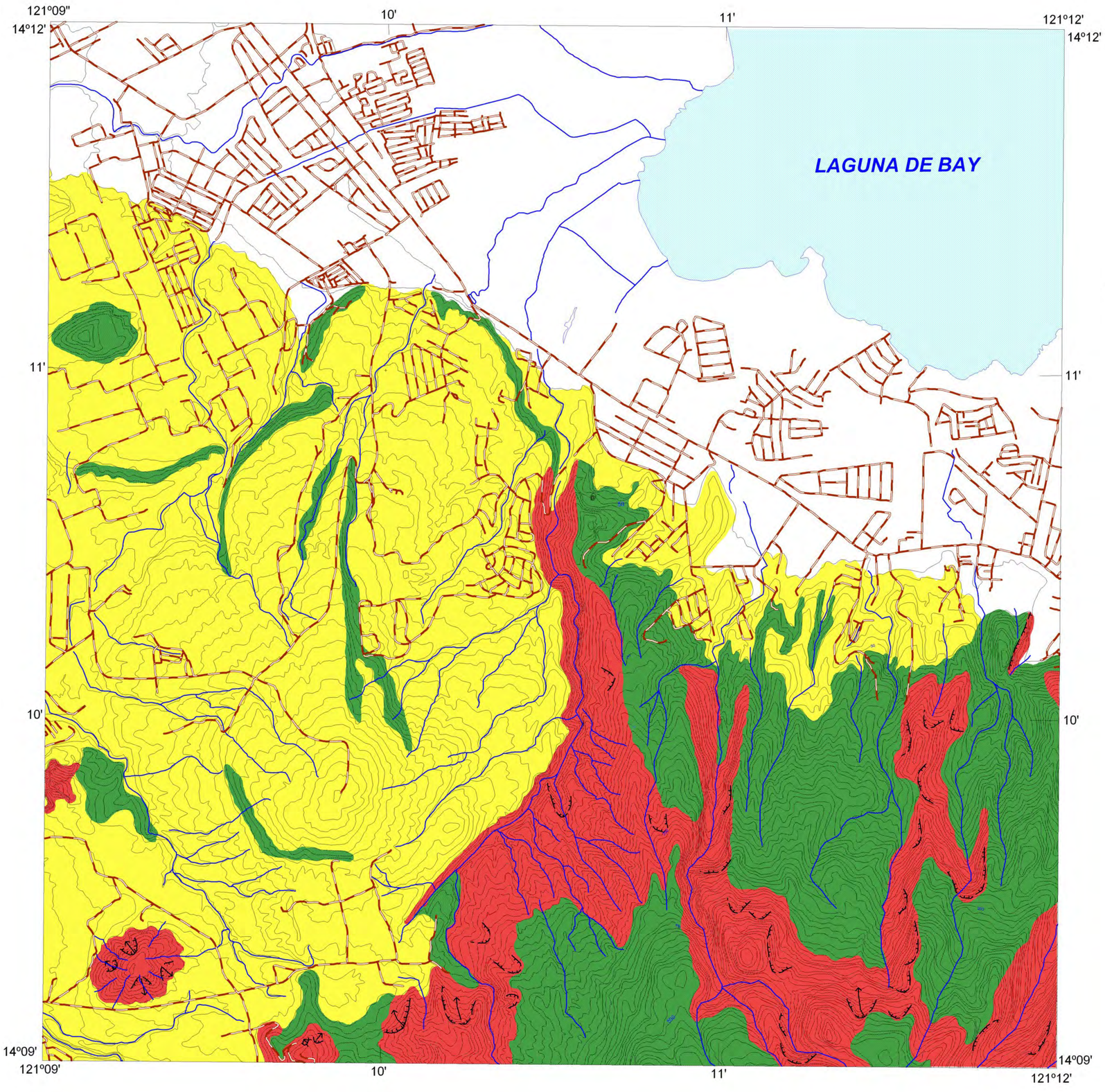
DETAILED LANDSLIDE HAZARD MAP OF CALAMBA, LAGUNA PROVINCE, PHILIPPINES



0 0.5 1
kilometers

UTM Zone 51 Clarke 1866 Luzon Datum

MAPPING SCALE 1 : 10,000

LEGEND :

High Landslide Susceptibility
Unstable areas. Highly susceptible to mass movements.

Moderate Landslide Susceptibility
Stable areas with occasional and localized mass movement.

Low Landslide Susceptibility
Stable areas with no identified landslide scars, either inactive or active.

Active landslide

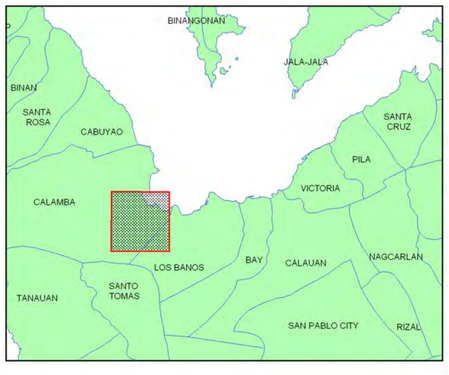
Escapment

River

Roads

Base Map :
1:10, 000 Topographic Map
"Calamba Quadrangle"

Index Map



DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION

CSCAND OCD NDCC NAMRIA PAGASA PHIVOLCS

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DETAILED LANDSLIDE HAZARD MAP OF LOS BAÑOS, LAGUNA PROVINCE, PHILIPPINES

0 0.5 1
kilometers

UTM Zone 51 Clarke 1866 Luzon Datum

MAPPING SCALE 1 : 10,000

LEGEND :

High Landslide Susceptibility
Unstable areas. Highly susceptible to mass movements.

