

Ferndale Wastewater Treatment Facility

Ferndale, California



CLIENT

City of Ferndale

SCOPE OF SERVICES

Treatment Report

Agency Approvals

Wastewater Treatment Plant Design

Permit Approvals

Engineer's Construction Estimate

Bidding Assistance

Construction Observation

Survey

PROJECT DURATION

Ongoing

Manhard's staff prepared the Facility Plan Report (Plan) for the City of Ferndale's 1.0 million gallon per day (MGD) wastewater treatment plant. The city of Ferndale is in northern California and has a population of about 1,400 people.

The Plan required extensive evaluation of the existing treatment facility, existing collection system, existing discharge parameters, and future growth. The Plan covered environmental concerns such as climate, geography and geology, soils, biota, surface waters, groundwater, and culturally significant areas. It incorporated the socioeconomic well-being and growth projections of the community. The Plan presented alternatives for discharge and re-use irrigation. The Plan also identified and discussed non-monetary issues such as environmental and social impacts as well as technical and time considerations.

Manhard's services also included design of the treatment facility, addition of new buildings, irrigation, and surveying. The facility itself features an extended aeration, stormwater or flow equalization pond, bio-disc filters, ultraviolet disinfection, sludge drying, and a wetlands. The treatment plant has tertiary treatment

and also goes to irrigation for 5 months a year. A new lab, administration building, and garage buildings have been added to the site as well as an irrigation system for the summer.