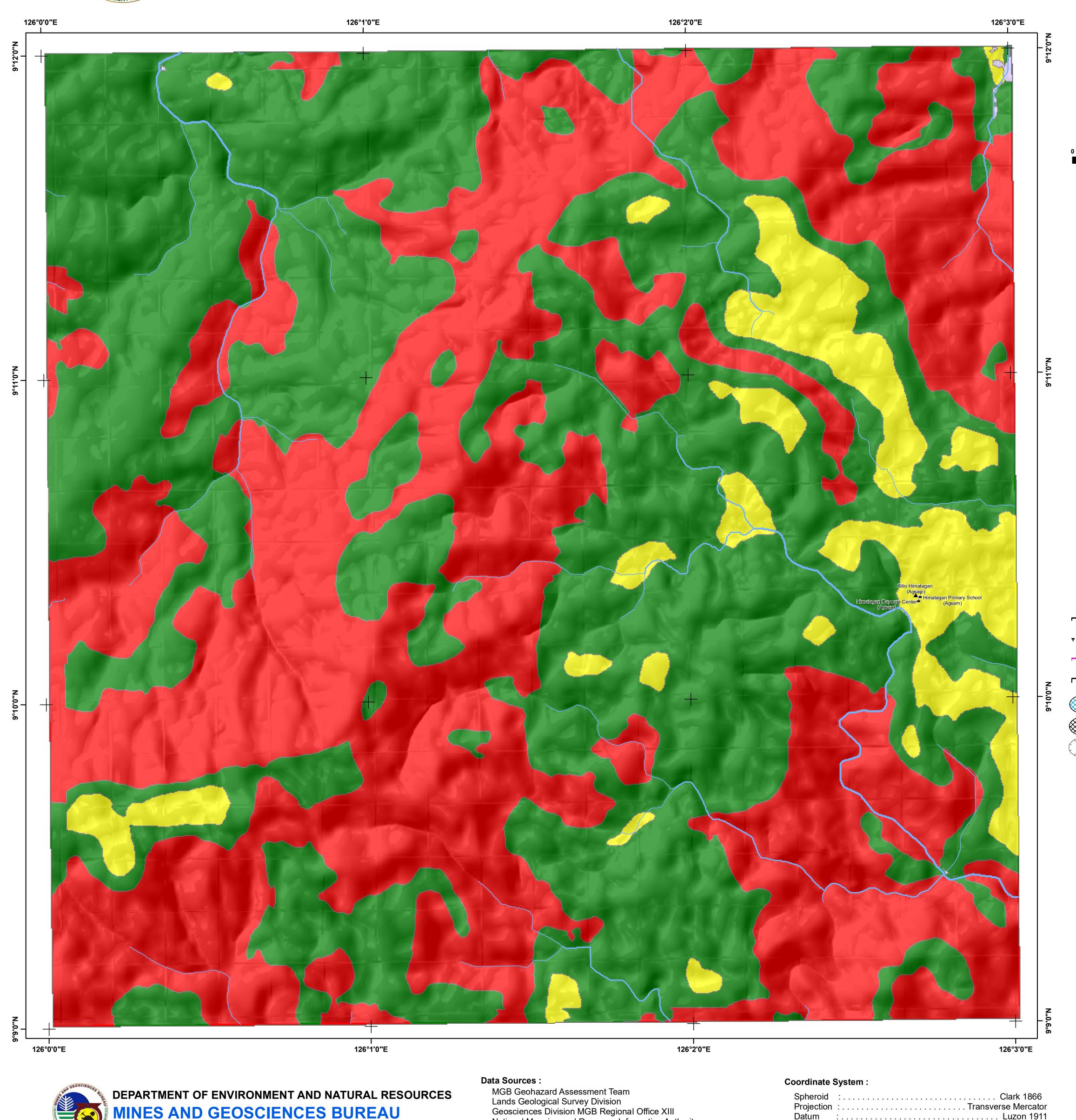
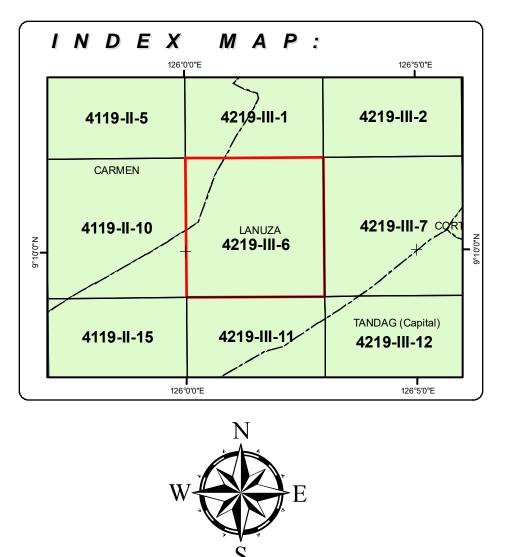


North Avenue, Diliman, Quezon City

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# DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF LANUZA AND CARMEN, SURIGAO DEL SUR, PHILIPPINES 4219-III-6 MAMPI QUADRANGLE







so. Magaling <sup>(Poblacion)</sup> Purok/Sitio location (Barangay) Track; trail

Proposed relocation site

#### Landslide

Very high landslide susceptibility Areas usually with steep to very steep slopes and underlain by

weak materials. Recent landslides, escarpments and tension cracks are present. Human initiated effects could be an aggravating factor.

High landslide susceptibility

Areas usually with steep to very steep slopes and underlain by weak materials. Areas with numerous old/inactive landslides. **Moderate landslide susceptibility** 

Areas with moderately steep slopes. Soil creep and other

indications of possible landslide occurrence are present.

Low landslide susceptibility

Gently sloping areas with no identified landslide.

**Debris flow / Possible accumulation zone** 

Areas that could be affected by landslide debris.

Active landslide -→->-> Creep TTTT Inactive landslide TTTT Tension crack Landslide area with mitigating measure  $\longrightarrow$  Gully

Riverbank erosion Rock fall/Rock slide prone area

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.

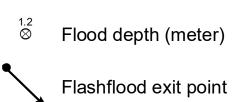
Moderate flood susceptibility

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



National Mapping and Resource Information Authority

**GIS Processing:** Lands Geological Survey Division Mapping scale 1:10,000

Datum :..... Luzon 1911