

Metropolitan Sewerage District

Update for Buncombe County Board of Commissioners February 16, 2021





MSD HISTORY

- MSD was formed in 1962 by State Statute as a Special District with the sole purpose to collect and treat wastewater and to eliminate the direct discharges to the surrounding rivers and streams.
- Between 1962 and 1989 MSD built over 100 miles of large interceptor lines and a 25 MGD treatment plant. The Treatment Plant was later upgraded to a 40 MGD Plant in the mid 1990's.
- In 1990 all the local governments and special districts gave all of their collection lines (720 miles) to MSD for ownership and maintenance in agreements we call "Sewer Consolidation."





Consolidation of Fifteen Separate Sewer Systems in 1990

Five Municipalities

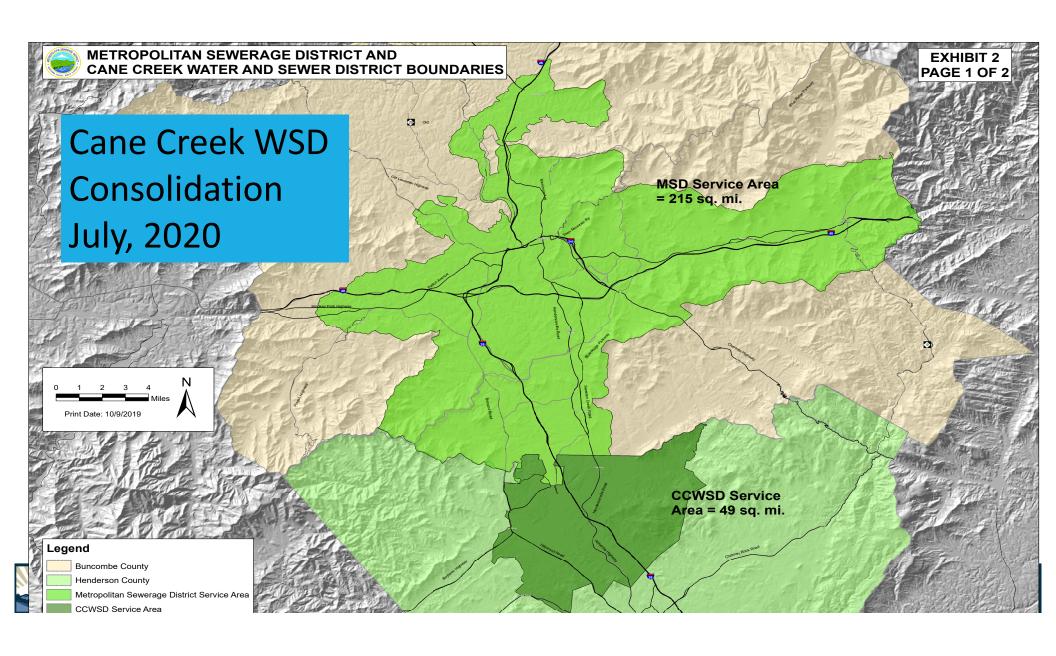
- City of Asheville
- Town of Biltmore Forest
- Town of Black Mountain
- Town of Montreat
- Town Of Weaverville



Ten Special Districts

- Beaverdam Water and Sewer District
- Busbee Sanitary Sewer District
- Caney Valley Sanitary Sewer District
- Crescent Hill Sanitary Sewer District
- Enka-Candler Water and Sewer District
- Fairview Sanitary Sewer District
- Venable Sanitary District
- Skyland Sanitary Sewer District
- Swannanoa Water and Sewer District
- Woodfin Sanitary Water and Sewer District







MSD Board of Directors

Governed by a fourteen-member Board appointed by the following entities:

City of Asheville (3)

Black Mountain

Buncombe County (3) Montreat
Henderson County (2) Weaverville

Biltmore Forest Woodfin Sanitary Water and Sewer District

Town of Woodfin

Chairman, Vice-chairman and Secretary-Treasurer are elected annually by the Board.

