

Lake Worth Dredging Project Update July 18, 2012



Paul Bounds, Regulatory and Environmental Coordinator
Fort Worth Water Department



Lake Worth CIP

January 2008

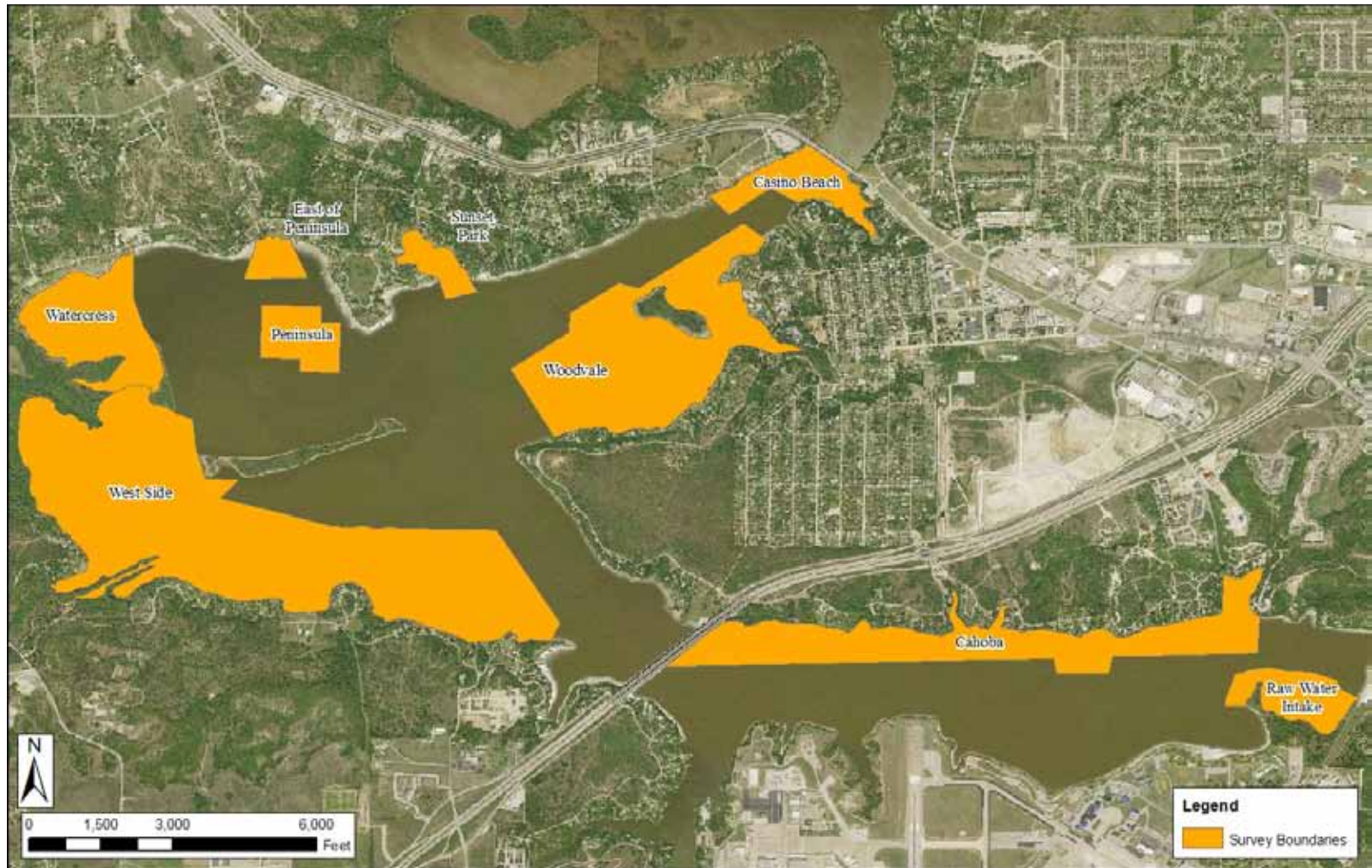
• 20" Northside III Water	\$2,200,000
• Woodvale Sewer System	2,200,000
• Boat Ramps	1,654,000
• Dredging	30,706,000
• Nature Trails/Parks Imp.	18,636,000
• Love Cir./Casino Beach W/S	9,058,000
• Watercress West W/S	4,428,000
• Comanche Creek Drainage	1,300,000
• Access Control/Cable Fencing	1,715,000
• Silver Creek Road Widening	9,073,000
• Maintenance Endowment Fund	9,550,000
• Northside II Water	26,554,000
• Total	\$117,075,000

