



**Cecil County  
Department of Public Works**

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**Information Briefing:  
Water and Sewer Strategic Initiatives  
Update**



**Presented by:**

**W. Scott Flanigan, P.E.  
Director of Public Works  
Cecil County Government**

**March 26, 2008**



**Cecil County  
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## **Purpose**

**To provide members of the Cecil Land Use Alliance an update on strategic water & sewer initiatives being undertaken by the Cecil County Department of Public Works in order to:**

- Increase your understanding of current County efforts to provide water & sewer infrastructure to support the County's strategic objectives**
- Further our strategic goal of increasing public awareness of and support for public works services and initiatives**



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## **Agenda**

- **DPW Mission**
- **DPW Vision**
- **DPW Organization**
- **DPW Hot Topics**
- **Current County Water & Sewer Service**
- **Strategic Water & Sewer Initiatives**
- **Other Items of Interest**
- **Conclusions**
- **Questions**



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## **Our Mission**

**The Cecil County Department of Public Works contributes to the health, safety, economic well-being, and quality of life of the citizens of Cecil County by providing a full range of public works products and services in the areas of roads, bridges, water, wastewater, stormwater management, development management, and solid waste management.**



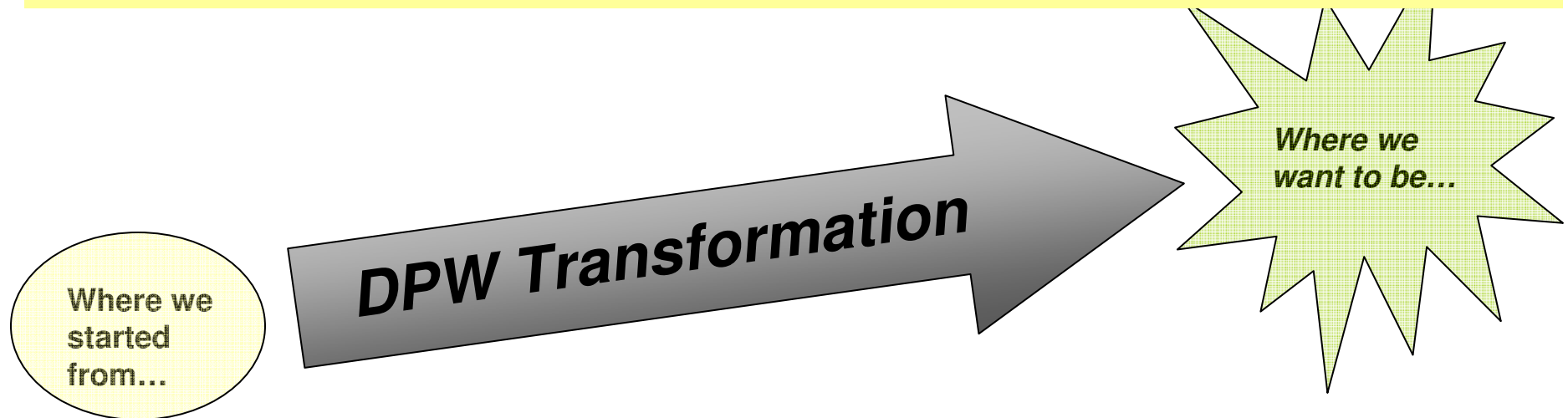
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## **Our Vision**

**The premier rural county public works department in the State of Maryland, delivering innovative and effective solutions to Cecil County's public works challenges:**

- **Stewards of the environment**
- **Focused on quality customer service**
- **The engineering, construction, and public works employer of choice**
- **Helping deliver good government to the citizens of Cecil County**



