



LITTLE HUNTING CREEK FORCE MAIN

Project No. WW-000007-007-A

Fairfax County Department of Public Works and Environmental Services
Wastewater Design and Construction Division, Wastewater Collection Branch



PUBLIC MEETING

Gerry Hyland Government Center

December 5, 2019



Introductions

- Fairfax County
 - Natasha Schmidt, P.E., Project Manager
 - Department of Public Works and Environmental Services Staff
 - Mount Vernon District Board of Supervisors
- Engineering Consultant (Michael Baker International, Inc.)
 - Scott Quast, P.E., Project Manager
 - Engineering Consultant Staff



Public Meeting Agenda

- Wastewater Division – Who We Are
- Existing Force Main
- Alternative Alignment Assessment Criteria
- Alignment Components
- Overview of Alignments Evaluated
- Considerations and Challenges
- Stakeholder Coordination
- Recommended Alternative(s)
- Anticipated Schedule
- Open-House Forum



Wastewater Division - Who We Are

- Protect Public Health and Water Quality
- Among the Nation's Largest Sanitary Sewer Systems
- How is Wastewater Generated?
(sinks, laundry machines, showers/tubs, and toilets)
- Plan, Design, Operate and Maintain
 - 3,250 Miles of Pipe (gravity and force main)
 - 60 Pump Stations
 - 249,300 Residential Accounts
 - 14,700 Commercial Accounts
- Treat 45 million gallons per day
- Once Treated, Water is Released Back Into Region's Waterways



*Quality of Water =
Quality of Life*

*Visit us on the internet at:
<https://www.fairfaxcounty.gov/publicworks/wastewater/about>*