Moderate Landslide Susceptibility
Stable areas with occasional and localized mass movement.

Low Landslide Susceptibility
Stable areas with no identified landslide scars, either inactive or active.

Possible Landslide Debris Accumulation Zone
Areas where landslide debris could accumulate.

Active landslide

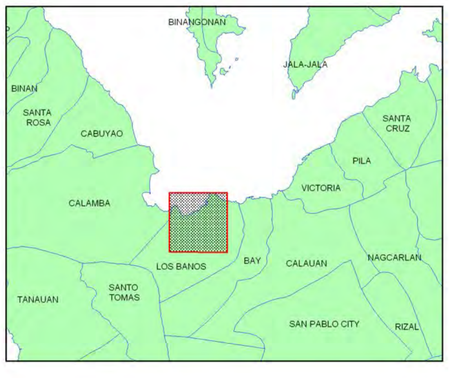
Escapment

River

Roads

Base Map :
1:10, 000 Topographic Map
"Los Baños Quadrangle"

Index Map



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LANDS GEOLOGICAL SURVEY DIVISION

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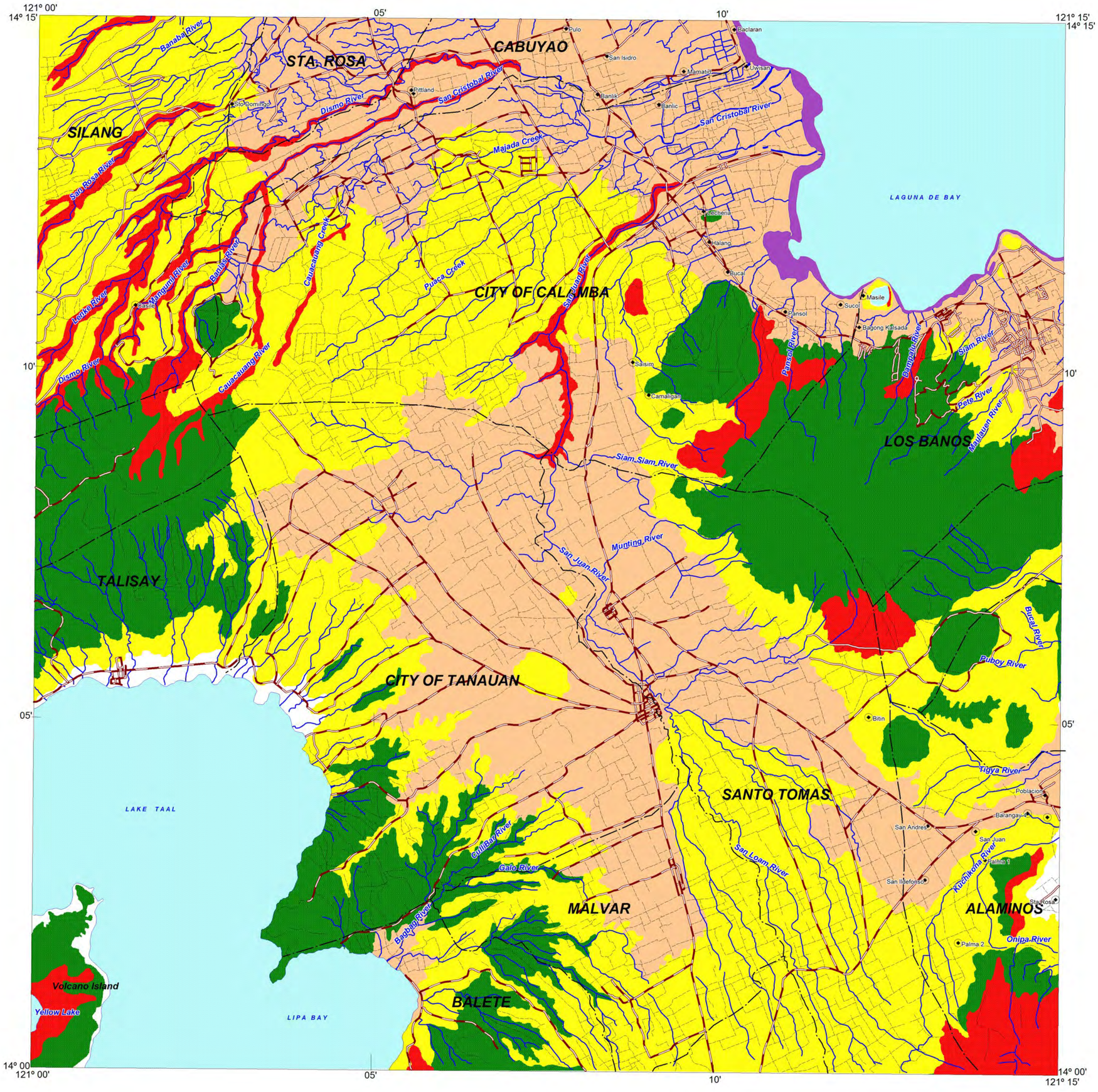
LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF CALAMBA QUADRANGLE
BATANGAS AND LAGUNA PROVINCES, PHILIPPINES



INDEX MAP

LEGEND :

High susceptibility to landslide
Areas with high landslide susceptibility rating have active/recent landslides and tension cracks that would directly affect the community. Those with steep slopes and drainages that are prone to landslide damming are also highly susceptible to landslides.

