

COG's Round 8.2 Cooperative Forecast & Regional Wastewater Flow Projections

Presentation to CBPC

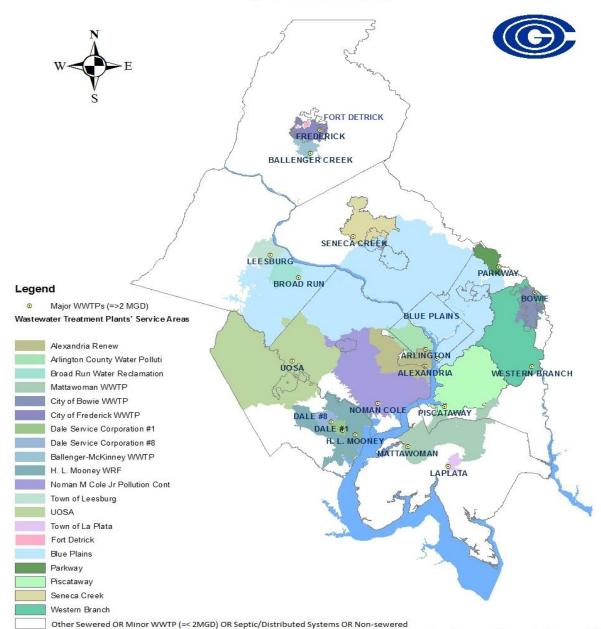
September 20, 2013

Overview

- COG's Wastewater Treatment Plants & Service Areas
 - 'Major' Plants (20 defined as => 2 mgd)
 - Maps & 'Others' minor plants/septic & non-sewered being refined
- COG's Regional Cooperative Forecast Process Round 8.2
- COG's Regional Wastewater Flow Forecast Model (RWFFM)
 - Basic assumptions / Trends
 - Flow projections Unadjusted & Adjusted

COG Region: Wastewater Treatment Plant Service Areas -Major WWTPs (=> 2 MGD) -

(DRAFT as of 8/7/13)



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Data Source: MWCOG

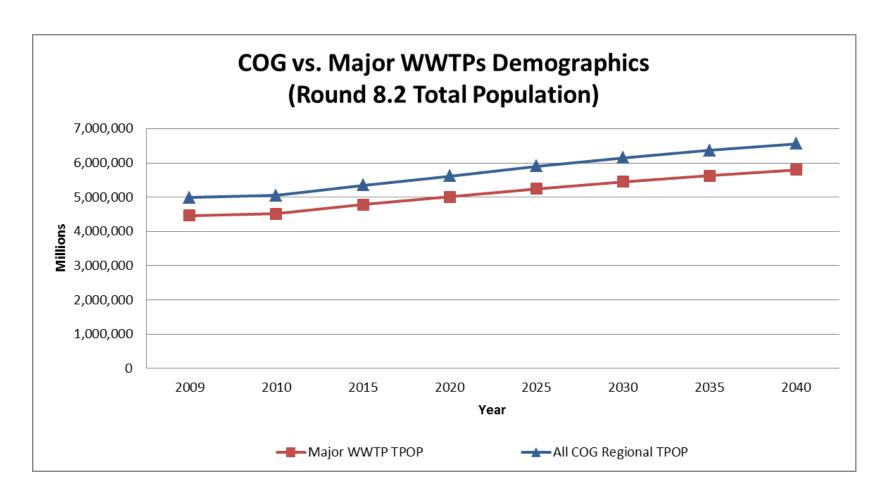
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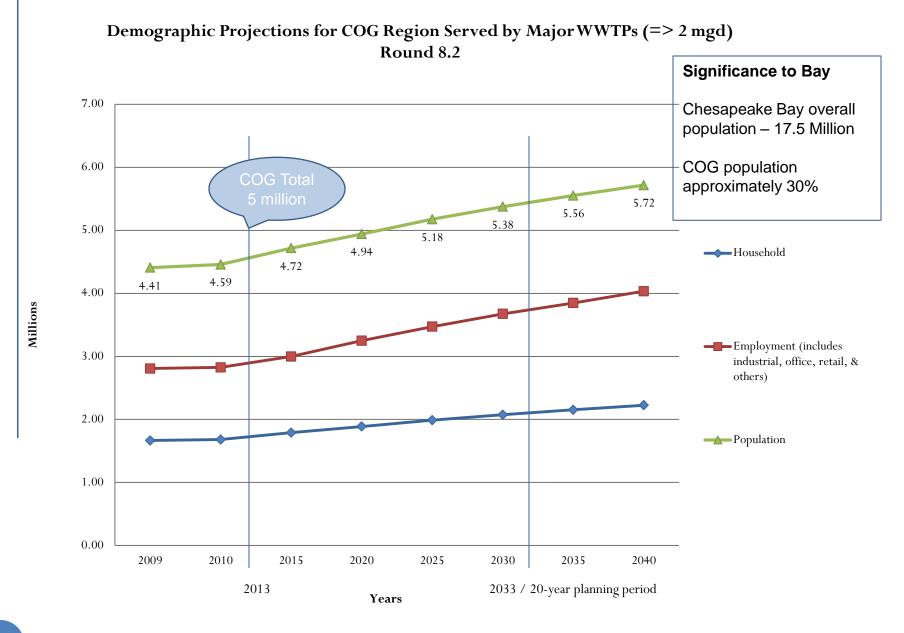
COG Cooperative Forecast

