Public Works Commission Special Meeting



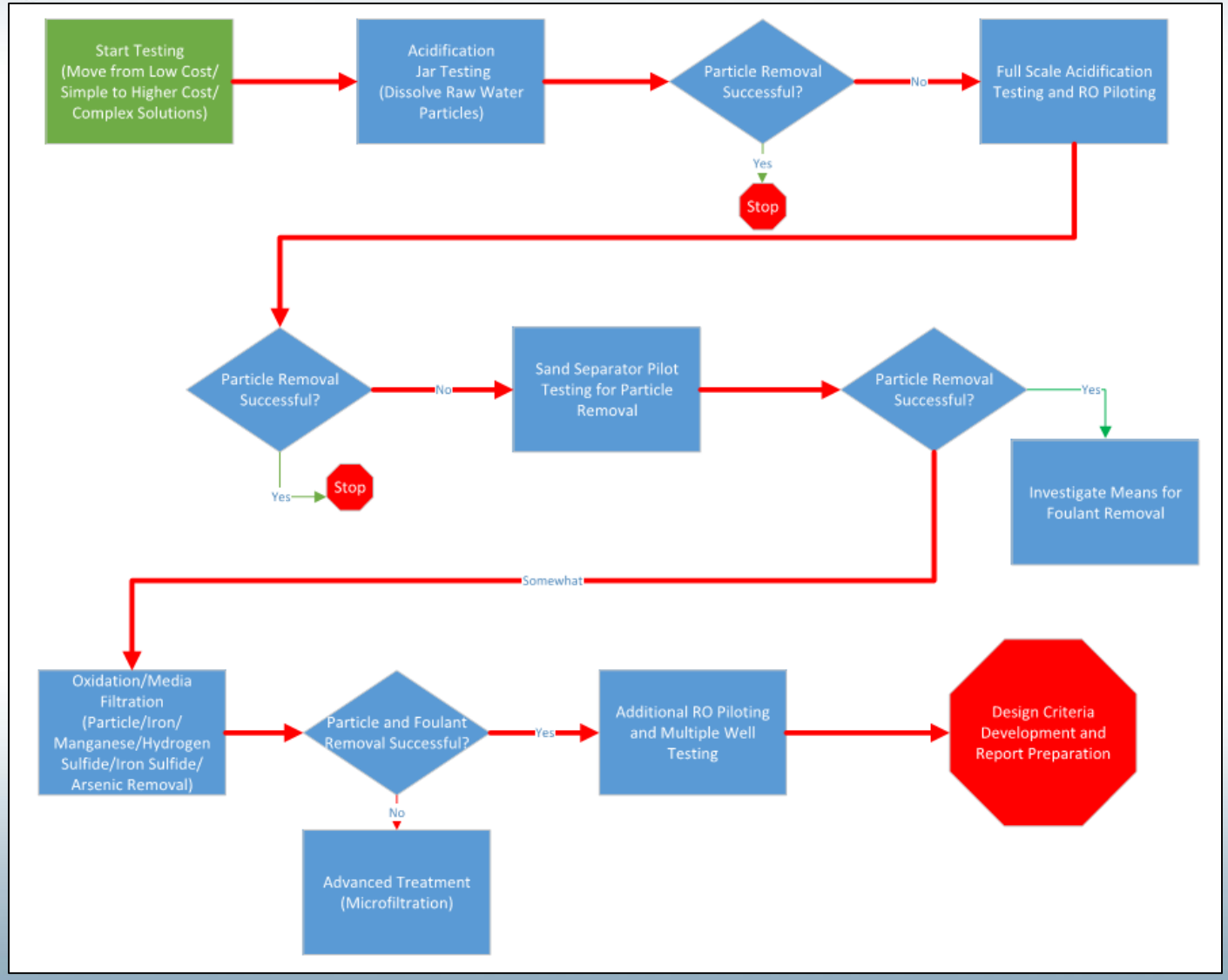



April 18, 2018

WTP Testing Summary

- Conducted bench- and pilot-scale testing for treatment of sand, iron sulfide, hydrogen sulfide, iron, manganese, and arsenic
- Hollywood wells (2, 4, 5, and 6) and Maple wells (1 and 2)
- Draft pilot report submitted by Carollo, under staff review

WTP Testing Process Flow



Raw Water Blowdown

- Remove particles within the well raw water pipelines upon well start-up
- Flush out constituents with large chlorine demand

Sand Separator

- Capture particles such as iron sulfide and sand, which wells produce during operation
- Reduce particle loading to RO process, prevent membrane fouling and differential pressure shutdown

Oxidation/Media Filtration

- Remove iron sulfide, hydrogen sulfide, iron, manganese, and arsenic
- Stabilize raw water and provide RO with particle-free water

Next Steps

- City staff to review draft report submitted by Carollo and provide findings to PWC in May
  - Executive Summary
  - Testing Background, Methodology, and Results
  - Proposed Design
  - Project Delivery Methods
  - Cost and Schedule
  - Recommendations

Any Questions