Moderate susceptibility to landslide
Areas with moderate landslide susceptibility rating have inactive/old landslides and tension cracks which are located away from the community. These areas usually have moderate slopes.

Low susceptibility to landslide
Areas with low to gentle slopes and lacking tension cracks have low landslide susceptibility rating.

High susceptibility to flooding
Areas with greater than 1 meter flood height. These areas are usually flooded for several hours during heavy rains; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.

Low to moderate susceptibility to flooding
Areas with less than 1.0 meter flood height. These are usually inundated during prolonged and extensive heavy rainfall or extreme weather condition

Main road
Secondary road
Trail
River
Municipal boundary
Barangay center location

N
W E
S

0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50, 000

GIS Processing :
Lands Geological Survey Division

Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO IV-A

Base Map :
Sheet No. 3229 III "Calamba Quadrangle"

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
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LANDS GEOLOGICAL SURVEY DIVISION

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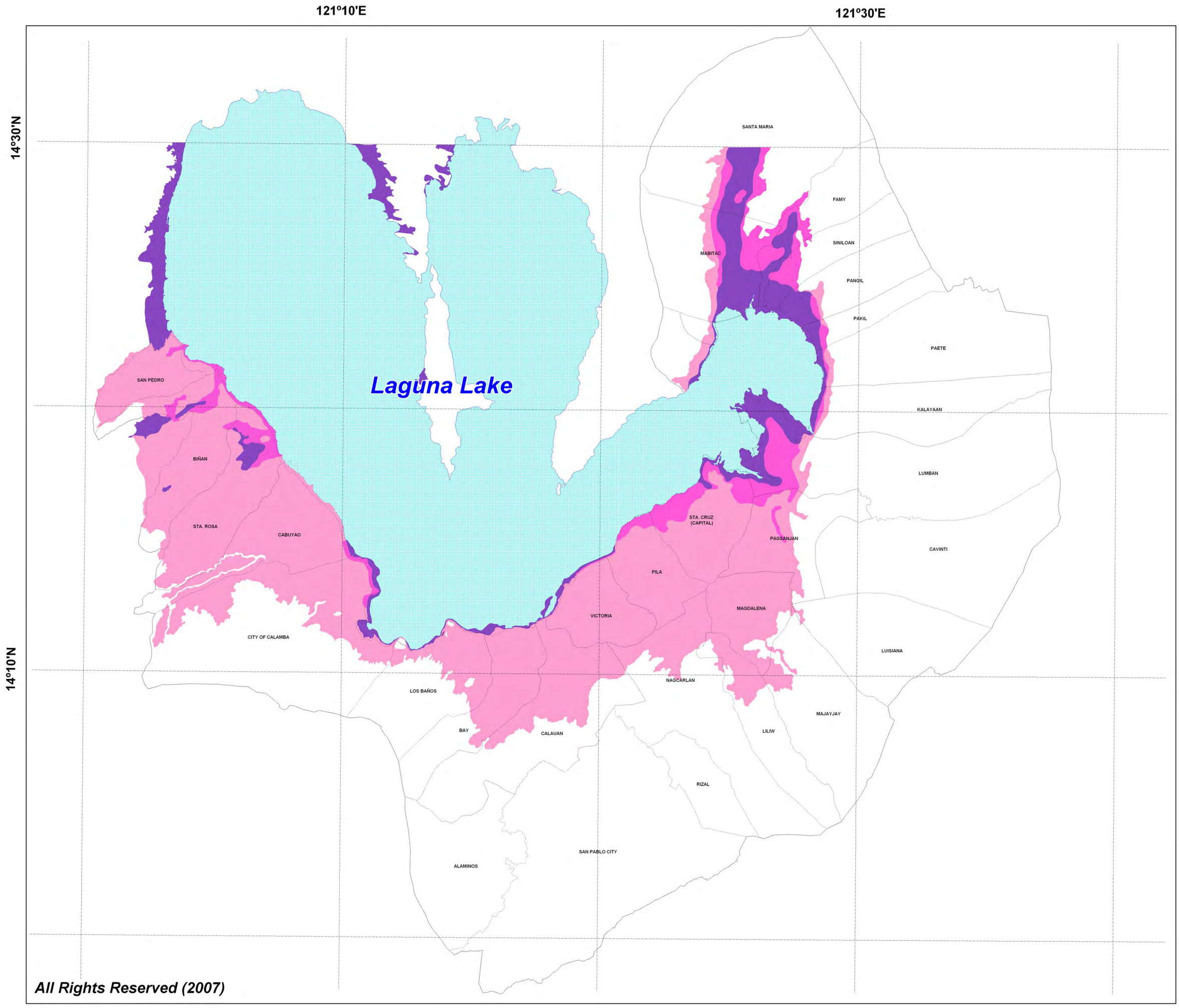
FLOOD HAZARD MAP OF LAGUNA PROVINCE



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Legend:

High susceptibility to flooding

Areas with greater than 1 meter flood height. These areas are immediately flooded during heavy rains for several hours; include landforms of topographic lows such as active river channels, abandoned river channels and areas along river banks; also prone to flashfloods.

