



Aeration Basin Diffusers, Instrumentation & Controls Project (CIP 15713)

Napa Sanitation District
Board of Directors Meeting
May 18, 2016



Project Location





Project Goals

- Replace Existing Diffuser Equipment
 - Installed in 2000
 - Refurbished in 2008
 - End of equipment's useful service life
- Activated Sludge Process Improvements
 - Flow Balancing through RAS Influent Controls
 - Improved D.O. control (energy savings)



Proposed Project Schedule

- Board Award Construction Contract: May 18, 2016
- Notice to Proceed: June 1, 2016
- Construction Phase: 6/2016-10/2016
- Project Completion: October 17, 2016
- River Discharge Season: November 1, 2016



Aeration Basins





A Closer Look: Failing Diffuser Panels





Desired Condition = Fine Bubbles, Good D.O. Control





Failing Diffusers = Course Bubbles, Poor D.O. Control





~2,500 New Disc-type Diffusers to be Installed





Other Project Components



Influent Control - Add Motor Controls to 4 (E) RAS Influent Gates





Improved D.O. Control – Add 16 Automated Valves to Air Supply System





Bid Results

Bidder	Amount
Engineer's Estimate	\$1,060,000
Spiess Construction	\$1,176,000
Aztec Consultants	\$1,477,700
TNT Industrial Contractors	\$1,479,838
GSE Construction	\$1,494,000
Gateway Pacific	\$1,494,042
C. Overaa & Co.	\$1,658,000



Bid Protest

- Submitted by Aztec Consultants
 - Second Lowest Bidder
- Aztec's protest claimed:
 - Spiess' Electrical Subcontractor lacked experience similar to this project
 - Electrician's reference projects did not qualify
- Aztec's Protest requested that NSD:
 - Contact agencies to verify reference projects' scopes and electrical work values
 - Reject low bidder's bid



Bid Protest Evaluation

- NSD contacted all project references
 - Result: Complimentary references received from all responding agencies
- NSD Investigated Public Records of Referenced Projects
 - Result: Verified project scopes and amounts
- Staff's Findings
 - Spiess' Electrical Subcontractor is qualified and responsible



Staff Recommendations

- Reject bid protest from Aztec Consultants;
- Award construction contract to Spiess Construction for the bid amount;
- Authorize GM to execute Agreement and issue the NTP, when appropriate



Questions?