

Welcome to the City of Hayward Virtual WOW

The Hesperian Pump Station

Bert Weiss

City of Hayward

Utilities Operations and Maintenance Manager

City Characteristics that Attracted Me to Hayward

- Municipal Water and Wastewater services
- 159,203 residents
- Industrial and commercial sector
- State university and community college
- Regional hospital
- Rail, BART and major freeway corridors
- Executive municipal airport
- Power plant
- Active earthquake fault



Service Area and Water Supply

- Service Area and Demand
 - Over 34,000 service connections
 - Average demand - 14 mgd
- Water Supply
 - 100% of water from San Francisco Public Utilities Commission with ability to be served by EBMUD



CITY OF HAYWARD WATER TRANSMISSION SYSTEM AND REGIONAL INTERTIES

Skywest Pump Station

Hesperian Pump Station

24-inch transmission Main from Fremont Tied to SFPUC BD 1,2, & 5

42-inch transmission Main from Newark Tied to SFPUC BD 1,2, & 5

- Legend**
- Railroad
 - Trails
 - Jurisdiction Boundaries
 - Hayward Water Facilities**
 - Regional Water Intertie
 - ▲ Water Pump Station
 - Emergency Water Well
 - Water Reservoir
 - Water Transmission Main



1:20,000

0 0.5 1 2 3 4 Miles

Infrastructure

- Two turnouts from SFPUC
- 14 reservoirs (~30 mg of total storage)
- 10 pump stations (7 for Highland chain)
- 350 miles of pipeline
- 35 PR stations
- 8 pressure zones



Emergency Water Supplies

- 5 emergency wells (9 MGD sustained yield)
- Local interties with outside agencies both EBMUD & ACWD



Emergency Well and Pump

- Wells provided the water for Hayward's municipal water systems from the mid 1800's up until the late 50's
- The decision was made to become a customer of one of the regional water wholesalers
- EBMUD whose system ends at the north boundary of Hayward made the most sense
- However, the SFPUC gave Hayward an offer we couldn't refuse...



Let's go on the video tour of
our Hesperian Pump Station!

VIDEO TOUR

Regional Intertie

- Designed to move 30 MGD between the two regional systems during emergency or planned maintenance work



Skywest Pump Station



Hesperian Pump Station

So with the Hesperian Pump Station and the Skywest Pump Station we could now run the water system:

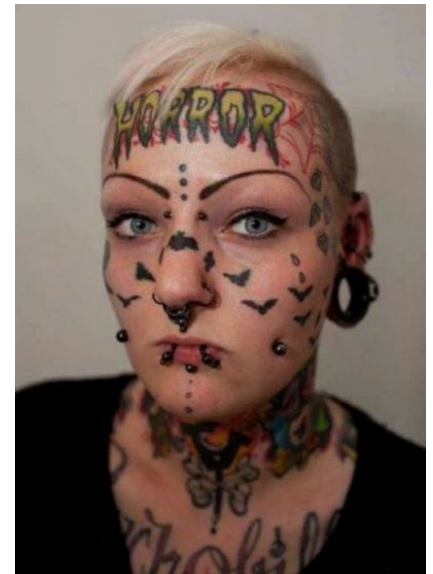
Forwards - South to North

or

Backwards - North to South

BUT!!!

Just because you “can” do something
doesn’t mean you “should” do it!!!



Questions?

Bert Weiss
Utilities O&M Manager
510-881-7901

Bert.Weiss@Hayward-ca.gov



“Do not, my friends, become addicted to water. It will take hold of you, and you will resent its absence!”

Immortan Joe