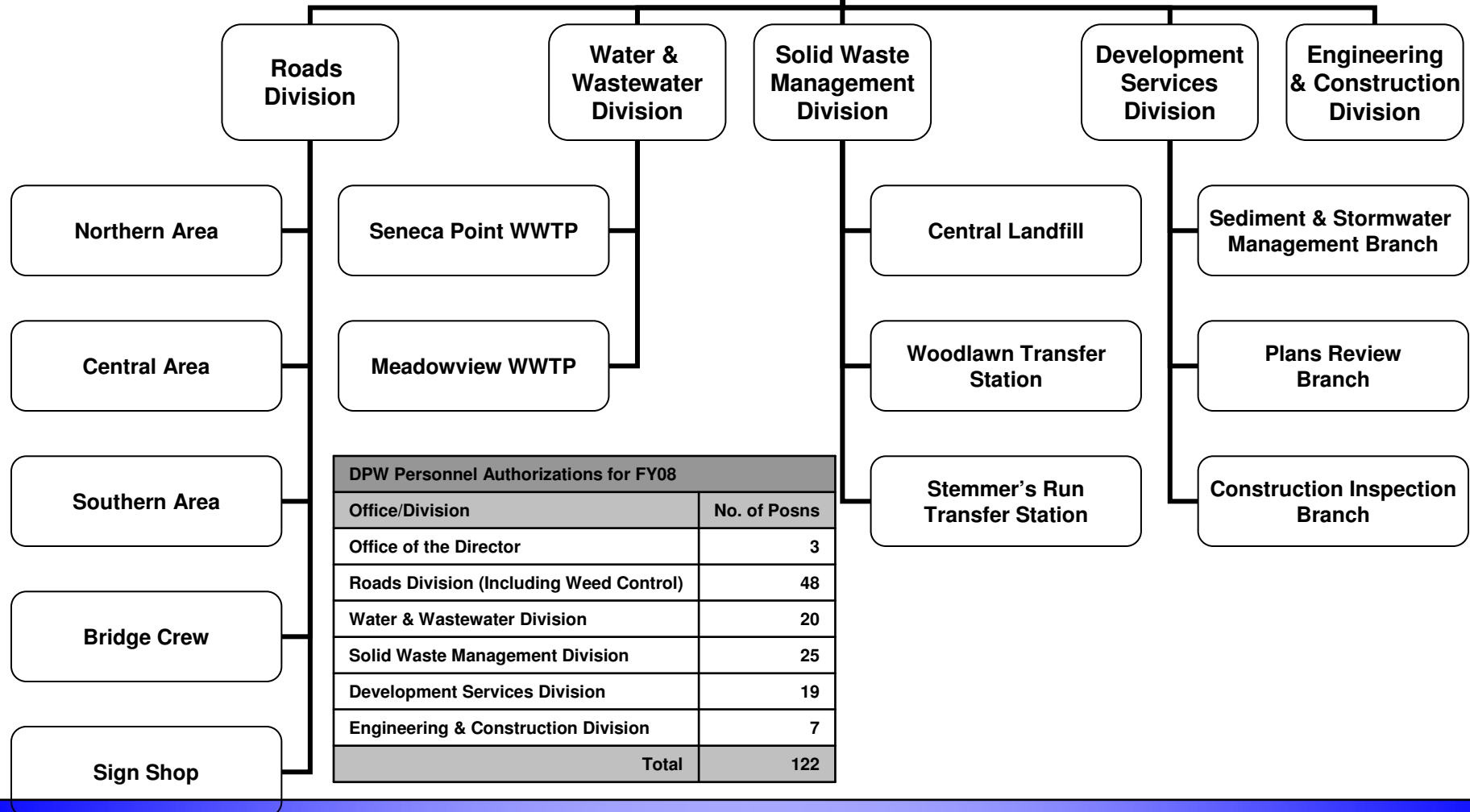


# Cecil County Department of Public Works

## DPW Organization

Office of the  
Director of  
Public Works

Director of Public Works = Scott Flanigan, P.E.  
Deputy Director of Public Works = Dave Hollenbaugh  
Administrative Assistant = Lydia Gambill

