WAGNER CREEK/SEYBOLD CANAL RESTORATION PROJECT
RFP NO. 15-16-010
CITY OF MIAMI, FL

PRE-PROPOSAL CONFERENCE
JANUARY 11, 2016
AGENDA

• PROJECT SITE LOCATION/AREAS

• SITE DESCRIPTION
  • WAGNER CREEK
  • SEYBOLD CANAL

• ENVIRONMENTAL HISTORY

• PROJECT GOALS

• ESTIMATED SEDIMENT REMOVAL QUANTITIES

• CRITICAL SUCCESS FACTORS

• QUESTIONS/DISCUSSION
PROJECT SITE LOCATION
PROJECT AREAS

Section 1
NW 20th St to NW 14th Ave

Section 2
NW 14th Ave to NW 15th St

Section 3
NW 15th St to NW 14th St

Section 4
NW 14th St to SR 836

Section 5
SR 836 to NW 11th St

Section 6
Seybold Canal
NW 11th St to Miami River
SITE DESCRIPTION
WAGNER CREEK

• Project site is located in a densely populated urban area of the City of Miami, Miami-Dade County, Florida along a 1.67-mile (7,850 feet) tributary to the Miami River.

• Wagner Creek, starting at NW 20th Street, receives stormwater run-off from the surrounding C-6 Basin and merges into Seybold Canal at NW 11th Street.

• Wagner Creek is approximately 5,500 feet long, ranges in 22 ft to 40 ft wide, and a depth range of 3 ft to 6 ft.

• Most sections are not accessible or navigable by boat due to shallow depths.

• Wagner Creek is bordered by commercial and residential properties and a hospital complex with some low-lying fixed roadway bridges crossing over the creek.
WAGNER CREEK
SITE DESCRIPTION
SEYBOLD CANAL

• Approximately 2,350 feet long and 25 ft to 60 ft wide with a 100 ft wide turning basin at the northern end of the canal (NW 11th St).

• Navigable waterway that is bordered by residential and commercial properties and lined by seawalls, docks and other types of revetment structures.

• Discharges into the Miami River approximately 2 miles NW of Biscayne Bay

• Within the geographic borders of the Biscayne Bay Aquatic Preserve and classified by Florida DEP as an Outstanding Florida Water

• Seybold Canal and Wagner Creek are both tidal.
SEYBOLD CANAL
ENVIRONMENTAL HISTORY

• In 2003, the City of Miami submitted a request to perform maintenance dredging on Wagner Creek upstream of NW 11th Street

• Sediment and surface water samples were collected and analyzed as part of the permitting process in preparation of the sediment removal and disposal → analytical results indicated elevated concentrations of dioxins in sediments

• In 2007, City engaged CH2M HILL to assist in restarting the permitting process for the sediment removal

• As part of the Corrective Action Plan (CAP), CH2M HILL conducted a site land survey, sediment and surface water sampling, and sediment thickness probing in 2008 and additional sediment sampling in 2009 in order to refine sediment removal volume estimates
  • Contaminants of concern include dioxins, PAHs and metals

• Following regulatory approval of the CAP, permits were secured from the Florida DEP, US Army Corps of Engineers, and the Miami-Dade DERM for the sediment removal and disposal
PROJECT GOALS

• Remove sediments in both Wagner Creek and Seybold Canal waterways to improve drainage and/or navigation
• Reduce the risk from contamination in the creek and canal with a focus on protecting public and worker safety
• Minimize damage to existing structures, land vegetation and wildlife
## SEDIMENT REMOVAL QUANTITIES

<table>
<thead>
<tr>
<th>Operational Sections</th>
<th>Dredge Volume Estimate (cy)</th>
<th>Dredge Mass Estimate (tons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS-1 (NW 20th St to NW 14th Ave)</td>
<td>3,945</td>
<td>5,444</td>
</tr>
<tr>
<td>OS-1 Emelle (or similar facility)</td>
<td>654</td>
<td>902</td>
</tr>
<tr>
<td>OS-2 (NW 14th Ave to NW 15th St)</td>
<td>3,927</td>
<td>5,419</td>
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<tr>
<td>OS-2 Emelle (or similar facility)</td>
<td>1,220</td>
<td>1,684</td>
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<td>OS-3 (NW 15th St to NW 12th Ave)</td>
<td>4,338</td>
<td>5,986</td>
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<td>OS-4 (NW 12th Ave to SR 836)</td>
<td>2,094</td>
<td>2,890</td>
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<td>OS-5 (SR 836 to NW 11th St)</td>
<td>4,339</td>
<td>5,988</td>
</tr>
<tr>
<td>OS-6 (Seybold Canal)</td>
<td>23,793</td>
<td>32,835</td>
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<tr>
<td><strong>TOTAL</strong></td>
<td><strong>44,310</strong></td>
<td><strong>61,147</strong></td>
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SEDIMENT REMOVAL ASSUMPTIONS

• Sediment removal based on bathometric and probing volumes from August 2008 – 44,310 cy.

• Proposed removal work defined in the Corrective Action Plan 2 (Sept 2009)

• Sediments with Dioxins TEQ > 1,000 pg/g (as determined from the 2008-09 sampling event) would be transported and disposed at the Waste Management-Emelle, AL facility (or similar)

• Volumes includes a 10-foot minimum offset from the seawalls, docks, or other structures within Seybold Canal, side slopes of 3 horizontal to 1 vertical (3:1) and a 6-inch over-dredge allowance.
CRITICAL SUCCESS FACTORS

• Design-Build Firm completes its work on budget and on schedule, and in compliance with all operating permits
• Maintain control of all sediments from removal through disposal
• No health and safety incidents
• Regular and effective communications with the project team
• Maintain detailed and accurate field documentation that will be able to sustain critical review by the City, agencies, and other stakeholders
QUESTIONS