



System Overview Slides



System Overview: Kekaha-Waimea

- Supply
 - 2000: Adequate once well comes on-line
 - 2020: Rehabilitate Waimea Shaft #9 to get 200 gpm or develop another well

- Storage
 - 2000: Install 0.6 MG tank at Kapilimao Well site
 - 2020: Install 0.5 MG in Waimea 196 Zone

- Distribution:
 - Fire flow deficient in commercial, residential areas that are served by undersized and older pipes
 - Many pipes installed in 1924
 - Remainder installed in 1950s and later



System Overview: Hanapepe-Eleele

- Supply
 - 2000: Adequate
 - 2020: Institute conservation measures

- Storage
 - 2000: Adequate. Rehab/replace tanks
 - 2020: Install PRV stations. Institute conservation measures

- Distribution:
 - Salt Pond area is deficient in fire flow
 - Hanapepe Town pipe installed in 1920s
 - Hanapepe Valley pipe, 1933
 - Hanapepe Heights pipe, 1946



System Overview: Kalaheo

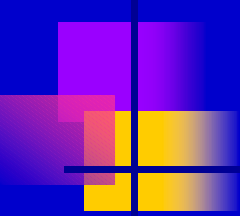
- Supply
 - Adequate. Connected to Lawai

- Storage
 - 2000: Adequate once new 0.5 MG tank on-line. Install PRV station
 - 2020: Adequate

- Distribution:
 - Ag / Open areas are deficient in fire flow.
 - Oldest pipe installed 1942 to 1953.

System Overview:

Puhi-Lihue-Hanamaulu



- Supply
 - 2000: Adequate once Hanamaulu 1, 3, 4, Pukaki, & Puhi 5a & 5b on-line
 - 2020: Adequate

- Storage
 - Adequate

- Distribution:
 - Fire flow is deficient in commercial, school & older subdivisions.
 - Oldest pipe installed in 1926 - 1935, remainder after 1946



System Overview: Wailua-Kapaa

■ Supply

- 2000: Adequate; however, surplus cannot be moved due to system limitations. Install piping & boosters or rehab Akulikuli Tunnel & acquire new 400 gpm source
- 2020: Adequate

■ Storage

- 2000: Construct new 0.9 MG tank, new 0.35 MG tank, & new 0.9 MG tank
- 2020: Adequate



System Overview: Wailua-Kapaa

■ Distribution:

- Vivian Heights & upper Wailua Homesteads has low pressure
- Fire flow deficient in Waipouli makai area, ag/open & older subdivisions.
- Some pipe installed before 1930.
- Wailua Homesteads main - 1937
- Kawaihau Road cast iron main - 1945



System Overview: Lawai-Omao

- Supply
 - Adequate. Connected to Kalaheo

- Storage
 - 2000: Needs 0.25 MG tank in 677 Zone
 - 2020: Adequate

- Distribution:
 - Hailima Road area has low pressure.
 - Fire flow is deficient in the commercial, ag/open areas and private roads.
 - Oldest pipe installed in Omao in 1953, others after 1960.



System Overview: Koloa-Poipu

- Supply
 - Adequate

- Storage
 - 2000: Rehab Omao Tank or construct new 0.5 MG tank
 - 2020: Construct new 1.0 MG tank. If Omao repaired, construct 0.25 MG in 366 Zone

- Distribution:
 - Fire flow deficient in Koloa Town and ag/open areas.
 - Koloa Town pipe installed in 1924- 1937
 - Older pipes are galvanized steel and cast iron .

System Overview:

Anahola

- Supply
 - 2000: Need new 300 gpm source
 - 2020: Adequate

- Storage
 - 2000: Adequate
 - 2020: Need 0.4 MG tank

- Distribution:
 - Fire flow is deficient in Anahola village.
 - Anahola Road pipe installed in 1929.
 - Remainder after 1956



System Overview: Moloaa

- Supply
 - Currently purchases water
- Storage
 - 2000: Construct new 0.015 MG tank
 - 2020: Adequate
- Distribution:
 - PVC pipe was installed in 1985

System Overview:

Kilauea-Waipake-Kalihiwai



- Supply
 - 2000: Need new 400 gpm source
 - 2020: Adequate

- Storage
 - 2000: Construct new 0.65 MG tank. Install PRV stations
 - 2020: Adequate

- Distribution:
 - Sea Cliff Plantation has low pressure.
 - Fire flow is deficient for commercial, schools and Kalihiwai Valley.
 - Oldest pipe was installed in 1972

System Overview:

Anini

- Supply
 - Currently purchases water

- Storage
 - No DOW facilities

- Distribution:
 - Fire flow is deficient at the end of the system.
 - Oldest pipe (PVC) was installed in 1984



System Overview: Hanalei

- Supply
 - 2000: Need new 200 gpm source for redundancy
 - 2020: Adequate

- Storage
 - 2000: Need new 0.1 MG tank
 - 2020: Adequate

- Distribution:
 - Fire flow is deficient for commercial, school, Weke Road areas.
 - Oldest pipe installed in 1924
 - Remainder after 1962



System Overview: Wainiha-Haena

- Supply
 - 2000: Need new 100 gpm source
 - 2020: Adequate

- Storage
 - 2000: Construct new 0.2 MG tank & new 0.01 MG tank
 - 2020: Adequate

- Distribution:
 - Wainiha Valley is fire flow deficient.
 - Pipes installed in 1960 and later.