Active subcommittees:

Capital Improvement Program Personnel Planning Finance

Right of Way

The Board employs a General Manager, P.E., who is responsible for managing all District operation





Current MSD Board of Directors

Matt Ashley, Jr. Montreat

Jackie W. Bryson Woodfin SWSD

Sheila Franklin Henderson County

Glenn Kelly Biltmore Forest

William Lapsley Henderson County

Esther Manheimer Asheville

Chris Pelly Asheville

Nathan Pennington Buncombe County

Robert Pressley Buncombe County

Earl Valois Weaverville

Jerry Vehaun Woodfin

Robert Watts Black Mountain

Gwen Wisler Asheville

Al Whitesides Buncombe County

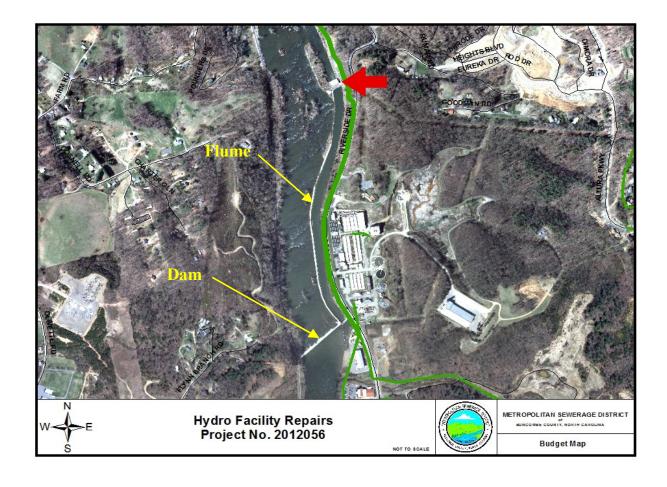
















Current Hydroelectric Production





- Can Generate 2880 KW
- FY 2015 Avoided Power Cost \$435,000





Hydroelectric Generation Facility



1986 Reconstructed Craggy Dam Hydro Plant (Originally Built 1903)



CAPITAL IMPROVEMENT PROGRAM FY20 through FY29 (10 years)

Interceptors/Wet Weather Rehab. \$ 86.8 Million (26%)

Collection Rehabilitation \$ 126.3 Million (38%)

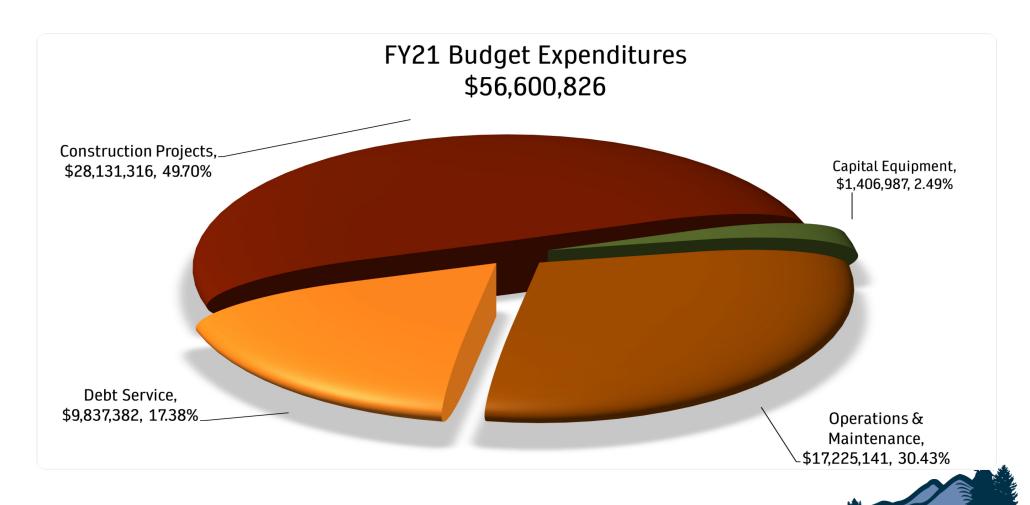
Treatment Plant / P.S. \$ 117.7 Million (35%)

Reimbursements \$ 1.6 Million (< 1%)