Dredging Objectives

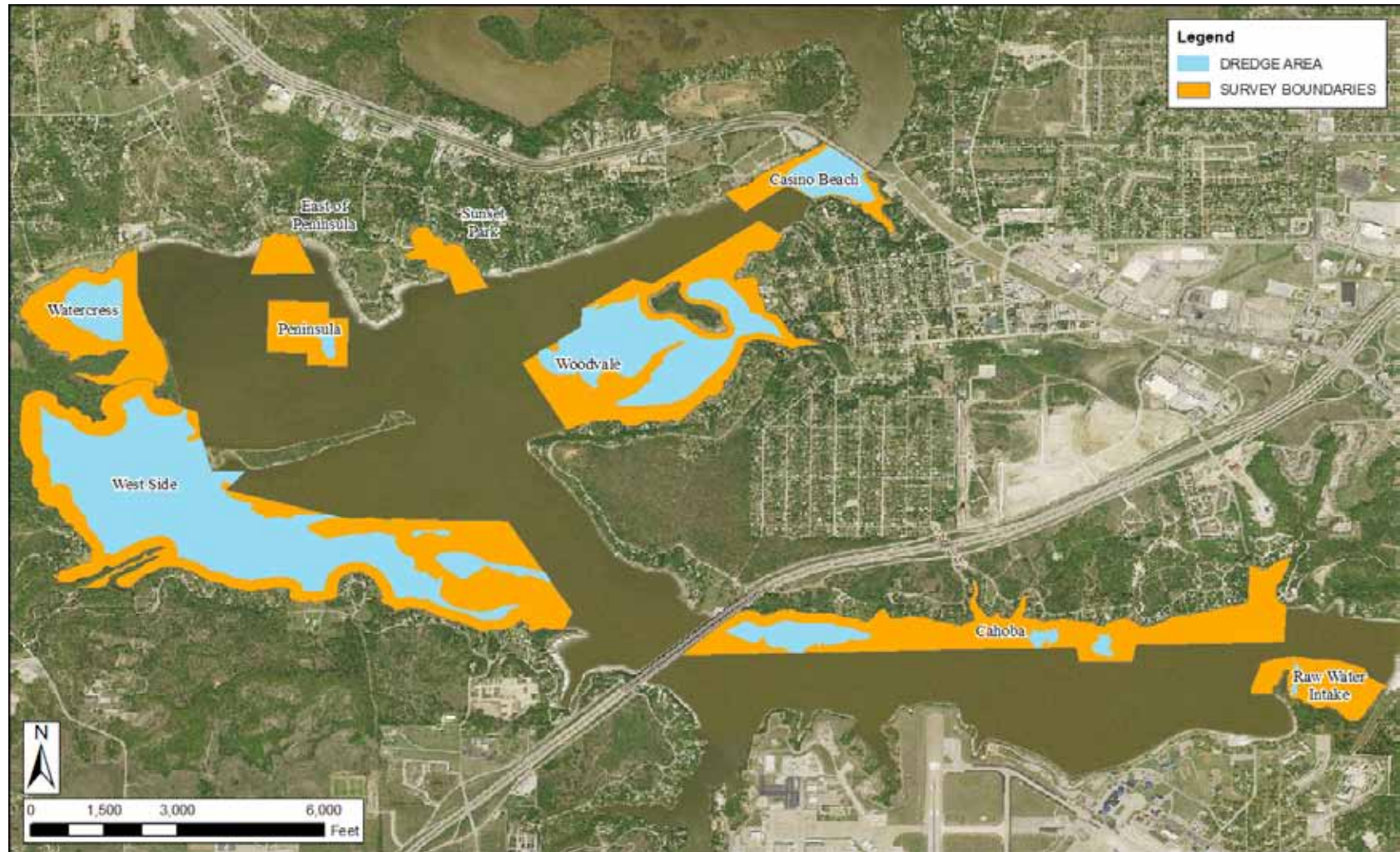
- Candidate dredge areas from CIIP Study
- Recreation enhancement
- Safety improvement
- Water quality
- Boat access to lake
- Target elevation of 584 ft-msl
 - 6 feet below minimum normal pool
- Avoid areas of known PCB contamination



