



CHARTING *the* COURSE

THE COMPREHENSIVE CONSERVATION
AND MANAGEMENT PLAN FOR TAMPA BAY
MAY 2006

CCMP Update

Joint TAC/ABM Review

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Action Plans: Status

Today:

*Review of Wastewater Actions (4),
final Dredging action (1),
Spill Prevention & Response Actions (2)*

Approved:

- * Fish & Wildlife/Invasive Species
- * Bay Habitats
- * Toxics and Public Health Actions
- * Partial Dredging Action Plan

On Deck:

Remainder of
Water & Sediment
Quality (stormwater,
reuse, algae blooms)

Public Education &
Involvement

Climate Change

Local Implementation

Public Access

Draft Actions

WW-1 Expand Reuse Where Reuse, Aquifer Recharge or ASR Benefits the Bay

WW-2 Extend Central Sewer to Priority Areas Now Served by Septic Tanks

WW-3 Require Standardized Monitoring of Wastewater Discharges

WW-5 Reduce Occurrence of Sewer Overflows

Draft Actions

DR-2 Continue to Evaluate Impacts to Wildlife from Dredging

SP-1 Continue to Implement Technologies to Improve Coordination of Ship Movements

SP-2 Evaluate and Update Spill Response Plans

WW-1 Expand Reuse Where Reuse, Aquifer

Recharge or Aquifer Storage and Recovery Benefit

Recommended Strategy:
the Bay

Activity 1

- Track regional strategy for ASR, direct and indirect recharge projects to strengthen understanding of cumulative impacts to water resources.
 - SB536 Implementation; Inter-watershed transfers possible; inclusive of reclaimed storage and interconnects

Activity 2

Strengthen understanding of contribution of nutrients, PPCPs and microplastics to bay via watershed-applied reuse water (including indirect aquifer recharge basins, irrigation and restoration projects)

- Consideration for greatest practical treatment for reuse (to avoid future impairments or contributions to existing impairments)
- Links to TX actions; Additional language in background

Activity 3

Encourage redevelopment of reclaimed water storage and recovery systems to balance wet/dry season supply and demand inefficiencies. Update or modify Land Development Codes to promote reuse within bay watershed.

(2 separate activities?)

- Comp plans instead of LDC (may not be lacking encouragement of reuse)?
 - Identifying deficiencies/nuances for particular municipalities LDC related to reuse hook-ups
- *Exceptions* in LDC related to utilizing reuse recharge areas

Activity 4

Continue education for facilities managers at golf courses, schools, government buildings, parks, hospitals on benefits and proper use of reclaimed water for landscaping – including reducing fertilizer use where reclaimed water is applied.

(add homeowners and HOA/Commercial property managers?)

- Identify new methods/campaigns to target important end-users

Comments WW-1:

- Promoting stormwater reuse (insert as appropriate in SW CCMP Actions)

WW-2 Extend Central Sewer to Priority Areas Now Served by Septic Tanks

Recommended Strategy:

Activity 1

Continue to update inventories and maps of septic systems in watershed, and ID “hot spots” of pollution from septic tanks or package plants.

Activity 2

Continue to convert package plants and septic systems (**failing/hot-spot areas**) to central sewer. Incorporate strategies in BMAPs or similar basin improvement plans and local comp plans.

Activity 3 **WW-2 (Continued)**

Develop baywide and segment-specific estimates of nitrogen loadings from septics as part of overall annual nitrogen loading rates developed every five years.

Activity 4

Support evaluation and adoption of new septic system technologies that reduce nitrogen. Support legislation to require regular maintenance and inspection of septic tanks.

- Implemented through BMAP process

Activity 5

Increase education in problem areas about proper maintenance of septic tanks; encourage hookup to central sewer where available.

- Opportunities to broaden educational component to key stakeholders

Comments WW-2:

- MS4 NPDES mechanisms to enforce septic to sewer conversion for chronic/problem areas

WW-3 Require Standardized Monitoring and Reporting of Wastewater Discharges

Recommended Strategy:

Activity 1

Require standardized measurement and timely reporting of TN, TP, TSS, BOD and average daily or monthly flow from point-source facilities with defined load allocations in the 2012 Reasonable Assurance document (including all permittees discharging an avg. 100,000 gallons of wastewater daily)

Activity 2

Improve access to DEP's permit compliance databases and wastewater spill databases. Improve usability and keep up to date.

WW-3 (Continued)

Activity 3

Develop Tampa Bay-specific information from discharge monitoring reports that summarizes core constituents on an ongoing basis, to facilitate timely prep of Reasonable Assurance assessments.

Comments WW-3:

- Show added-value for those entities working on TMDLs/BMAPs

WW-5 Reduce the Occurrence of Sewer Overflows to the Bay

Recommended Strategy:

Activity 1

Support local government efforts to acquire grant funding to replace substandard or aging facilities.

Activity 2

Encourage communication, collaboration and cooperation among utilities. Support DEP's ongoing working group to convene and facilitate regular meetings among regional utilities.

- Improvements in public outreach/communication when events occur
- Smartphone alerts? (Next Door Neighbor/Ready Alerts) → Implement in more municipalities?
- Integrate efforts with Health Departments/notifications

WW-5 (Continued)

Activity 3

Encourage & support utility efforts to reduce inflow/infiltration into sewer systems. Encourage ongoing maintenance and replacement of deteriorating sewer lines owned by utilities and private property owners. Encourage installation of manhole protectors, and *{enforcement of grease ordinances}* and illicit connections to storm or sanitary sewers.

