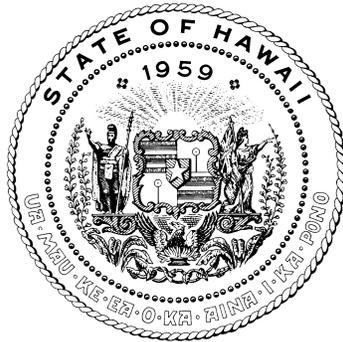


**REPORT TO THE TWENTY- FOURTH LEGISLATURE**

**REGULAR SESSION OF 2008**

**RELATING TO PUBLIC LAND LIABILITY**



**Prepared by**

**THE STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
DIVISION OF FORESTRY AND WILDLIFE  
Na Ala Hele Trail and Access Program**

**In response to Section 4 of Act 82, Session Laws of Hawaii 2003 –**

**Honolulu, Hawaii  
November 2007**

**REPORT TO THE TWENTY- FOURTH LEGISLATURE  
REGULAR SESSION OF 2008  
RELATING TO PUBLIC LAND LIABILITY**

**Purpose**

This report is in response to Section 4 of Act 82, Session Laws of Hawaii (SLH) 2003. Act 82, SLH 2003 established a risk assessment working group comprised of both state and county officials, and a person knowledgeable in signs, and that a report be submitted with recommendations and of the consultation provided to the Board of Land and Natural Resources (Board), including a list of warning signs, devices, and systems on improved and unimproved public lands subsequently approved or disapproved by the Board, to the Legislature.

**Background Information**

- The members of the Risk Assessment Working Group (RAWG) (Appendix 1) reviewed ocean safety signs established through Act 190, SLH 1996, as well the most current warning sign standards from the American National Standards Institute. Using the current ANSI guidelines, RAWG designed safety signs to address the following priority natural hazards: flash floods, falling rocks, hazardous cliffs, submerged hazards as well as ancillary uniform management signs (end of trail, end of road, area closed). (See Attachment 1)
- In 2004, five public informational meetings were conducted statewide to solicit input on the proposed design of the signs. Comments were received and a few specific aspects related to sign design were revised accordingly.
- In 2004, the Department of Land and Natural Resources (the Department) completed the first draft of the proposed Hawaii Administrative Rules (HAR) for the Design and Placement of Warning Signs on Improved Public Lands mandated by Act 82, SLH 2003.
- In February of 2005, the Board approved the draft HAR and the release of the draft document for public hearings.
- In May 2005, Governor Lingle approved the proposed HAR for public hearing.
- On August 23, 2005, the Department conducted a public hearing at the Kalanimoku Building, Oahu. Oral and written comments were received from the public and minor revisions proposed - there were no substantive changes requested by the public.
- On November 18, 2005, the Board approved the staff's revision based upon public hearing comments and recommended approval of the proposed Chapter 13-8, HAR, to the Governor.

- On January 6, 2006, the draft HAR were approved as to form by the Department of the Attorney General.
- On January 23, 2006, the Governor approved the proposed HAR and the finalized rule was filed on February 4, 2006.
- On February 9, 2007, the Board approved the design of the warning and ancillary management signs (**Exhibit 1**) as required by rules.
- On February 23, 2007, the Board approved the placement of signs at Manoa Falls Trail on Oahu and at Kealahou State Historical Park on the Island of Hawaii. (**Exhibit 2**)
- On August 10, 2007, the Board approved the placement of signs at Makena Beach State Park, Maui, and at Diamond Head and Kuilei Cliffs County Beach Parks on Oahu.
- A sign installation and inspection sheet has been prepared for use by the Department's staff for the installation and subsequent inspection of the respective signage. (**Exhibit 3**)
- September 2007, the Department's Division of State Parks prepared the sign specification based on the approved images and process for sign production, appurtenant hardware and distribution based on a \$50,000 Capitol Improvement Program appropriation.

### Recommendations

1. Process Board approval of placement of additional warning signs on any trails and Parks as dangerous natural conditions are discovered.
2. Pursue funding for requisition and installation of additional warning and informational signs.

## Entrance Hazard Sign Codes



**WFRE**



**WHCE**



**WFFE**



**DNDE**

## Site-Specific Hazard Sign Codes



**WFRS**



**WHCS**



**WFFS**



**DFRS**



**DNDS**



**DFFS**

# Site-Specific Management Sign Codes



**NETS**



**NERS**



**NACS**



**CEMS**

**Exhibit 2**

**DLNR Division: DOFAW    Island: Oahu    Trail Name: Manoa Falls**

**Exposure to natural conditions:** Stream crossings, falling rocks

**Entrance hazard signs:**

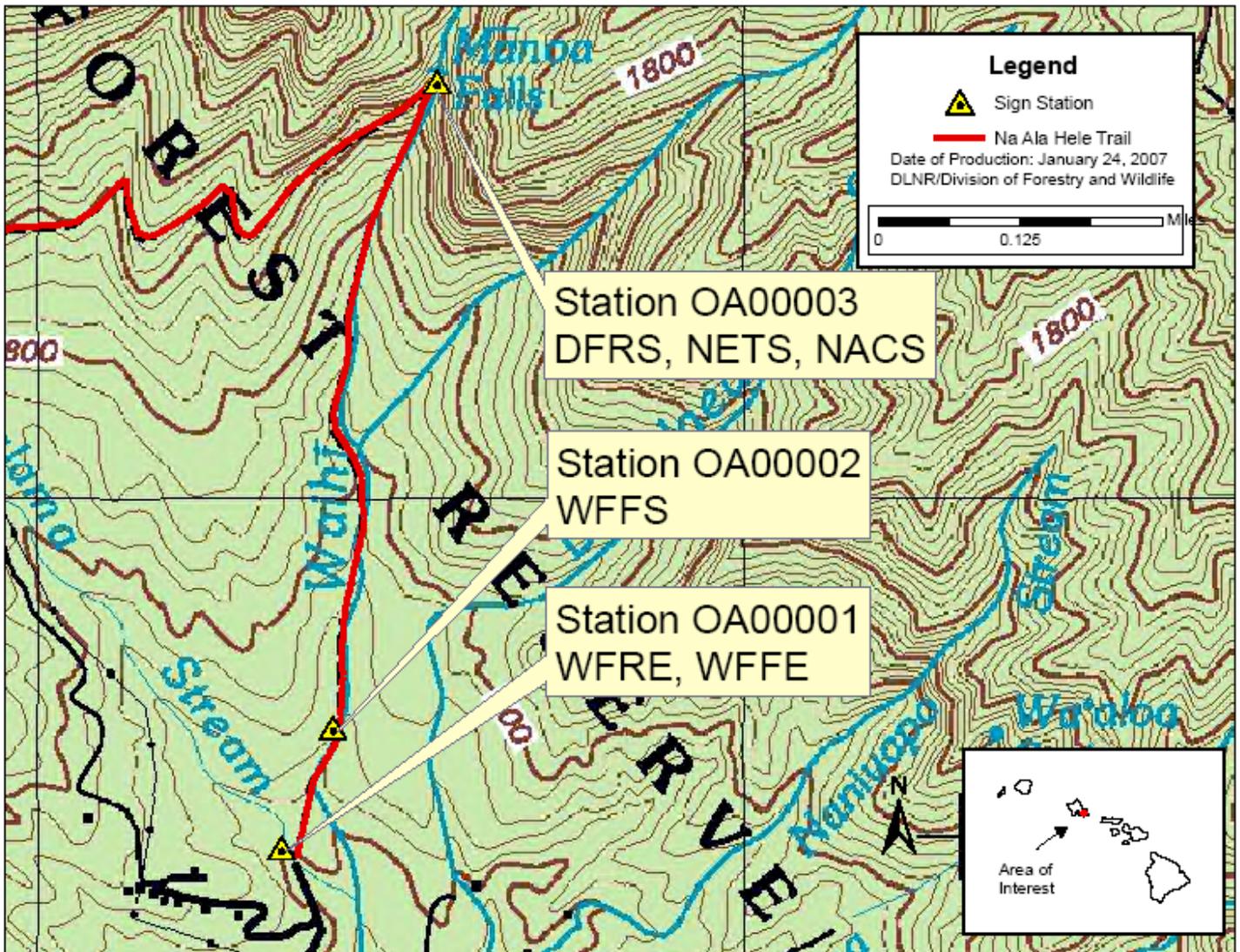
Station: OA00001      Warning - Falling Rocks      (WFRE)  
Warning - Flash Flood      (WFFE)

**Site-specific hazard signs:**

Station: OA00002      Warning - Flash Floods      (WFFS)  
Station: OA00003      Danger - Falling Rocks      (WFRS)

**Site-specific management signs:**

Station: OA00003      End of Trail      (NETS)  
Area Closed      (NACS)



**Exhibit 2**

**DLNR Division: State Parks**

**Island: Hawaii**

**Park: Kealakekua Bay  
State Historical Park**

Exposure to natural conditions: **Falling rocks**

**Entrance Hazard Signs:**

Station: HA00001

Warning-Falling Rocks

(WFRE)

**Site Specific Hazard Signs:**

Station: HA00002

Warning-Falling Rocks

(WFRS)

Station: HA00003

Warning-Falling Rocks

(WFRS)

Station: HA00004

Danger-Falling Rocks

(DFRS)

Station: HA00005

Danger-Falling Rocks

(DFRS)

Station: HA00006

Danger-Falling Rocks

(DFRS)

Station: HA00007

Danger-Falling Rocks

(DFRS)

Station: HA00008

Danger-Falling Rocks

(DFRS)

Station: HA00009

Danger-Falling Rocks

(DFRS)

Station: HA000010

Danger-Falling Rocks

(DFRS)

Station: HA000011

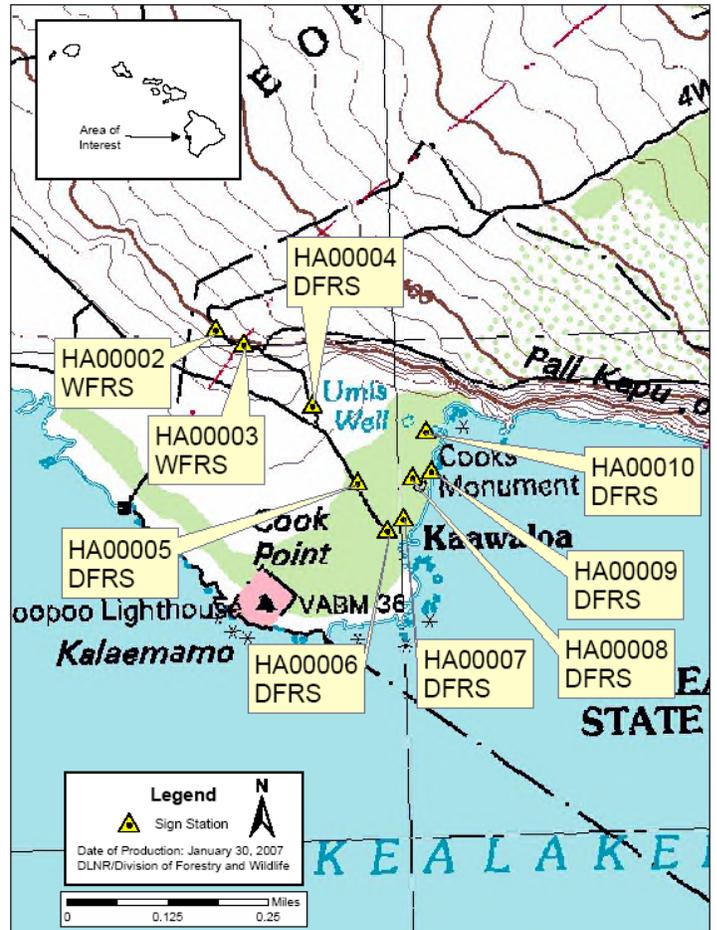
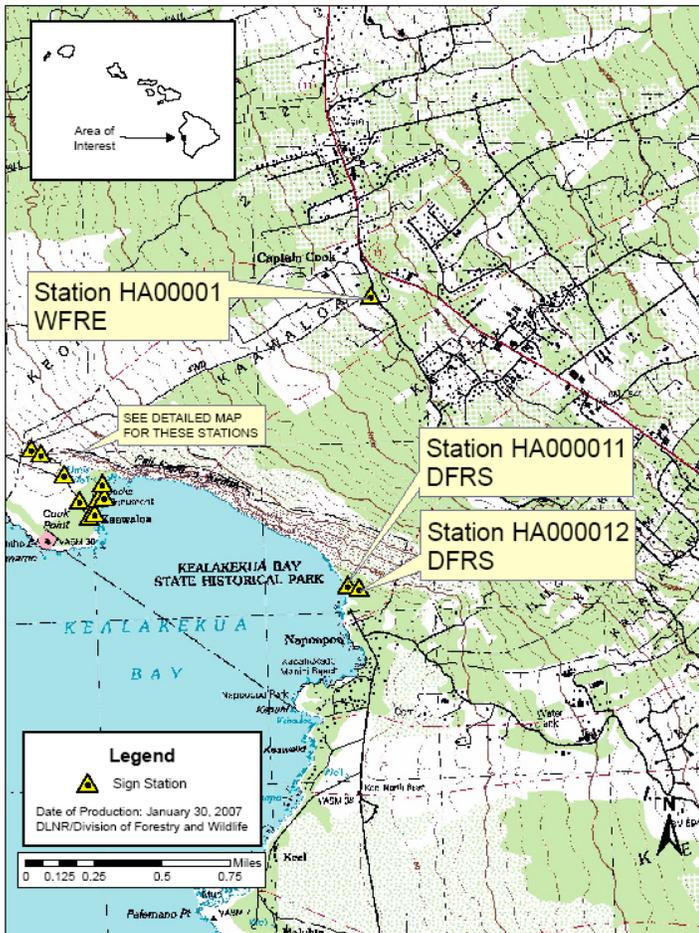
Danger-Falling Rocks

(DFRS)

Station: HA000012

Danger-Falling Rocks

(DFRS)



**Exhibit 3**

**Sign Installation and Inspection Sheet**

(Act 82 Warning and/or Management Signs)

**Island** \_\_\_\_\_ **Trail / Park** \_\_\_\_\_  
**Station #** \_\_\_\_\_ **Sign code** \_\_\_\_\_

**Exposure to dangerous natural condition:**

Falling rocks    Hazardous cliff    Submerged hazard    Flashflood

**Management Condition:**

Area closed    End of trail    End of maintained trail    End of road

BLNR approval date: \_\_\_\_\_

Initial installation date: \_\_\_\_\_

Inspection date: \_\_\_\_\_

Replacement date: \_\_\_\_\_

**Reason for sign replacement:**

Missing    Illegible    Other

**Comments:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Inspected / Replaced by: \_\_\_\_\_ Date: \_\_\_\_\_  
(Print Name)