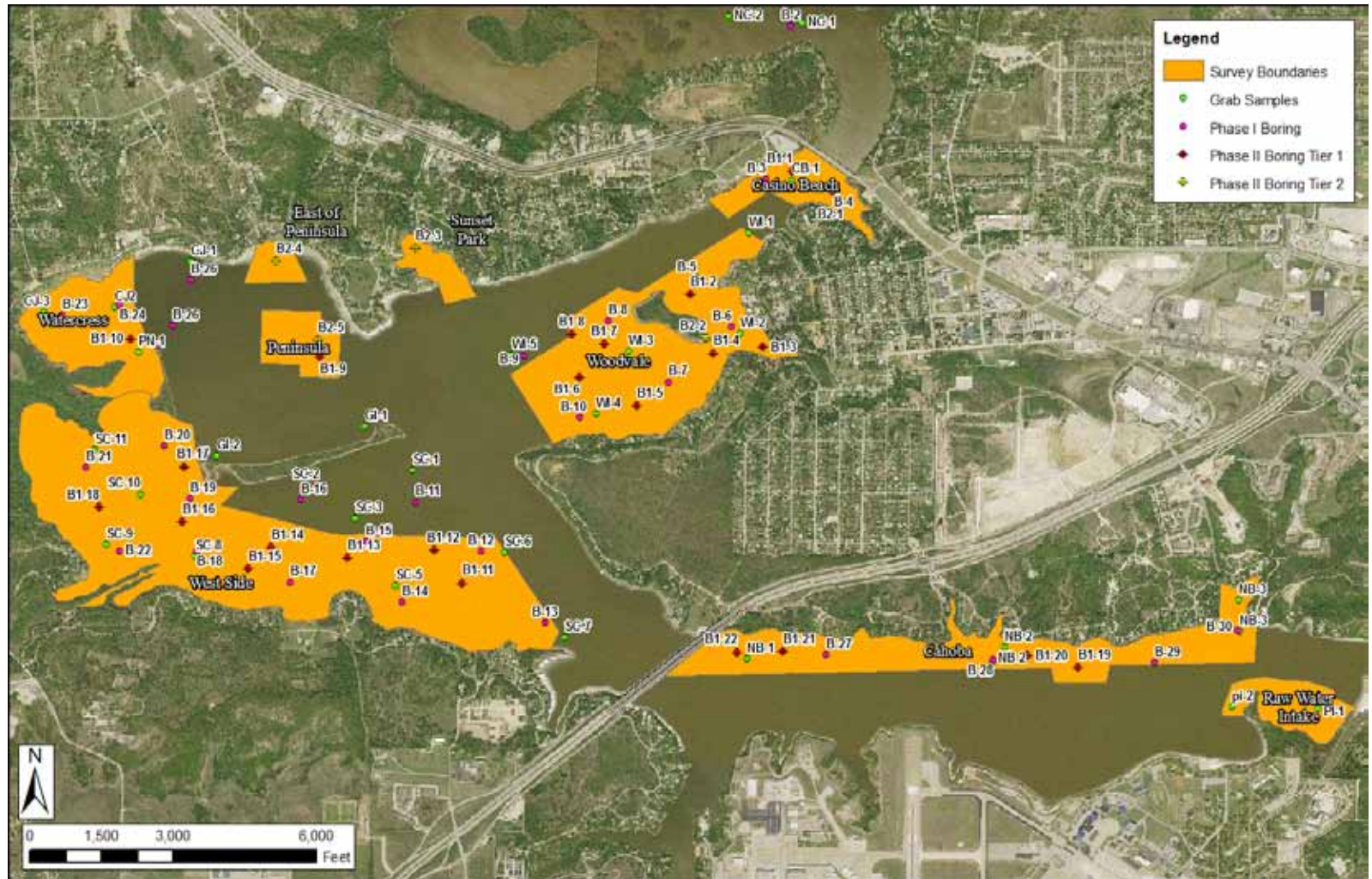
Bathymetric Survey



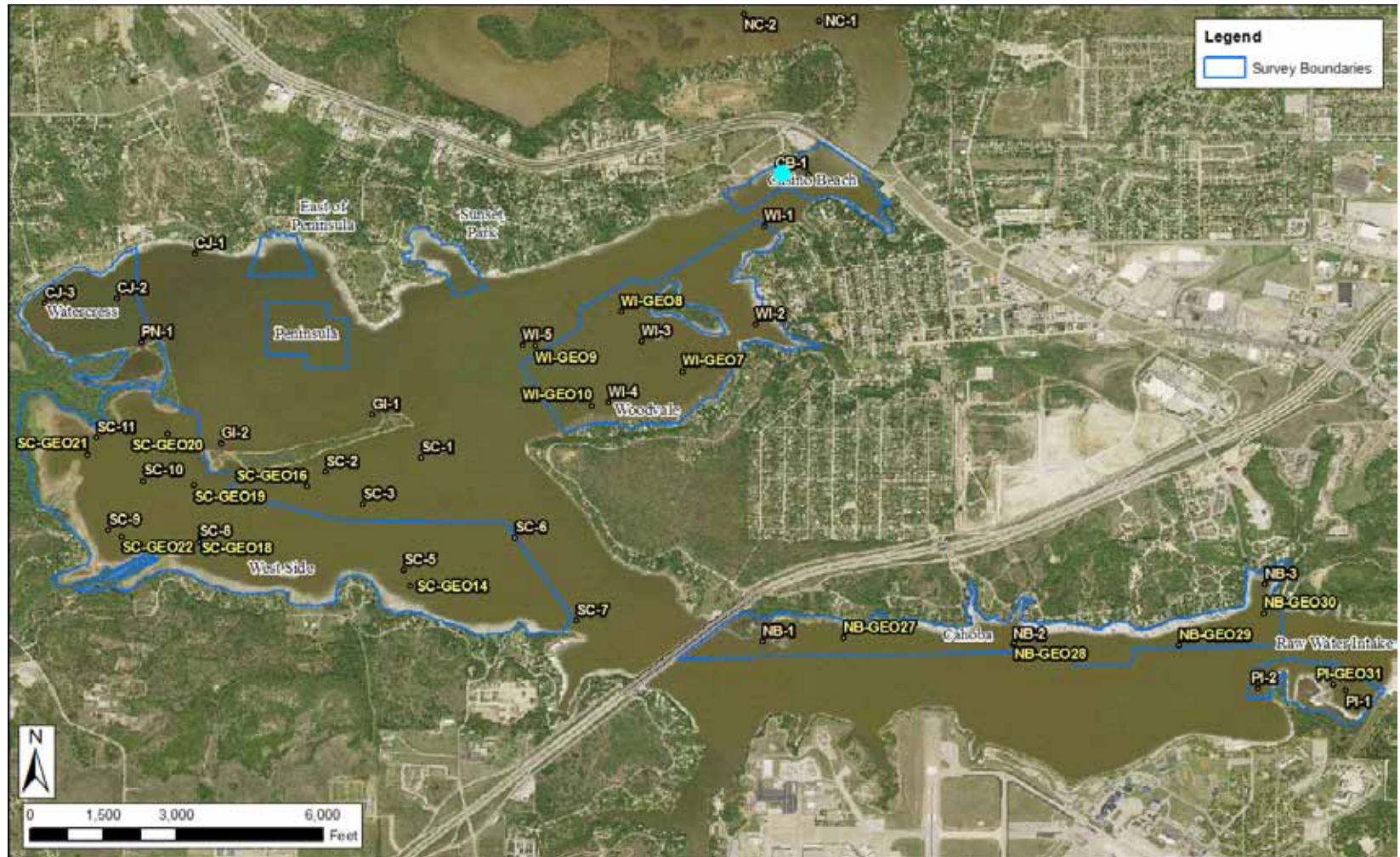
Bathymetric Survey Results



Geotechnical Investigations

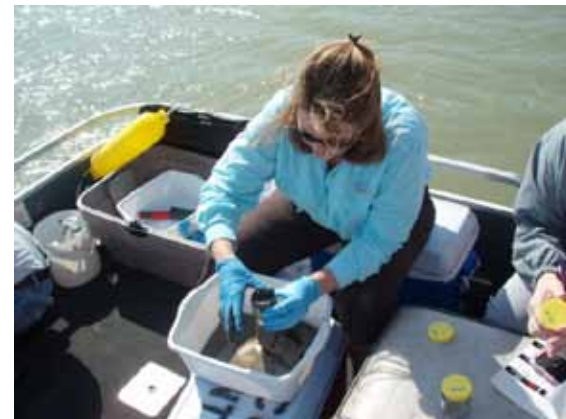