- Move enforcement of grease ordinances to Activity 4
- Comprehensive asset management important (focusing on any one activity will not necessarily fix the problems with the system in total)

Activity 4

Support education about best practices, such as inappropriate items to flush or wash down sinks (wipes and fats, oils and greases) and need to maintain or replace deteriorated sewer lateral pipes on private property.

- Caution in messaging (being alarmist vs. informational)

Comments WW-5:

- Episodic events; need to review design standards periodically? Other examples from different areas?

DR-2 *Avoid or Minimize Impacts to Wildlife and Their Habitats* from Dredging

Recommended Strategy:

Activity 1 (Include in DR-1?)

Recommend beneficial uses of dredged material to preserve existing wildlife habitat or create new habitat, through USACOE Regional Sediment Management Plan. Collaborate on protection [or restoration projects \(DR-](#)

[1?\)](#) ~~at~~

~~spoil islands~~ to enhance fish and wildlife habitat *(in particular bird nesting habitat) where appropriate (taking into consideration potential long-term impacts from projects, e.g. turbidity → DR-1 actions).*

Activity 2

Encourage continued compliance with Port of Tampa's Site-Specific Bird Protection Plan for DMMMA 2D and 3D. Review and update Plan regularly.

DR-2 (Continued)

Activity 3

Support research to better understand and quantify effects of dredging on wildlife, including suitability of dredge material to renourish beaches where sea turtles nest. Support alternative techniques that reduce potential wildlife impact at the dredge location, such as improved TEDs or advanced dewatering to make cutter heads more economical than clamshells for small projects.

Activity 4

Develop a BMP manual or recommendations for beach and shoreline restoration in the region to improve wildlife protection during and after renourishment. BMPs could encompass timing, location, design considerations; monitoring and relocation protocols.

Activity 3 (Continued)

Track development of new technologies and improvements to observer training to better protect wildlife during dredging. (*thermal imaging to detect sea turtles or manatees, and standardized training and reporting protocols for the FWC Marine Mammal Observer program.*)

- *Acoustic imaging technologies*
- *Ongoing ACOE Workshops/Research*

Activity 6

Continue to avoid and minimize potential dredging impacts to important estuarine habitats (*e.g., hard bottom/live bottom, seagrass, mangroves, etc.*) in the bay. Develop recommendations to protect these *important habitats (include list; etc. hard bottom) to avoid*, minimize, or mitigate impacts. (*cross-reference Action BH-4*). *Develop and implement science-based in-kind mitigation projects to offset unavoidable habitat impacts.*

Comments DR-2:

- Encouraging other technologies to minimize impacts particularly for smaller/subset of project areas; linear dredging features (e.g. plowing, directional drilling)
- Encourage dredging practices that avoids secondary impacts, promote long-term viability of adjacent habitats , or optimizes the potential for habitats to occur within the project area.
 - Determine optimal, minimal control-depths in dredging projects.

SP-1 Continue to Implement Technologies to Improve Coordination of Ship Movements

Recommended Strategy:

Activity 1

Continue to track and support permanent funding and enhancement of PORTS through local, state, federal or private funding sources.

-- potential funding by all three bay counties, consortium of marine industries, state program, etc.

--leverage PORTS funding with enhancements to other needed monitoring programs, such as ocean acidification or gulfwide sampling network (GOMA)

SP-1 (Continued)

Activity 2

Continue to monitor implementation of Cooperative Vessel Traffic Service. Explore potential for full-time dedicated staffing.

Activity 3

Support implementation of new navigation technologies, including use of electronic or “virtual” Aids to Navigation, as appropriate in Tampa Bay.

Activity 4

Support programming, training and research to improve maritime and port safety, security and sustainability through USF Center for Maritime and Port Studies.

Comments SP-1:

- Including all PORT facilities (Port St. Pete)
- RESTORE funding possibilities (e.g. Pot 3 might be most applicable)

SP-2 Evaluate and Update Oil and Hazardous Material Spill Response Plans for Priority Areas

Recommended Strategy:

Activity 1

Continue to update the Area Contingency Plan and conduct response readiness drills.

Activity 2

Inspect, repair, replace boom, absorbent pads and storage trailers at Cockroach Bay Aquatic Preserve. Conduct training workshops in deploying equipment. Expand pre-spill equipment staging to other sensitive areas, or station trailers at central locales in each county.

SP-2 (Continued)

Activity 3

Increase engagement between Coast Guard, spill responders with environmental community/**site-specific managers and local emergency managers**:

- Coast Guard participation in ABM
- ABM alternate to THSSC; add NOAA, Sea Grant, others to committee

Activity 4

Support training of personnel and adequate rehab facilities to care for oiled wildlife, especially birds. Conduct training workshops for volunteers.

Activity 5

Continue support of research on long-term impacts of oil spills (**and projections for spills**), and collection of baseline data on resources potentially affected by spills.

Comments SP-2:

- Better delineation of responsibility for boom material deployment / maintenance / storage (Improvement in spill response plans)
 - Site managers need to be better engaged in planning/deployment process
- Enhancing local/site-specific plans (e.g. flow meter deployment) to better inform implementation of ACPs
- Are existing boom inventories adequate?
- Tools developed from NOW/Future Cast models (NOAA)
- Baseline monitoring/studies

Thank You

Additional comments?

Email nanette@tbep.org by May 5