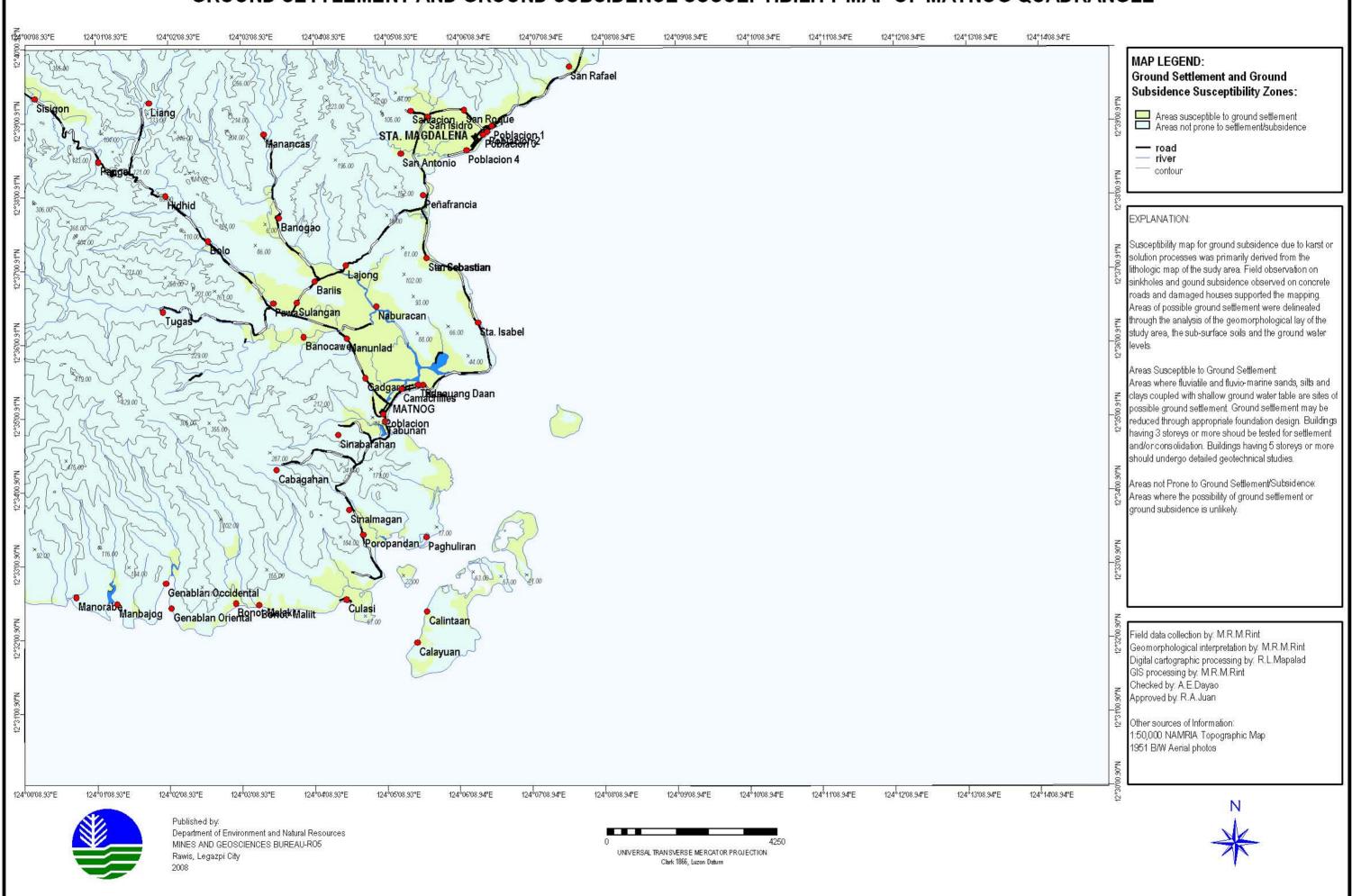
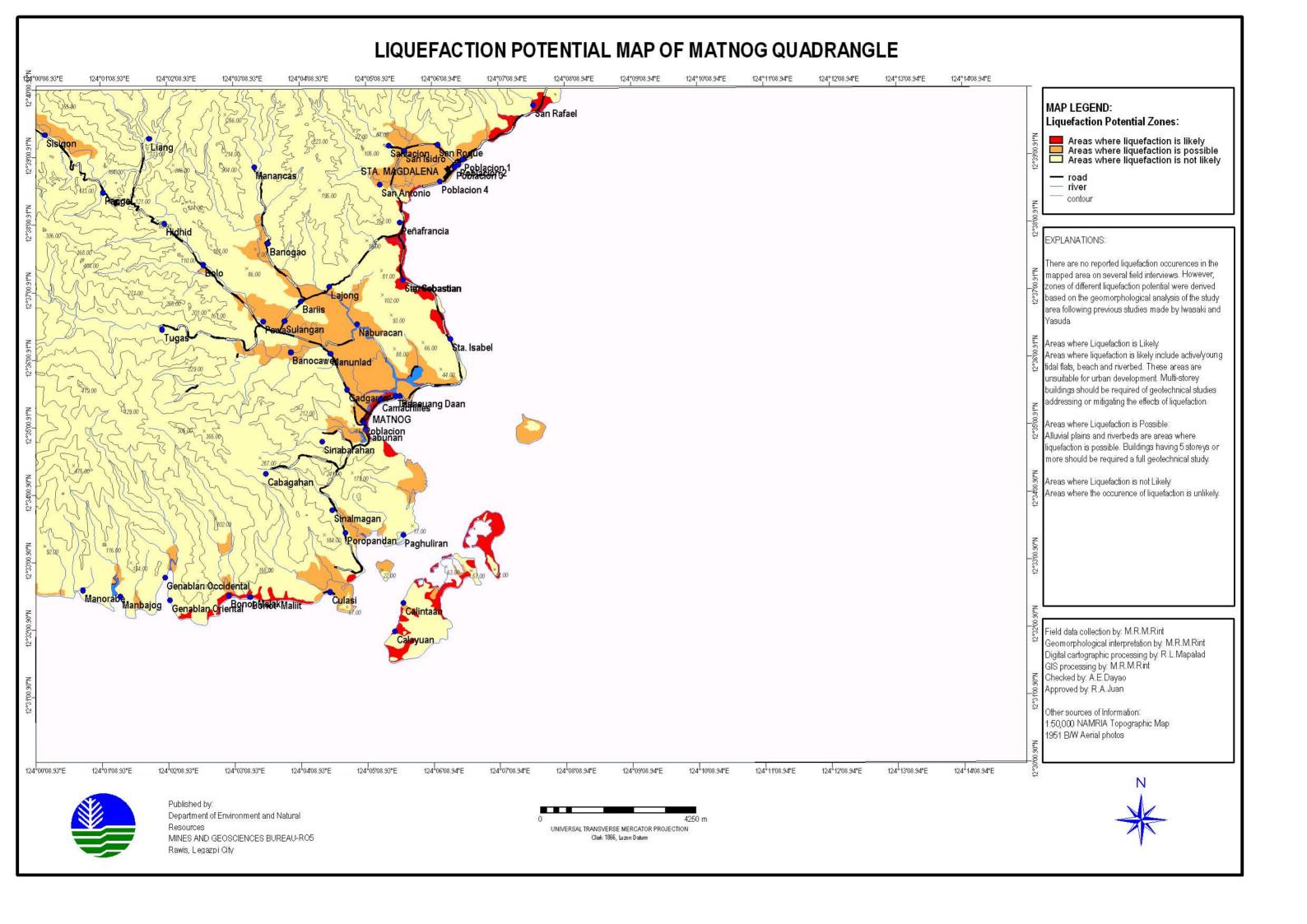


## GROUND SETTLEMENT AND GROUND SUBSIDENCE SUSCEPTIBILITY MAP OF MATNOG QUADRANGLE





## LANDSLIDE SUSCEPTIBILITY MAP OF MATNOG QUADRANGLE 12\$\overline{4}\ov 124°02′08.93″E 124°03′08.93″E 124°04′08.93″E 124°04′08.93″E 124°05′08.93″E 124°06′08.94″E 124°07′08.94″E 124°08′08.94″E 124°09′08.94″E 124°10′08.94″E 124°11′08.94″E 124°12′08.94″E 124°12′08.94″E 124°12′08.94″E 124°12′08.94″E 124°01'08.93"E MAP LEGEND: Landslide Susceptibility Zones: High susceptibility to landslide Moderate susceptibility to lands Low susceptibility to landslide Absent Moderate susceptibility to landslide Salvacion, San Roque San Isidro - contour Manancas fault Poblacion 4 San Antonio river - road eñafrancia EXPLANATIONS: Banogao Landslide hazard susceptibility zones were derived through qualitative map combination using lithology, geomorphology, slope gradient, road distance and fault distance. GIS was used in the map combination and subjective weights were assigned to each unit in the parameter map. Sulangan Naburacan Tugas Areas with High Susceptibility to Landslides: sta. Isabel Areas with equally high probability of occurrence of Banocawellanunlad mass movements particularly rock slides, debris slides, and slumps. Very steep to nearly vertical