Sediment Characterization



Sediment Characterization

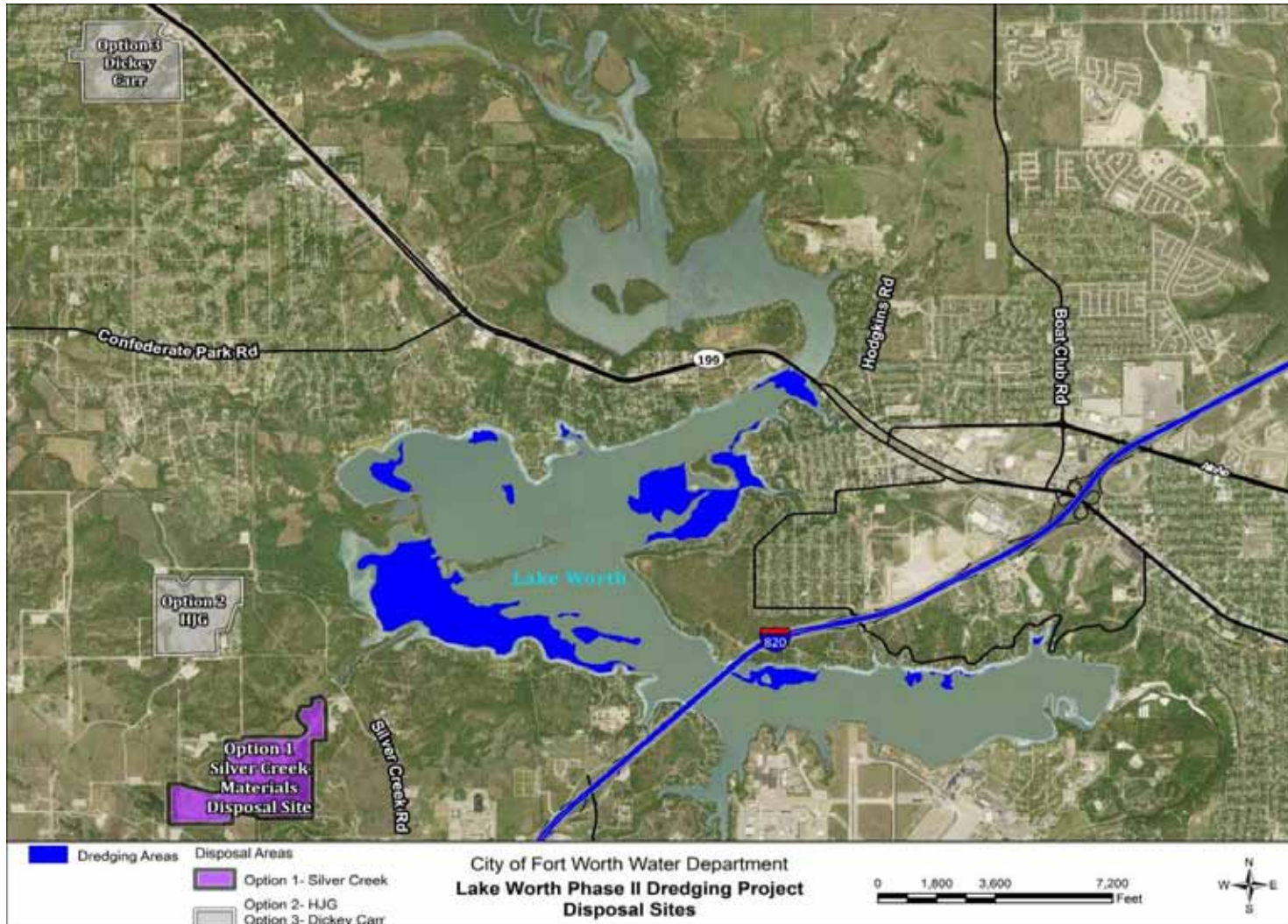
- Phase 1 – 64 samples
- Phase 2 – 18 samples
- TCEQ waste disposal limits
- No PCBs issues
- No VOCs (volatile organic compounds) issues
- No SVOCs (semivolatile organic compounds) issues
- Limited detection of pesticides/herbicides
- No in-lake or out-of-lake disposal restrictions



