# East/West Portal
# San Antonio Backup Pipeline
# Operations Survey
## Sunol, California

## I. Survey Respondent:

Name: Joe Guerra

## II. Presenters:

Name: Mike Weisenberger

## III. Why operations staff wanted the project – problems the project was intended to solve:

- We needed to be able to discharge water from the system while drawing from the San Antonio Reservoir
- We needed redundancy to the San Antonio Pipeline along its most unreliable reach
- We needed to be able to discharge a large volume of water without significant impact on Alameda Creek
- We needed renewal of our dechlorination facilities at San Antonio pump station

## IV. Challenges of operating during construction:

- Delayed project facilities availability/functionality
- San Antonio pipeline and Alameda Siphon outages were required
- The project added a complex of air gaps which posed some level of operational risk

## V. How project has affected operations:

- The project provided the capability to discharge water from the system while drawing from San Antonio Reservoir

- Redundancy to the San Antonio pipeline along its most unreliable reach

- Capability to discharge a large volume of water without significant impact on Alameda Creek

- Renewal of our dechlorination facilities at San Antonio pump station

## VI. Challenges of operating new facilities:

- The project facilities have been put into service without O&M documentation

- The project added a complex of air gaps which pose some level of operational risk

## VII. Lessons Learned from an Operations perspective:

- Develop control strategies early in design, accounting for flow control, cross-connection control, and chemical feed control, and document this for both detailed design and operational commissioning

- Maximize O&M control, instrumentation and access in the design of all new water facilities – extra benefits are certain to come of it (good Karma)