



GEOLABS, INC.

Geotechnical Engineering and Drilling Services

March 6, 2003
(Revised July 11, 2003)
W.O. 3917-20

Mr. Timothy E. Steinberger, P.E.
City & County of Honolulu
Department of Design & Construction
650 South King Street, 11th Floor
Honolulu, HI 96813

PROGRESS REPORT NO. 5
PHASE III – ADDITIONAL INSTRUMENT MONITORING
KUAHEA STREET AREA MOVEMENT
PROJECT NO. 97504
PALOLO, OAHU, HAWAII

Dear **Mr. Steinberger:**

This fifth progress report is presented to summarize our work efforts and the results of the additional field instrumentation monitoring conducted for the Kuahea Street Area Movement project located in Palolo Valley on the Island of Oahu, Hawaii. The approximate location of the project site is shown on the Project Location Map, Plate 1.

This report provides summary information pertaining to the recorded earth movements and subsurface water levels detected to-date during the Phase III instrument monitoring effort. Our work was performed in general accordance with our fee proposal dated February 4, 2002 and Amendment No. 2 for Engineering Services for the Kuahea Street Area Movement Project, Contract No. F-60578, CIP No. 97504.

This report is the first semi-annual progress report covering the additional 12-month instrument monitoring period, which commenced in August 2002. The end of the additional monitoring period is anticipated to expire in August 2003 at which time a second semi-annual progress report will be prepared. A draft of this progress report was issued in March 2003 for review and comment, and this progress report is the finalized version of the report based on review comments from City personnel.

PHASE II – ADDITIONAL FIELD EXPLORATION

Inclinometer No. I-1 experienced cumulative deformation that rendered the instrument non-functional following the last instrument record obtained on July 26, 2002. The failure of Inclinometer No. I-1 was previously anticipated; therefore two additional inclinometers (Inclinometer Nos. I-9 and I-10) were installed in August 2002 to replace the failed Inclinometer No. I-1. The approximate location of the replacement Inclinometer Nos. I-9 and I-10 is shown on the Instrument Location Plan, Plate 2.

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