

Frog Island Habitat Improvement Project: 90% Design Overview and Field Tour

Presented to the
Ecological Standing Committee



October 18, 2011

AGENDA

Frog Island HIP – 90% Design

- Status of design process
- Walk through designs
- Next steps

Field Trip

- From Sheridan Drive boat ramp
- Life Jackets and Safety Briefing
- Frog Island – tour footprint, questions



Frog Island – 90% Final Design

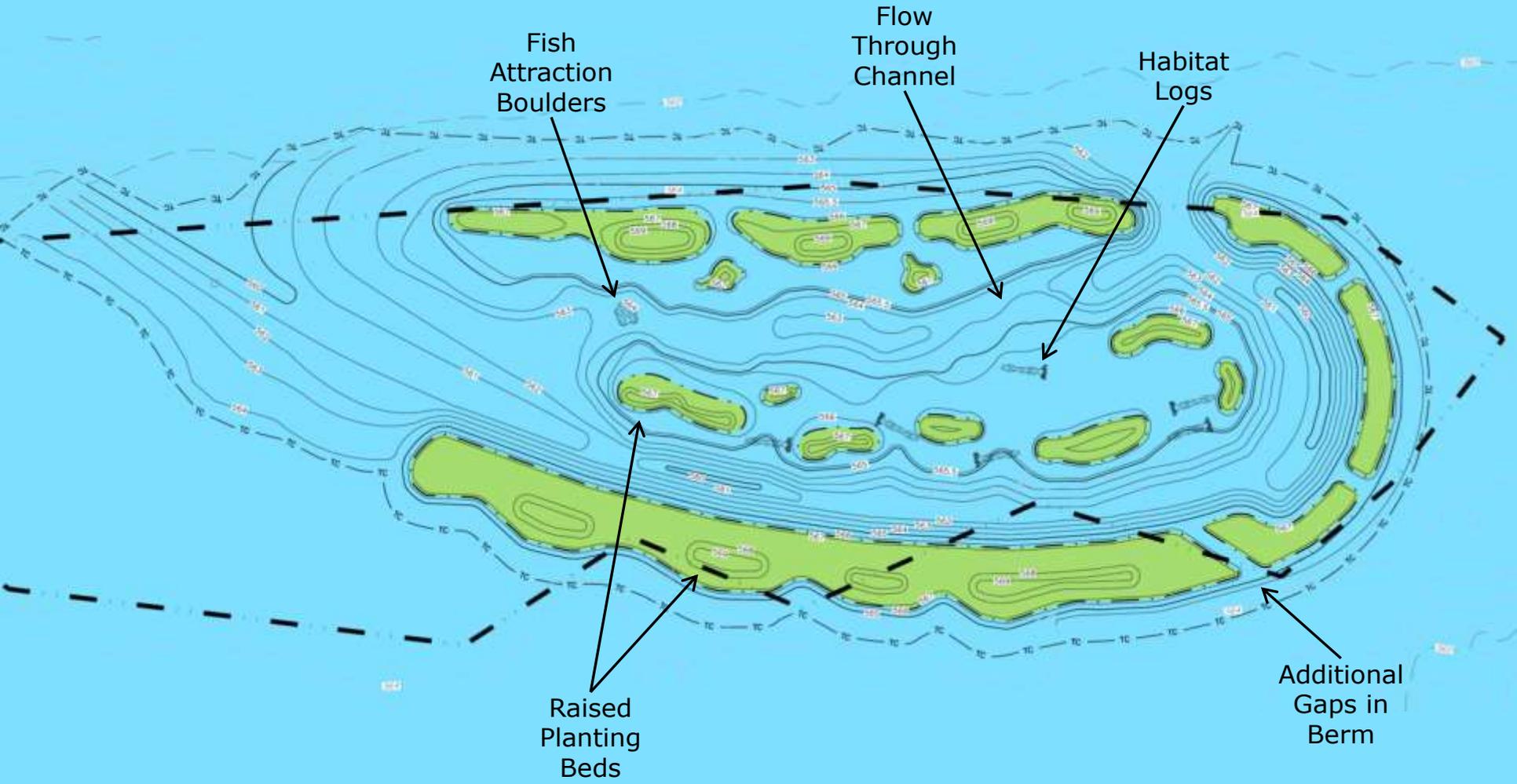
Project Objective – Create emergent wetland and submerged aquatic vegetation habitat

