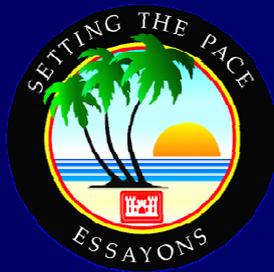


L-31 North (L-30) Seepage Management Pilot Project

Working Group Briefing

April 2008



COMPREHENSIVE EVERGLADES
RESTORATION PLAN



Purpose of Briefing

Present the Selected Alternative Plan to the Working Group (WG) , Task Force (TF) and Science Coordination Group (SCG)

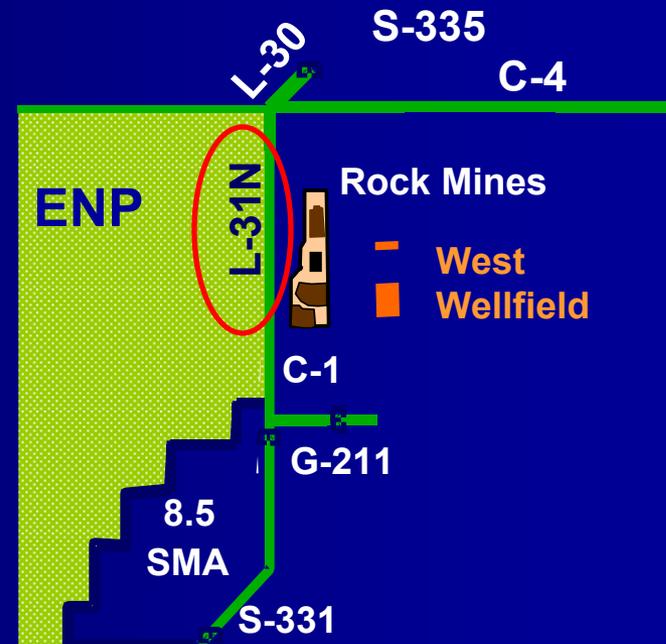
1999 Yellow Book Project Purpose



- ❖ Investigate seepage management technologies to control seepage from Everglades National Park.
- ❖ The Pilot project will provide necessary information to determine the appropriate amount of wet season groundwater flow to return to the Park while minimizing potential impacts to Miami-Dade County's West Wellfield and freshwater flows to Biscayne Bay.

Yellow Book Location

WCA 3B



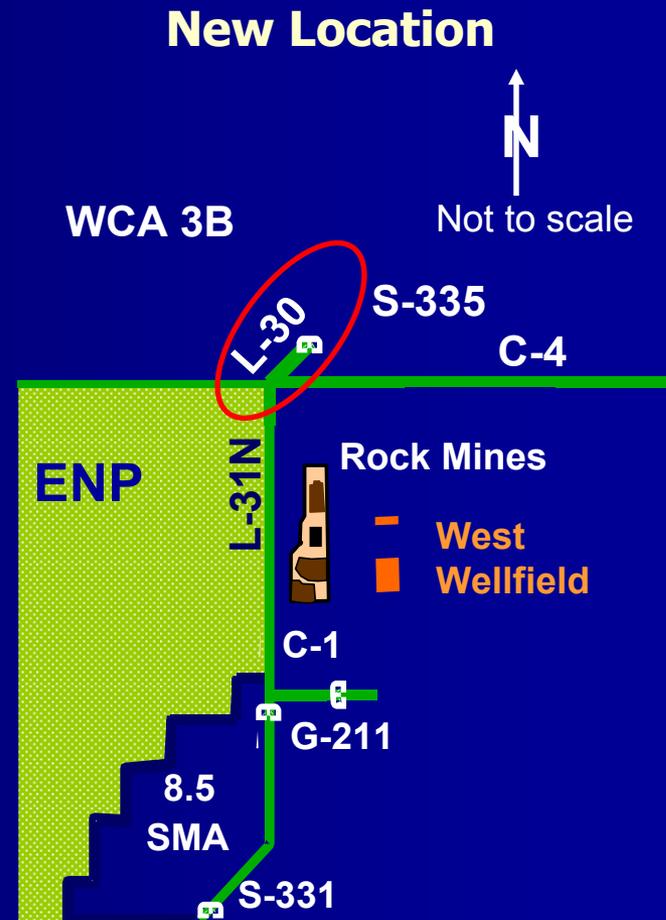
Current Project Purpose



Consistent with the Yellow Book;
Updated to include:

Critical uncertainties associated with technologies that will likely be considered to control seepage from the Everglades National Park and Water Conservation Area 3B. **Uncertainties to be resolved:**

- Reliability** of materials & technology
- Implementability** of a seasonally flexible operating system
- Cost and time** requirements for implementation
- Constructability**