Disposal Pre-purchase

- Locate a disposal facility early to allow environmental permitting
- Three local bids solicited
 - Silver Creek Materials
 - HJG
 - Dickey Carr
- Transmission cost estimates added for comparison
- Pre-purchase awarded to Silver Creek Materials

Disposal Pre-purchase



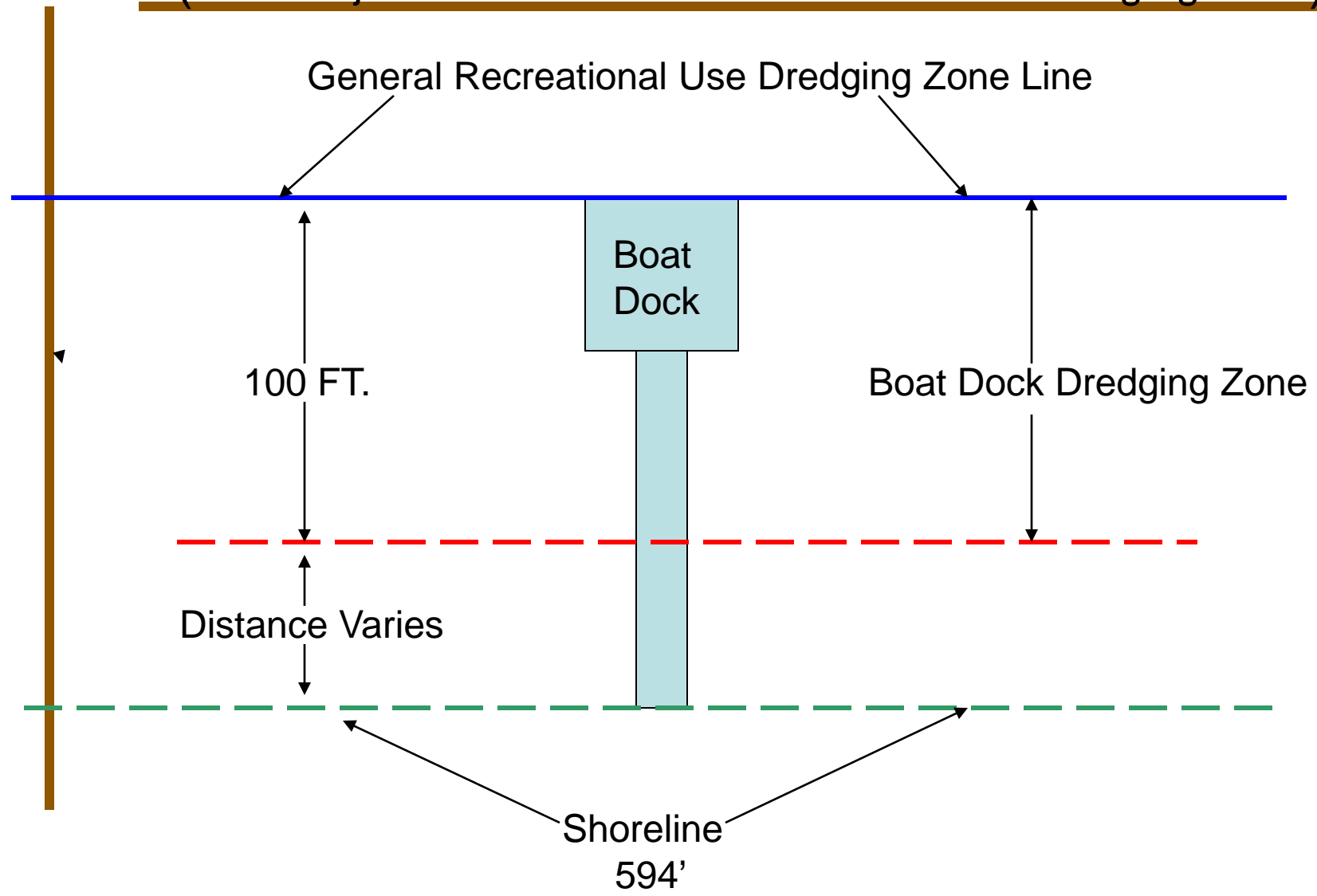
Final Design

- Phase I Design
 - Areas to match available funding
 - Areas easily permitted
 - Pipeline to Silver Creek Materials
 - Letter of Permission (LOP) from Corps
- Phase II Design
 - Remaining dredge areas
 - Minimal boat channels for access
 - Allowance for dock owners to “sweep into the hall”
 - Avoid wetlands and shallow water habitat
 - LOP amendment for Phase II areas