- 50% Design approved at October 2010 ESC meeting
- 90% Final Design includes
 - Additional engineering and details for permitting and construction
 - Input from agency and independent engineering review

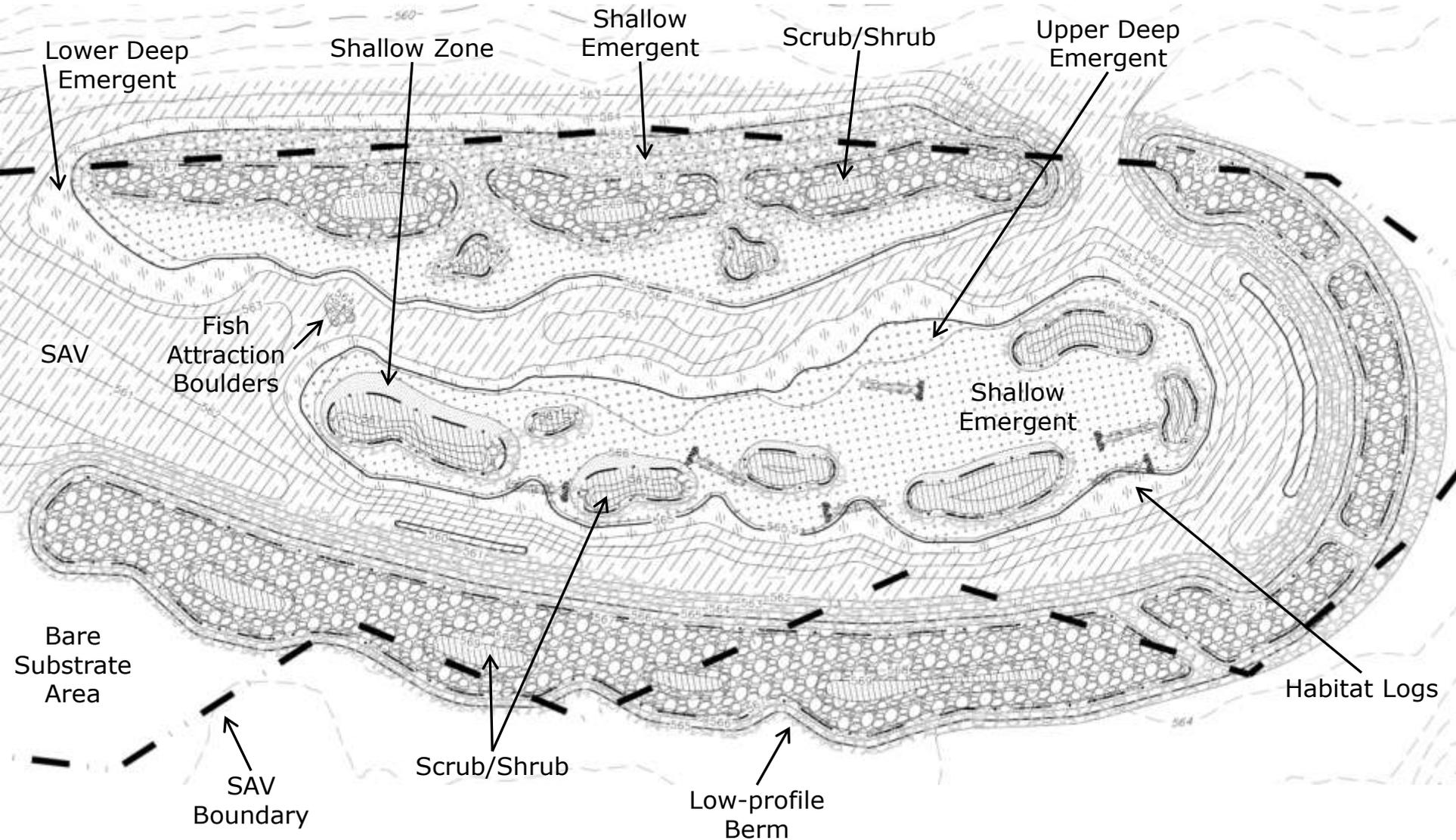


Frog Island HIP

Niagara River



Proposed Habitats



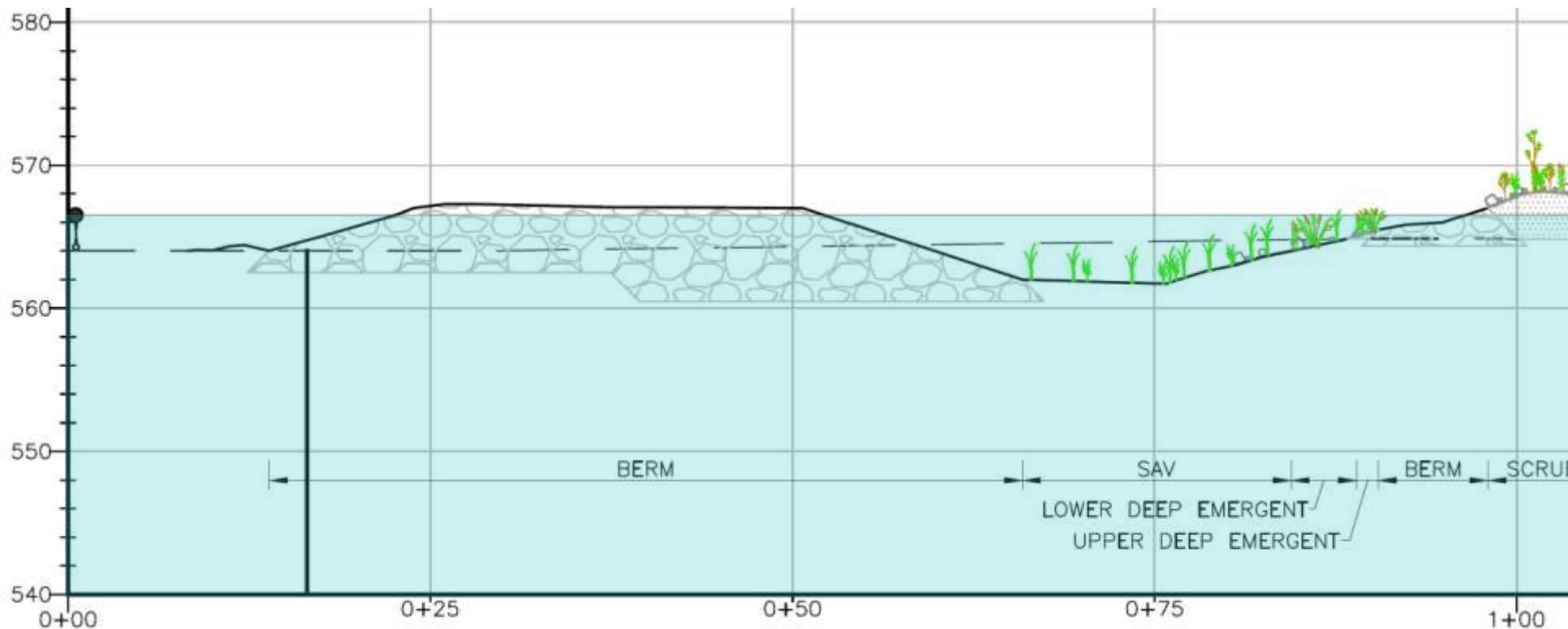
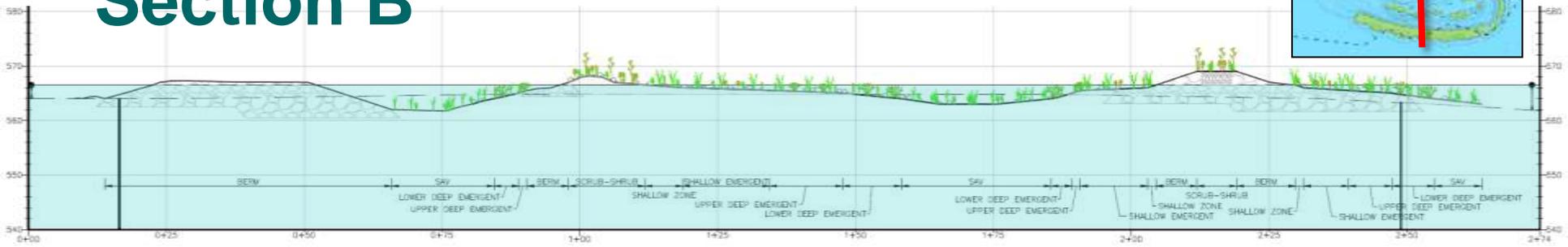
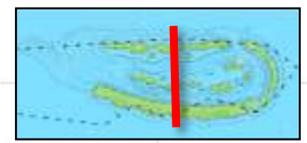
Proposed Habitats

