



**Washington Suburban
Sanitary Commission**

**Presentation to the
Montgomery County
Department of Environmental Protection
Water Quality Advisory Group**

Consent Decree Projects in Montgomery County

October 21, 2013

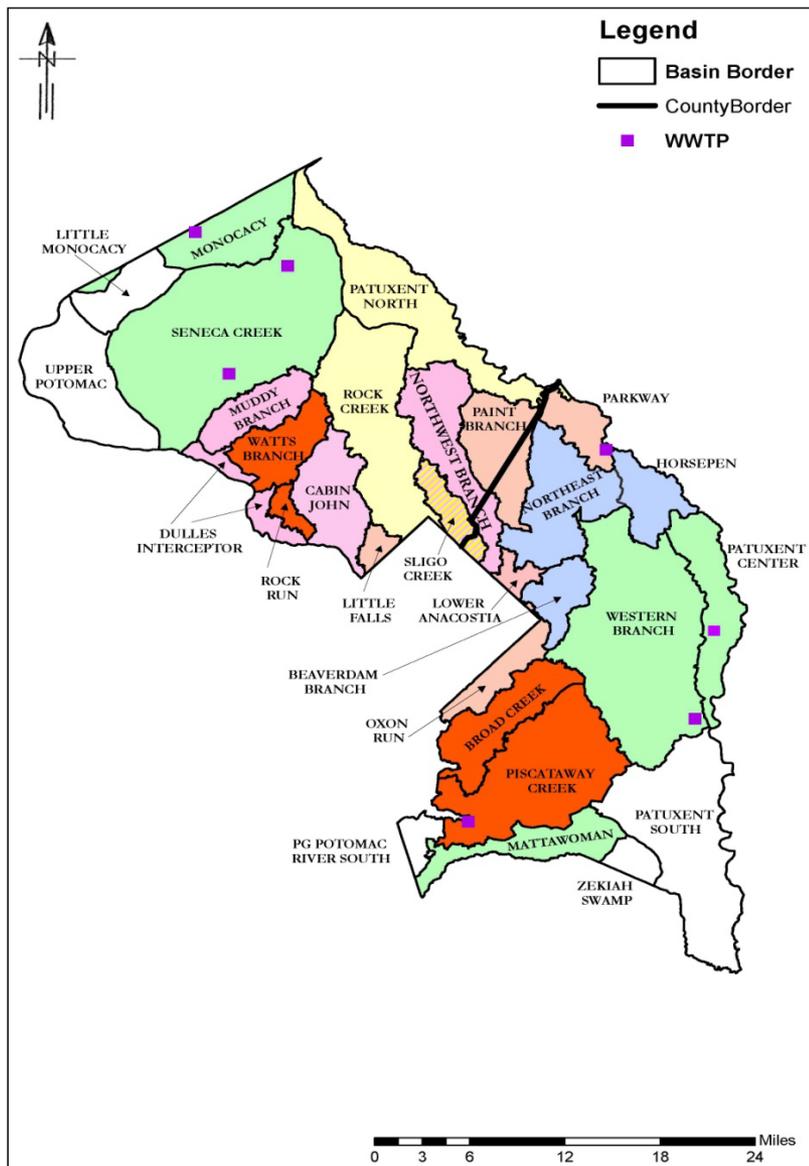
Discussion Points

- *Sewer Repair, Rehabilitation & Replacement (SR³) Program Overview*
- *Basins in Montgomery County*
- *Consent Decree Project Overview*
 - *Lateral Contracts*
 - *Roads Contracts*
 - *ESA Contracts*
- *Expectations During Construction Activities*
- *Questions*

SR³ Program Overview

- Background
 - Federal Consent Decree between the United States, the State of Maryland, Citizen Groups and WSSC
 - Priority 1 Assets must be completed by December 7, 2015
 - Large scale program to improve collection system performance and restore condition
 - Reduce sewer overflows and backups

Basins in Montgomery County



- Cabin John
- Dulles Interceptor
- Little Falls
- Muddy Branch
- Monocacy
- Northwest Branch
- Paint Branch
- Patuxent North
- Rock Creek
- Rock Run
- Seneca Creek
- Sligo Creek
- Watts Branch

Consent Decree Projects Overview

■ Laterals

- Repair, replacement, and rehabilitation of sewer house connections (laterals) and the installation of cleanouts and mainline lateral connection seals.
- Lateral repairs will involve work between the main line sewer and the property line.

■ Roads

- Repair, replacement, and rehabilitation of aging and defective sewers using Cured-In-Place Pipe (CIPP), pipe bursting, and open cut excavation.
- Work also includes chemical grout injection, internal spot repairs, external point repairs, manhole grouting and lining, and cleaning and inspection of sewers.
- Work occurs in neighborhoods and populated areas.

- **Environmentally Sensitive Areas (ESA)**
 - Sanitary sewer system rehabilitation utilizing mainly trenchless methods. Some repair work will require open cut methods.
 - Work consists of the rehabilitating sewer mainline, lateral, and manhole systems.
 - Work will be associated with stream restoration activities and the construction of temporary access roads in ESA.

