

Featured Project

Novato Sanitary District Wastewater Facilities

Novato, CA

ArcSine Engineering designed electrical, instrumentation, and Supervisory Control and Data Acquisition (SCADA) for District facilities. Work included power distribution, process instrumentation, hardwired controls, PLC controls, SCADA networking with package systems and equipment, and in-plant and remote-site telemetry. As the District's programmer, ArcSine provided application PLC and SCADA programming.

Projects included the new 5-mgd Ignacio Transfer Pump Station—a critical conveyance facility. With onsite flow equalization capability, ArcSine's design affords the District flexible operating strategies, including automatic management of peak flow events and flow return. Remote initiation of conveyed flow limiting provides opportunities for management of treatment plant in-flows under normal and emergency conditions.

For the District's main wastewater treatment plant, ArcSine designed plant-wide power distribution, instrumentation, and SCADA under several contracts. Plant capacity was increased to 55 mgd, with expanded recycled water production and conveyance capacity. As an in-service facility near the San Francisco Bay, keeping the facility operational throughout each construction project was a critical criterion.

ArcSine's work included early commissioning of selected processes; temporary integration with, and cutover from, existing controls; and comprehensive planning and testing. ArcSine's leadership during process control workshops and during control system testing resulted in early understanding and endorsement of the control system by District personnel.

Projects also included District-wide evaluation of intrusion monitoring, access control, and video monitoring; with provisions included in selected contracts.

Electrical
Mechanical
SCADA
Instrumentation/Controls
Lighting
Power Distribution
Construction Services
Water/Wastewater