Moderate susceptibility to flooding

Areas with 0.5 meter to 1.0 meter flood height which is subjected 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 susceptibility to flooding

Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.

N
W E
S

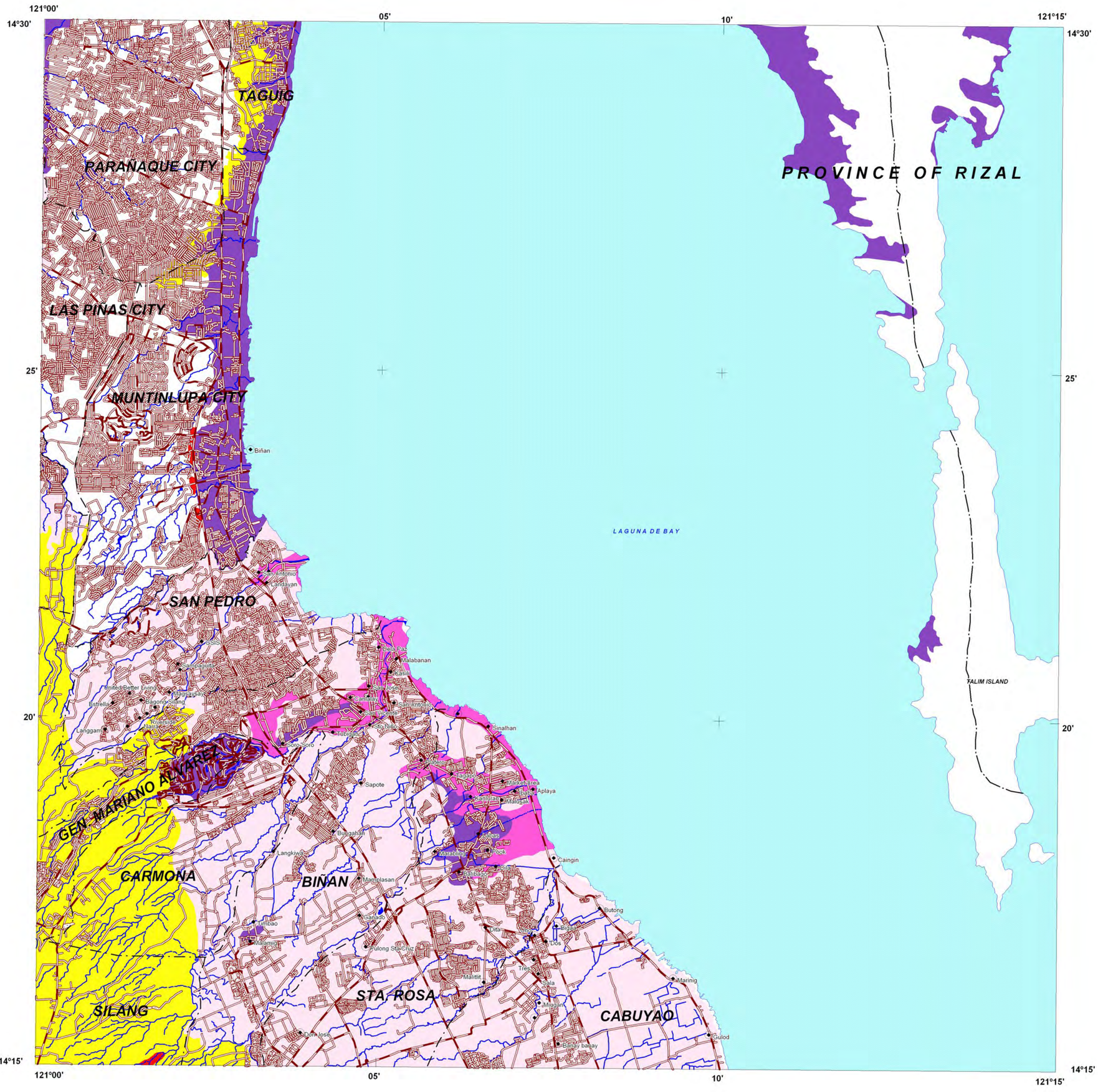
0 5 10
kilometers

TRANSVERSE MERCATOR PROJECTION

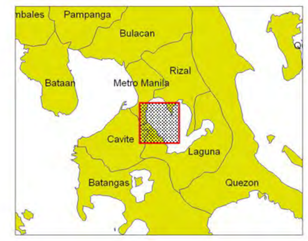
MAPPING SCALE 1:50, 000

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
MINES AND GEOSCIENCES BUREAU
Lands Geological Survey Division

LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF MUNTINLUPA QUADRANGLE, LAGUNA AND CAVITE PROVINCES, PHILIPPINES



INDEX MAP



LEGEND :

High susceptibility to landslide

Areas with high landslide susceptibility rating have active/recent landslides and tension cracks that would directly affect the community. Those with steep slopes and drainages that are prone to landslide damming are also highly susceptible to landslides.