Lateral Contracts

- **PM5239A11-MG-1 (LL/LR5239A11)**
 - Contractor: B. Frank Joy
 - Construction Start: 01/13/12
 - Construction End: 07/09/16
 - Work in Cabin John, Sligo Creek, Paint Branch, Northwest, Little Falls
 - 14% of contract value assigned

- **PM5239A11-MG-2 (LL/LR5239A11)**
 - Contractor: Inland Waters Pollution Control
 - Construction Start: 01/30/12
 - Construction End: 07/09/16
 - Work in Seneca Creek, Watts Branch, Monocacy, Rock Creek, Muddy Branch, Patuxent North
 - 15% of contract value assigned

Roads Contracts

■ **PM5178A11**

- Contractor:
- Construction Start: 07/11/11
- Construction End: 07/09/16
- Work in Sligo Creek, Paint Branch, Cabin John, Little Falls
- 91% of contract value assigned

■ **CI5180A11**

- Construction Start: 06/21/11
- Construction End: 06/19/16
- Work in Seneca Creek, Dulles Interceptor, Muddy Branch, Little Falls, Monocacy
- 16% of contract value assigned

Roads Contracts

■ **CI5182A11**

- Construction Start: 01/25/12
- Construction End: 01/23/16
- Includes work in Northwest and Cabin John
- 88% of contract value assigned

■ **CI5183A11**

- Construction Start: 04/19/12
- Construction End: 04/18/17
- Work in Rock Creek/Patuxent North, Rock Run, Little Falls, Watts Branch, Northwest
- 93% of contract value assigned

ESA Projects

- Work is in environmental sensitive areas.
- Sanitary sewer system rehabilitation utilizes mainly trenchless methods. Amounts to approximately 25-35% of work.
- Walk behind equipment is also utilized to negate impacts to
- Only 2-5% of repairs work will require open cut methods.
- 65-75% of work associated with stream restoration activities and construction of temporary access roads.
- Construction has started in two basins: Cabin John and Rock Creek.
 - Emergency work at Lake Frank and Lake Needwood
 - Emergency work at Buckspark Lane in Bethesda
- Work in the remaining basins is anticipated to start in Winter 2013/2014 pending receipt of permits.

Current ESA Contracts

- CI5385A12 – Cabin John
- PM5332A12 – Little Falls/Rock Run
- CI5300A11 – Northwest
- CI6000A11 – Paint Branch
- CI6003A11 – Rock Creek, Muddy Branch, Dulles
Interceptor/Patuxent North
- PM5297A11 – Seneca Creek/Monocacy
- CI5218A11 – Sligo Creek
- PM5337A12 – Watts Branch

Expectations During Construction Activities

- Typical Work Hours: 7:30 a.m. to 4:00 p.m. on weekdays
 - Night work is performed when necessary.
- Typical Equipment Used
 - Construction Equipment: backhoes, excavators, dozers, dump trucks, loaders, tampers/rollers/compactors
 - CIPP Equipment: inversion Units, boiler units
 - Closed Circuit Television (CCTV) Equipment: vans/trucks with cameras/monitors
 - Grouting Equipment: manhole grouting unit, grout pumps and mixers
 - Cleaning Equipment: hydraulic jet cleaners, jet trucks, vacuum trucks
 - Miscellaneous: trailers, pickup trucks, pumps, air compressors, hydraulic hammers, point repair equipment, box trucks

Pictures of Access Roads

- Light Duty Mulch Mat



Pictures of Access Roads (cont'd)

- High Use Mulch Mat



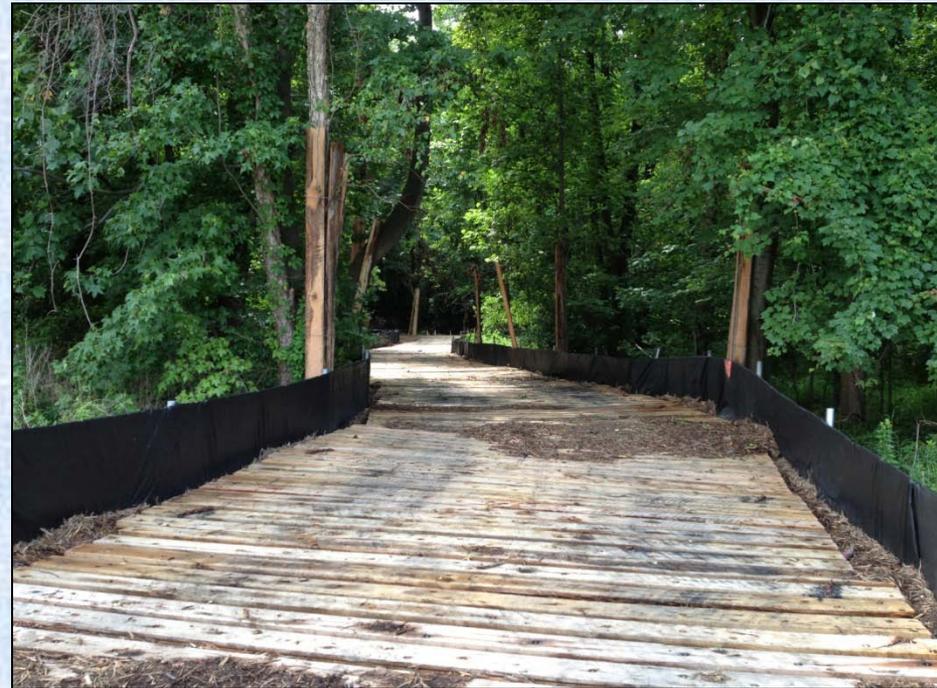
Pictures of Access Roads (cont'd)

- Heavy Duty Mulch Mat



Pictures of Access Roads (cont'd)

- Heavy Duty Mulch Mat



Pictures of Access Roads (cont'd)

- Heavy Duty Mulch Mat

At Stream Crossing



Going to two manholes



Pictures of Access Roads (cont'd)

- Heavy Duty Mulch Mat



Pictures of Access Roads (cont'd)

Access path after mulch road has been removed and the area has been seeded and prepared for planting trees which occurs in the Fall.



Questions?

For information on projects in Montgomery County
log onto

WSSC In Your Neighborhood

<http://www.wsscwater.com/InYourNeighborhood/>

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