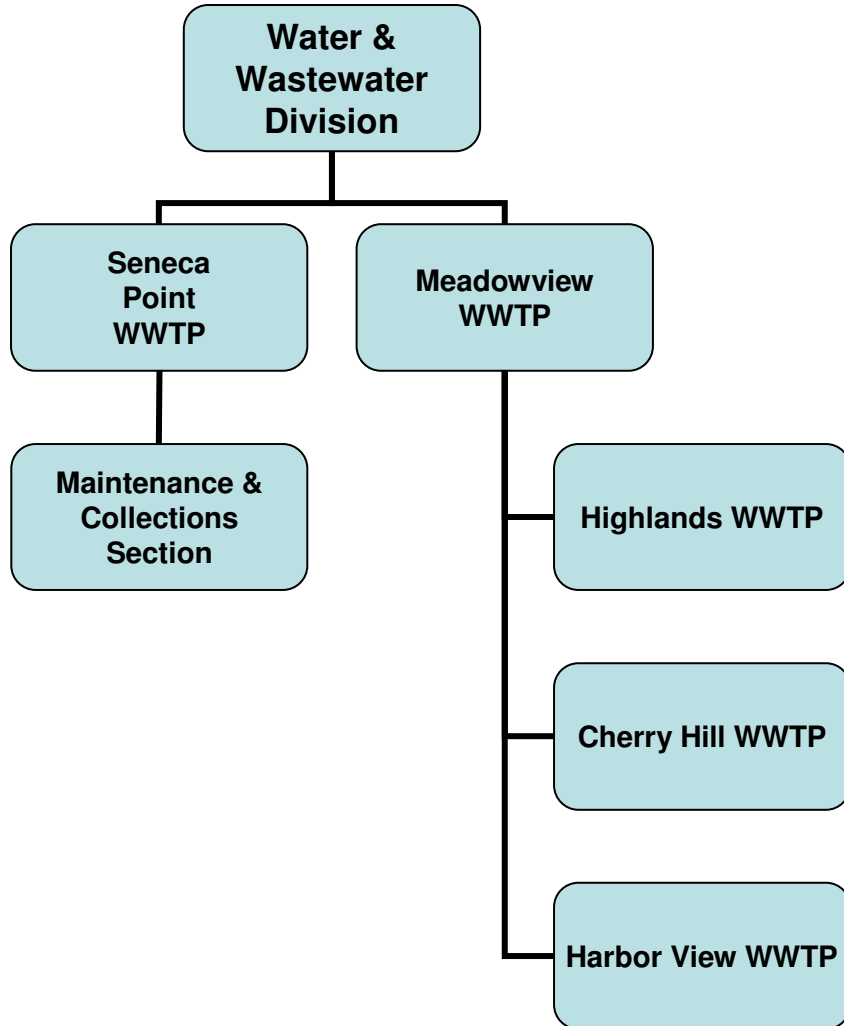


DPW Personnel Authorizations for FY08	
Office/Division	No. of Posns
Office of the Director	3
Roads Division (Including Weed Control)	48
Water & Wastewater Division	20
Solid Waste Management Division	25
Development Services Division	19
Engineering & Construction Division	7
<b>Total</b>	<b>122</b>



# Cecil County Department of Public Works

## Water & Wastewater Division



- **Core Competencies**

- Operate & maintain water treatment plants
- Operate & maintain water distribution systems
- Operate & maintain wastewater collection systems
- Operate & maintain wastewater treatment facilities
- Operate & maintain septage receiving facility
- Provide water & wastewater operations services to CCPS

Division Chief = Jeff Coale



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## DPW Hot Topics

### *“The DPW Top 5 Issues of 2008”*

- **Strategic Water & Sewer Initiatives**
- **Condition of Bridges**
- **Landfill Capacity**
- **Harbor View Water System Contamination**
- **Maintenance of Stormwater Management Facilities**





# Cecil County Department of Public Works

ASCE 2005 Report Card for America's Infrastructure	
Category	Grade
Aviation	D+
Bridges	C
Dams	D+
Drinking Water	D-
Energy	D
Hazardous Waste	D
Navigable Waterways	D-
Public Parks & Recreation	C-
Rail	C-
Roads	D
Schools	D
Security	I
Solid Waste	C+
Transit	D+
Wastewater	D-
America's Infrastructure GPA	D

## Infrastructure: A National Crisis

- Deteriorating infrastructure is a national problem
- No separate report card available for Maryland

### • Failing infrastructure jeopardizes:

- Safety
- Economic well-being
- Quality of life

Grade Definitions
A = Exceptional
B = Good
C = Mediocre
D = Poor
F = Failing
I = Incomplete