Tree Island Stage
3BS1W1_H



Project Footprint
L-30 Levee & Canal

S-335



1,000 ft

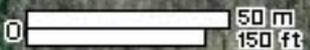
WCA 3B

Street Map Aerial Image
 Show labels

997

Krome Ave

Trail
Glades
Range



QUEST

© 2007 MapQuest Inc. © 2007 i-cubed © 2007 NAVTEQ

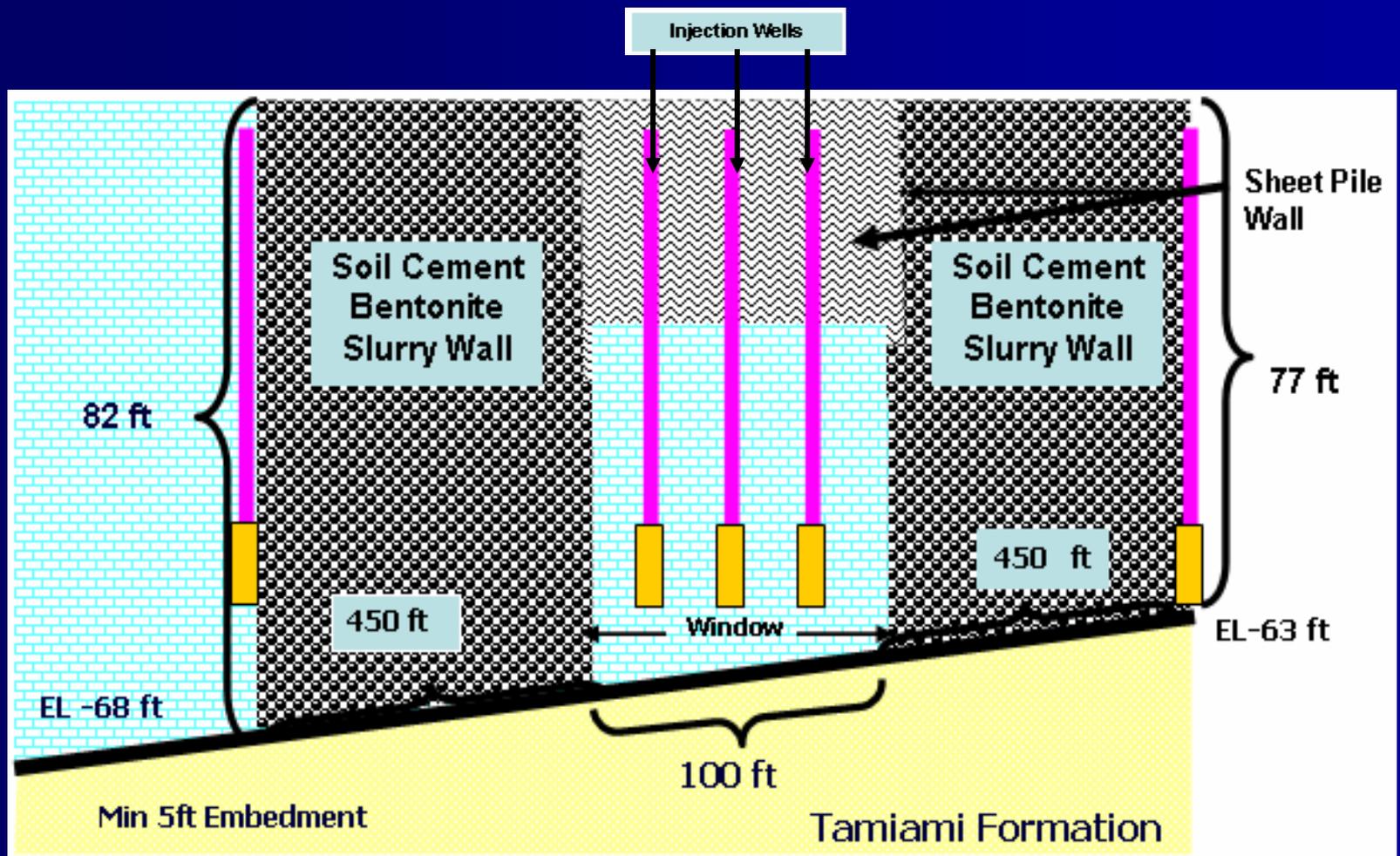
Selected Alternative Plan -1,000 ft Section

- ❖ 2 Slurry Walls (450 ft, -63 ft elev)
- ❖ 1 Sheet Pile (100 ft, -22 ft elev)
- ❖ “Window” (Biscayne Aquifer)
- ❖ 2 Extraction Wells (source water)
- ❖ 3 Injection Wells (hydraulic barrier)
- ❖ 15 Monitoring Wells

