Gitahatro teales of traterhead tradety Assessment project Maribeth Gidley (UM), Brian Howes (UMass), Piero Gardinali (FIU), Khandker Ishtiaq (FIU), Chris Kelble (NOAA), Elizabeth Kelly (Miami Waterkeeper), Roland Samimy, (Village of Key Biscayne-U Mass), Chris Sinigalliano (UM), Rachel Silverstein (Miami Waterkeeper)

Habitat Conditions in the Coral Gables Waterway to Inform Management and

Restoration

Task 1) Design and implement a water quality monitoring program to understand nutrient loading impacts on water quality in the Coral Gables Waterway and Tributary Canals, including stormwater outfalls

Task 2) Characterize the Nutrient Loads into and from Watershed

 Task 3) Undertake field data collection at select critical junctures of the waterway system for tidal stage and velocity measurements to inform model development
Task 4) Develop Education and Outreach Materials and

Extensive sampli

- 15 stations, ebb tide
- Monthly dry season (EXO²
- Biweekly wet season (June Oct w/ 3 after significant rain events)

Sonde

Gr

- Grab samples (nutrients, salinity, chlorophyll, E. coli, Enterococci and qPCR microbial source tracking assays) and sonde (DO, temp ~H Nalinity) measurements at all s Swet & 2 dry also Wimetals, B Sonde
- 1) TSB 80 portastite avvertetis statoered 8x5 Stopping ter twpf & 10 portage at 8 por locations

2) got mit of the set sedimentations 2 from NOAA and 1 from



OUTCOMES & Benefits to the

- Provides a guide to municipal managers for the costeffective management of nutrient sources in the watershed to improve water quality in the canal system and the quality of the discharge to Biscayne Bay, by identifying which portions of the watershed are contributing the most load from different land use types and explore the potential contribution of associated septic systems
- Assists the City of Coral Gables with watershed nutrient





Collaboration with FIU cres (center for aquatic chemistry and environment