## Cecil County Department of Public Works

- **County water systems**

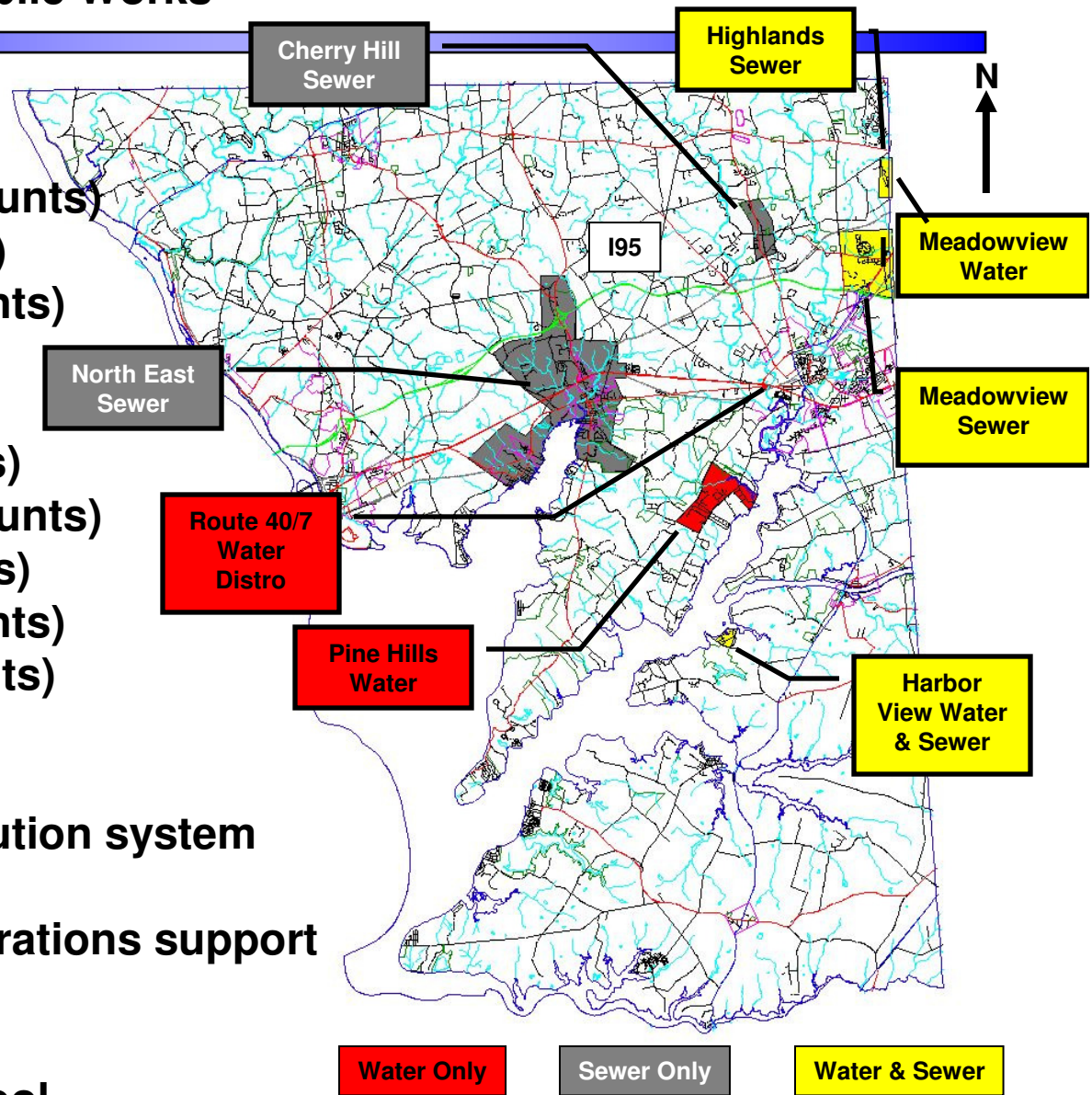
- Meadowview (1120 accounts)
- Pine Hills (440 accounts)
- Harbor View (110 accounts)

- **County sewer service areas**

- Highlands (120 accounts)
- Meadowview (1000 accounts)
- Cherry Hill (200 accounts)
- Harbor View (110 accounts)
- North East (2500 accounts)

