



MIAMI RIVER BASIN WATER QUALITY IMPROVEMENT REPORT
1st QUARTERLY REPORT
(JANUARY 1, 2005 – MARCH 31, 2005)

Action Items

1. Storm water
 - a. Retrofit drainage in remaining areas of Miami River starting with Pinehurst neighborhoods

Status: This project consists of drainage work consisting of french drains, solid piping, catch basins, manholes, pollution retardant structures, and water control structures prior to the outfall to Wagner Creek in order to provide water quality treatment prior to discharge and inhibit the discharge of solids into Wagner Creek.

The final design phase was completed in December 2004. Construction is anticipated to commence by May 2005 and is expected to take 10 to 12 months to complete. Estimated total construction cost is \$ 1.6 million. This project is fully funded by city storm sewer general obligation bond supplemented by SFWMD grants in the amount of \$ 1.2 million.

The project boundaries are bounded on the north by N.W. 28th Street, on the south by N.W. 20th Street, on the west by N.W. 17th Avenue and on the east by N.W. 12th Avenue.

- b. Little Havana Storm Sewer Rebuilding Project

Status: The construction for this project was completed on October 2002.

The project location is S.W. 10th Terrace between S.W. 27th and S.W. 28th Avenue.

- c. Allapattah Storm Sewer Project

Status: The construction for this project was completed in approximately December 2004.

This project is located along N.W. 15th Street between 13th Court and 14th Avenue and along 13th Court between 15th and 16th Street.

d. Downtown Storm Sewers Rebuilding Project

Status: This project is divided in two phases: Phase I (S.W. 15th Road) and Phase II (North Bay Shore Drive at N.E. 18 Street, N.E. 17 Terrace, N.E. 18 Terrace, N.E. 4 Avenue, N.E. 19 Street, N.E. 17 Street). Phase I was completed on August 2002.

Phase II consists of drainage improvements and roadway reconstruction. The engineering design consultant assigned to this project is R.J. Behar. The design phase is approximately 30% complete. The design commenced in February 2005 and is anticipated to be completed in August 2005. Subsequent to procurement phase, construction is expected to begin in February 2006 and be completed in December 2006. The estimated total project cost is not known at this time. Current funding allocated for this project is \$ 671,000.

e. Wagner Creek Dredging Project, Phase IV

Status: This project consists of the dredging and bank stabilization of Wagner Creek. Design plans are approximately 90% complete. Florida Department of Environmental Protection (FDEP) permit has been issued for this phase. Army Corp of Engineers (ACOE) permit has also been issued for this phase. Permit from Miami-Dade County Department of Environmental Resources Management (MDC-DERM) Coastal Section is pending and is contingent on the approval of the Corrective Action Plan from MDC-DERM Pollution Remediation Section. However, this project will remain on HOLD until a temporary storage / dewatering site is identified and a public meeting is held with regards to this site and project. Once a dredging methodology is selected by the City and a temporary storage/ dewatering site is identified and approved, the Corrective Action Plan can be revised and resubmitted to MDC-DERM for their review. The City is also researching and evaluating innovative technologies for dredging and dewatering the creek sediment.

Current estimated budget for this project is \$ 1,812,000. This budget consists of local city funds supplemented with a SFWMD grant in the amount of \$ 1,000,000 that will be utilized for phases IV and V. An estimated construction cost for this phase has not been determined at this time.

The project schedule has been delayed due to the City's need to select another temporary storage/dewatering site. The previous site selected located on NW 6 Place between NW 15 Street and NW 17 Street is no longer an option as determined by the City of Miami Commission on December 9, 2004. The dredging is anticipated to commence in 2006.

The project limits are along Wagner Creek between 14th Avenue and N.W. 15th Street.

f. Wagner Creek Dredging Project, Phase V

Status: This project consists of the dredging and bank stabilization of Wagner Creek and is under design by Consulting Engineering and Science, Inc. Design plans are approximately 90% complete. Florida Department of Environmental Protection (FDEP) permit has been issued for this phase. Army Corp of Engineers (ACOE) permit has been partially issued for this phase. Permit from Miami-Dade County Department of Environmental Resources Management (MDC-DERM) Coastal Section is pending and is contingent on the approval of the Corrective Action Plan from MDC-DERM Pollution Remediation Section. However, this project will remain on HOLD until a temporary storage / dewatering site is identified and a public meeting is held with regards to this site and project. Once a dredging methodology is selected by the City and a temporary storage/ dewatering site is identified and approved, the Corrective Action Plan can be revised and resubmitted to MDC-DERM for their review. The City is also researching and evaluating innovative technologies for dredging, and dewatering the creek sediment.

The City anticipates to group Phases IV and V together and advertise for bids subsequent to the completion of the design phase.

Current estimated budget for this project is \$ 2,530,215. This budget consists of local city funds supplemented with a SFWMD grant in the amount of \$ 1,000,000 that will be

utilized for phases IV and V. An estimated construction cost for this phase has not been determined at this time.

The project schedule has been delayed due to the City's need to select another temporary storage/dewatering site. The previous site selected located on NW 6 Place between NW 15 Street and NW 17 Street is no longer an option as determined by the City of Miami Commission on December 9, 2004. The dredging is anticipated to commence in 2006 funding permitting.

