

Kaaawa Flooding

Thursday, March 2, 2006

51-291 Kekio



- Photos taken before majority of flooding.
- Water level rose to above second step of porch.
- Flooding extends through neighboring lots to Kaaawa Elementary School.

Culvert South of Ohelokai



- Culvert overwhelmed on intake side of Kam Hwy.
- Excessive discharge velocities causing scouring on makai side of highway (beach park near comfort station site).

Highway Damming



- Photo looking mauka from Kaaawa Beach Park.
- Lack of culverts flooding numerous lots.

North Corner of Kaaawa Elementary School



- Fencing acting as dam, flow to culvert is impeded.
- Extensive flooding of school grounds and surrounding lots.

Box Culvert at North End of Kaaawa Elementary School



- Impeded Intake causing culvert to discharge below capacity.
- Inadequate surrounding structure undermining highway integrity.

Culvert North of Kaaawa Elementary School



- Culvert intake overwhelmed.
- Excessive velocities at single undersized discharge point scouring beach.



Flooded Home on Kam Hwy



- Located between elementary school and Pohuehue.
- Emergency pumping required to save structure.

Pohuehue Street

- Street located at toe of pali “apron” (talus slope at bottom of cliff complex).



Kekio and Pohuehue



- Water streaming down from upslope.
- Sheet flow across road creating standing waves.
- Last segment of frontage trench not yet filled is submerged with no drainage outlet.

Kekio Road



- Sheet flow onto road creating standing waves.
- Water channeled down Kekio towards low point at intersection of Kekio and Ohelokai.

Box Culvert at Kalae Oio Beach Park



- Functioning at full capacity.



Kaaawa Bridge



- Scour revealing old pier pilings.

