

New Council Charges- Brainstorming Exercise:

The purpose of this discussion was to confirm if previously identified areas of interest are still relevant, and establish new direction for the upcoming year and beyond. For each topic, members were asked to identify the following:

- 1) Importance to Agency: Is this of high importance to your agency? Or this would not be supported by your agency?
- 2) Priority Ranking for Council: Indicate whether this is a priority topic for the Council, based on a 1(low) - 5 (high) ranking scale. (1- Not relevant to Council mission; 2- Relevant to Council, but a minimum priority; 3- relevant to Council, of moderate priority; 4- Important priority to Council; 5- Top priority for Council)
- 3) Contacts/ Programs/ Subject Experts: List any programs or subject experts from your agency who could present at a future meeting, or participate in discussion.
- 4) Challenges to Coordination: List any challenges to current coordination efforts. (I.E. Cost, no current SOPs, etc.)
- 5) Benefits to Coordination: List benefits to coordinating this effort (monitoring, information sharing, etc.)
- 6) Considerations: List considerations when approaching this topic. Multi –layered? Are there other facets of this topic?
- 7) Theme for Meeting: Would this topic be a good theme for a future Council meeting to provide a statewide perspective?
- 8) Workgroup: Should this be tasked to a current workgroup, or does this warrant forming a new workgroup or subcommittee?
- 9) Other comments: Other comments captured in group discussion.
- 10) Council Role or “Product”: Is there a specific role the Council should take with this topic, or a potential product that could be identified at this time?

Please note: Council members did not respond to all topic areas, or address every question respective to each topic.

Adverse Event Response:

Importance to Agency: Important Indian River Lagoon/ Lower St. Johns initiative. Could have a SJRWMD representative in Coastal Monitoring Workgroup

Priority Ranking for Council: (5, 5)

Contacts/ Programs/ Subject Experts: Jan Landsberg (IRL), Richard Knudsen (FWRI), Amber Whittle (FWC)

Challenges to Coordination:

Benefits to Coordination:

Considerations:

Theme for Meeting:

Workgroup: Coastal Monitoring Workgroup

Other comments: Close this out after current effort (database) is complete, and provide an annual update.

Council Role or "Product": Ultimate Goal is a Statewide Event Response Plan which will start with the FWC database of events, and will then incorporate other agencies to add their knowledge to the database.

Summation: This is a priority topic for the Council, however it is currently being tasked to the Coastal Monitoring Workgroup. SJRWMD would like to nominate a member for the workgroup. This topic of interest should be closed out after the CMN database is complete, and should be reported as an annual update.

Moving Forward: The Coastal Monitoring Workgroup will continue to develop the database, and provide an annual update.

Updates on Monitoring Programs:

Importance to Agency:

Priority Ranking for Council: (3)

Contacts/ Programs/ Subject Experts:

Challenges to Coordination:

Benefits to Coordination:

Considerations:

Theme for Meeting: Updates should be by theme, or any new or recently changed programs.

Workgroup:

Other comments:

Council Role or "Product":

Summation: This is of moderate priority to the Council. Updates to monitoring programs should be given as they are relevant to a larger theme for meeting (i.e. Emerging Contaminants, Continuous Monitoring, etc.) or if there are recent changes to an established program.

Moving Forward: Updates on Monitoring Programs will be presented as they are relevant to larger themes at future meetings.

Data Quality Objectives (DQOs):

Importance to Agency: This is important to SFWMD.

Priority Ranking for Council: (3,3,4)

Contacts/ Programs/ Subject Experts: John Moorman, SFWMD.

Challenges to Coordination: different procedures, quality acceptance guidelines, QA requirements,

Benefits to Coordination: Needed for data sharing and should be a part of the monitoring design.

Considerations: some are regulatory others research- different quality requirements.

Theme for Meeting: Yes (x3) "DQO 101" would make a good theme for a meeting.

Workgroup:

Other comments:

Council Role or "Product":

Summation: This is of moderate priority to the Council. Challenges to coordinating this effort include different procedures, quality acceptance guidelines, and QA requirements. Also, some DQOs are regulatory while others are relative to research and have varying data quality requirements. Coordinating DQOs is important to ensure comparability of data, and to be more easily shared statewide. Coordinating DQOs preemptively would allow for standardization to be built into monitoring design, instead of retroactively to compare data. Because there is a need for a statewide understanding of what data quality objectives are, an introduction to DQOs should be a theme for a future meeting.

Moving Forward: An introduction to DQOs will be a theme for a future meeting.

Emerging Contaminants:

Importance to Agency: Department of Health is concerned about emerging contaminants in water. Uncertain how much SFWMD will support.

Priority Ranking for Council: (3)

Contacts/ Programs/ Subject Experts:

Challenges to Coordination: lack of science, standards, and detection methods.