Depth (from NML WSEL 566.5)	Elevation Range (ft USLS35)	Habitat Zone	Typical Vegetation
0.5 to 3+	566-569.5	Scrub/Shrub	Red osier and Silky dogwood, willow shrubs, Swamp mallow, Northern arrowwood, River bulrush, Blue vervain, Tussock sedge, White boneset, Joe pye weed
5 to 0.5+	560 - 567+	Berm	No Plantings, Maintenance Required
0-0.5	566-566.5	Shallow Zone	River bulrush, White boneset, Invasive Species, Common reed
0.5 - 1.0	565.5 - 566	Shallow Emergent	Softstem bulrush, Hardstem bulrush, River bulrush, Three Square, Burreed
1.0 - 1.5	565 – 565.5	Upper Deep Emergent	Arrowhead, Softstem bulrush, Hardstem bulrush, Three Square, Burreed
1.5 - 2.5	564 – 565	Lower Deep Emergent	Arrowhead, Wild celery, Three Square, Burreed
2.5 - 7.0 -	559.5 - 564	SAV	Wild celery and other SAV species

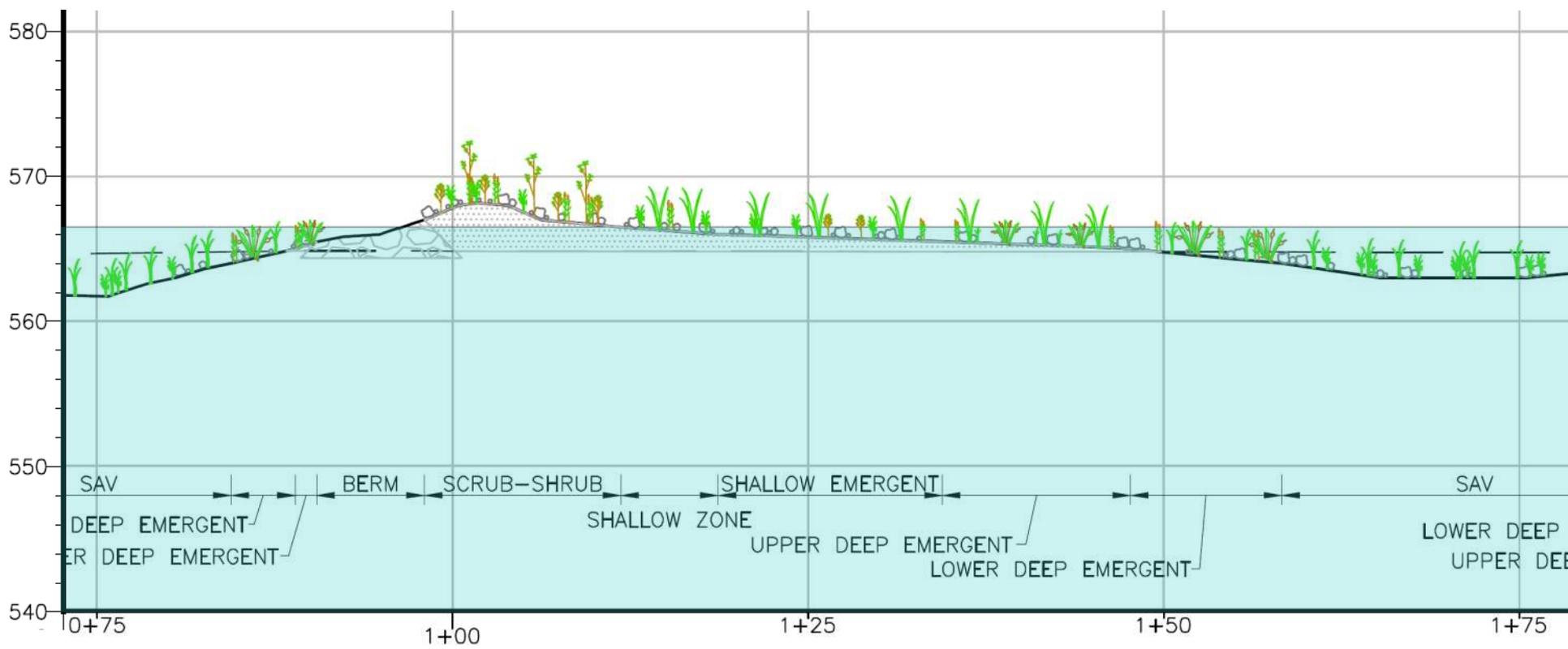
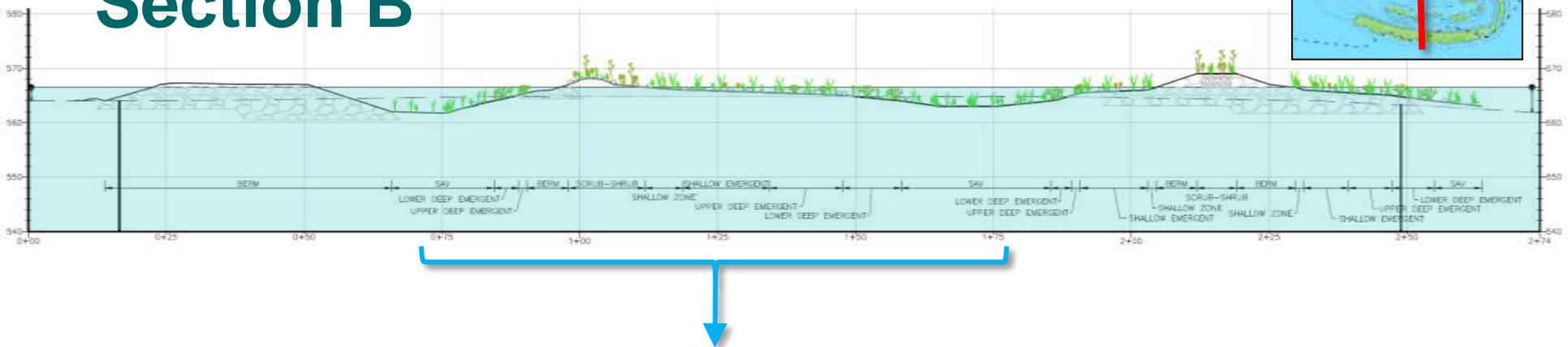
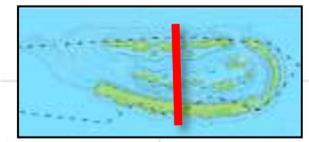