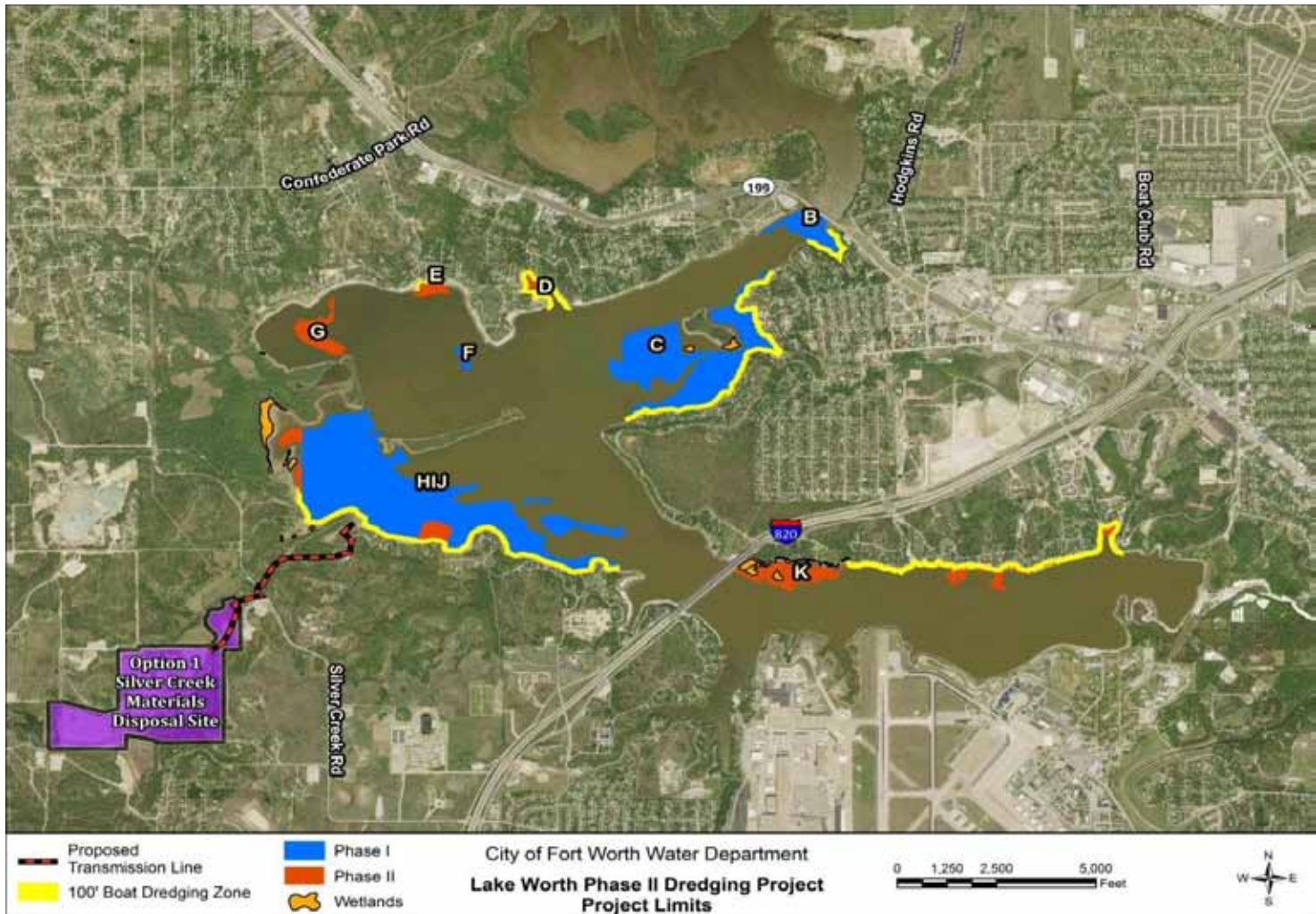


Boat Dock Dredging Zone

(Dock Adjacent to General Recreational Use Dredging Zone)



