

# Evaluating Proprietary BMPs

March 24, 2015

## Session 1: Setting the Stage on MTD's



# Center for Watershed Protection

- Non-profit 501(c)3, non-advocacy organization founded in 1992
- Work with watershed groups, local, state and federal governments
- Provide tools to communities to protect lakes, rivers, streams, and estuaries
- 20 staff in Ellicott City, MD; Field Offices in Charlottesville, Richmond, & Leesburg, VA; & Ithaca, NY; and Philadelphia, PA

[www.cwp.org](http://www.cwp.org)



# Setting the Stage:

- What's the Problem?



# Setting the Stage

- What's the problem?

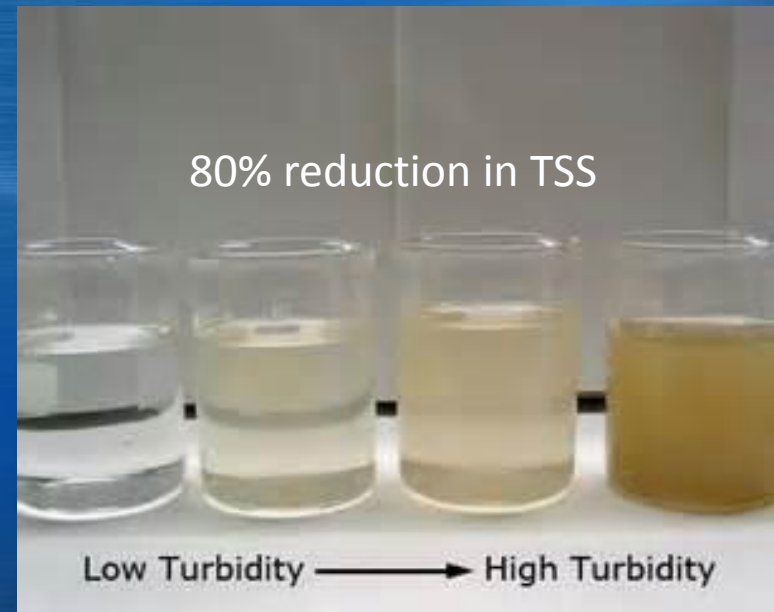
The rise of the machines vs. the traditional BMP !



# Setting the Stage

Do we need MTD's?

## 1. BMP Performance and Water Quality



Treatment Objectives & Performance Goals

# Setting the Stage:

## 1. BMP Performance and Water Quality



Treatment Objectives & Performance Goals

# Setting the Stage:

## 1. BMP Performance and Water Quality



# Setting the Stage:

## 2. Innovation

### New development trends & Green Infrastructure



# Setting the Stage:

## 2. Innovation



# Setting the Stage:

## 2. Innovation



# Setting the Stage:

## 2. Innovation

Unit processes of pollutant removal and stormwater treatment engineered into a smaller package



# Setting the Stage:

## 3. Economics



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### Research & Development



# Setting the Stage:

## 3. Economics

## Research & Development



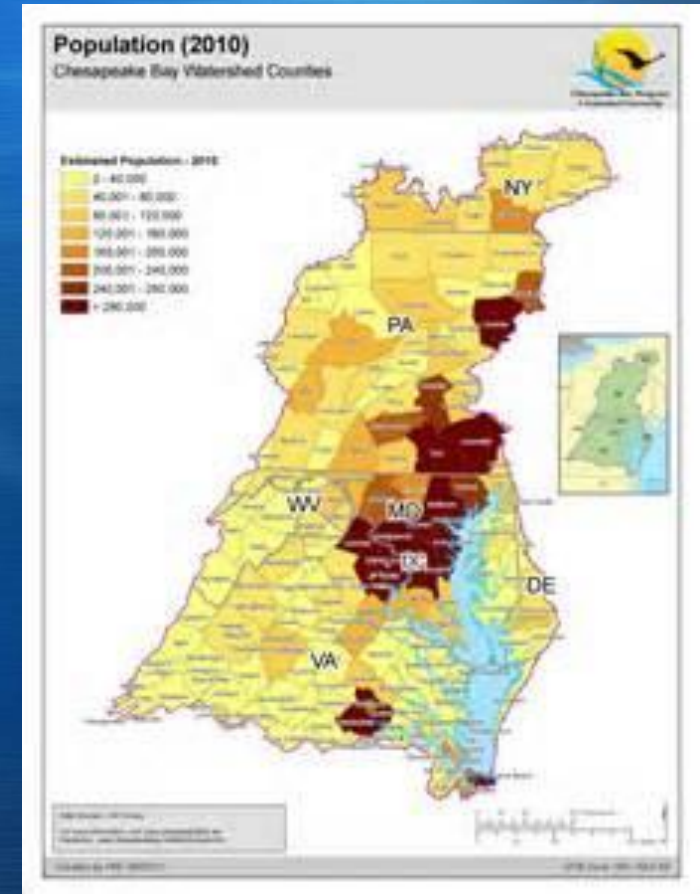
[stormwater.ucf.edu](http://stormwater.ucf.edu)

# Setting the Stage:

## 3. Economics

MS4 jurisdictions must meet aggressive retrofit goals while also achieving/incentivizing:

- ✓ Regulatory compliance
- ✓ Capital investments
- ✓ Stormwater fee relief



# Setting the Stage

Do we need MTDs?

1. It's all about Water Quality!



# Setting the Stage:

Do we need MTDs?

## 2. Innovation



[www.emag.suez-environnement.com/en/stormwater-treatment-plant-at-toulouse-blagnac-airport](http://www.emag.suez-environnement.com/en/stormwater-treatment-plant-at-toulouse-blagnac-airport)

# Setting the Stage:

Do we need MTDs?

## 3. Economics



# Setting the Stage:

So what's the problem?

- ✓ Need reliable performance credentials;
- ✓ Need product specific applicability and sizing rules; and
- ✓ Need the industry to embrace the economic opportunity and genuinely support a '*level playing field*'

