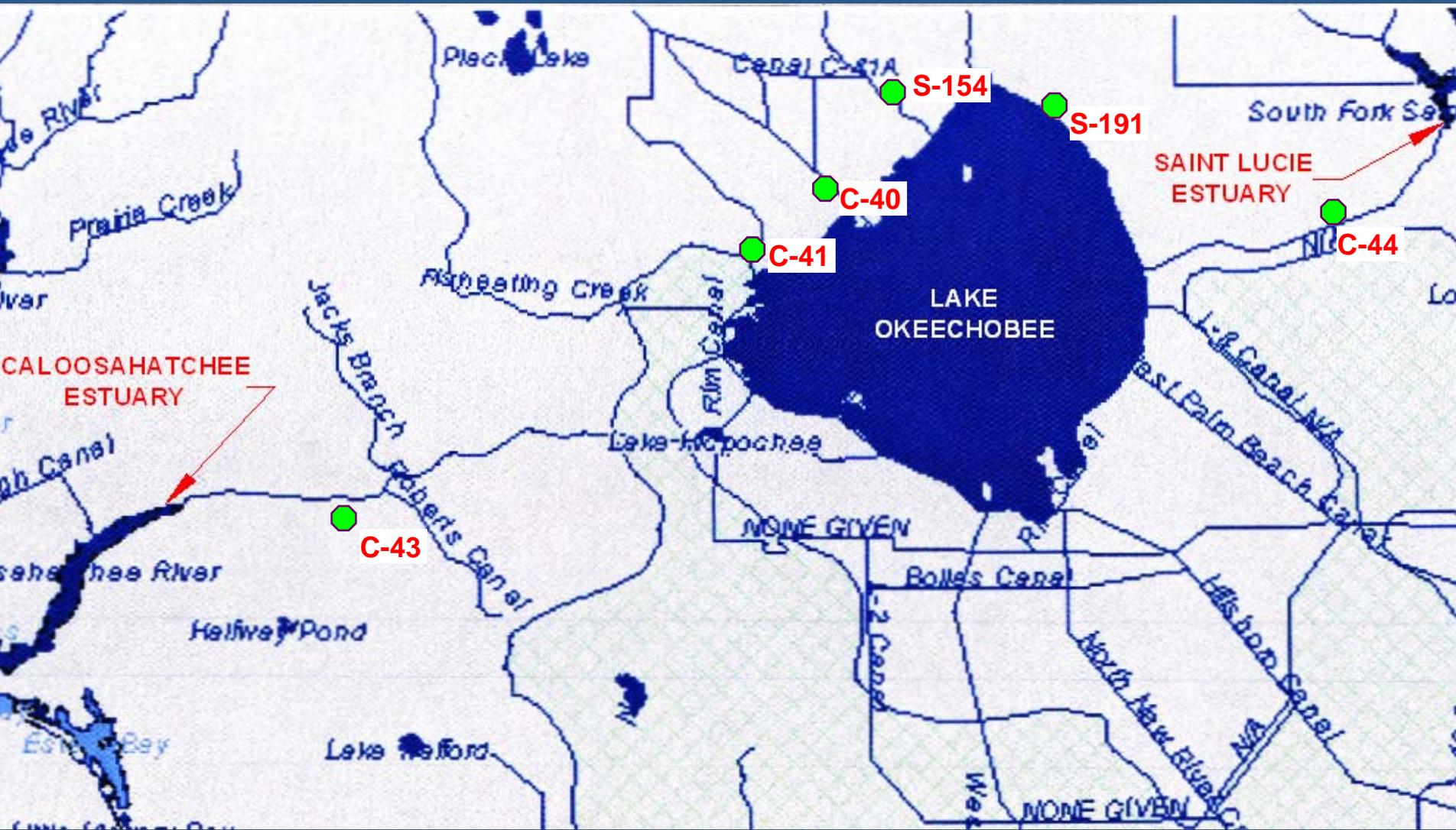


LOER Injection Well Study

- **30 to 80 wells could offer substantial benefits**
- **FDEP would classify wells as Class V, Group 6 – for stormwater and lake level control**
- **Wells would require basic filtration, installed as “clusters”**
- **Wells would be 24” diameter and approximately 3,000 feet deep, depending on hydrogeology**
- **Locations north of the Lake would provide multiple benefits**
- **Next step is exploratory wells at optimal locations**



Injection Well Conceptual Locations





End