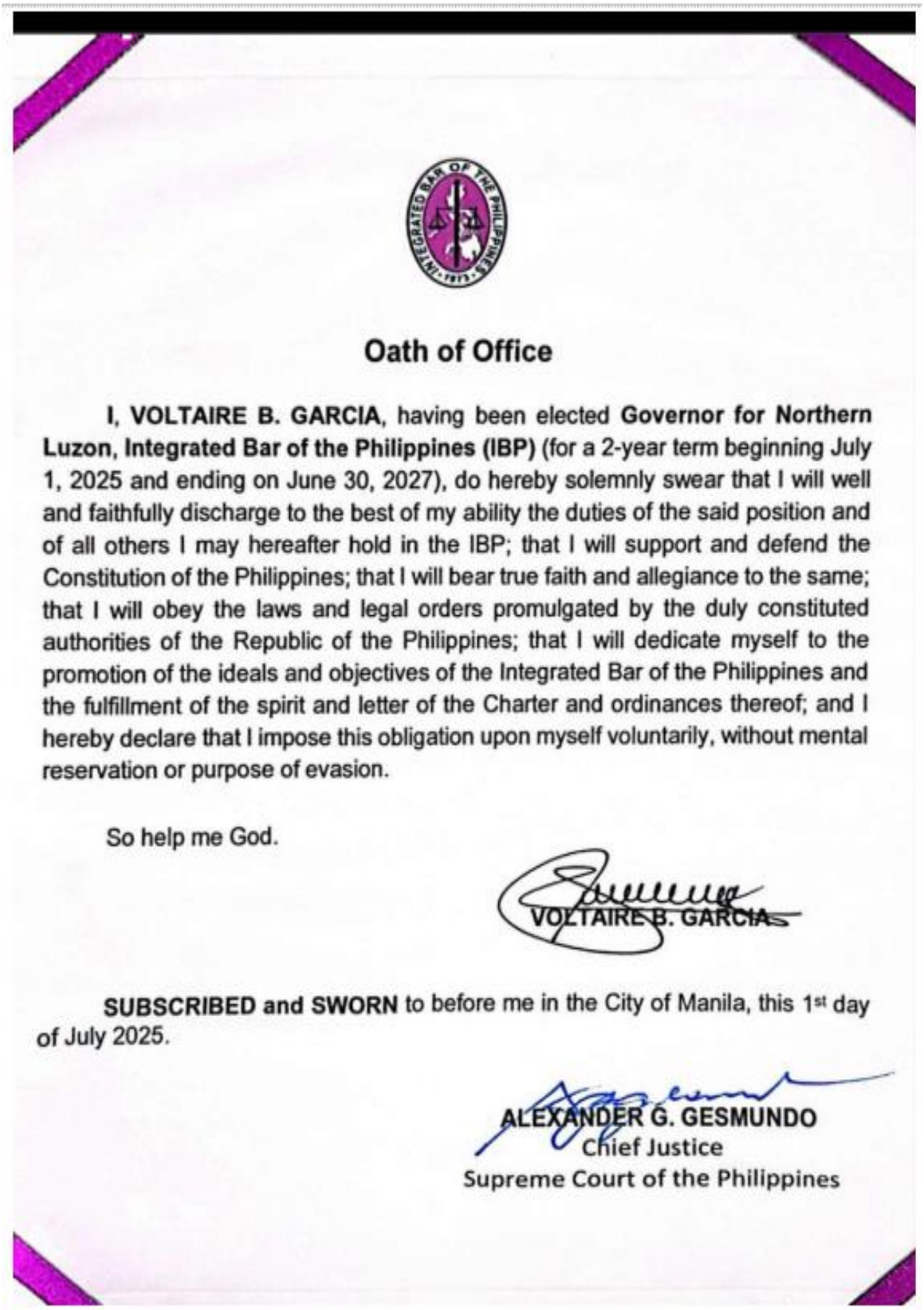
SUPERVISING LAWYERS OF THE COLLEGE OF LAW (CoL) BEING ELECTED TO A KEY POSITION IN THE LOCAL CHAPTER OF THE INTEGRATED BAR OF THE PHILIPPINES, NUEVA VIZCAYA



Oath of Office

I, VOLTAIRE B. GARCIA, having been elected **Governor for Northern Luzon, Integrated Bar of the Philippines (IBP)** (for a 2-year term beginning July 1, 2025 and ending on June 30, 2027), do hereby solemnly swear that I will well and faithfully discharge to the best of my ability the duties of the said position and of all others I may hereafter hold in the IBP; that I will support and defend the Constitution of the Philippines; that I will bear true faith and allegiance to the same; that I will obey the laws and legal orders promulgated by the duly constituted authorities of the Republic of the Philippines; that I will dedicate myself to the promotion of the ideals and objectives of the Integrated Bar of the Philippines and the fulfillment of the spirit and letter of the Charter and ordinances thereof; and I hereby declare that I impose this obligation upon myself voluntarily, without mental reservation or purpose of evasion.

So help me God.

VOLTAIRE B. GARCIA

SUBSCRIBED and SWORN to before me in the City of Manila, this 1st day of July 2025.

ALEXANDER G. GESMUNDO
Chief Justice
Supreme Court of the Philippines

SAINT MARY'S UNIVERSITY
BAYOMBONG, NUEVA VIZCAYA, PHILIPPINES
UNIVERSITY RESEARCH CENTER

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Title: Geotechnical Investigation of Quarry Sites Along the Magat River: Towards an Evidence-based Regulations and Guidelines Compliant to DPWH Standards.

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Abstract

Construction materials are integral to the construction industry. Concrete is the most commonly used building material in the country because it provides strength, stability, and variety for modern buildings and other infrastructure projects. This is commonly used specifically in building construction, retaining structures, flood control projects, irrigation systems, dams, roads, highways, and other projects. Concrete has become the material of choice for structural components due to its undeniably strong features and ability to withstand cracks, especially when paired with steel. It's made up of cement, aggregates, water, and other elements. Aggregates serve as the building blocks of construction, enabling the creation of sturdy foundations, resilient structures, and efficient transportation networks. In the region, aggregates along the Magat (Cagayan) River have likely been the main source of construction materials. In the report published by the NEDA regional development council in 2006, Nueva Vizcaya has a production area of 35 hectares with an extraction rate of 280,060 cubic meters of sand and gravel. The study aimed to investigate the geotechnical (aggregate) properties of five quarry sites along the Magat River in Nueva Vizcaya Province. The different laboratory tests, such as Particle Size Distribution Analysis, Aggregate Strength Testing using Abrasion Test, Durability Assessment, Specific Gravity and Water Absorption were conducted to assess the suitability of the aggregates for various construction applications. The results showed that some sites meet the required specifications and standards set by the Department of Public Works and Highways (DPWH). Among the five quarry sites, Macated Section was found most recommended for different types of concreting and engineering related works.

Keywords: *Aggregates, geotechnical investigation, quarry sites, and durability assessment*