- **Other**

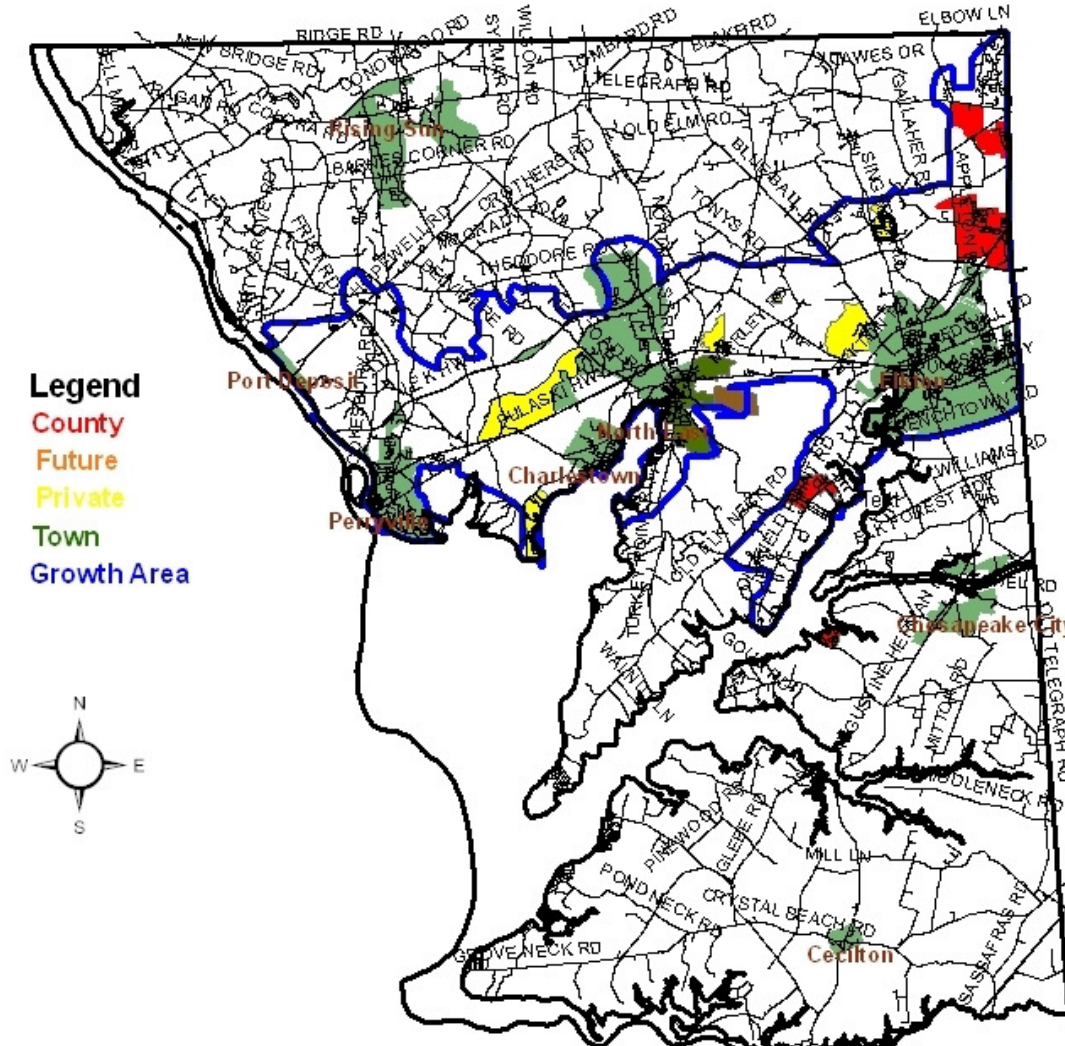
- Route 40/7 water distribution system (18 accounts)
- Water & wastewater operations support to CCPS
  - Water = 9 schools
  - Wastewater = 1 school