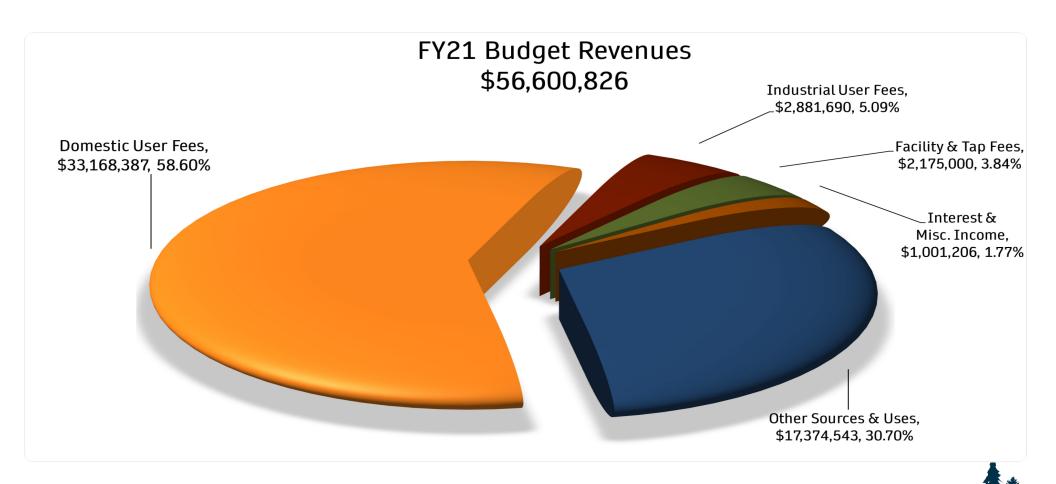
Total \$ 332.4 Million

Since Consolidation in 1990 the District has reinvested over \$397.4 million for Capital Improvements.