Selected Alternative Plan

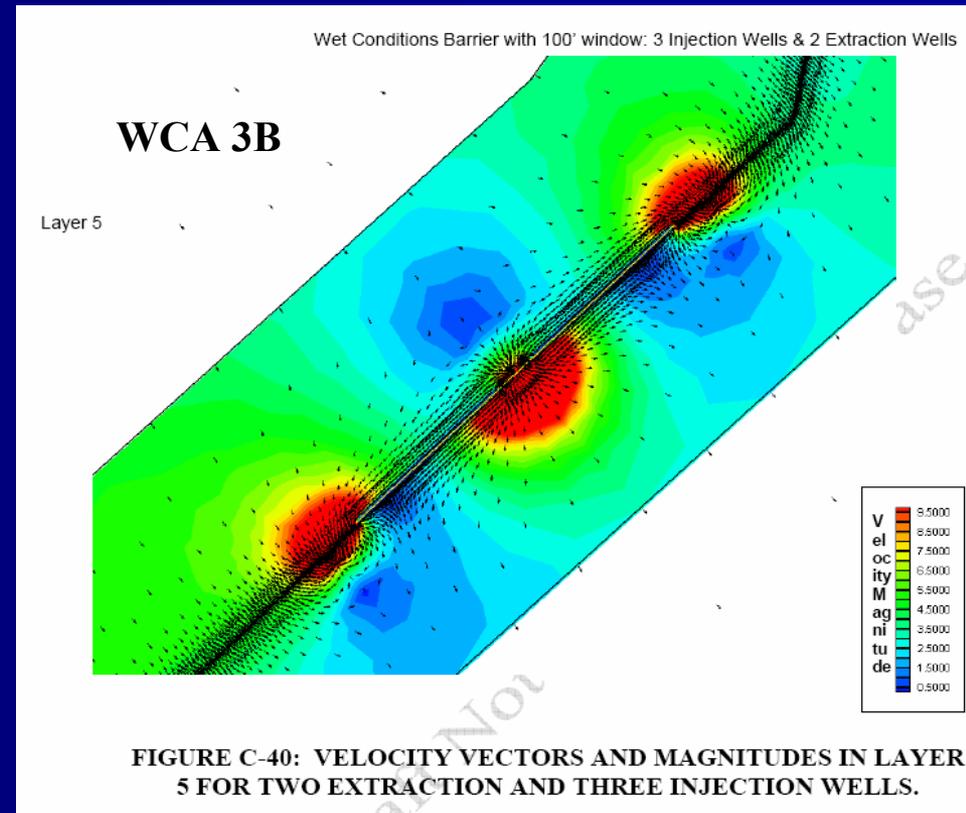
- ❖ Slurry Wall & Sheet Pile - Test constructability and reliability of two structural technologies
- ❖ Extraction & Injection Wells - Test seasonal operational control of seepage management (non-structural)
- ❖ 15 Monitoring Wells - Provide data on effects of seepage

Selected Alternative Plan Slurry & Sheet Pile Wall, Injection Extraction Wells



Hydraulic Barrier

❖ Blue represents very low velocity at the window – no flow through window, no flow THROUGH the barrier walls



Implementation Schedule

| | |
|-------------------------------|-----------------|
| Briefing to Commander | April 08 |
| Draft PPDR/NEPA Complete | July 08 |
| Public/Agency Review of DPPDR | July-Aug 08 |
| External Peer Review | July-Aug 08 |
| Final PPDR/NEPA Complete | Sep 08 |
| DE Transmittal/Filing of EA | Sep 08 |
| NTP (Performance Spec) | Spring 2009 |
| Design/Installation & Testing | Jan 09 – Mar 11 |

Construction Costs *

| | YB (1999) | Current (2008) |
|--|--------------|-------------------|
| Planning, Engineering & Design | | \$9,227,117 |
| -PED during Construction | | \$ 362,117 |
| -Project Management Plan | | \$ 365,000 |
| -Pilot Project Design Report | | \$5,000,000 |
| -Project Implementation Monitoring | \$ 500,000 | \$2,500,000 |
| -Technical Data Report | | \$1,000,000 |
| Construction – Design, Installation & Testing | \$9,000,000 | \$5,758,414 |
| Construction Management | \$ 500,000 | \$ 289,700 |
| Lands & Damages | \$ 0 | \$ 0 |
| TOTAL | \$10,000,000 | \$15,275,232 |

*Construction cost estimate contains 15% contingency

*Section 902 Limit - \$15,437,000 (Oct 07 dollars)

QUESTIONS?