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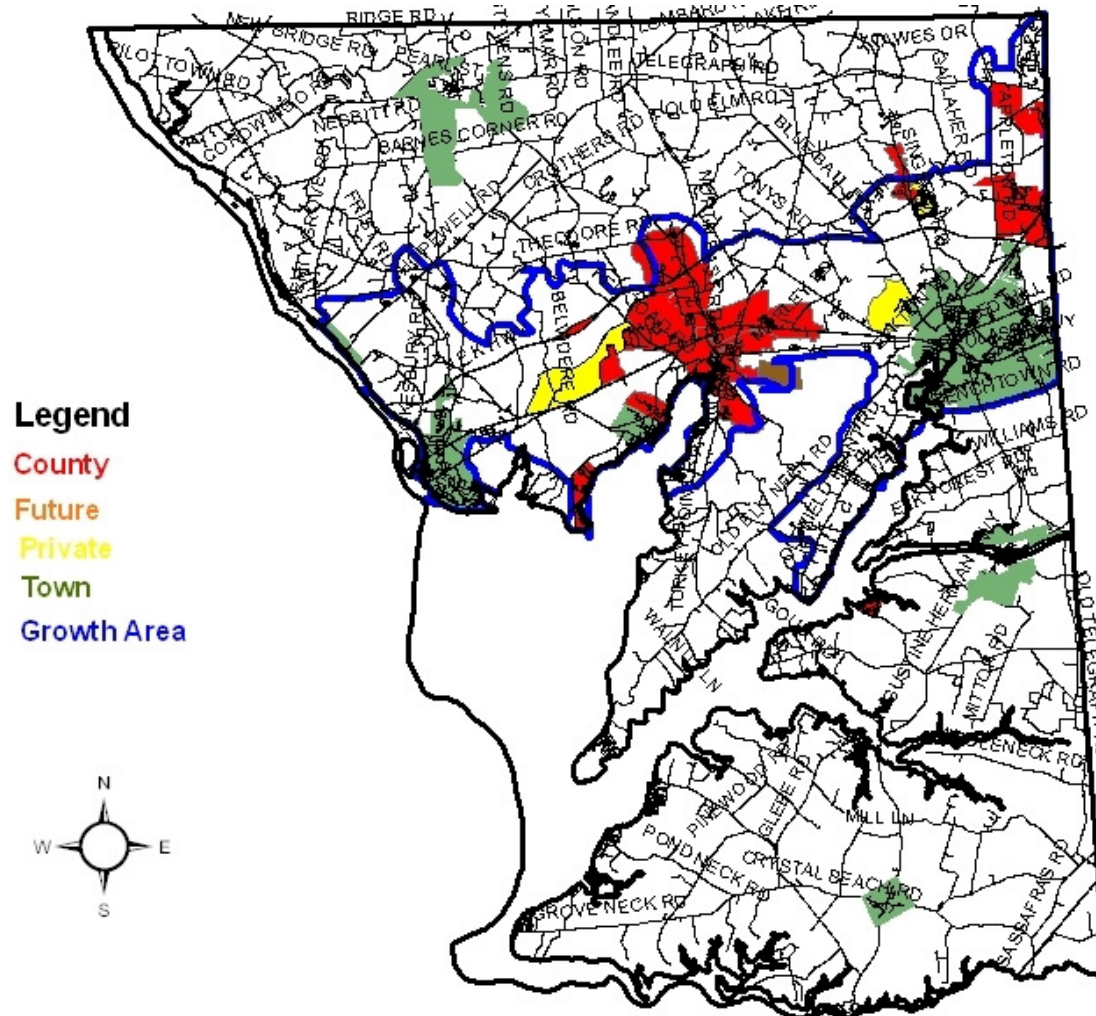
## Water Service in the Designated Growth Area





# Cecil County Department of Public Works

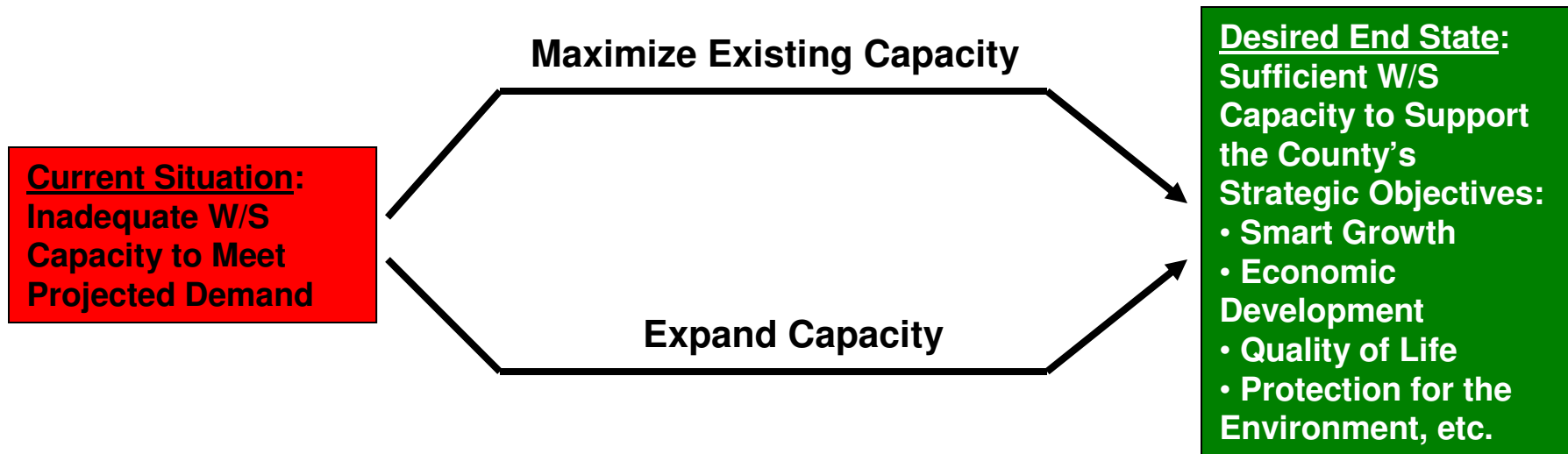
## Sewer Service in the Designated Growth Area



