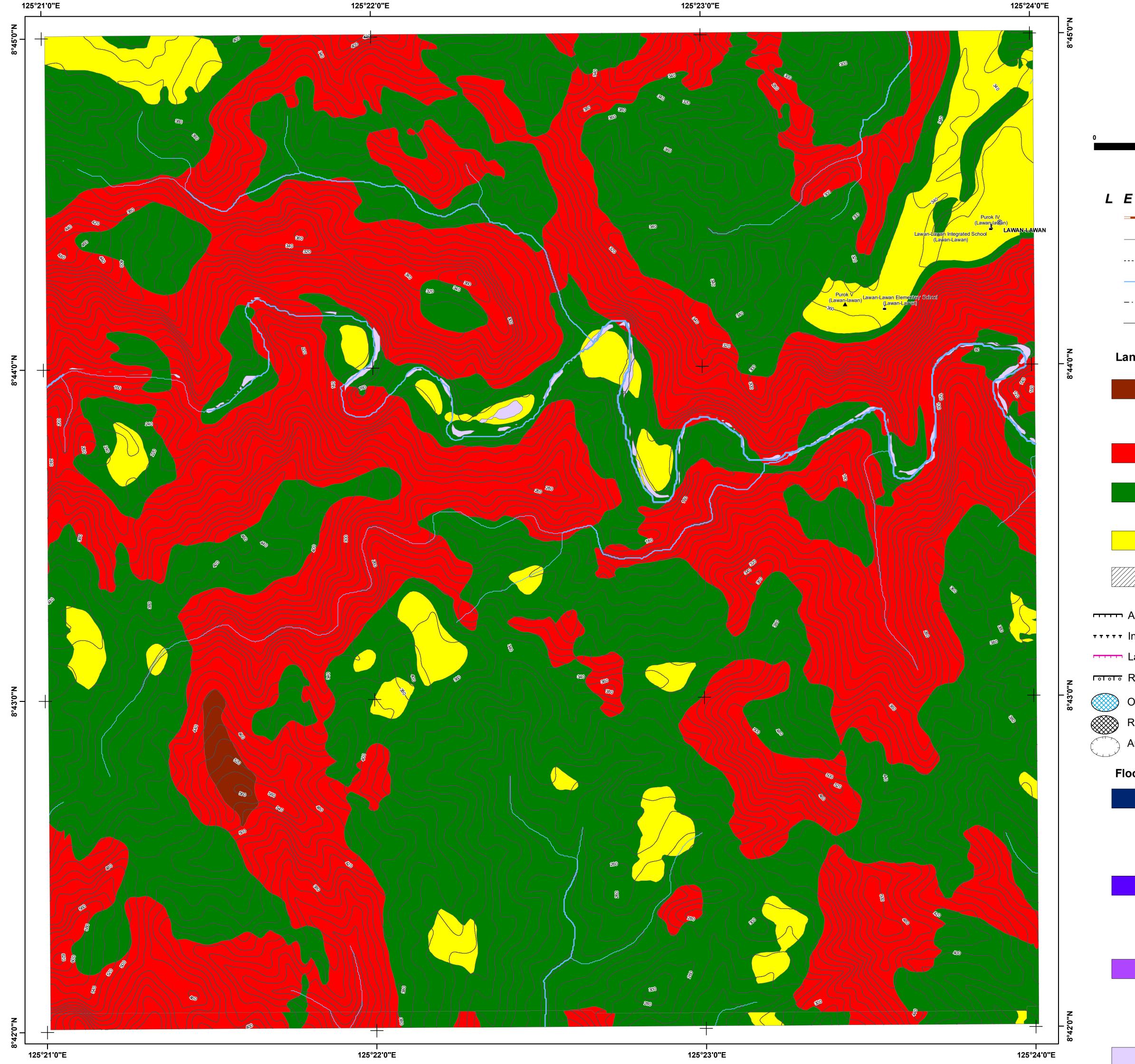


DETAILED LANDSLIDE AND FLOOD HAZARD MAP OF LAS NIEVES, AGUSAN DEL NORTE, PHILIPPINES **4018-II-3 DURIAN QUADRANGLE**





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

ALL RIGHTS RESERVED **PUBLISHED DECEMBER 2015**

Coordinate System :

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

Mapping scale 1:10,000

		INDEX	MAP	:		
		125°20'0"E				
		4018-I-22	4018-1-23	4018-I-2		
	8°45'0"N				8°45°0°N	
		4018-II-2 LAS NIEVES	4018-II-3	4018-II-⁄	4	
		4018-II-7	4018-II-8	4018-II-	9	
		125°20'0"E		125°25'0"E		
		0.5	N N S S Kilometers		2	
EG	E	ND:				
	M	ain road		Barangay c	enter location	
	Secondary road			So. Magaling (Poblacion) Purok/Sitio location (Barangay)		
	- Track; trail		1	L School		
	Ri	iver		Hospital		
	M	unicipal boundar	y +	Church		
— ₈₀ — Contour (meter) Proposed relocation site						
ndsli	ae					
	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					
7777	Gently sloping areas with no identified landslide.					
	Debris flow / Possible accumulation zone Areas that could be affected by landslide debris.					
A 11					0	
Active) }}	·	
		ndslide			Tension crack	
Landslide area with mitigating measure $\rightarrow \rightarrow \rightarrow$ Gully Rock fall/Rock slide prope area						
Rock fall/Rock slide prone area						
Old landslide deposits						
Recent landslide deposits						
Areas susceptible to ground subsidence/sinkhole development						
bod						
	Very	high flood suse	ceptibility			
	Areas likely to experience flood heights of greater than 2 meters and/or flood duration of more than 3 days.					
	Thes of se such	e areas are imm veral hours; inclu as active river cl area along river b	ediately flooded Ide landforms of nannels, abando	during heavy topographic oned river cha	y rains : lows annels	



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.



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