

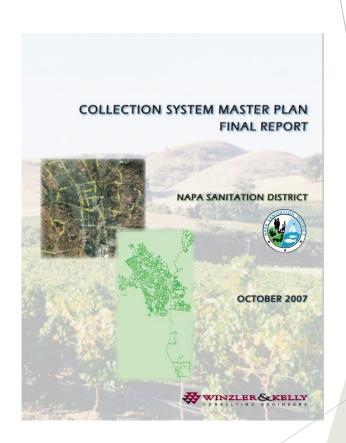
Collection System Master Plan (CSMP)

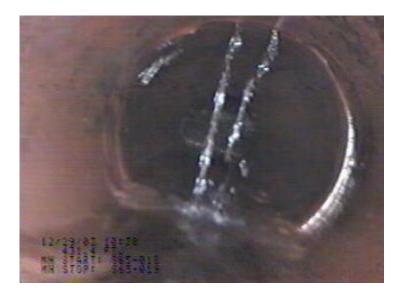
Phase 1 Task Order

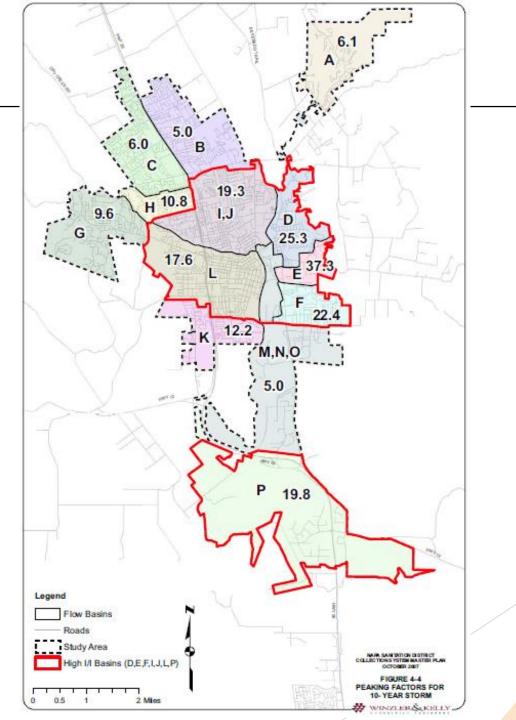
Outline

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- ▶ 2007 CSMP
- ► I/I Program Overview
- ► Why the CSMP needs updating
- ▶ Phase 1 of the CSMP
- ► Phase 2 of the CSMP
- ▶ Schedule
- ► Staff recommendation