Low susceptibility to landslide

High susceptibility to flooding

Areas with greater than 1 meter flood height. 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 areas along river banks; also prone to flashfloods.

Moderate susceptibility to flooding

Areas with 0.5 meter to 1.0 meter flood height which is subjected 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 susceptibility to flooding

Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.

Roads

River

Municipal boundary

Barangay center location

N
W E
S

0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION
MAPPING SCALE 1:50, 000

GIS Processing :
Lands Geological Survey Division

Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO IV-A

Base Map :
Sheet No. 7271-IV "Muntinlupa Quadrangle"

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MINES AND GEOSCIENCES BUREAU
LANDS GEOLOGICAL SURVEY DIVISION

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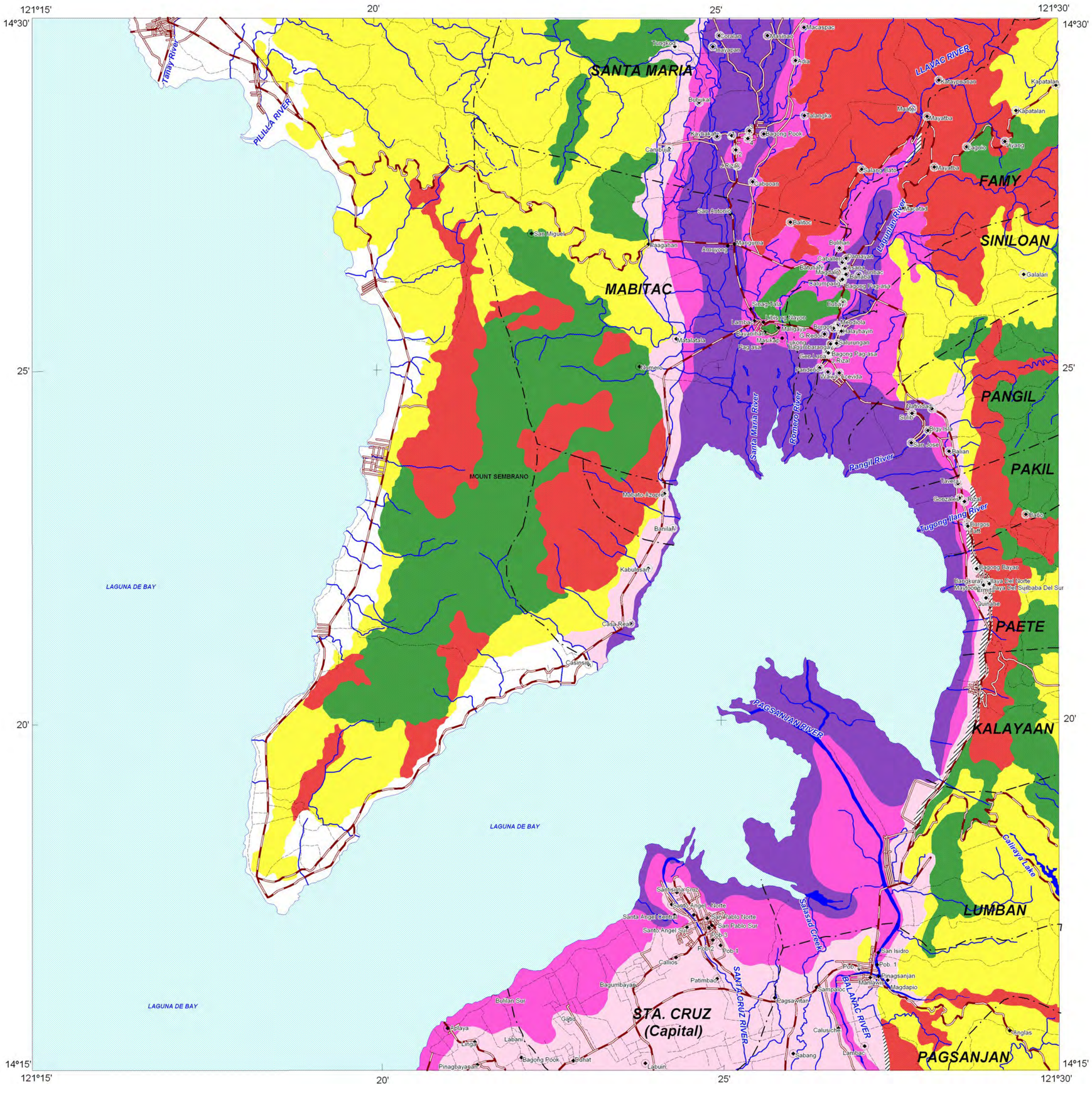
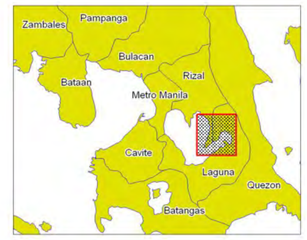
LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF PAETE QUADRANGLE,LAGUNA PROVINCE,PHILIPPINES



INDEX MAP



LEGEND :

High susceptibility to landslide

Areas with high landslide susceptibility rating have active/recent landslides and tension cracks that would directly affect the community. Those with steep slopes and drainages that are prone to landslide damming are also highly susceptible to landslides.