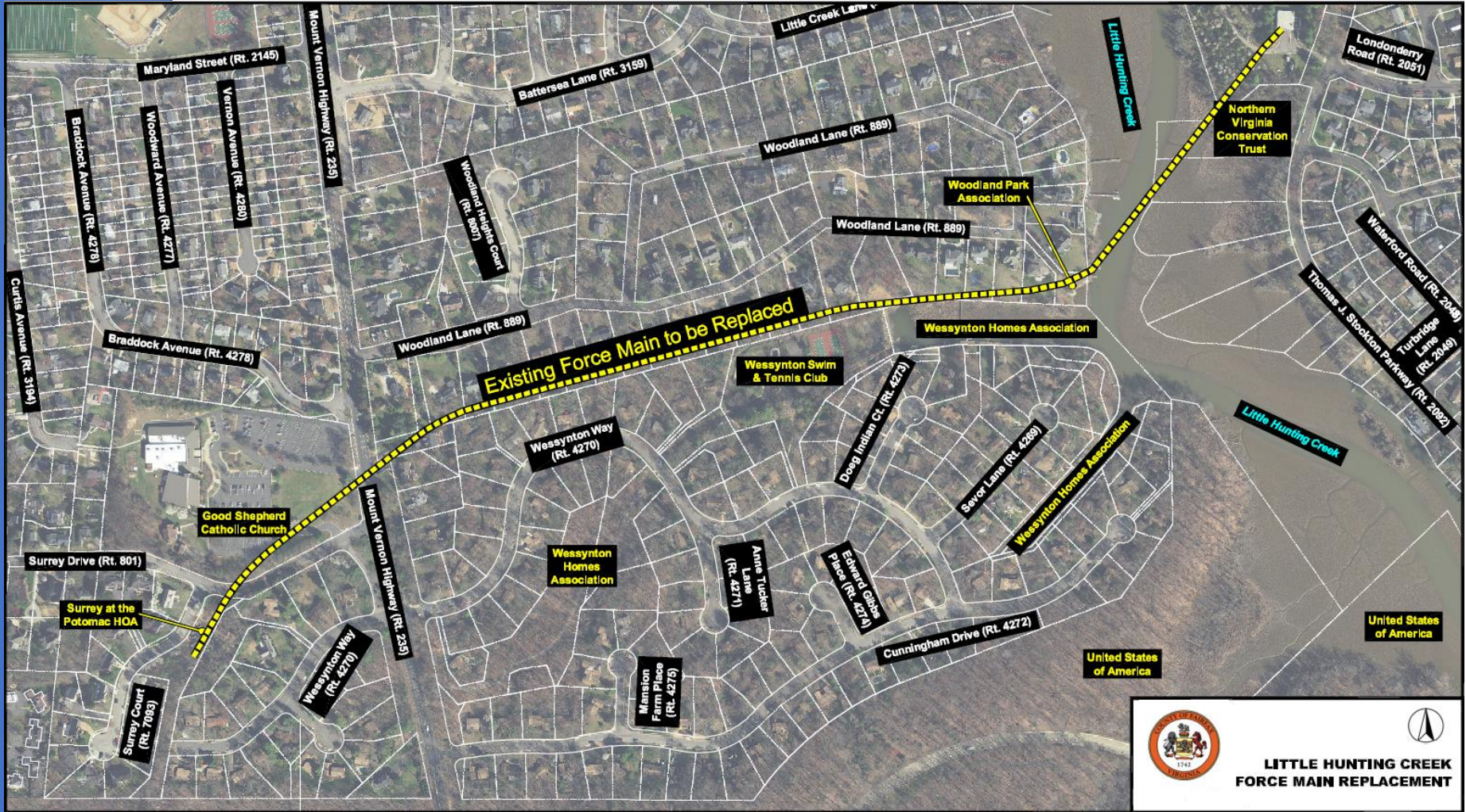
Existing Force Main

- 30-Inch Diameter
(Mix of Prestressed Concrete Cylinder Pipe and Ductile Iron Pipe)
- Installed in mid-1970s (approximately 45 years old)
- Approximately 4,560 Feet in Length
(Little Hunting Creek Pump Station to Junction Discharge Chamber)
- Located in a 40-Foot Wide Easement (Residential Property)
- Nearing the End of its Useful and Practical Life
- Completed 2 Repairs Recently
- Replacement is Required





Existing Force Main Map



**LITTLE HUNTING CREEK
FORCE MAIN REPLACEMENT**



Alternative Alignment Assessment Criteria

- Impacts to Public and Private Properties
- Impacts to Existing / Adjacent Utilities
- Environmental Impacts / Permitting Requirements
- Constructability Risk
- Traditional Open-Cut versus Trenchless (HDD) Methods
- Accessibility for Future Operations and Maintenance
- Project Cost



Alignment Components





Overview of Alignments Evaluated





Considerations and Challenges

- Installation Methods (Open Cut versus Trenchless)
- Staging and Storage of Materials
- Little Hunting Creek
- Potential Time of Year Restrictions
 - Wessynton Swim and Tennis Club and Nature Trail
 - Good Shepherd Church Property
 - Environmental Regulatory Agencies
- Potential Damage to Existing Force Main
- Impacts to Private Property
- Maintenance of Traffic / Accessibility
- Future Operations and Maintenance



Stakeholder Coordination

• FEDERAL AGENCIES

- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- National Park Service

• STATE AGENCIES

- Marine Resources Commission
- Department of Environmental Quality
- Department of Game and Inland Fisheries
- Department of Historic Resources
- Department of Transportation
- Department of Forestry

• FAIRFAX COUNTY DIVISIONS

- Land Development Services
- Public Works and Environmental Services
- Wetlands Board
- Planning Commission
- Urban Forestry
- Board of Supervisors (Mount Vernon District)