Benefits to Coordination:

Considerations:

- Multi-layered topic.
- Pesticides/PCP/Flame Retardants/Pharmaceuticals.

Theme for Meeting:

Workgroup:

Other comments:

Council Role or "Product":

- Sample collection coordination.
- If ESOCs can be analyzed from frozen samples, LAKEWATCH has samples that could be used.
- The Council should discuss progress tracking.
- Monitoring for new pesticides?

Summation: This is of moderate priority to the Council. Challenges to coordinating this effort include lack of science, statewide standards, and detection methods. This is a multi-layered topic. The Council could pursue

this by providing a forum for statewide sample collection coordination (if ESOCs can be analyzed from frozen samples, LAKEWATCH has samples that could be used), and progress tracking.

Moving Forward: Emerging Contaminants will be a theme for a future meeting. The Council will then discuss whether sample collection coordination, possible use of LAKEWATCH data, or progress tracking coordination could be potential product(s).

Continuous Monitoring:

Importance to Agency: High importance to SWFWMD. Volusia County is very interested in adding continuous monitoring to the Mosquito Lagoon (IRL). Alachua County has no funding or plan; however they are interested in technology. This is an important topic for FDEP.

Priority Ranking for Council: (5, 5, 5, 5, 5)

Contacts/ Programs/ Subject Experts: Rick Hicks (DEP Springs/Ground Water), Catherin Wolden or Granville Kinsman (SWFWMD), Paul Carlson (FWC, Virtual Buoy), Megan Weatherington (SRWMD), NOAA has program with SFWMD.

Challenges to Coordination: Standardization of Equipment Installations, Data Processing (quality assurance/quality control), capital/ maintenance costs.

Benefits to Coordination: Data sharing, real-time changes.

Considerations:

Theme for Meeting: Yes (1)

Workgroup: Need for a Workgroup (2)

Other comments:

- Could apply to agricultural water use monitoring
- This is also relevant to “Emerging Technologies”.

Council Role or “Product”: The Council should provide a forum to coordinate efforts to conduct long-term monitoring and evaluate data.

Summation: This is of high priority to the Council. “Continuous Monitoring” could be paired with “Emerging Technologies” as a theme for a future meeting. Challenges to coordinating this effort include standardization of equipment installations, data processing (quality assurance/quality control), and capital/maintenance costs. Coordinating continuous monitoring efforts statewide would increase data compatibility/sharing resulting in a reduction of duplicative monitoring. The Council should form a workgroup to discuss how to coordinate continuous monitoring efforts.

Moving Forward: “Continuous Monitoring” will be paired with “Emerging Technologies” as a theme for a future meeting. The Council will form a workgroup to discuss how to coordinate continuous monitoring efforts.

Emerging Technologies in Water Resource Monitoring/ Restoration:

Importance to Agency: This an important topic for SFWMD. This is of high importance to SWFWMD

Priority Ranking for Council: (4, 5, 5)

Contacts/ Programs/ Subject Experts: Megan Weatherington (SJRWMD, “Technology Efficiency”), Paul Budanan. “Green LiDar” (Bathymetry maps for clear water). Linda Crean, and Dave Struve (SFWMD). Dr. Al Karlin (SFWMD, LiDAR).

Challenges to Coordination: cost for testing, and data quality and comparability.

Benefits to Coordination:

Considerations:

Theme for Meeting: Yes (1). This could be combined with the Continuous Monitoring topic. Good theme for a future meeting, it is important to share this information.

Workgroup:

Other comments:

Council Role or "Product": The Council could serve as a forum for all to contribute historical Landsat aerial photos to create a web-based library (Landsat Multi Special Photo of parts, rivers, and bays).

Summation: This is of high priority to the Council. "Emerging Technologies" could be combined with the "Continuous Monitoring" topic as a theme for a future meeting. Current challenges to coordination include cost for testing, and data quality/comparability. The Council should serve as a forum to share information for a statewide perspective of emerging technologies as they relate to other topics of interest.

Moving Forward: "Emerging Technologies" will be combined with the "Continuous Monitoring" topic as a theme for a future meeting. The Council's role will be to serve as a forum to share information for a statewide perspective of emerging technologies as they relate to different aspects of monitoring. The Council could serve as a forum for all to contribute historical Landsat aerial photos to create a web-based library.

Monitoring Coordination (Coastal and Freshwater):

Importance to Agency:

Priority Ranking for Council: (5)

Contacts/ Programs/ Subject Experts:

Challenges to Coordination: equipment testing, standardization, elimination of duplication, identification of best standards, differing data quality.

Benefits to Coordination: cost savings, shared knowledge/implementation assistance.