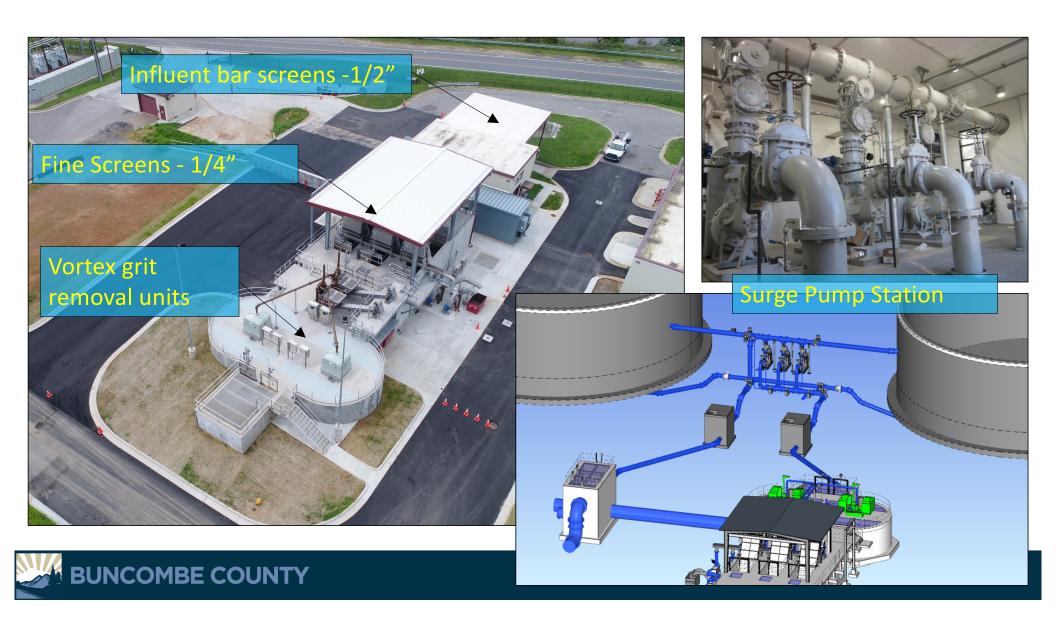


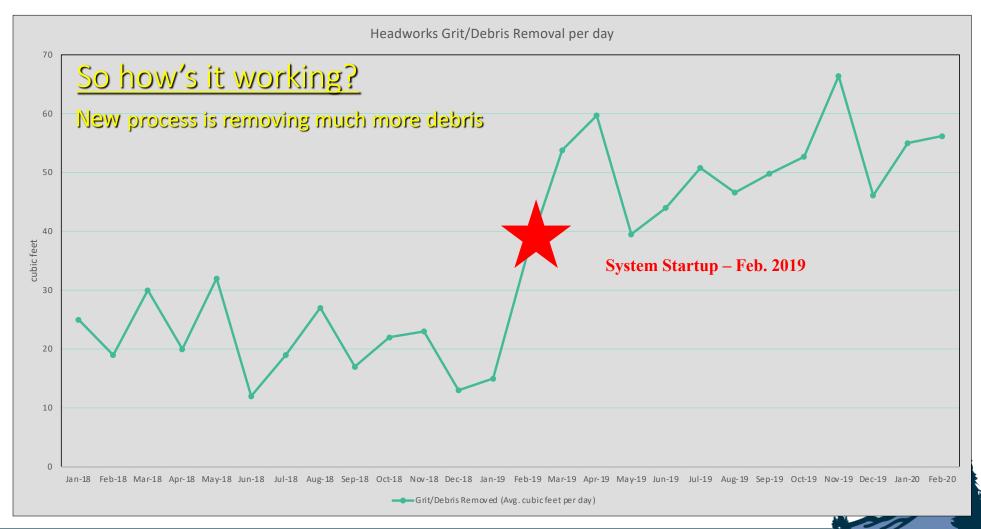




- New Bar Screens
- Improved Fine Screens
- Grit Removal
- Surge System for **Peak Flows**
- Construction complete
- Total Project cost approx. \$9.6 Million







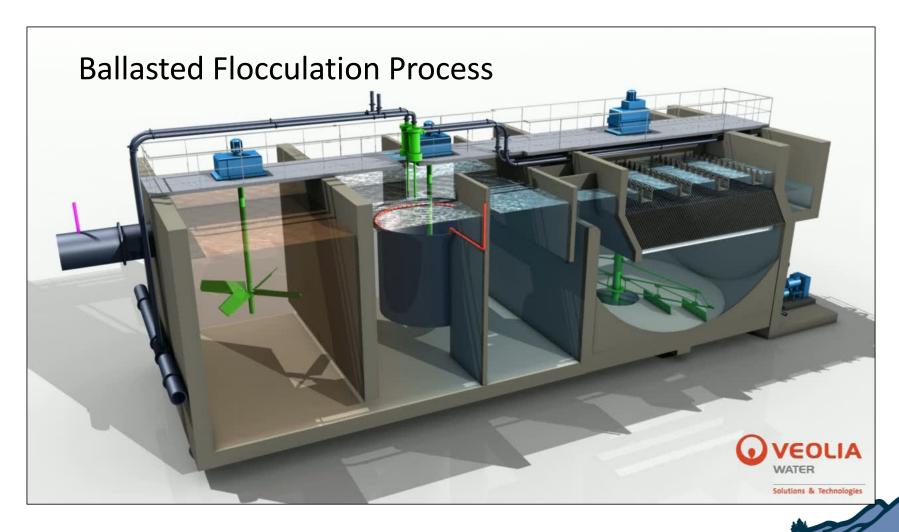






- New technology
- Will significantly improve treatment
- **Under Construction**
- Total Project Cost \$17 Million





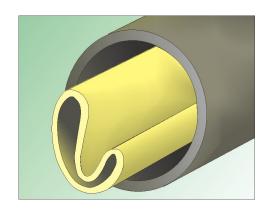




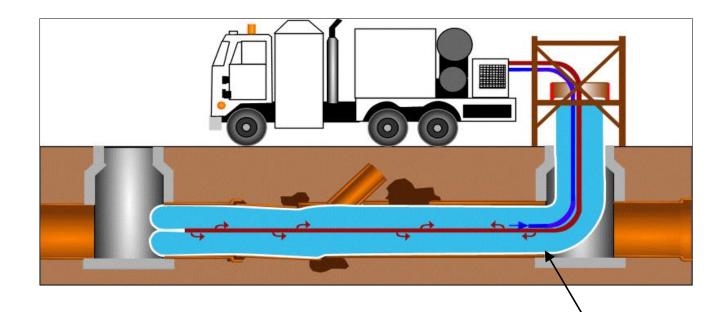




How does lining work?







