

Tracking NPDES MS4 Compliance with ArcGIS Dashboards

The Pasco County Board of County Commissioners Public Works department is responsible for overseeing the NPDES permit program. This program aims to limit the discharge of pollutants into waters of the United States. To maintain compliance with issued permits for Municipal Separate Storm Sewer Systems, permittees are required to submit reports documenting the inspection and assessment of the assets in their program. Internal tracking of compliance was initially done through manual querying of assessment data each quarter. This process was improved by modifying and incorporating the use of existing GIS data to populate a dashboard with the most recent assessment data for assets within our scope of maintenance responsibility, providing a quick snapshot into the current level of compliance being maintained. Use of this dashboard within our department has increased reporting accuracy through direct database connections and intuitive user interfacing, providing further clarity into assessment priorities throughout the duration of the permit.

Bio:

A Florida native with proud claims to a Bachelor's in Environmental Studies from UCF and a Master's in Forest Resources and Conservation from UF with GIS certificates from both programs as well. I have a strong passion for the environment sprouting from summers spent working on a farm in the driftless region of Wisconsin that has led along my academic journey and to my current role within the Pasco County Public Works department.

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