

APPENDIX “D”

Upper Whitson River Flood Control

The City Drainage Section has completed flood control studies on Whitson Lake and the Upper Whitson River Watershed. These studies are incorporated into the K. Smart Associates Paquette Whitson Engineer's Report.

From the Whitson Lake Study, it was shown that the careful operation of the stop log control facility on the Vale Whitson Lake Dam could produce significant reductions in peak Whitson River flows by using the reservoir holding capacity in Whitson Lake to store flood water until the flood event had passed.

Similarly, the Upper Whitson River Study demonstrated that the implementation of stormwater storage impoundments at Radar Road and Tributary 10, Radar Hill and Garson Lake could make major reductions to downstream Whitson River peak flood flows during major storm/spring flood events. Each of the impoundments would rely on the creation of dykes and flow control facilities to hold back flood water until the event had passed.

The study sets out preliminary cost and a potential implementation framework for implementing such facilities.