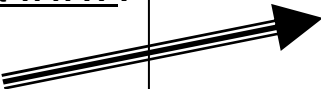


# Cecil County Department of Public Works

## Our Strategy



**Current Treatment Plant Capacity Remaining at Seneca Point WWTP:**  
Residential = 371,542 gpd = 1688 ELU's  
Commercial/Industrial = 92,240 gpd = 419 ELU's  
(As of 3:00PM 2/26/08)



**At present, about 75% of Seneca Point WWTP's capacity is "committed".**

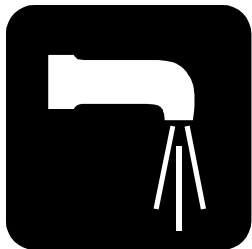


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**Water**

**Maximize Existing Capacity**

- Leak detection program
- Conservation measures
- Maintain the infrastructure



**Expand Capacity**

- Obtain additional groundwater sources on the Elk Neck Peninsula
- Explore possibility of joint Town of Elkton/County water plant
- Elkton West Water/Sewer Service Franchise Agreement
- Further develop Meadowview water supply
- Expand water distro systems
  - Vicinity Routes 7 & 40



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**Sewer**

**Maximize Existing Capacity**

- **Reduce Infiltration & Inflow (I&I) into the system**
- **Tighten management of sewer allocations**
  - “Harvest back” unused sewer allocations
  - Tie allocations to construction phasing plans
- **Investigate effluent reuse options**



**Expand Capacity**

- **Expand Seneca Point WWTP**
- **Earn credits needed to expand Seneca Point WWTP**
  - Carpenters Point Sewer
  - Replace Harbor View WWTP
- **Remove existing system bottlenecks**
  - Route 40 Pump Station
- **Extend Rte 40 sewer interceptor**
- **Elkton West Water/Sewer Service Franchise Agreement**
- **Expand Meadowview WWTP**



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## In Other News...

- **Projected 2007 Cecil County Recycling Rate = 56%**

**This is up from 17% in 2005!**

- **Upcoming Solid Waste Management Division Events:**

- **Saturday, April 19, 2008      Household Hazardous Waste (HHW) Day**
- **Saturday, May 17, 2008      MDE/MES/SWMD Tire Day**



## Conclusions

- **As a nation, state, and county, we're in the midst of an "infrastructure crisis"**
- **We're not going to be able to make up for "decades of inaction & underinvestment" all at once**
  - **It's going to take some time...**
    - **Lots of hard work...**
      - **Tough decisions...**
        - **and \$\$\$!**



**DPW 2009 – 2013 CIP Budget Request (in \$000):**

<u>Program</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>
Water	\$ 1,150	\$ 1,000	\$ 2,000	\$ 0	\$ 0
Wastewater	\$ 20,200	\$ 30,433	\$ 8,550	\$ 2,000	\$ 450

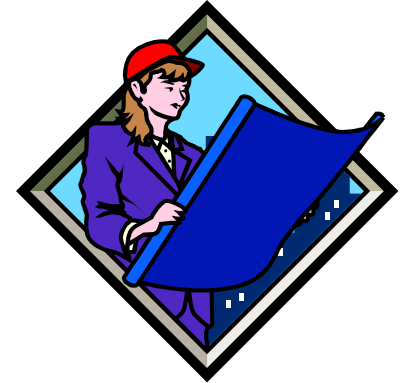


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**Conclusions (Continued)**

- **The news is not all bad...**
- **The BOCC seems determined to act...**
- **DPW is “organized for success” ...**
  - **The Maryland Department of the Environment (MDE) says it’s willing to help us develop solutions... and**
  - **There’s nothing like a crisis to spur people and organizations to action!**



***In the public works business, people are our most important resource!***



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**Questions?**



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**Thank You!**