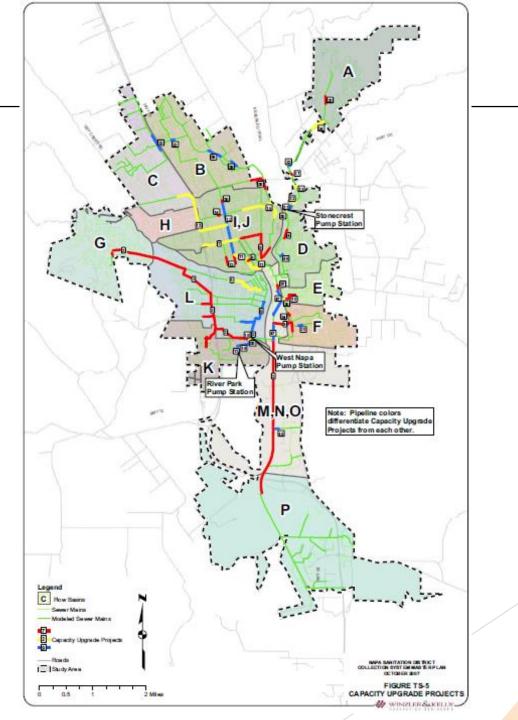






NapaSan Board of Directors Meeting



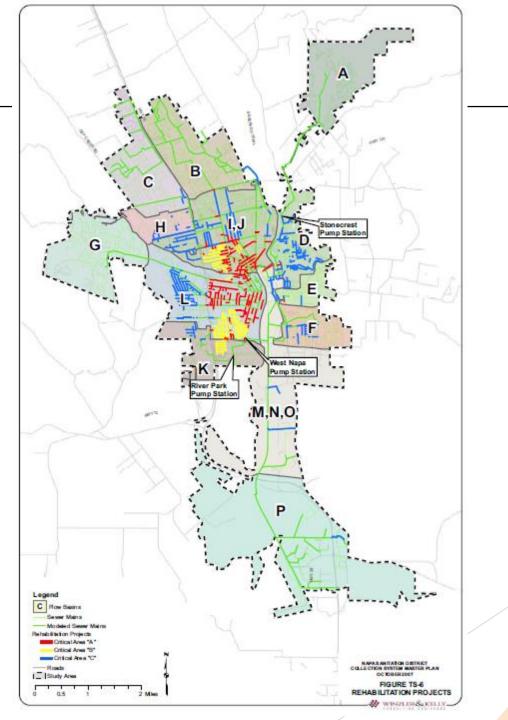




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Table TS-3: Capacity and Rehabilitation Project Costs (x 1000) (2007 dollars, collection system only)

		Project Priority		
Project Type	High	Medium	Low	Total
Capacity	\$71,068	\$1,446	\$7,643	\$80,156
Rehabilitation	\$882	\$39,007	\$0	\$39,889
Total	\$71,949	\$40,453	\$7,643	\$120,045

- ► The 2007 CSMP recommended a 5-year I/I program followed by a performance assessment
- Some capacity upgrades may not be necessary if the I/I program is successful

I/I Program

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- ▶ 7 major projects completed
- ▶ 19 miles of pipe rehabilitated/replaced
- ▶ 7% of system

▶ 12 MGD of peak flow rate reduction (not including

2017 project)



Why the CSMP Needs Updating



- ► Assess the performance of the I/I Program vs. the need for capacity improvements
- ► Changes in growth projections and development density (Napa Pipe, Gasser, Downtown Projects, etc.)
- ► Water conservation due to draught conditions (dry weather flows have decreased statewide)

Why the CSMP Needs Updating

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- CSMP recommendations need to be paired with AMP
- Better modeling technology
- ► Industry practice to update the CSMP every 5-10 years
- ► Evaluate the capacity of the 66" trunk main





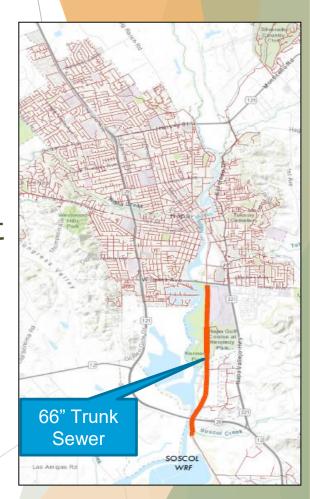


Phase 1 of the CSMP

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- ► Hydraulic model updates
- ► Flow monitoring
- ► Evaluate the capacity of the 66" trunk main
 - ► Recommend a rehabilitation or capacity upgrade project
- ► The CSMP was moved forward 1 year to inform NapaSan's decision on the 66" trunk project





Phase 2 of the CSMP



- Evaluate current and future buildout conditions
 - ► Future development based on City and County General Plans
- Condition assessments
- Establish design criteria and service levels
- Complete the hydraulic model
- ▶ Recommend a 10-year CIP for collection system upgrades

Schedule



- ▶ Phase 1
 - ► Flow monitoring and modeling during winter 18/19
 - ► Tech memo submittal during Spring 2019
- ▶ Phase 2
 - ► Award task order during Spring/Summer 2019
 - ► Adopt Master Plan in 2019/2020

Staff Recommendation



► Authorize the Purchasing Agent to execute Task Order 65 with GHD to provide engineering services for Phase 1 of the Collection System Master Plan (CIP 19727) in the amount of \$410,608.