

## **Unified Water Planning Basemap Enables...**

### **Better Science/New Science**

- Comprehensive and unified model of PA surface water for continuous monitoring of quality, quantity, and flood risk at small and large watershed scales.
- Crowd-sourced monitoring
- Portable and/or temporary monitoring system integration
- Modeling for small watershed monitoring system design
- Better model differentiation between rural, suburban, and urban environments
- Monitoring and modeling at better temporal and spatial resolutions

### **Better Government**

- Tool and reasons for communications among all agencies from federal, state, regional, and local governments
- Program consolidation within DEP and among related federally-funded programs
- Science-based allocation of resources rather than politically-driven allocation
- Stormwater authorities with fees based on realistic stormwater contribution per landowner
- Potential for unified state interaction with federal agency staff and programs, in an era when federal guidance and science are more likely products than federal money to accomplish tasks

### **Public Safety**

- Constant and consistent vision and enforcement of flood prevention and awareness at local governments.
- Modeling of flood surges in watersheds of any size
- Improved potential for hazard mitigation buyouts and vacation of floodplains
- Reduced flood risk and disaster response costs

### **Water Quality**

- Identification of failed or substandard stormwater control measures (SCM)
- Increased reliance on SCM designed around natural beneficial functions
- Enforcement and maintenance of modern PCSM requirements