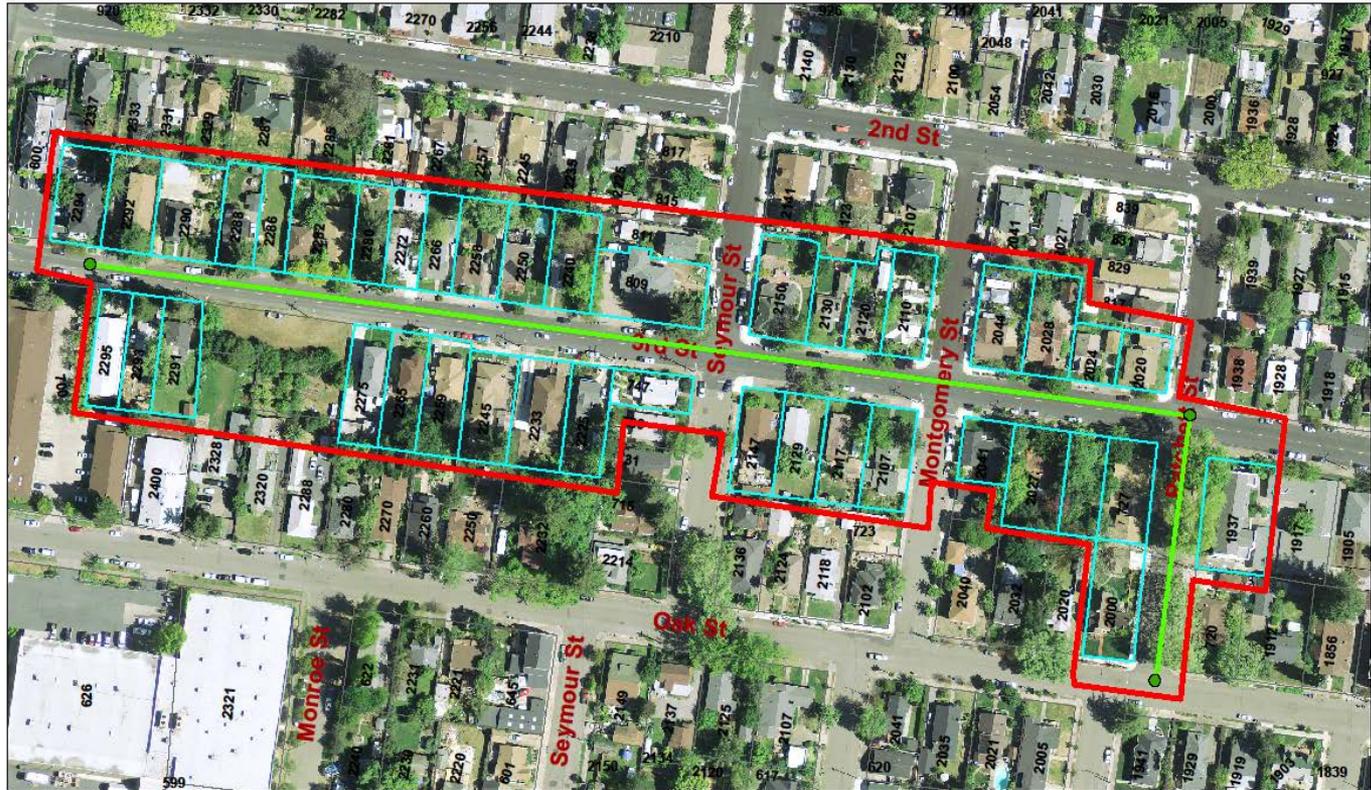




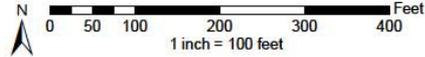
# Completion of the Upper Lateral Rehab Basin L #2 CIP 17702

Napa Sanitation District  
Board of Directors Meeting  
December 6, 2017

# Upper Lateral Rehabilitation - Basin L Pilot #2 Project Area



- Project Area
- Included Parcel



JH 2017-04-06



# Project Goals

- Rehabilitate upper laterals
- Reduce inflow/infiltration
  - Public system previously rehabilitated
- Measure flow reduction
- Evaluate cost/benefit of upper lateral rehabilitation

# Background

- 43 properties in sub-basin
- 27 evaluated for rehabilitation
- 19 rehabilitated
- Installation of 2-way house cleanouts





# Cost per Lateral

- \$3,100 estimate based on 2011 & 2015 projects
- \$5,500 2017 bid
- \$1,100 NapaSan actual cost

# Inflow Reduction

- Smoke testing
  - Roof leader  
(gutter downspout)
  - Yard drains
- Disconnection by  
property owners





# Evaluation

- Winter 14/15 pre-project monitoring
- Summer 2015 public system rehab (Basin L#4)
- Winter 15/16 post-project monitoring (41%)
- Winter 16/17 pre-project sub-basin monitoring (0.32 mgd)
- Fall 2017 upper lateral rehab
- Winter 17/18 post-project sub-basin monitoring



# Next Steps

- Post-construction flow monitoring
- Evaluate results
  - Compare with previous projects (2)
- Pre-construction flow monitoring
  - Future pilot projects (5 locations)
- Construct additional pilot projects

# Questions / Discussion

