



**GEOLABS, INC.**

*Geotechnical Engineering and Drilling Services*

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March 16, 2006  
W.O. 3917-40

**Mr. Eugene Lee**  
**c/o Mr. Grant Odo**  
**City & County of Honolulu**  
**Department of Design & Construction**  
650 South King Street, 11<sup>th</sup> Floor  
Honolulu, HI 96813

**PROGRESS REPORT NO. 9**  
**PHASE III – ADDITIONAL INSTRUMENT MONITORING**  
**KUAHEA STREET AREA MOVEMENT**  
**PROJECT NO. 97504**  
**PALOLO, OAHU, HAWAII**

Dear **Mr. Lee:**

This ninth 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. Our work was performed in general accordance with our fee proposal dated October 10, 2003 and Amendment No. 4 for Engineering Services for the Kuahea Street Area Movement Project, Contract No. F-60578, CIP No. 97504.

This progress report provides summary information pertaining to the installation of replacement instrumentation (Phase II – Additional Field Exploration) and the results of our monitoring of earth movements and subsurface water levels (Phase III - Instrument Monitoring). The report summarizes the field data and observations that were collected during three sets of site visits performed over a 6-month monitoring period. The first set of monitoring visits was performed on October 19 and November 3 and 4, 2004. The second set of monitoring visits was performed on December 28 and 29, 2004, and January 3, 2005. The third set of monitoring visits was performed on February 22 and 23, 2005.

This report is our first semi-annual progress report covering the additional twelve-month instrument-monitoring period, which commenced September 1, 2004 and expires August 31, 2005.

As mentioned in Progress Report No. 8, new instrumentation was installed and initialized between May and June 2004 to replace older instrumentation that has become