ILLINOIS DEPARTMENT OF MINES AND MINERALS

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Director

PROTECTING OUR RESOURCES

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LAND RECLAMATION DIVISION MEMORANDUM NO. 93-6

TO: All Coal Operators

FROM: Fred K. Bowman, Supervisor FB
Land Reclamation Division

DATE: September 1, 1993

RE: Groundwater Monitoring

There has been some confusion regarding monitoring of dissolved versus total iron and manganese. Pursuant to 62 Ill. Adm. Code 1780.21(b)(1) and 1784.14(b)(1), the minimum parameters to be measured in wells proposed for permanent program monitoring include water levels, pH, acidity, alkalinity, hardness, total dissolved solids, total iron, total manganese, sulfates (and at underground facilities, chlorides). This does not include wells monitored for special purposes, such as wells proposed to monitor drawdown exclusively or to fulfill 35 Ill. Adm. Code 620; however, these parameters may be included for those purposes.

Please note that dissolved iron and dissolved manganese may not be substituted for total iron and total manganese, although dissolved constituents may be monitored in addition to the totals. Proper procedure for monitoring "totals" requires that the sample is not field filtered.

Please review your currently approved groundwater monitoring plan, and field collection procedures to ensure total iron and total manganese are being monitored.