Moderate susceptibility to landslide

Areas with moderate landslide susceptibility rating have inactive/old landslides and tension cracks which are located away from the community. These areas usually have moderate slopes.

Low susceptibility to landslide

Areas with low to gentle slopes and lacking tension cracks have low landslide susceptibility rating.

Possible Landslide Debris Accumulation Zone

These are areas where landslide debris could accumulate.

High susceptibility to flooding

Areas with greater than 1 meter flood height. 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 areas along river banks; also prone to flashfloods.

Moderate susceptibility to flooding

Areas with 0.5 meter to 1.0 meter flood height which is subjected 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 susceptibility to flooding

Areas with 0 to 0.5 meter flood height such as low hills and gentle slopes. They also have sparse to moderate drainage density.

Roads

River

Municipal boundary

Barangay center location

N
W E
S

0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION

MAPPING SCALE 1:50, 000

GIS Processing :
Lands Geological Survey Division

Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO IV-A

Base Map :
Sheet No. 7271-I "Paete Quadrangle"

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
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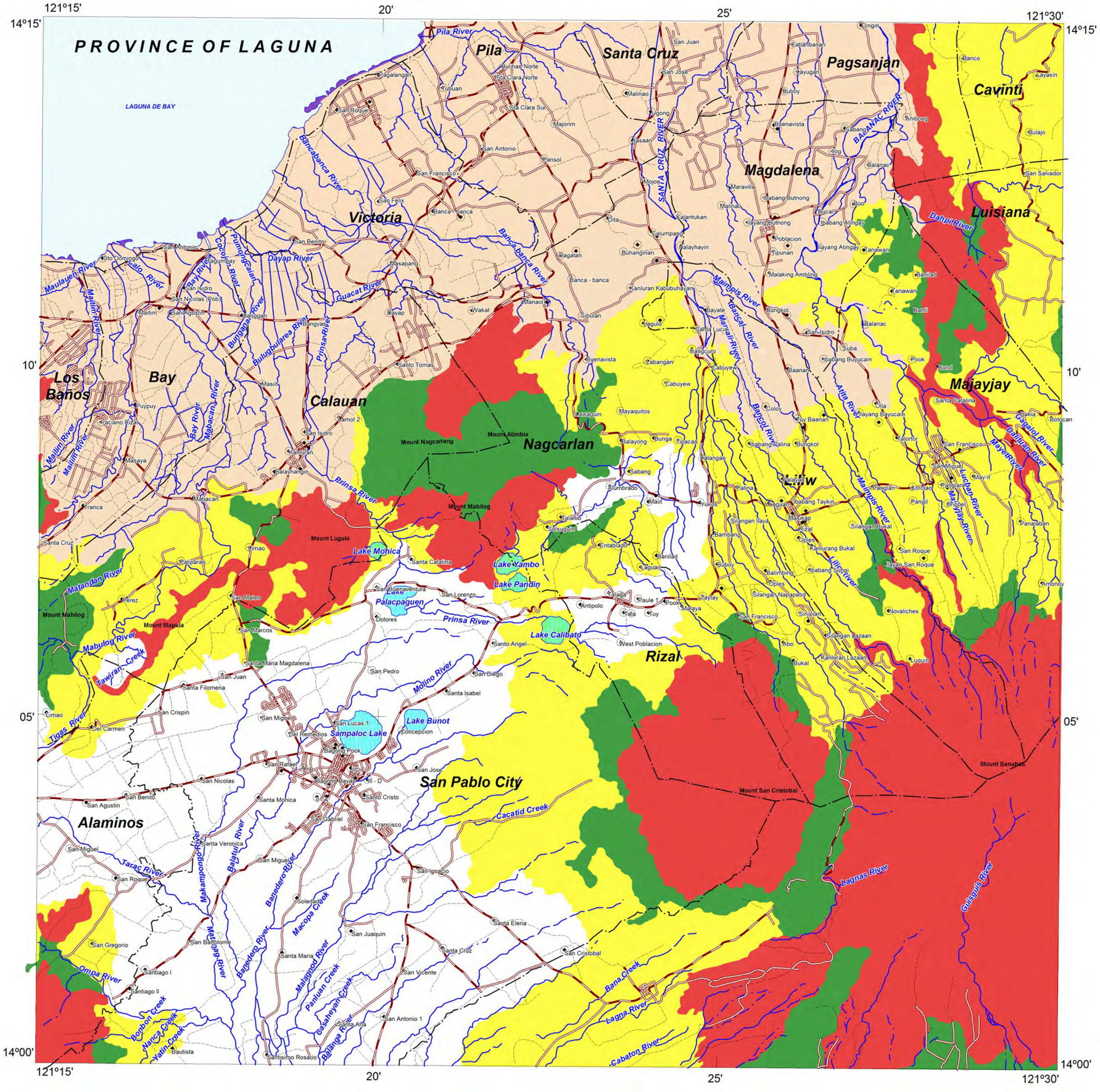
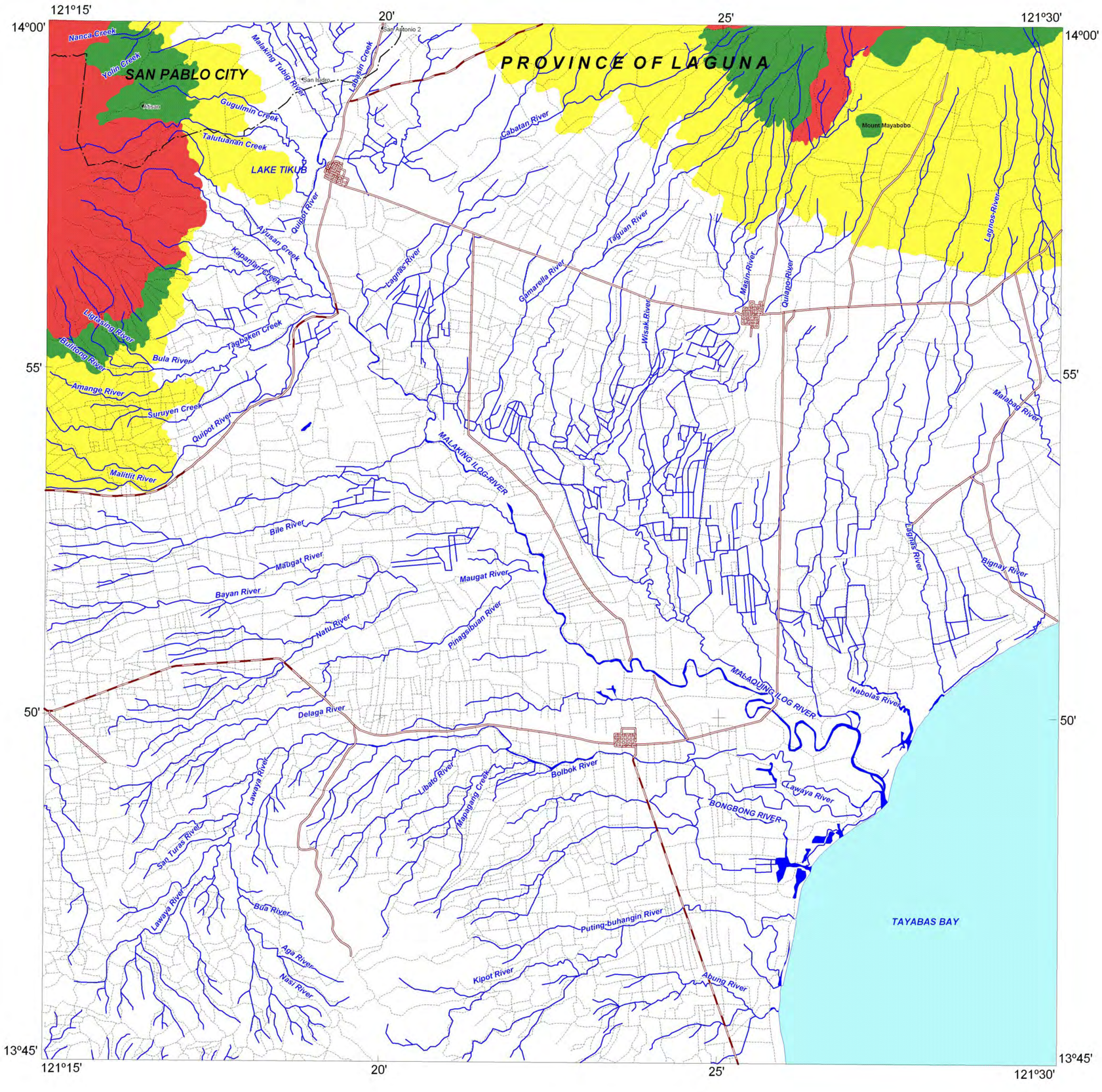
LANDSLIDE AND FLOOD SUSCEPTIBILITY MAP OF SAN PABLO QUADRANGLE, LAGUNA PROVINCE, PHILIPPINES