Considerations:

Theme for Meeting: This would be a good theme for a future meeting, and should update monitoring coordination and updates on monitoring programs to discuss DQOs. This topic is related to continuous monitoring.

Workgroup: May warrant forming a workgroup (1)

Other comments: Water-CAT – in one year should re-visit overlap and coordination.

Council Role or "Product":

Summation: This is of high priority to the Council. Challenges to Monitoring Coordination include equipment testing, standardization, elimination of duplication, identification of best standards, and differing data quality. This would be a good theme for a future meeting, and should include updates on monitoring coordination efforts to discuss DQOs. This topic may warrant forming a workgroup to explore current and possible future coordination among monitoring entities.

Moving Forward: Monitoring Coordination will be theme for a future meeting, and should include updates on monitoring coordination efforts to discuss Data Quality Objectives. A workgroup should be formed to explore current and future coordination among monitoring entities.

Non-Native Vegetation (Monitoring and Management):

Importance to Agency: This is of high importance to FWC. Considerable interest in this area for Alachua County large lakes for native and non-native vegetation.

Priority Ranking for Council: (5)

Contacts/ Programs/ Subject Experts: Bill Caton (head of Invasive Plants, FWC), Allyn Childress (South Florida Ecosystem Restoration Task Force), Ryan Hamm (FWC) and SJRWMD staff. SWFWMD has a great vegetation management program.

Challenges to Coordination:

Benefits to Coordination:

Considerations: Non-native vegetation relative to springs.

Theme for Meeting: Yes.

Workgroup:

Other comments: FWC needs to be involved. New Hydrilla Policy provides new challenges (Sonar [™] Resistant).

Council Role or "Product": Council should consider a biological database as a possible product

Summation: This is a high priority for the Council. This would be a good theme for a future meeting. The Council should consider a biological database as a possible product- if one does not already exist.

Moving Forward: Non-native Vegetation Monitoring and Management will be a theme for a future meeting. The Council should consider a biological database as a possible product, if one does not already exist.

Sea Level Rise/Climate Change:

Importance to Agency: Very important to SJRWMD, DOH- New diseases being introduced because of climate change.

Priority Ranking for Council: (3,3,3,3-5, 5)

Contacts/ Programs/ Subject Experts: Andrea Alden (FWC has an internal Climate Change Seminar Series), Federal Partner expertise. Kelly Samek's replacement (DEP). Bob Vinstein, SJRWMD

Challenges to Coordination: standardized practices/assumptions, and determining the role of the Council. May depend on election year (political climate), rapidity of change.

Benefits to Coordination: Benefits to coastal communities.

Considerations: Climate change differs from SLR and includes drought, demands on water resources, etc. Ground water levels/ conductivity (Cl-, TDS, etc.). This is a multi-layered topic.

DOH- New diseases being introduced because of climate change.

Theme for Meeting: Good theme for future meeting.

Workgroup: The Council could form a workgroup to communicate regional strategies.

Council "Product": A bibliography could be a product for the Council. Sarasota Bay may have a good start.

Other comments: Need to coordinate first by efforts/models currently in place, and bring those involved in for suggestions. Tampa- What standards to use (height?) would drive next steps.

Summation: This is a moderate-high priority. Challenges to coordinating monitoring related to Sea Level Rise and Climate Change include lack of standardized practices/assumptions, political climate, and determining the role of the Council. This would make a good theme for a future meeting, however there should be a distinction

between sea level rise and climate change, as they have different considerations and are both multi-layered topics. Climate change differs from sea level rise and includes considerations regarding drought, and demands on water resources. Sea Level Rise could be explored to include impacts on ground water levels, and trends in water quality parameters (conductivity, Cl-, TDS, etc.). DOH is particularly interested in diseases being introduced because of climate change. The Council could form a workgroup to communicate regional strategies, and a bibliography could be a product for the Council (Sarasota Bay may have a good start).

Moving Forward: Sea Level Rise and Climate Change will be separate themes at a future meeting, as they have different considerations. The Council may then form a workgroup to communicate regional strategies, and discuss a bibliography as a potential product.

Water Quality Restoration Efforts:

Importance to Agency: High importance to FWC, primarily in regard to seagrass restoration. Very important to SFWMD, but may not be a high priority for the Council.

Priority Ranking for Council: Good theme for meeting (information sharing), but not for Council to tackle.

Contacts/ Programs/ Subject Experts: Contact Paul Carlson (FWC), Holly Greening (TBEP).

Challenges to Coordination: project assurances, costs, operations and maintenance in the long term, politics, multi-layered topic.

Benefits to Coordination: Need to monitor restoration impacts.

Considerations: Good topic for springs, and important to share information among agencies.

Volusia County: Removal of septic systems as a water quality restoration effort.

