



Soscol Recycled Water Pump Station North-South Split Project Completion (CIP 14727)

Napa Sanitation District
Board of Directors Meeting
May 18, 2016



Project Goals

- Hydraulic separation to serve and meter new MST and LCWD systems
- Resolve operational issues associated with addition of the new MST booster pump station
- Add a smaller 100 hp “jockey” pump
 - Energy efficiency
 - Less wear & tear on (e) 600 hp pumps
 - Reduced start/stop cycles during low flows
- Replace existing VFDs



Project Location





Completed Mechanical Modifications





New North Connection and Flow Meter





New Surge Tank





New "Jockey" Pump





New Variable Frequency Drives





Construction Costs

- \$1.9M Construction Cost
- Total Change Orders: \$109k (6.1%)
- Notable Change Orders
 - Pipe alignment conflicts (\$51k)
 - Unforeseen condition at pipe tie-in (\$12k)
 - 72-hr shutdown performance incentive (\$10k)



Total Project Costs & Grant Summary

- \$2.6M Total Project Cost
 - Design, Construction, Construction Management
- \$639k WaterSMART Grant (Federal)
 - 25% of total project cost reimbursed to NSD
- \$1.036M Prop 1 Grant application (State)
 - 41% of total project cost
- Up to 66% of project costs reimbursed by grants



Results

- Project completed on schedule for Spring 2016 Recycled Water Deliveries to MST and LCWD
- \$1.67M Grant Money Obtained (66%)
 - WaterSMART, Prop 1
- PG&E energy incentives (jockey pump)
 - \$22,622 annual energy savings
 - \$13k PG&E incentive



Questions?



Staff Recommendation

- Adopt Resolution Accepting Completion and Direct the General Manager/District Engineer to file Notice of Completion at the Office of the Recorder for:
 - Soscol Recycled Water Pump Station North-South Split Project (CIP 14727)