

CWEA SFBS Dinner Meeting: With a presentation on City of San Jose Regional Wastewater Facility’s Pump Stations Condition Assessment.



Black & Veatch provided pump station condition assessment of three separate large (200+ MGD, see table below) critical operating pump stations within the active San Jose-Santa Clara Regional Wastewater Facility. The primary goal of the project was to assess the conditions of the existing mechanical, electrical, structural, and instrumentation components of each of the pump stations with the end driver of extending the life of the assets an additional 30+ years into the future. The assessment, findings and analyses were utilized to provide the following information to City of San Jose (City):

- Condition assessment scoring and estimated remaining life of pump station component
- Class 5 planning level costing for each pump station component that is recommended to be replaced within 30 year window
- Recommended project implementation and sequencing schedule for retrofitting / rehabilitating each pump station

The information and recommendations Black & Veatch provided to the City will be utilized by management and stakeholders for capital improvement planning and will ultimately be used to define the scope of the future pump station improvements projects.

PUMP STATION NAME	PUMP CAPACITY	YEAR BUILT
Raw Sewage Pump Station 2 (RSPS2)	80 MGD (3 pumps)	2008
Settled Sewage Pump Station (SSPS)	67.5 MGD (4 pumps)	1960s
Filtration Influent Pump Station (FIPS)	85 MGD (4 pumps); 65 MGD (1 Pump)	1970s

Speaker Bio:



Kyle O'Dea



Clinton McAdams

Kyle O'Dea is an Associate Engineer for the City of San Jose where he has been managing and executing projects for the past 8 years at the San Jose-Santa Clara Regional Wastewater Facility (RWF). He has managed public capital projects with a \$5-\$10 million construction value and is experienced in project scoping, condition assessments, alternatives analysis, conceptual and detailed design, bid and contract award, construction management, start-up and commissioning, and contract closeout. Kyle is the City's Project Manager on the Pump Station Condition Assessment Study.

Clinton McAdams is Black & Veatch's Regional Condition Assessment Lead. For over a decade he has empowered utilities with asset management strategies for optimal infrastructure lifecycles. Emphasizing the importance of resolution and coverage during data collection has enabled him to provide successful cost-effective programmatic solutions. Past projects include engineering design and construction services, condition assessments, risk-based capital improvement planning, asset management program support, and contract administration. Clinton is Black Veatch's Engineering Manager on the Pump Station Condition Assessment Study.