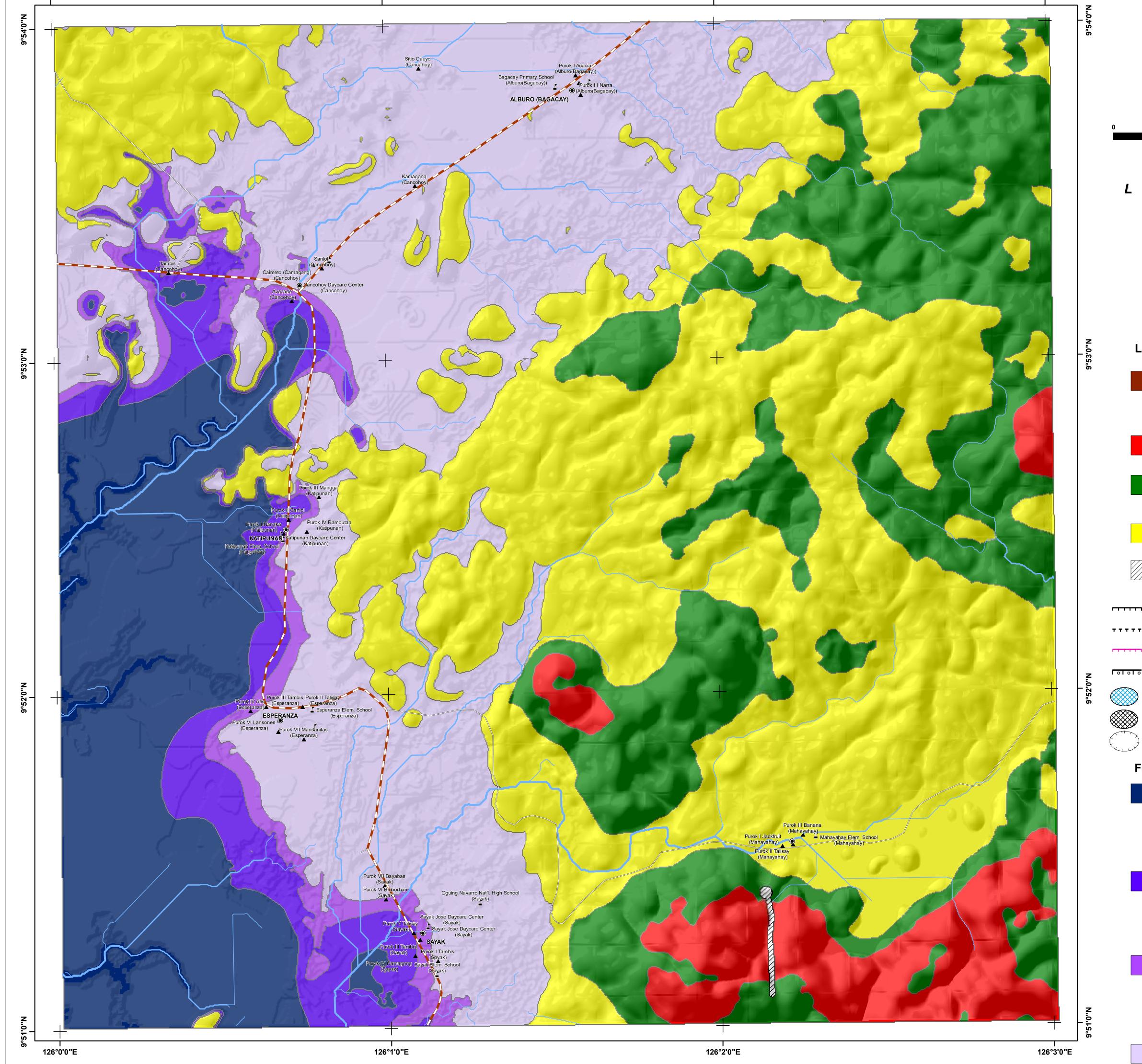


126°0'0"E

# DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF DEL CARMEN, PILAR AND SAN ISIDRO, **SURIGAO DEL NORTE, PHILIPPINES 4220-IV-11 BAGAKAY QUADRANGLE** 126°1'0"E 126°2'0"E





**DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES MINES AND GEOSCIENCES BUREAU** North Avenue, Diliman, Quezon City