Theme for Meeting: Good theme for a future meeting.

Workgroup:

Other comments:

Council Role or "Product":

Summation: This is a good theme for meeting (information sharing), but not for Council to tackle. Challenges to coordinating water quality restoration efforts include project assurances, cost for operations and maintenance in the long term, politics. This is a multi-layered topic. This is a good theme for a future meeting, and should include discussion on restoration efforts in springs, and removal of septic systems as a water quality restoration effort.

Moving Forward: Water Quality Restoration Efforts will be a theme for a future meeting, and will include discussion on restoration efforts in springs, and removal of septic systems.

Statewide Trends:

Importance to Agency: SFWMD is already being inundated for priority waterbodies. FWC can offer plant trend assistance for lakes.

Priority Ranking for Council: (2,4,4,5,5)

Contacts/ Programs/ Subject Experts: Jay Silvanima, Gary Maddox, Kim Jackson, Rick Copeland, Ray Leary, Chris Sedlacek.

Challenges to Coordination: coordinating statewide, assuring quality data across the state, and cost/funding.

Benefits to Coordination: Benefits are unquestionable, new findings in statewide trends.

Considerations: Multi-Layered topic.

Theme for Meeting: Good theme for future meeting.

Workgroup: Need more discussion regarding topic and purpose. Establish a workgroup to discuss and form objectives Mark Hoyer will chair.

Other comments:

Council Role or “Product”: The Council could serve to coordinate and contribute data.

Summation: This is a moderate-high priority. The Council could serve as a forum to coordinate and contribute data. A workgroup should be formed to discuss and form data objectives, and will be chaired by Mark Hoyer.

Moving Forward: Statewide Trends will be a theme at a future meeting. Mark Hoyer will chair a workgroup to discuss and form data objectives.

OTHER: The following topics were identified during the meeting:

Hydstra Cloud- Data Sharing:

Importance to Agency:

Priority Ranking for Council:

Contacts/ Programs/ Subject Experts: Tom Mirti (SJRWMD), Megan Weatherington (SJRWMD), Jay Silvanima (DEP),

Challenges to Coordination: cost, funding (\$78,000?), overlapping program direction, and need for data restructure.

Benefits to Coordination: Determining a common location and format for water management districts.

Considerations: Multi-layered topic.

Theme for Meeting: Good theme for future meeting.

Workgroup: This could be a topic for an exploratory workgroup

Other comments: Would serve as a quasi-data catalog- Point users to original source of data, and statistics behind scheme.

Summation: No priority was established for this topic. This is a good theme for a future meeting, and could warrant forming an exploratory workgroup. A potential future “product” could be developed by utilizing the Council as a forum to contribute to a data sharing platform such as Hydstra; resulting in a quasi-metadata catalog (which will direct users to the original source of data, and statistics behind scheme).

Moving Forward: Data sharing will be a theme for a future meeting, and subsequent discussion could warrant forming an exploratory workgroup. A potential future “product” could be developed by utilizing the Council as a forum to contribute to a data sharing platform such as Hydstra.

RESTORE Project Coordination:

Importance to Agency:

Priority Ranking for Council: (5)

Contacts/ Programs/ Subject Experts:

Challenges to Coordination:

Benefits to Coordination:

Considerations:

Theme for Meeting:

Workgroup:

Other comments:

Council Role or “Product”: Council could develop statewide or regional projects.

Summation: This is a high priority. The Council could develop statewide or regional projects for RESTORE

Moving Forward: The Council could serve as a forum for exploratory informational discussion on RESTORE projects.

Senate Bill 536:

Importance to Agency:

Priority Ranking for Council:

Contacts/ Programs/ Subject Experts:

Challenges to Coordination:

Benefits to Coordination:

Considerations:

Theme for Meeting:

Workgroup:

Other comments:

Council Role or “Product”: Compilation of results from statewide meetings.

Summation: No priority was established for this topic. The Council could share results from statewide meetings.

Moving Forward: Senate Bill 536 may be a topic of discussion at a future meeting or interim teleconference update. The Council could compile results from statewide meetings.

Laboratory Certification:

Importance to Agency:

Priority Ranking for Council:

Contacts/ Programs/ Subject Experts:

Challenges to Coordination: costs, privatization, unknown process.

Benefits to Coordination:

Considerations:

Theme for Meeting:

Workgroup:

Other comments:

Council Role or “Product”: Council could provide “lessons learned” as a product.

Summation: No priority was established for this topic. Challenges to coordinating standardized laboratory certification include costs, privatization, and unknown process. The Council could discuss and compile a document of “lessons learned”.

Moving Forward: Laboratory Certification may be a topic of discussion at a future meeting or interim teleconference update. The Council will discuss whether compiling “Lessons Learned” into a document could be a potential product.