From: Sean Lahav [mailto:slahav@nefrc.org]
Sent: Monday, August 17, 2020 11:51 AM
To: Clements, Jeff; Brooks Andrews; DeFoor, Randle
Cc: Payne, Elizabeth
Subject: Duval County Shoreline Structure Data

Greetings Jeff, for purposes of meeting the requirements of Sunshine Law, please forward the message below to the Environmental Planning Subcommittee. I provided specifics on names because this item was discussed during a working group breakout session.

ATTN: Steve Swann, Quinton White, Todd Sack, Guillermo Simon, Joshua Rosenberg

RE: Duval County Shoreline Structure Data

Greetings Environmental Planning Subcommittee Members,

During the last environmental planning meeting, a specific discussion unfolded during the breakout session for the sea level rise working group. One of the items that I mentioned was existing shoreline structure data that was housed by the U.S. Army Corps of Engineers (USACE).

I reached out to USACE for clarification on this dataset, and was told that it is not available to the public at this time. Despite this, however, the data will be highlighted in the upcoming Northeast Florida stakeholder workshop for the South Atlantic Coastal Study (SACS).

In the future, once the study is complete, this data will become available online. Layers, depicted in the attached image, might be of value to local planning efforts; especially when it comes to identifying site locations for the implementation of green infrastructure projects. I wanted to follow up and make each of you aware.

Best Regards,

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From: Webber, Kip E CIV (USA) <Kip.E.Webber@usace.army.mil>
Sent: Monday, August 17, 2020 11:12 AM
To: Sean Lahav <slahav@nefrc.org>; Fountain, Ashleigh H CIV USARMY CESAJ (USA) <Ashleigh.H.Fountain@usace.army.mil>

Hi Sean,

I can certainly provide an overview of the shoreline data that the data layer will consist of. The shoreline analysis is a component of the Measures & Cost Library (MCL). The MCL considers shoreline type because it is a component of system performance, and to determine which measures are viable for each shoreline type. Shoreline types used for the MCL are based on the NOAA ESI guidelines and polyline shape feature data. Criteria used to characterize the shoreline included the shoreline setting, degree of exposure to wave and tidal energy, substrate composition, substrate permeability, slope, the presence of wetlands, development, coastal armor and shoreline stabilization structures.

For the purposes of SACS, shorelines were broken down into 10 generalized shoreline types (attached is a screenshot of these 10 shoreline types used for CONUS). High and mixed energy shorelines were classified as "exposed" shorelines while low energy shorelines were described as "sheltered". Measure applicability by shoreline type was assigned to align risk reduction philosophies and measures with the appropriate shoreline conditions. For example, living shoreline applicability is most suitable for sheltered environments such as sheltered rocky shorelines and sheltered wetlands, marshes, and swamps. These measures will also have rough order of magnitude (ROM) costs per unit that can be useful to screen applicable measures for feasibility.

Hope this helps. Let me know if you have additional questions.

Best Regards,

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