Liner is "inverted" when installed, water is used to insert liner and keep it in place until curing.







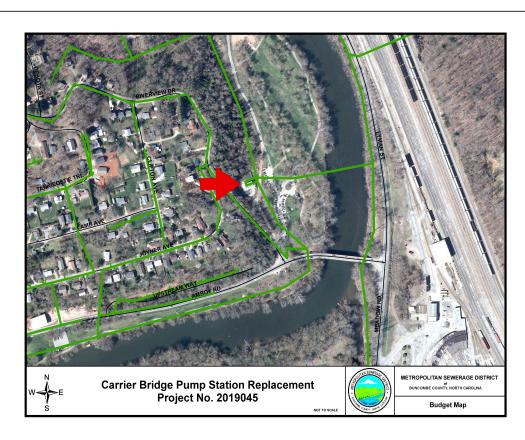






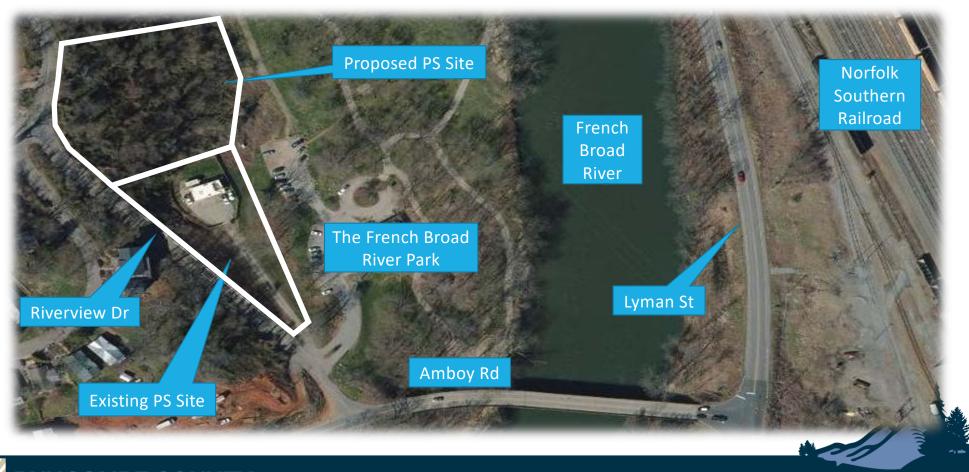
Carrier Bridge Pump Station

- Serves large areas of Asheville, Southern and Western Buncombe County, and CCWSD.
- Original station constructed in 1960's and upgraded multiple times.
- Capacity increased utilizing 50-year growth projections, to 34 mgd.
- \$30 M Construction Cost
- Design underway, construction to begin in FY21-22.





Carrier Bridge Pump Station





New station will be 70-75 feet deep





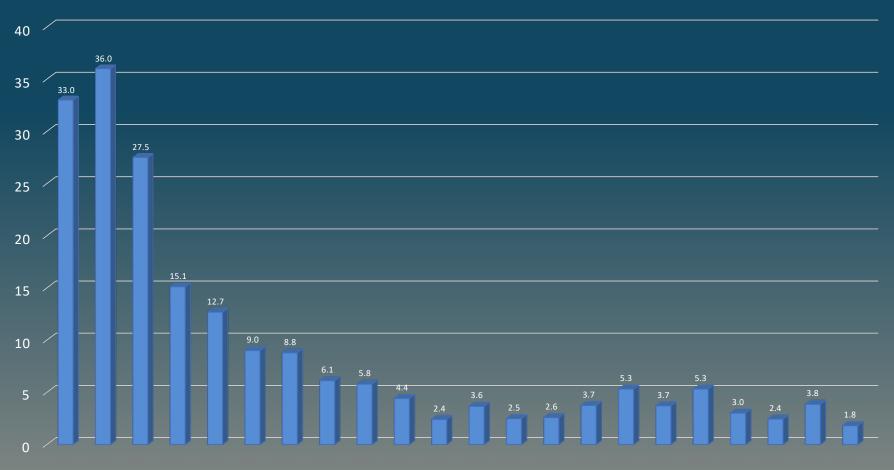




Sewer crossing/Pedestrian Bridge for Wilma Dykeman Greenway – COA Partnership









Questions?



