

Briefing to Charles County Commissioners: Benedict Water Quality Study Results and Next Steps

Presenters

Alicia Afroilan, Engineering Supervisor Jason Groth, Deputy Director PGM

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Purpose

Provide a brief refresher/ history.

Recent related activities/ actions taken.

Present staff recommended future actions/ planned activities.

Background

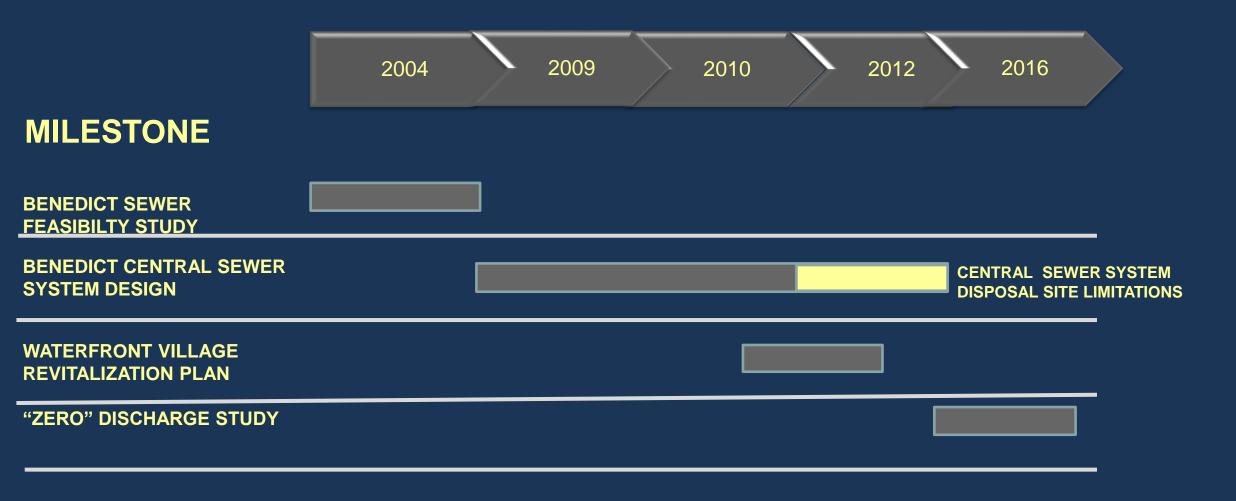
- Benedict is a rural residential community located in Eastern Charles County.
- Total of 156 lots, approximately 135 on septic tanks, 21 undeveloped/no primary structure
- The wastewater treatment and disposal consists of individual onsite septic tanks and subsurface disposal systems.
- Benedict has been identified in the 2006 County Water & Sewer Comprehensive Plan as a septic tank failure area (Appendix -4M) and listed on Sewer Category Map # 5

Benedict Area Septic Map

Total Septics (Approx. 135)



Project History



BENEDICT CENTRAL SEWER SYSTEM 2010 - CONCEPTUAL LAYOUT

 Design & construct a centralized wastewater collection and treatment system with a spray site for discharge



Project History (continued) Waterfront Village Revitalization Plan

5 Revitalization Goals:

- Protect the integrity, scale and character of the village.
- Create better visibility and identity along MD 231.
- Create a safe and walkable streetscape in the center of the village.
- Create public access to the river, creek and wetland areas.
- Create public parks that interpret the unique history of Benedict.

Project History (continued) Waterfront Village Revitalization Plan

Work Completed To Date:

- Series of "War of 1812" special events during bicentennial.
- Riverwalk 2015
- Village entrance enhancements 2016
- Town green design 2016
- Shoreline erosion design Ballfield project
- Property owner coordination
 - Benedict marina
 - Russo properties

Project History (continued) 2016 "Zero" Discharge Study

- Eliminate discharge to the environment by achieving a high level of treatment and reusing the treated effluent for various reuse applications.
- The results identified seven possible wastewater disposal alternatives for Benedict.
- All the alternatives require centralized wastewater treatment.
- A cost-benefit analysis of the study resulted no viable options at that time.