PROVINCE OF LAGUNA
LAGUNA DE BAY
Pila
Santa Cruz
Pagsanjan
Cavinti
Magdalena
Luisiana
Victoria
Los Baños
Bay
Calauan
Majayjay
Nagcarlan
Rizal
San Pablo City
Alaminos
Mount Nagcarlang
Mount Atimbia
Mount Mabilog
Mount Lagula
Mount Mapula
Mount Banahao
Mount San Cristobal
Lake Mohica
Lake Kambo
Lake Pandin
Palacpaguen Lake
Lake Calibato
Lake Bunot
Sampaloc Lake
Pila River
Dayap River
Guacat River
Prinsa River
Molino River
Cacatid Creek
Lagnas River
Gulsguis River
Bana Creek
Lagna River
Cabaton River
Matandan River
Mabulog River
Tawiran Creek
Tigas River
Ompa River
Tarac River
Bonbon Creek
Wanca Creek
Yalin Creek
Dalipit River
Mayaim River
Lucban River
Mayjayjay River
Malipis River
Bancal River
Marasil River
Santa Cruz River
Pagsanjan River
Bay River
Maitim River
Maulayin River
Bulungbulanea River
Pinsa River
Mabacan River
Cocoyan River
Pumpungcalan
Banca-banca River
Bancalbanca River
Cagalol River
Balinan River
Mayaim River
Little River
Balanga River
Casaheyan Creek
Malagnod River
Panluan Creek
Macopa Creek
Banedero River
Balayan River
Makampong River
Bagong Pook
Santo Cristo
Santa Monica
Santa Veronica
Santa Cruz
Santa Elena
Santa Maria
San Juaquin
San Vicente
San Antonio 1
Santa Ana
Santisimo Rosario
Bautista
Santiago I
Santiago II
San Gregorio
San Bartolome
San Roque
San Miguel
San Nicolas
San Benito
San Agustin
San Gabriel
San Francisco
San Ignacio
San Cristobal
Santa Catalina
Santa Maria Magdalena
San Juan
Santa Filomena
San Crispin
Del Carmen
Limao
Timao
Perez
Palipparan
San Mateo
San Marcos
San Pedro
San Diego
Santa Isabel
San Lucas 1
Del Remedios
Concepcion
San Lorenzo
San Buenaventura
Dolores
Santo Angel
West Poblacion
Antipolo
Tala
Tuy
Paule 1
Pook
Malaya
Taytay
Silangan Ilaya
Silangan Bukal
Silangan Nagpatong
Silangan Bazaan
Kanlurang Bukal
Kanlurang Lazaan
Ilayang Bayucain
Ilayang San Roque
San Roque
San Francisco
Novaliches
Luquin
Amonoy
Panalaban
Bukal
Abo
Sinipian
Tuy Baanan
Talortor
Pangil
Cordao
Ongbel
Palina
Bungkol
Ibabang Taykin
Masikap
Rizal
Ibabang Kalina
Ibabang Buyucain
Ibabang Sungi
Balimbing
Coples
Bambang
Bubuy
Yukos
Mait
Alumbrado
Sabang
Balayong
Bunga
Tipacan
Balangan
Kawaguin
Mayaquitos
Cabuyew
Tabangan
Buenavista
Sibulan
Santo Tomas
Masin
Tamot 2
Kanluran
Balayhangin
Masaya
Maquacan
Franca
Puypuy
Faciano Rizal
Maitim
San Agustin
San Isidro
San Nicolas (Pob)
Sto Domingo
Bagumbay
Banagan
Bangyas
Bayap
Wakat
Manaol
Ragatan
Banca - banca
Kanluran Kabubuhayan
Bayate
Santa Lucia
Banguro
Cabuyew
Baanan
Bungkol
San Isidro
Balanac
Suba
Ibabang Buyucain
Pook
Burol
Banti
Banilad
Tanawan
Ilayang Atingay
Ibabang Atingay
Ilayang Butnong
Poblacion
Tipunan
Malaking Ambling
Bucal
Guo
Balanac
Ibabang Butnong
Maravilla
Mojon
Kalantukan
Salumpang
Buhanginan
Balayhayin
Dita
Pansol
San Antonio
San Felix
San Francisco
Majonm
Malinao
Tubuan
Bulihan Norte
Sta Clara Norte
Sta Clara Sur
Tagalangan
San Roque
Bubuy
Buenavista
Sabang
Ilog
Balanac
Anibong
Bulajo
Layasin
Banco
Cabanbanan
Dingin
San Juan
San Jose
Tayugan
Ugong
Casaan
Mojon
Maravilla
Mainao
Ilayang Butnong
Ibabang Atingay
Ilayang Atingay
Tanawan
Malaking Ambling
Bungkol
Balanac
Suba
Ibabang Buyucain
Baanan

LANDSLIDE SUSCEPTIBILITY MAP OF TIAONG QUADRANGLE, LAGUNA PROVINCE, PHILIPPINES



INDEX MAP

LEGEND :

High susceptibility to landslide

Areas with high landslide susceptibility rating have active/recent landslides and tension cracks that would directly affect the community. Those with steep slopes and drainages that are prone to landslide damming are also highly susceptible to landslides.

Moderate susceptibility to landslide

Areas with moderate landslide susceptibility rating have inactive/old landslides and tension cracks which are located away from the community. These areas usually have moderate slopes.

Low susceptibility to landslide

Areas with low to gentle slopes and lacking tension cracks have low landslide susceptibility rating.

Roads

River

Municipal boundary

Barangay hall location

N
W E
S

0 1.5 3
kilometers

TRANSVERSE MERCATOR PROJECTION

MAPPING SCALE 1:50, 000

GIS Processing :
Lands Geological Survey Division

Data Sources:
MGB Geohazard Assessment Team
Geological Database and Information Systems Section
Lands Geological Survey Division
Geosciences Division MGB RO IV-A

Base Map :
Sheet No. 3228-I "Tiaong Quadrangle"

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DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

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