***East River
Marsh***

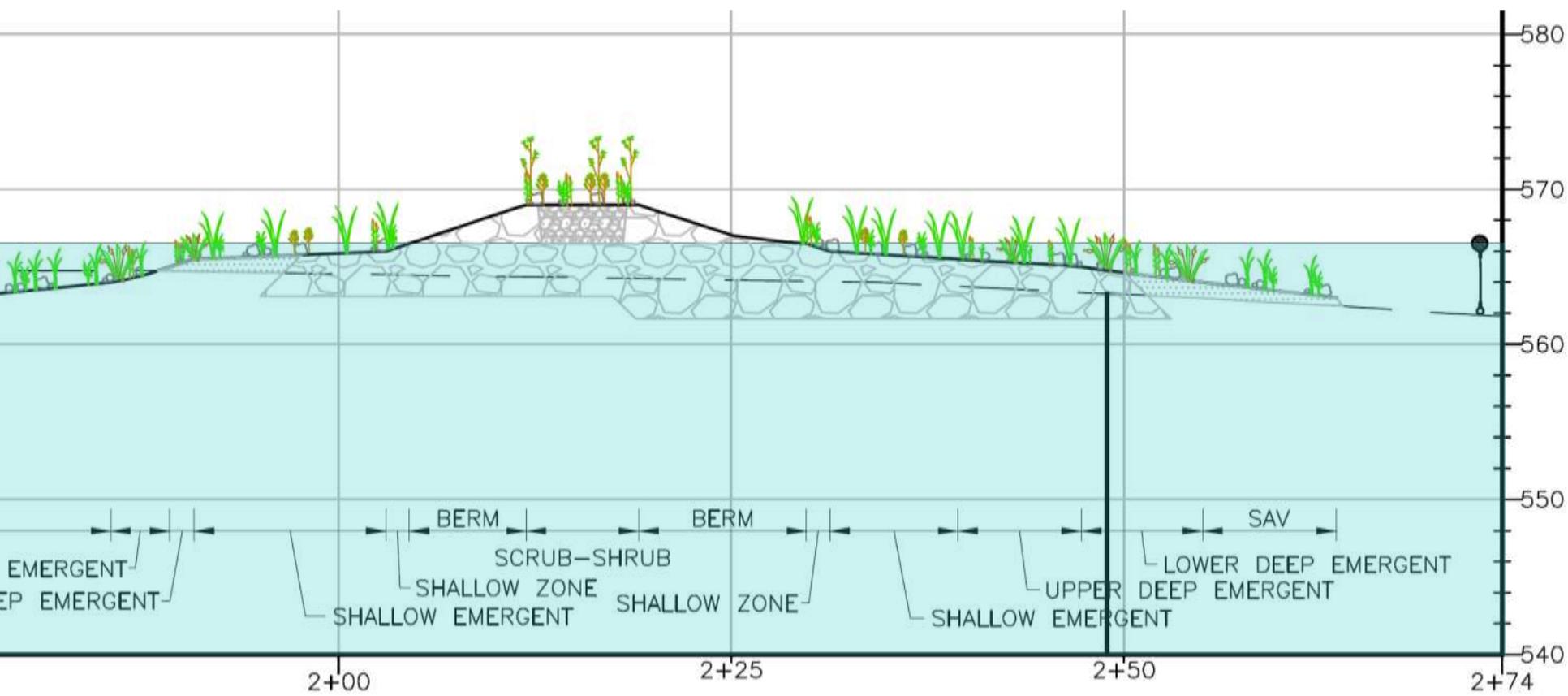
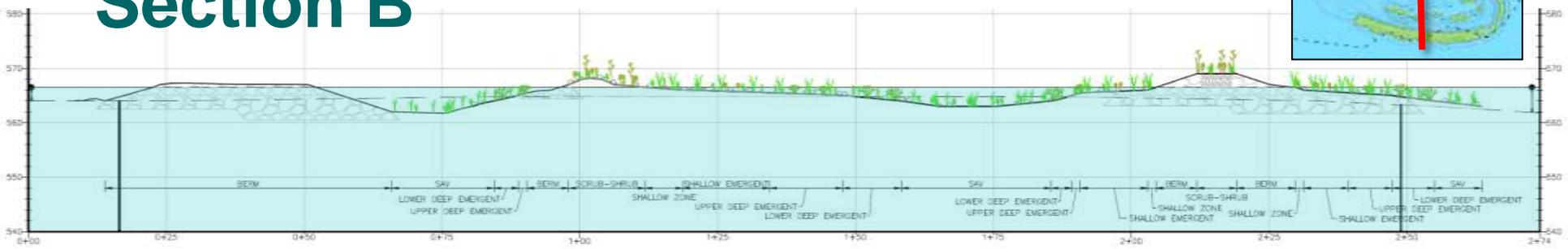
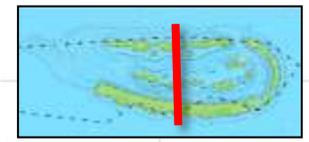
Section B



Section B



Section B



Frog Island – HIP

Next Steps:

- Consult with DEC and DOS on timing constraints
- Submit Permit applications in mid-2012
 - Consult with US Coast Guard
 - IJC/River Board of Control
 - Joint Application to USACE, DEC and DOS
- Plan for construction in 2013-2014

Questions so far?

Field Trip next...