slopes and areas along fault lines are rated high susceptibility areas and are unsuitable for housing Camachinesang Daan development and settlement. MATNOG oblacion Areas with Moderate Susceptibility to Landslides: Areas having moderate likelihood of landslide occurrence and are recommended for more detailed engineering geological and geohazard Cabagahan assessment prior to housing development. Areas with Low Susceptibility to Landslides: Areas where the occurrence of landslides is low. inalmagan Poropandan Paghuliran Areas where the likelihood of landslide occurrence is absent Genablan Occidental Genablan OrientanoBlatak Malilt Field data collection by: M.R.M.Rint Geomorphologic interpretation by M.R.M.Rint Digital cartographic processing by. R.L. Mapalad GIS processing by: M.R.M.Rint Checked by: A.E.Dayao Approved by: R.A. Juan Other sources of Information: 1:50,000 scale NAMRIA Topographic Map 1951 B/W Aerial photos 124°02′08.93″E 124°03′08.93″E 124°04′08.93″E 124°05′08.93″E 124°05′08.93″E 124°06′08.94″E 124°07′08.94″E 124°08′08.94″E 124°09′08.94″E 124°10′08.94″E 124°11′08.94″E 124°12′08.94″E 124°13′08.94″E 184°00'08.93"E 124°01'08.93"E Department of Environment and Natural Resources MINES AND GEOSCIENCES BUREAURO5 UNIVERSAL TRANSVERSE MERCATOR PROJECTION Rawis, Legazpi City Clarke 1866, Luzon Datum 2002