

# HYDRO GEO<sup>EXPLORATION</sup>

PROJECT:		FILE NO.:	
LOCATION:		REVISION:	
CAPACITY:		PREPARED BY:	
GENERATION:		DATE PREPARED:	

## INITIAL GEOLOGY ASSESSMENT SUMMARY

### I. TOPOGRAPHY

During the site inspection near the proposed structures, the area is consisting of rugged mountainous terrain with patches of gently sloping along or near riverbanks and along the foot of the mountains. Traces of landslides with circular and planar failure were visible. Generally, almost one fourth of the total area inspected has slopes greater than 18% and the remaining areas with grades more than 30%. Pine Trees, Melina and Alnos are the dominant vegetation. Fruit trees and agricultural crops such as rice, sayote, cabbage, guava, and camote also add up to the vegetative cover of the area inspected.

#### SLOPE:

Generally ranging from 40-80 degrees



#### GEO-HAZARD:

Landslide with circular mode of failure.

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### II. GENERAL SOIL PROFILE

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The results of the visual inspection on the area confirm the presence of two soil profiles namely; fine granular silty CLAY loam and coarse

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angular clayey GRAVEL. Medium to dark brown, yellowish red, medium to dark red are the dominant soil profile colors encountered on the area. Generally, the fine granular silty CLAY loam profile is sticky and slightly plastic when wet. The coarse angular clayey GRAVEL profile is loose, non-sticky and non-plastic when wet. This type of soil is subject to erosion hazard, thus, soil management is required to minimize erosion.



**SOIL DESCRIPTION:**  
coarse angular clayey GRAVEL



**SOIL DESCRIPTION:**  
fine granular silty CLAY loam

## III. GENERAL ROCK PROFILE

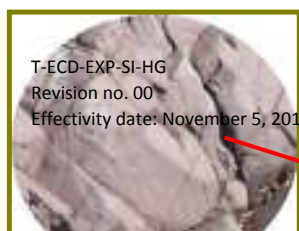
The results of the site inspection on the area confirm the presence of bedrock of volcanic rocks dominantly consisting of gray to dark gray intrusive rock composed principally of plagioclase feldspar, biotite and/or pyroxene generally referred to as DIORITE. The riverbeds are consisting of sandy GRAVEL and alluvium from igneous rocks consisting of andesite, basalts, volcanic breccias and agglomerates considered as cobbles and boulders in size.



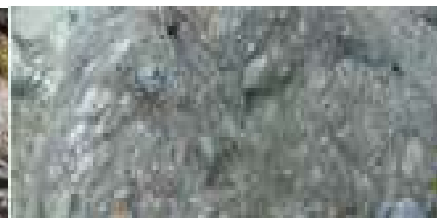
**ROCK DESCRIPTION:**  
ANDESITE



**ROCK DESCRIPTION:**  
DIORITE



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**ROCK DESCRIPTION:**  
BASALT



**ROCK DESCRIPTION:**  
AGGLOMERATE



**ROCK DESCRIPTION:**  
VOLCANIC BRECCIA



**RIVERBED DESCRIPTION:**  
sandy GRAVEL with alluvium of igneous rocks considered as cobbles and boulders in size.

☒ Date of Reconnaissance  
**October 27-30, 2010**

☐ Notes