5th

pounds of $FeCl_3$ was required to remove one pound of phosphorus and 10 pounds of chemical sludge was generated in the process. The operational cost for the chemical phosphorus removal was about $1,300 per day for chemical and $400 per day for chemical sludge disposal at the Egan WRP with average daily flow of 27 MGD. The data from this full-scale study was used to estimate the consequence of chemical P removal at the other WRPs in the metropolitan Chicago area based on average plant flows and phosphorus concentrations. For a total flow of 1350 MGD from 7 plants and a target effluent TP of 0.5 mg/L, approximately 31.5 million gallons of $FeCl_3$ per year would be consumed and 51,300 dry ton of chemical sludge generated. Transporting the chemical and sludge would result in a significant negative environmental impact to the area.

11:00am **De-**