Recent activities/ actions taken

University of MD Center for Environmental Science (UMCES) Study

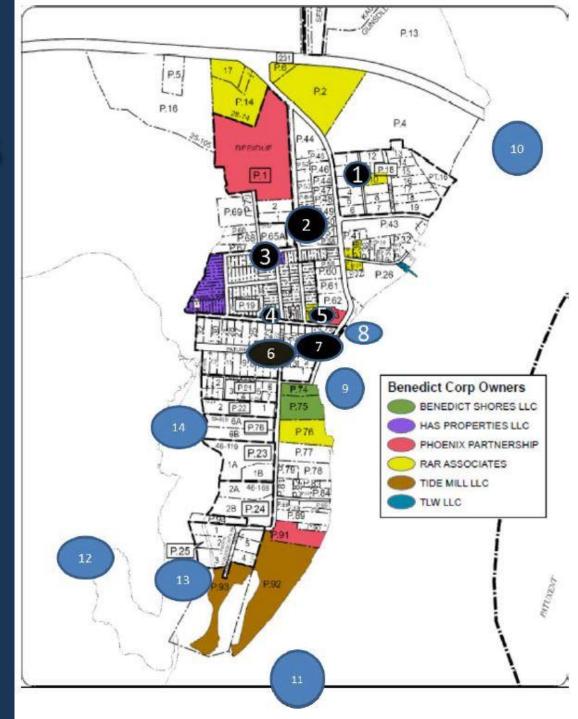


UMCES Study Sample Locations Map

Sampling Locations

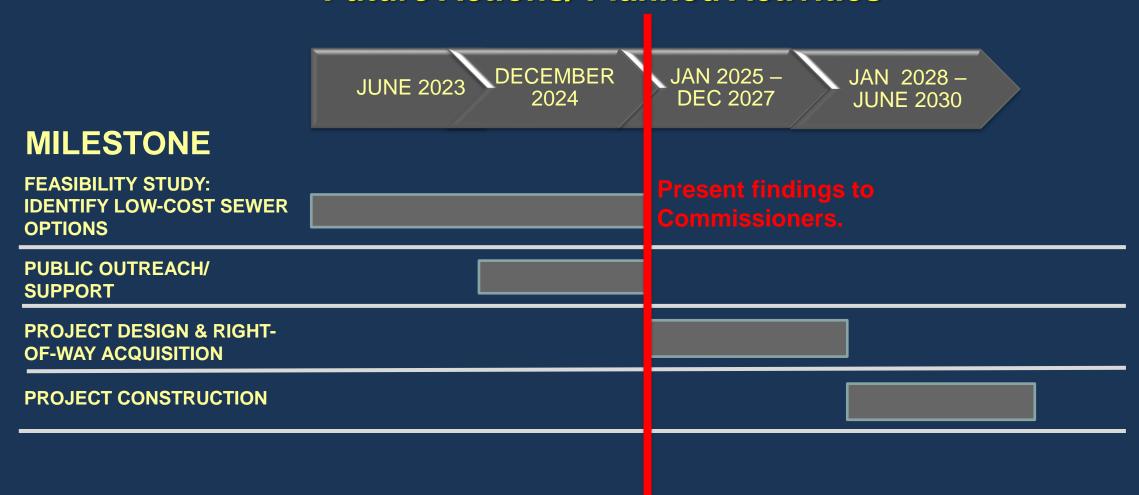
Black dots: groundwater wells

Blue dots: surface water samples



Recommendations:

Future Actions/ Planned Activities



QUESTIONS?



Presented By:

Charles County Government Planning & Growth Management

200 Baltimore St, La Plata, MD 20646 MD Relay Service: 7-1-1

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