



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

FIELD INVESTIGATION REPORT
FI2008111807 (East Maui, Honopou IIFS Site A)

Date of Field Investigation:	November 18, 2008	Time (24-hour):	1730 - 1800
CWRM Staff:	Ed Sakoda, Dean Uyeno, and Chui Ling Cheng		
Individuals Present:	Skippy Hau (DAR)		
Hydrologic Unit:	Honopou (6034)		
Stream Name:	Honopou Stream		

Findings:

At 1730 hours, CWRM staff and Skippy arrived at the Haiku Ditch diversion intake on Honopou Stream. Due to the high flows from the heavy rain*, debris had collected on the upstream side of the berm that EMI constructed on Oct. 27, 2008 (refer to FI2008102703 for more information). The berm did not wash downstream. Water was flowing over the berm and Haiku Ditch. The water level at the ditch was higher than the opening of the control gate at the right bank of the stream. Backflow of water from the control gate was apparent.

CWRM staff drove down Honopou Road to IIFS Site A on Honopou stream. Flow velocities in Honopou Stream were too high for taking flow measurements. Water flowed pass the CRM wall of the gage pool. The reference point was no longer visible.

Staff concluded the field visit at 1800 hours.

*Heavy rain fell on East Maui on the morning of Nov. 18. USGS rain gage (Station 204916156083701) in West Wailuaiki near Keanae recorded 1.8 inches of rain on Nov 18, and 0.82 inches on Nov. 19. Most of the rain fell on the early morning of Nov. 18, between 12AM and 3:30AM. The nearest USGS active streamgage with real-time data is located on West Wailuaiki Stream (Station 16518000). At approximately 12:00AM on Nov. 18, discharge in West Wailuaiki Stream began to increase from 2.7CFS to a peak flow of 2,010 CFS at 9:45AM. By Nov. 26, streamflow returned to 3.7 CFS. Refer to FI2008111801 (East Maui, Palauhulu, high flow) for real-time rainfall and discharge graphs.

Image Listing: (Attach PDF of image contact sheet)

File Name:	Brief Description:
20081118126	Haiku Ditch diversion intake on Honopou Stream.
20081118127	Haiku Ditch diversion intake on Honopou Stream.
20081118128	Honopou Stream downstream from Haiku Ditch.
20081118130	Haiku Ditch east of the control gate and Honopou Road.
20081118134	Control gate at the Haiku Ditch diversion intake on Honopou Stream.
20081118136	Gage pool of IIFS Site A on Honopou Stream.
20081118137	Honopou Stream downstream of the bridge that crosses Honopou Road.
20081118139	Gage pool and reference point of IIFS Site A on Honopou Stream.

GPS Listing:

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

File Name:	Brief Description:
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)

WP No.	Latitude	Longitude	Brief Description:
6	20.916212	-156.245203	Bridge on Honopou Stream
7	20.916187	-156.245174	IIFS Site A Reference Point on Honopou Stream
8	20.916096	-156.245077	IIFS Site A Flow Measurement on Honopou Stream

Attachments:

Brief Description:

1. Image Contact Sheet

Recommendations:

IMAGE CONTACT SHEET



20081118126.JPG



20081118127.JPG



20081118128.JPG



20081118130.JPG



20081118134.JPG



20081118136.JPG



20081118137.JPG



20081118139.JPG