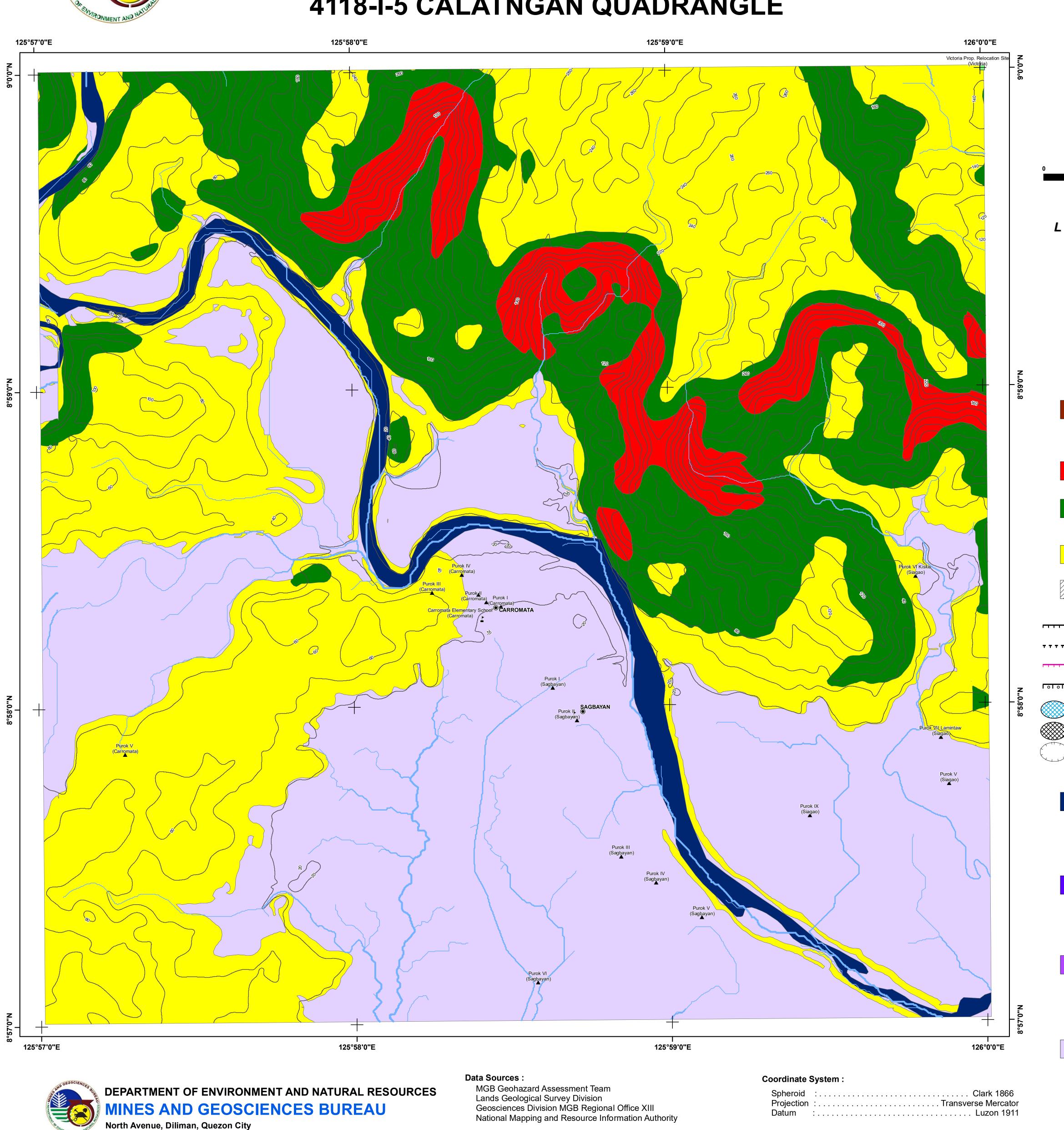


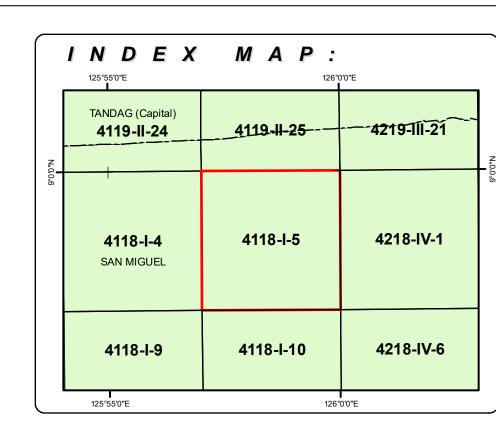
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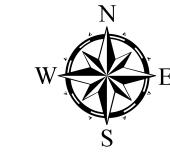
# DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF SAN MIGUEL, SURIGAO DEL SUR, PHILIPPINES 4118-I-5 CALATNGAN QUADRANGLE



**GIS Processing:** 

Lands Geological Survey Division





#### L E G E N D

Main road

Secondary road

Track; trail

River

Municipal boundary

Contour (meter)

Poblacion Barangay center location

So. Magaling (Poblacion)

Purok/Sitio location (Barangay)

L School

Hospital

Church

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 cree

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.

Greep → → → Creep

TTTT Inactive landslide

TTTT Tension crack

Landslide area with mitigating measure 
Gully

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

Mapping scale 1:10,000

1.2 ⊗ Flood depth (meter)

Flashflood exit point