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BAB I  
 PENDAHULUAN

1.1 Latar Belakang

Air merupakan suatu kebutuhan dasar bagi makhluk hidup, oleh karena itu untuk menjaga kelangsungan hidup air perlu didistribusikan kepada setiap makhluk hidup yang membutuhkan terutama manusia. Salah satu sarana pendistribusian air kepada manusia adalah sungai yang berawal dari hulu hingga bermuara ke hilir (Triatmadja, Radiana, 2007).

Kabupaten Pemalang merupakan salah satu kabupaten di Provinsi Jawa Tengah yang terletak di pantai utara Pulau Jawa. [96] [99] ... Secara astronomis Kabupaten Pemalang terletak antara 1090 17'30" [99] [103] ... - 1090 40'30" BT dan 80 52'30" [99] [103] ... - 70 20'11"LS.

Topografi yang dimiliki oleh Kabupaten Pemalang ini bervariasi. Pada bagian tengah dari Kabupaten Pemalang yaitu pada ketinggian 6-15 meter diatas permukaan laut merupakan dataran rendah yang subur. [96] [99] ... Bagian utara dari Kabupaten ini memiliki ketinggian 1-5 meter diatas permukaan laut yang merupakan wilayah pantai, sedangkan pada bagian selatan memiliki ketinggian 16-925 meter diatas permukaan laut merupakan dataran tinggi dan pegunungan yang subur serta berhawa sejuk. [96] [99] ... Kabupaten Pemalang dilintasi oleh dua sungai besar yaitu Sungai Waluh dan Sungai Comal (Pemerintahan Kabupaten Pemalang, 2011). [96] [99] ...

Sungai Comal merupakan sungai besar yang melintasi Kabupaten Pemalang. Sungai ini memiliki hulu yang terletak pada pegunungan Serayu Utara tepatnya pada gunung Slamet dan bermuara di Laut Jawa. Sungai Comal ini memiliki panjang 165 Km dan daerah aliran sungai ( DAS ) seluas 870,25 Km