The project limits are along Wagner Creek between 15th Street and N.W. 11th Street.

g. Wagner Creek Dredging Project, Phase III

Status: This project is currently under design by PHS Engineering Corp., the city consultants. The design phase is 60% completed. However, this project will remain on HOLD until a temporary storage / dewatering site is identified and a public meeting is held with regards to this site and project. Once a dredging methodology is selected by the City and a temporary storage/ dewatering site is identified and approved, the Corrective Action Plan can be revised and resubmitted to MDC-DERM for their review. The City is also researching and evaluating innovative technologies for dredging and dewatering the creek sediment.

This project is partially funded by FEMA in an approximate amount of \$ 180,000. An estimated construction cost for this phase has not been determined at this time.

The project schedule has been delayed due to the City's need to select another temporary storage/dewatering site. The previous site selected located on NW 6 Place between NW 15 Street and NW 17 Street is no longer an option as determined by the City of Miami Commission on December 9, 2004. The dredging is anticipated to commence in 2007 funding permitting.

The project limits are along Wagner Creek between 20th Street and N.W. 14th Avenue.

- h. Install solid waste interceptors at all Miami River Outfalls

Status: The City of Miami recently on the April 14th commission meeting approved the “Wagner Creek Inlet Retrofitting Project”. The successful bidder was Environmental Performance Systems, Inc. This project will retrofit 250 inlets in the Wagner Creek drainage basin by installing leaf collecting basket, and vertical grates at inlets. Construction is expected to start in about a month. Contract time has been set for 150 days.

- i. Collect, compile, analyze and report of solid waste data from catch basins

Status: Current status for this action item to be updated and submitted in the next quarterly report.

- j. Report of on-site storm water treatment alternatives and BMP’s

Status: Current status for this action item to be updated and submitted in the next quarterly report.

2. Wastewater

- a. Conduct “dye flood” study

Status: On April 29, 2004 the City of Miami provided South Florida Water Management District (SFWMD) a list of approximately 45 storm water and sanitary sewers disconnections conducted by the city Department of Public Works from the year 1988 through 2002. No new illegal connections between storm water and sanitary sewer systems have being identified and reported within city limits by MDWASD.

The illegal connection locations listed below were disconnected under a City contract completed by Metro Express, Inc. on June 2002:

- 1) NE 79 St. and NE 3 Court
- 2) 2005 SW 3 Street
- 3) 2175 NE 2 Avenue
- 4) NW 18 Avenue and NW 1 Street
- 5) 101 SW 26 Road

3. Enforcement, compliance and education

- c. Implement active inspection of sanitary sewer connections and storm water drainage during construction

Status: The City of Miami is regularly inspecting new construction of storm sewer and sanitary infrastructure as part of the on-going procedures of the permitting process. The City of Miami Building Department inspects the private side and Public Works Department line and grade inspector inspects the public side. The Miami-Dade DERM inspects storm sewer system hook-ups.

- g. Point Park Environmental Center

Status: The FIND project for shoreline restoration and some upland improvements cost \$276,000 (FIND/DERM \$138,000 each). This project is on hold until the city files for a variance to build an eight foot high privacy wall on the north side of the park to separate the park from a private residential property. The City had obtained a Class II permit for the FIND/DERM project that required a six foot high privacy wall. However, the owner of the private property appealed the Class II permit and this was delayed because it had to be heard at the Zoning Board and then was appealed to the city commission which denied their appeal but requested that the city apply for a variance to extend the six foot high wall to eight foot high. We (Parks) are in the process of obtaining all the required documentation to apply for the variance which I believe will not be heard until June. Only then after a decision is made with the wall height can Parks proceed with the FIND/DERM project. Tomorrow I will be going to the Homeland Defense Bond Board Audit Committee to request \$300,000 to complete the Seybold Canal House. It seems that Community Development will not be funding the completion of that project.

4. Monitoring and Research

- b. Complete special studies required under NPDES

Status: As required by the NPDES permit, on November 24, 2003, Elyrosa Estevez, P.E. III City of Miami Public Works Qualified Storm water Management Instructor by the Department of Environmental Protection (FDEP), conducted a Storm water, Erosion and Sedimentation Control Inspector Training Program to certify new inspectors in the Department of Public Works NPDES Division. As a result, 13 new inspectors were trained and currently hold certification in

Storm water, Erosion and Sedimentation Control by the Florida Department of Environmental Protection (FDEP).

NPDES city staff regularly attends seminars, conferences and exhibits hosted by the Florida Stormwater Association on Storm Management and Utilities, Watershed Protection and Total Maximum Daily Loads (TMDL's), to acquire the required knowledge of environmental regulations and to be informed of innovative solutions to the stormwater problems used and tested by other agencies and municipalities.

As part of the permitting process, the City of Miami Public Works Department requires that consulting engineering designers, implement the necessary Storm water Best Management Practices for Construction Activity in the construction drawings for public works and capital improvement projects, and contractors to implement these BMP's during construction.

- c. Extend the storm water bacterial survey farther upstream

Status: Revisions to the contract between the Miami River Commission (MRC) and the consultant Camp Dresser & McKee Inc. (CDM) to conduct the "Upper Wagner Creek Isolation Survey as described in the scope of work of submitted proposals, are being performed by members of the evaluation committee to finalize the negotiations and enter into this contract.