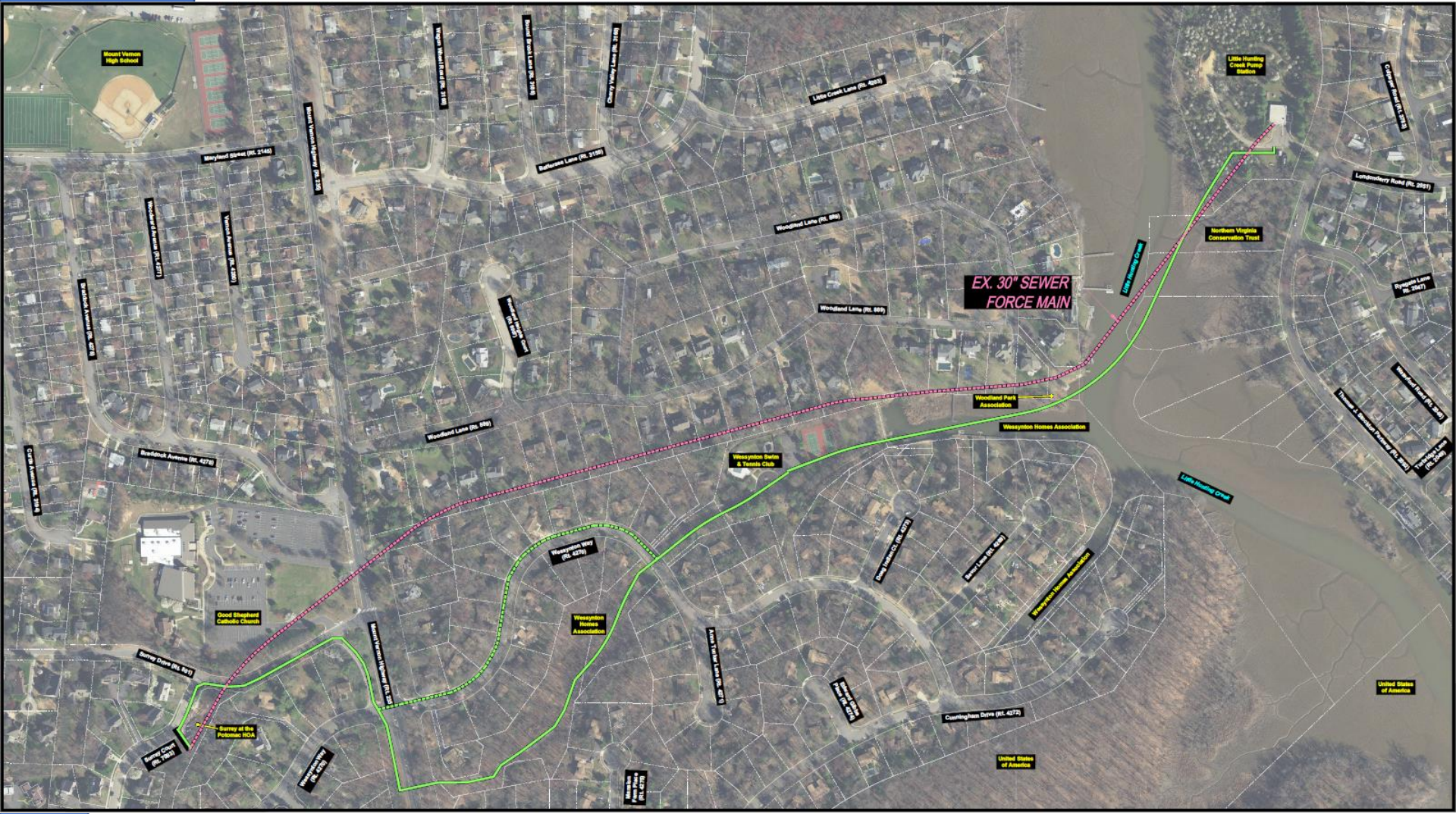
• LOCAL COMMUNITY PARTNERS

- Northern Virginia Conservation Trust
- Friends of Little Hunting Creek
- Good Shepherd Catholic Church
- Surrey at the Potomac Homeowners Association
- Wessynton Homes Association / Swim & Tennis Club
- Woodland Heights Community Association
- Woodland Park Association





Recommended Alternative(s)





More Recommended Alternative(s) Information

- BENEFITS

- Little Hunting Creek (Trenchless)

- **Minimizes** Environmental Concerns and Impacts

- Wessynton Swim and Tennis Club Property and Entrance Road (Open Cut)

- **Minimizes** Impacts to Private Properties / Winter Construction

- Wessynton Forest Trail (Open Cut)

- **Minimizes** Impacts to Private Properties / Local Traffic

- Wessynton Way (Open Cut)

- **Provides** Opportunity to Replace Additional Aging Infrastructure

- Mount Vernon Highway, Surrey Drive and Surrey Court (Open Cut)

- **Minimizes** Impacts to Private Properties



Anticipated Schedule

Spring 2020	35% Design Submittal
Summer 2020	70% Design Submittal
Fall 2020	95% Design Submittal
Winter 2020	Project Advertisement
Spring 2021	Construction Contract Award
Summer 2021	Commence Construction
Summer 2022	Complete Construction



Open-House Forum

- Attendance Register
- Comment Form
- Exhibit Viewing / Discussions



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THANK YOU FOR
ATTENDING THIS
PUBLIC MEETING
AND PRESENTATION

Please be Sure to ...

Complete the Attendance Register
and Provide Your Written Comments