

# City of Key West Water Quality Improvement Plan

**DRAFT**



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- 5 Entities
- 8 Meetings
- 6 Programs
- 3 Plans

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# Completed WQPP Strategies To Date:

- ✓ Central Wastewater Treatment in 1989
- ✓ Upgraded to AWT standards 1999
- ✓ Outfall closed in 2000; Added Class I deep injection
- ✓ Eliminated septic tanks and cesspits
- ✓ UV treatment added in 2007
- ✓ WWTP accepts non municipal sources (marine sanitation devices)
- ✓ Ordinances prohibit dumping of leaves, fish scraps, etc into canals, marinas and nearshore waters
- ✓ Uploading historical WQPP-generated monitoring data to WIN



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# 1) Increase Partnerships to address Marine Debris / Derelict Vessels.

- a. Expand mooring fields
- b. Cross deputize City staff to report derelict vessels
- c. Promote SEAFAN.net for public reporting of derelict vessels/etc.
- d. Promote “Vessel Turn In” Opportunities
- e. Host partner workshop to find other potential synergies
- f. Increase monofilament receptacles at fishing areas
- g. Develop stone crab trap recycling guidance
- h. Research other effective marine debris programs



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## 2) Ensure Adequate Staffing and Support to Effectively Manage/Advance the KW WQ Improvement Plan.

- a. Enact KW WQ Improvement Plan
- b. Participate in WQPP & annual operating planning
- c. Strengthen coordination with other local governments



## 3) Data Management

- a. Upload all qualifying data from marinas and landfill to public database
- b. Ensure all new data can be utilized in public database



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#### 4) Stormwater Best Management Practices/Technology

- a. Continue to modernize, elevate and harden equipment and infrastructure
- b. Update Stormwater Master Plan every 5 years
- c. Complete Green Infrastructure portion of Adaptation Plan.
- d. Explore stormwater treatment opportunities for road elevation and other adaptation infrastructure
- e. Explore Canal Keepers program
- f. Educate public on annual project and expenditures



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## 5) Evaluate Existing Water Quality Improvement Program

- a. Host Evaluation Workshop every 5 years to recommend changes to KW WQIP
- b. Ensure that corrective actions have effective monitoring programs
  - i. EPA Grant w CFK monitors H<sub>2</sub>S, ammonia & sucralose hotspot
  - ii. Key West Harbor Monitoring



## 6) Incorporate Contaminants of Emerging Concern into Monitoring

- a. EPA Grant with CFK monitors oxybenzone
- b. Test at KWWWTP to ID main CECs
- c. Test at KW Resort Utilities (& Big Coppitt?) to ID main CECs
- d. Annually review emerging research

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## 7) Strengthen Regulations to Reduce Marine and Boater Pollution

- a. Enforce Clean Marina, Clean Boatyard Certifications
- b. Ensure adequate marine pumpout services
- c. Collaborate on shared language for pumpout regulations with other local governments

## 8) Advocate for Upstream Water Quality Improvements

- a. Support FKAA Research Efforts at Turkey Point
- b. Advocate for WQ Projects in the Everglades
- c. Advocate for improvements to mainland wastewater infrastructure
- d. Advocate for improvements to watershed mgmt practices affecting GOM
- e. Stay abreast of FK and SFL Ecosystem Connectivity Team rec's



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## 9) Determine WQ Risks & Mitigation Actions Derived from Climate Change

- a. Complete Environmental Chapter of Adaptation Plan (habitat loss, long term SLR, acidification, Harmful Algal Blooms)

## 10) Participate in Targeted, Shared Educational Campaigns

- a. Serve on WQPP Outreach Sub-Committee, Advise on Communications Strategy
- b. Advocate for Priority Messaging (fertilizer, sunscreen, dumping, canals, climate change)



## 11) Wastewater Management Best Management Practices/Technology

- a. Continue to modernize, elevate and harden equipment and infrastructure
- b. To the extent possible, consider treatment for EPCs
- c. Educate public on annual project and expenditures



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## FY23 Budget

\$1.4M	Adaptation Plan
\$100,000	Mote: Support for Coral Restoration
\$180,000	CFK: WQ Monitoring Partnership

## FY24 Budget:

\$ 60,000	Ports Adaptation and WQ Coordinator
\$ 40,000	CFK Partnership
\$ 2,500	Educational Materials
\$ 1,000	Monofilament Receptacles – FWC
\$ 500	Partner Workshop for Marine Debris
\$ —	Water Reuse Feasibility Study
\$ —	Higher compliance sampling
\$ —	CEC Testing at wastewater plants x 3
\$ —	Mooring Field Expansion

Assistance  
Needed!

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Questions?

Ideas?

What's Missing?

Wanna Partner?

Assistance  
Needed!

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