

**Appendix O – Management of Small Livestock Operations to Protect Water
Resources**

February, 2000

MANURE MANAGEMENT

- Require plans for storage and disposal of manure as part of the building permit process for new animal facilities
- Provide information to residents about on-site composting of manure
- Facilitate manure disposal by working with other cities in the watershed and Hennepin County to provide a central composting site
- Provide to residents a list of persons/entities that will haul manure from individual farms
- Monitor commercial manure haulers to insure that the manure is being properly handled

PASTURE MANAGEMENT

- Provide information to residents about grazing and pasture management practices to reduce erosion and run-off
- Provide a list of resources for technical assistance in implementing management techniques, e.g. Hennepin Conservation District, Natural Resources Conservation Service, University of Minnesota Extension Service
- Make available to residents information about state, local, and federal programs, e.g. Conservation Reserve Program, Wildlife Habitat Incentives Program, Reinvest in Minnesota that may offer financial assistance
- Work with other cities in the watershed and Hennepin County to establish a central source for machinery rental

LOCATION OF OPERATIONS (in the building permit process)

- Require siting of barns and other facilities to minimize run-off into water sources
- Require buffers/filter strips between livestock areas and water resources
- Require that livestock areas where vegetative cover cannot be maintained and manure storage facilities be at least 300 feet from streams and rivers and 1000 feet from lakes

These recommendations, if implemented by the cities of the watershed, will provide the impetus for livestock owners to institute management practices to maintain and improve the water quality of the lakes, streams, and rivers in the watershed.