

GROUNDWATER QUALITY AT POWER PLANTS IN WEST VIRGINIA

TR-114188 (An EPRI publication – please see ordering information)

SUMMARY

EPRI joined with American Electric Power (AEP) and Allegheny Energy (AE) in a multi-year field study to establish and evaluate existing groundwater quality at 12 power plant sites in West Virginia. Hydrogeologic and groundwater quality data were collected at all 12 plants and associated off-site coal combustion by-product (CCB) disposal facilities. In addition to providing the data necessary to support state regulatory activities by AEP and AE, the study also afforded an opportunity to assemble a coherent database on hydrogeologic and groundwater quality conditions at eastern coal-fired power plants of varying ages and sizes. The overall objectives of this analysis were to characterize potential sources of groundwater contamination at the power plants and associated disposal sites, and to establish existing groundwater quality at each site. This report provides a summary and synthesis of all of the data collected.