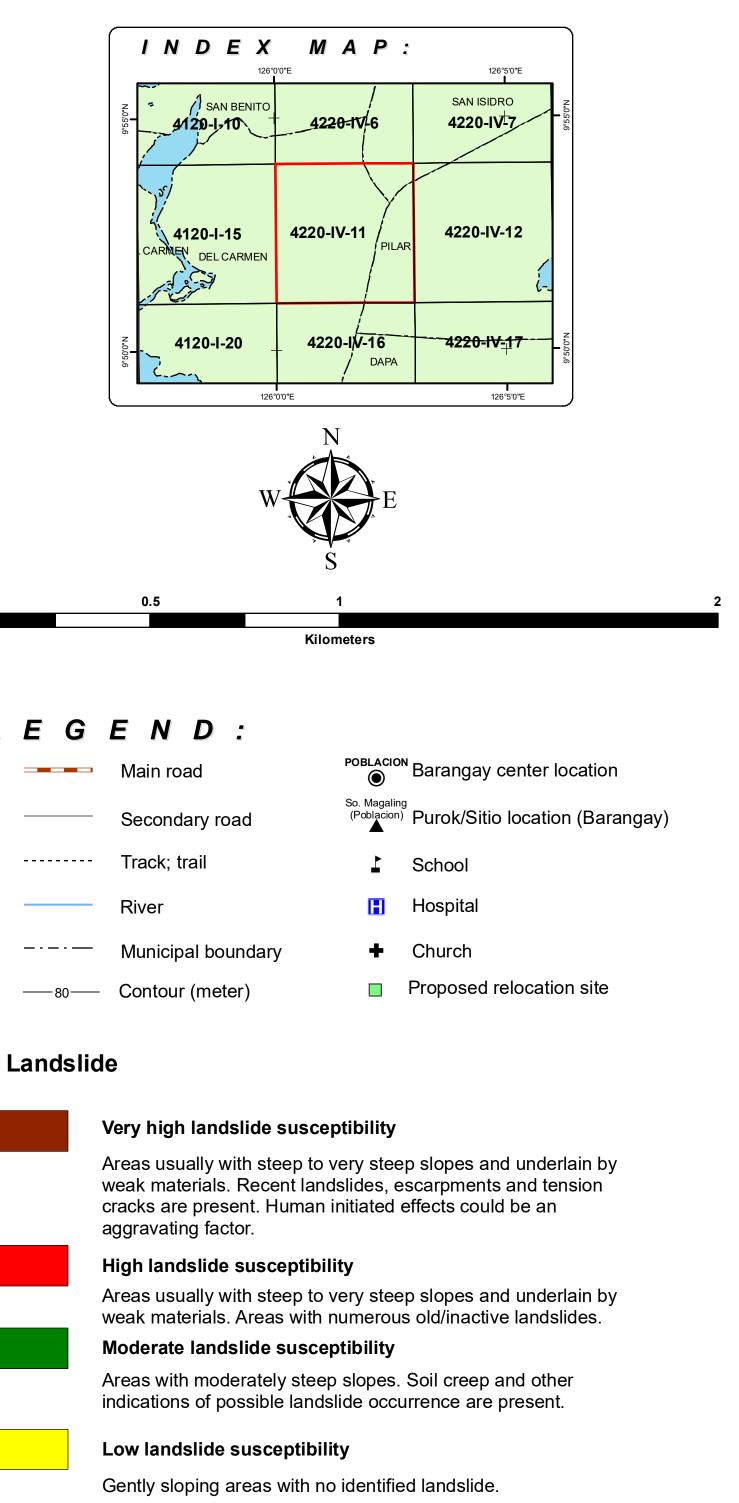
**Data Sources :** MGB Geohazard Assessment Team Lands Geological Survey Division Geosciences Division MGB Regional Office XIII National Mapping and Resource Information Authority

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### **Coordinate System :**

Spheroid :.... Clark 1866 Datum :..... Luzon 1911

Mapping scale 1:10,000



126°3'0"E

Debris flow / Possible accumulation zone Areas that could be affected by landslide debris.

- Active landslide
- -→-→→ Creep TTTT Inactive landslide Tension crack Landslide area with mitigating measure  $\rightarrow \rightarrow \rightarrow$  Gully **Fototo** Rock fall/Rock slide prone area Riverbank erosion
  - Old landslide deposits
  - Recent landslide deposits
  - Areas susceptible to ground subsidence/sinkhole development

## Flood

### Very high flood susceptibility

Areas likely to experience flood heights of greater than 2 meters and/or flood duration of more than 3 days. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and area along river banks; also prone to flashfloods.

### High flood susceptibility

Areas likely to experience flood heights of greater than 1 up to 2 meters and/or flood duration of more than 3 days. These areas are immediately flooded during heavy rains of several hours; include landforms of topographic lows such as active river channels, abandoned river channels and area along river banks; also prone to flashfloods.

#### Moderate flood susceptibility

Areas likely to experience flood heights of greater than 0.5m up to 1 meter and/or flood duration of 1 to 3 days. These areas are subject to widespread inundation during prolonged and extensive heavy rainfall or extreme weather condition. Fluvial terraces, alluvial fans, and infilled valleys are areas moderately subjected to flooding.

#### Low flood susceptibility

Areas likely to experience flood heights of 0.5 meter or less and/or flood duration of less than 1 day. These areas include low hills and gentle slopes. They also have sparse to moderate drainage density.

#### Direction of rising floodwater Direction of receding floodwater



 $\overset{1.2}{\otimes}$  Flood depth (meter)

Flashflood exit point