



STATE OF HAWAII
DEPARTMENT OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT
 Stream Protection and Management Branch

FIELD INVESTIGATION REPORT
FI2008102705 (East Maui, Huelo IIFS Site A)

Date of Field Investigation:	October 27, 2008	Time (24-hour):	1430 - 1600
CWRM Staff:	Ed Sakoda, Dean Uyeno, and Chui Ling Cheng		
Individuals Present:	Ernie Schupp (Huelo farmer)		
Hydrologic Unit:	Hanehoi (6037)		
Stream Name:	Puolua (Huelo) Stream		

Findings:

At approximately 1430 hours, CWRM staff arrived at Ernie Schupp's residence. CWRM staff prepared IIFS Site A on Puolua (Huelo) Stream for flow measurement. The entire flow measurement was completed in 23 minutes. Gage height readings were not recorded as a reference point was not established during the field investigation on October 23, 2008 (refer to Field Investigation Report FI2008102303 for more information). In addition to flow measurement, CWRM staff also recorded wind velocity, air temperature, water temperature and weather conditions. The weather was sunny with no rain. As computed back in the Honolulu Office, the flow at IIFS Site A was 0.047 cubic feet per second (0.030 million gallons per day).

CWRM staff took a volumetric measurement of the water flowing through the two 5.4-inch (O.D.) PVC pipes that bypasses Haiku Ditch on Puolua (Huelo) Stream. With a stopwatch, staff recorded the number of seconds each of the pipes took to fill a 2 gallon bucket. This process was repeated 5 times, making a total of 5 measurements per pipe. As computed back in the Honolulu Office, the flow from the pipes was 0.063 cubic feet per second (0.041 million gallons per day).

Back on the dirt road by Ernie Schupp's taro loi, CWRM staff mentioned to Garret Hew that staff would drop by a hardware store in Wailuku to pick up a cap for the PVC pipe on the concrete-reinforced masonry (CRM) wall of the gage pool at Honopou Stream IIFS Site B. Garret Hew said that he would check the EMI Office for a cap so that CWRM staff would not need to purchase one from the warehouse.

CWRM staff concluded the field investigation at 1600 hours.

Image Listing: (Attach PDF of image contact sheet)

<u>File Name:</u>	<u>Brief Description:</u>

GPS Listing:

Shapefiles: (List file names of all shapefiles created and a brief description of each)

<u>File Name:</u>	<u>Brief Description:</u>
East_Maui_POI.shp	Points of interest (POI) recorded with the GPS unit during the field visit. The file includes POI recorded from all the East Maui field investigations.

Waypoints: (List all waypoints in decimal degrees and provide a brief description of each)

<u>WP No.</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Brief Description:</u>
18	20.903285	-156.225661	Haiku Ditch on Huelo Stream
19	20.903252	-156.225375	IIFS Site A Measurement Site on Huelo Stream

Attachments:

- Brief Description:**
- Discharge Measurement and Gage Inspection Notes

Recommendations:

