

DAVID Y. IGE
GOVERNOR OF
HAWAII



SUZANNE D. CASE
CHAIRPERSON
BOARD OF LAND AND NATURAL RESOURCES
COMMISSION ON WATER RESOURCE MANAGEMENT

ROBERT K. MASUDA
FIRST DEPUTY

M. KALEO MANUEL
DEPUTY DIRECTOR - WATER

AQUATIC RESOURCES
BOATING AND OCEAN RECREATION
BUREAU OF CONVEYANCES
COMMISSION ON WATER RESOURCE MANAGEMENT
CONSERVATION AND COASTAL LANDS
CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

LAND USE COMMISSION
STATE OF HAWAII

STATE OF HAWAII 2019 MAR -8 A 11:45
DEPARTMENT OF LAND AND NATURAL RESOURCES
OFFICE OF CONSERVATION AND COASTAL LANDS
POST OFFICE BOX 621
HONOLULU, HAWAII 96809

REF:OCCL:TM

Correspondence: HA 19-127

Carlsmith Ball LLP
Attention: Derek B. Simon
1001 Bishop St., Suite 2100
Honolulu, HI 96813

MAR - 7 2019

SUBJECT: Early Consultation Request for the Preparation of a Draft Environmental Assessment (EA) for Property Located at Waikahekahe, Puna, TMK: (3) 1-5-059:059

Dear Mr. Simon:

The Office of Conservation and Coastal Lands (OCCL) has reviewed your information regarding the subject matter. According to your information, an Environmental Assessment is being prepared for the proposed reclassification of the subject parcel from the Conservation State Land Use District to the Agricultural State Land Use District and for a proposed residence.

The OCCL notes according to the Atlas of Natural Hazards in the Hawaiian Coastal Zone¹, the overall coastal hazard assessment of this area is high, as there are natural hazards that may affect this low-lying region. High waves consist generally of refracted north swell, trade-wind waves, and waves associated with approaching tropical cyclones. The storm hazard is high as the coast is exposed to both the tropical cyclone and Kona storm windows. Due to volcanic and the related seismic activity, this coast has been experiencing rapid long-term subsidence which enhances the rate of relative sea-level rise. The area is located in lava flow hazard zone 3 with zone 1 having the most severity on a scale of 1-9. Sea level rise is faster in this region than any other in Hawai'i due to subsidence and the area may experience seismicity associated with Kilauea volcano. **(Exhibit A)**

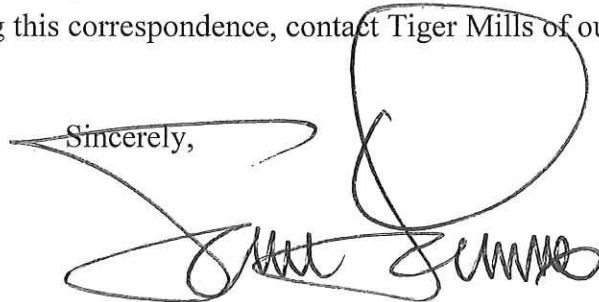
ALL proposed development along coastlines of Hawai'i should take climate change into consideration. The applicant should discuss potential impacts of climate change and how these impacts will be mitigated within the EA. The siting of the residence should be located as far mauka as practical from the certified shoreline and post on pier construction should be considered. You may wish to review the projected sea level rise exposure area on the Hawai'i Sea Level Rise Viewer at <http://www.pacioos.hawaii.edu/shoreline/slr-hawaii/>.

1 Fletcher, Grossman, Richmond & Gibbs. 2002. Atlas of Natural Hazards in the Hawaiian Coastal Zone. Department of the Interior, USGS.

Lateral shoreline access, subsistence fishing/gathering and indigenous religious contemplation/expression are traditional uses that take place along this coastline and are protected by the Hawai'i State Constitution and statute.

Should there be any questions regarding this correspondence, contact Tiger Mills of our Office at (808) 587-0382.

Sincerely,

A handwritten signature in black ink, appearing to read "Samuel J. Lemmo". The signature is written in a cursive style with a large, prominent loop at the end.

Samuel J. Lemmo, Administrator
Office of Conservation and Coastal Lands

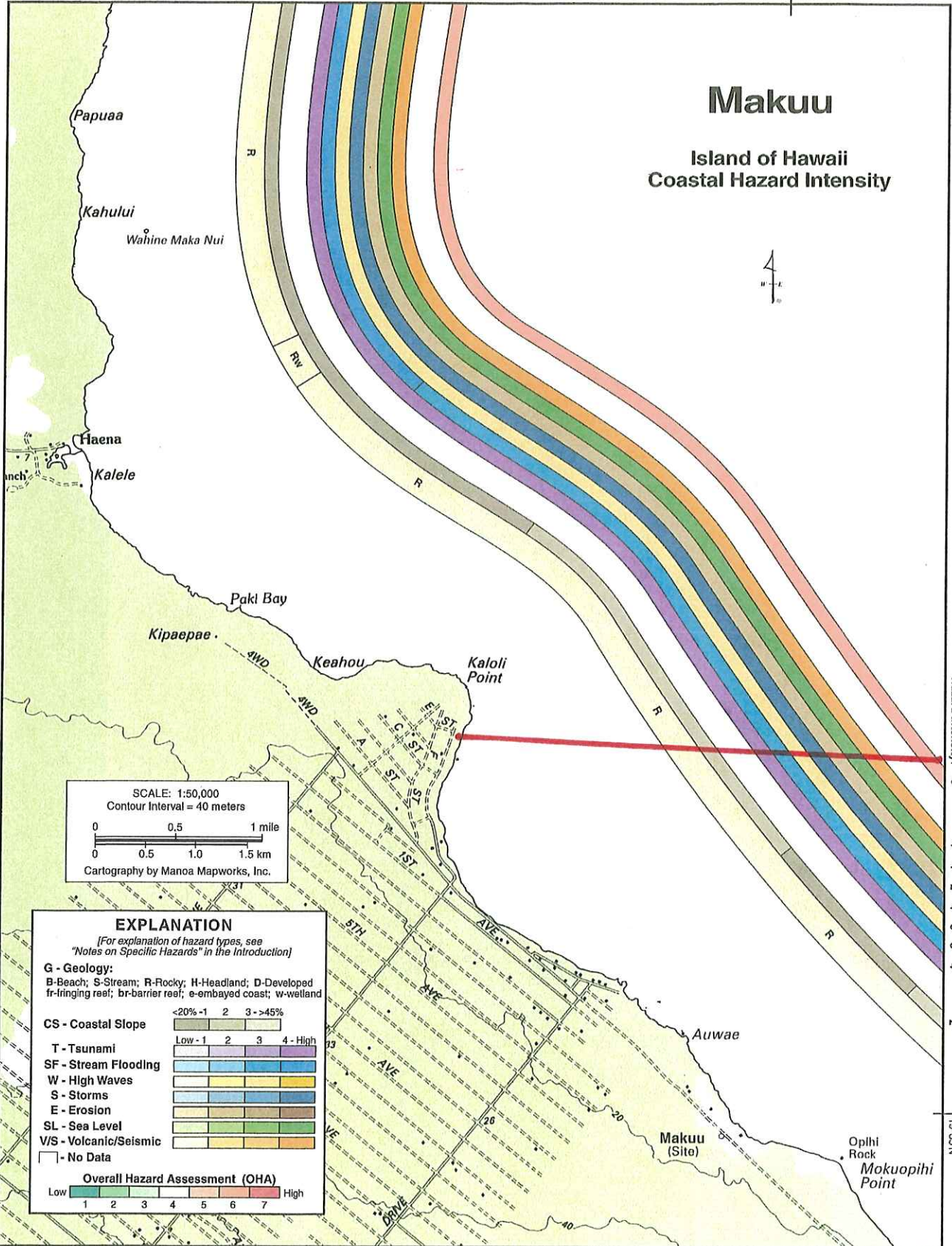
C: LUC
HDLO
County of Hawai'i
-Planning

Hazard Type: G CS T SF W S E SL V/S OHA

154°55'W

Makuu

Island of Hawaii Coastal Hazard Intensity



SCALE: 1:50,000
Contour Interval = 40 meters

0 0.5 1 mile
0 0.5 1.0 1.5 km

Cartography by Manoa Mapworks, Inc.

EXPLANATION
[For explanation of hazard types, see "Notes on Specific Hazards" in the Introduction]

G - Geology:
B-Beach; S-Stream; R-Rocky; H-Headland; D-Developed fringing reef; br-barrier reef; e-embayed coast; w-wetland

CS - Coastal Slope

<20%	1	2	3	>45%
Low	1	2	3	4 - High

T - Tsunami

SF - Stream Flooding

W - High Waves

S - Storms

E - Erosion

SL - Sea Level

V/S - Volcanic/Seismic

□ - No Data

Overall Hazard Assessment (OHA)

Low	1	2	3	4	5	6	7	High
-----	---	---	---	---	---	---	---	------

Base Credit: USGS 1:50,000 Hilo, Hawaii 5617 II W733 Edition 1-DMA and USGS 1:50,000 Pahoehoe, Hawaii 6016 IV W733 Edition 1-DMA