



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

**FIELD INVESTIGATION REPORT**  
**FI2008111903 (East Maui, Wailuanui, high flow)**

<b>Date of Field Investigation:</b> November 19, 2008		<b>Time (24-hour):</b> 1210 - 1220	
<b>CWRM Staff:</b> Ed Sakoda, Dean Uyeno, and Chui Ling Cheng			
<b>Individuals Present:</b> Skippy Hau (DAR)			
<b>Hydrologic Unit:</b> Wailuanui (6056)			
<b>Stream Name:</b> Wailuanui Stream			
<b>Findings:</b>			
<p>At 1210 hours, CWRM staff and Skippy arrived at the Hana Highway bridge that crosses Wailuanui Stream. CWRM staff observed Wailuanui Stream from the bridge and determined the flow velocities to be too high* for taking measurements.</p> <p>Staff left Wailuanui at 1220 hours, and drove to Hanehoi to measure discharge in Huelo Stream. Refer to Field Investigation Report FI2008111904 (East Maui, Huelo IIFS Site A) for more information.</p> <p>*Heavy rain fell on East Maui on the early 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.</p>			
<b>Image Listing:</b> (Attach PDF of image contact sheet)			
<b>File Name:</b>	<b>Brief Description:</b>		
20081119059	Cascading waterfall on Wailuanui Stream, upstream from Hana Highway.		
20081119060	Wailuanui Stream downstream from the cascading waterfall but upstream from Hana Highway.		
20081119061	Wailuanui Stream downstream from Hana Highway.		
<b>GPS Listing:</b>			
<b>Shapefiles:</b> (List file names of all shapefiles created and a brief description of each)			
<b>File Name:</b>	<b>Brief Description:</b>		
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.		
<b>Waypoints:</b> (List all waypoints in decimal degrees and provide a brief description of each)			
<b>WP No.</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Brief Description:</b>
0	20.832394	-156.138458	IIFS Site Flow Measurement on Wailuanui Stream
4	20.833606	-156.13696	Parking area near IIFS Site on Wailuanui Stream
<b>Attachments:</b>			
<b>Brief Description:</b>			
1. Image Contact Sheet			
<b>Recommendations:</b>			

**IMAGE CONTACT SHEET**



**20081119059.JPG**



**20081119060.JPG**



**20081119061.JPG**