Final Design

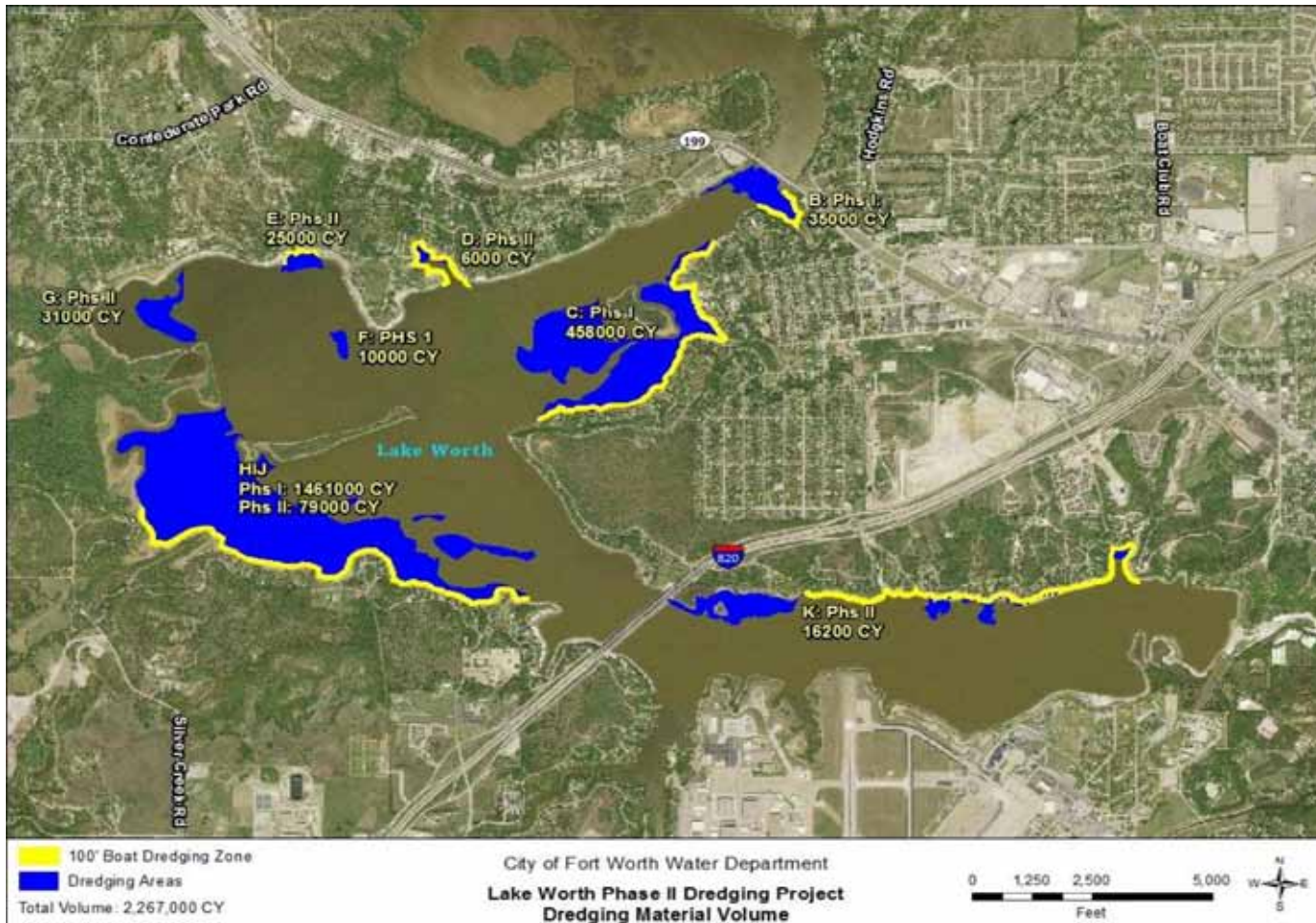


Project Status

- Phase I construction awarded to Great Lakes
 - 1.8 million cubic yards
 - \$12.5 million
- Phase II
 - LOP amendment approved April 10, 2012
 - Approx 400,000 cubic yards
 - Includes boat channels



Final Design



Moving In



Moving In



Dredging



Remaining Work

- Begin Phase I dredging –Mid July 2012
- Dredging ground breaking ceremony – July 31, 2012
- Complete Phase II Design –July 2012
- Phase II change order approval – Based on available funding
- Complete Phase 1 dredging – April 2013

Questions?