- Round 8.2
 - Adopted by COG Board on July 10, 2013
 - Reflects Census 2010
 - Demographic projections
 - Based on Jurisdictions' forecasts
 - Population, employment & households
 - Within 3% of region-wide econometric model

COG Region Population Trends



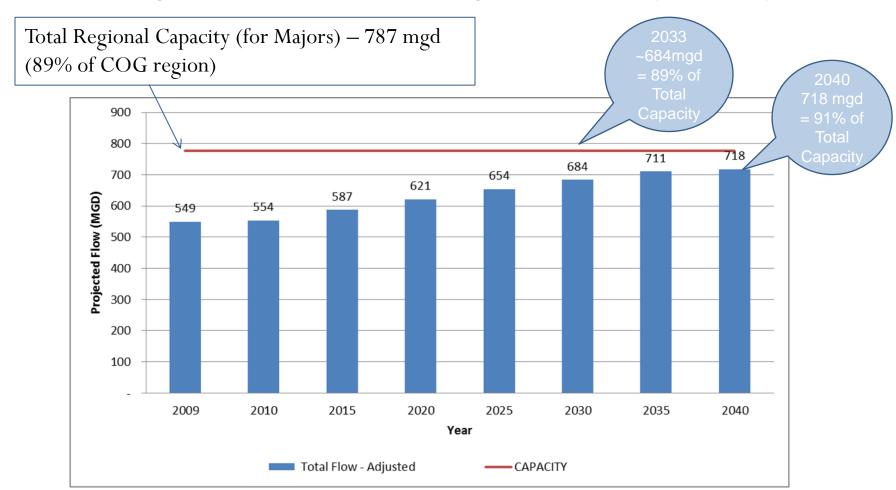
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Regional Wastewater Flow Forecast Model (RWFFM)

- Allocates demographics from Transportation Analysis Zones (TAZs) to appropriate wastewater service areas
- Uses employment & households data
- Reflect some flow diversion / changes in capacity
- Results inform Region Forward metric re: regional wastewater capacity

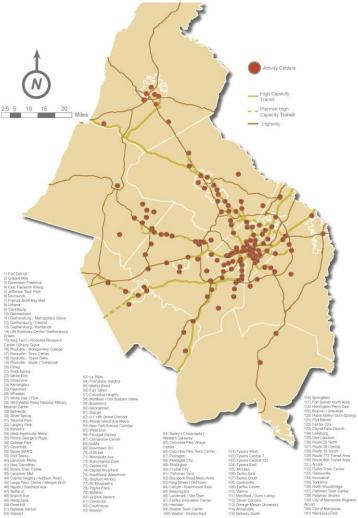
COG Major WWTPs & 'Adjusted' Flow Projections (Draft)



Adjusted flows reflect impact of (significant) flow reductions & flow diversions

Regional Activity Centers Map Submitted to COG Board for Approval January 13, 2013





COG's Region Forward and Economy Forward initiatives

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Next Steps

- Continue to verify with WWTP operators:
 - WWTP service area maps
 - Flow projections/assumptions
 - Refine maps re: septic/distributed systems vs. nonsewered areas
- Region Forward
 - Report on 'percent wastewater capacity' findings
 - Note link between RAC's & WWTP Service Areas
- Input to Water Resources Infrastructure event
- Flow vs. Load Capacity Analysis
 - Outgrowth of work being done for Blue Plains Users

Wrap-up

- Questions?
- Ideas?
- Many thanks for teamed effort Mukhtar Ibrahim,
 Nasser Ameen, & Lana Sindler (DEP staff), as well
 as Ryan Hand (Community Planning & Services
 staff)
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