Lake Worth Dredging

Lake Worth Regional Coordination Committee
September 20, 2018

Presented by:

Water Department
Permitting – Scope of Work

- Regulated under Section 404 of Clean Water Act
- Administered by US Army Corps of Engineers (USACE)
- Previously issued USACE permit has expired
- Permitting would include the following components
  - Section 404 Permitting
    - Maintenance dredging around private docks adjacent to previously authorized dredging areas where owners expressed interest in cost participating.
    - Cleaning out of previously dredged areas that filled during 2015 flood
  - Seeking a Letter of Permission II, Excavation Activities
  - Sediment Characterization
    - Determine concentrations of potential chemicals of concern
    - Will dictate sediment disposal options
Engineering Scope of Work

- Evaluate bidding and dredging methods
- Evaluate potential material disposal locations
- Perform survey of maintenance dredging locations
- Perform survey of rock dredging locations
- Determine boat dock dredging locations, perform surveys
- Coordinate development of construction plans with environmental permitting requirements.
- Prepare bidding plans and specifications
- Bidding and construction phase services
Boat Dock Dredging

- Boat dock dredging cost estimate ranges from $10,000 to $25,000 depending on the site.
- Sites would need to be identified as part of the permitting, surveyed, and included in the construction plans.
- A contract between the City and homeowner would need to be executed prior to permitting, survey and design.
  - This would likely include payment or payments of the estimated boat dock dredging costs as part of the contract requirements.
- Potential benefit to property owners by including boat dock dredging into permitting, design, and large scale dredging contract.
Boat Dock Dredging

- Hydraulic Dredging Alternative
- Simplified Permitting Process – usually by Contractor
  - USACE 404 Nationwide 16 Permit (Application and Questionnaire)
  - TCEQ Clean Water Permit - letter
- Cost could be approximately $8,000 to $10,000 per dock
- If contiguous boat dock owners work together, then price drops.
Cost and Timelines

• Cost Estimates
  • Permitting and Engineering - $400,000
  • Maintenance Dredging - $4M to $5M
  • Boat Dock Dredging - $10,000 to $25,000 per location
  • Achieve “Economies of Scale” by incorporating with the maintenance dredging contract.

• Timelines
  • Environmental Permitting – Six months from NTP
  • Design and Contract Documents – Six months
  • Construction – Nine Months from NTP

• Next Steps
  • Work with legal to develop contracting methodology and documents
  • Evaluate interest from public in boat dock dredging
  • If interest is there, move forward with permitting and engineering
  • Program funding for dredging project
QUESTIONS