Using CAST for Implementation Planning and Decision Making

Devereux Consulting

Data ✫ Research ✫ Analysis ✫ Strategy
Stormwater Treatment Goals

• Achieve your MS4 permit obligations

• Meet the Chesapeake Bay TMDL requirements

• Determine what actions achieve local TMDLs

• Learn what is in the Bay Model for your community
Use CAST to help document meeting permit requirements

Implementation Strategy

• Develop a plan that meets water quality permit requirements

Watershed Restoration

• Retrofit 20% of impervious surfaces not currently controlled to the maximum extent practicable (MEP)
Permitted vs. “Voluntary” BMPs

BMPs can be assigned to a MS4 area. The different options are:

- MS4 Buildings and Other
- MS4 Roads
- MS4 Tree Canopy over Impervious
- MS4 Tree Canopy over Turf Grass
- MS4 Turf Grass

- Non-Regulated Buildings and Other
- Non-Regulated Roads
- Non-Regulated Tree Canopy over Impervious
- Non-Regulated Tree Canopy over Turf Grass
- Non-Regulated Turf Grass

- CSS Buildings and Other
- CSS Roads
- CSS Tree Canopy over Impervious
- CSS Tree Canopy over Turf Grass
- CSS Turf Grass

- CSS Construction
- Regulated Construction
Use CAST output to help document meeting permit requirements

Report and Monitor

- Submit annual report on BMP implementation progress
Use CAST output to help document meeting permit requirements

Report and Monitor

- Submit annual report on water quality progress
Typical Questions Answered with CAST

- What is the current land use and land cover in my community and where can I quickly access these data?

- How do I find out how my pollutant loads and land uses are projected to change for various 2025 development scenarios for my community?

- Which BMPs are currently in the Model for my community?

- How can I estimate which of those BMPs were implemented as part of my MS4 permit?

- Which BMPs are most cost-effective?