APPENDIX B - USGS REGRESSION EQUATIONS FOR RURAL WESTERN OREGON

This Appendix is the United States Geological Survey (USGS) Scientific Investigations Report 2005-5116 titled "Estimation of Peak Discharges for Rural, Unregulated Streams in Western Oregon". These procedures are suitable for rural areas.

Note: It is highly recommended to independently verify the drainage area and GIS generated input coefficients are reasonable when utilizing Oregon Water Resources Department's interactive website utility that facilitates the use of these prediction equations.

Other methods can be used to estimate runoff from developed areas. USGS nationwide urban regression equations can be used for developed areas as presented in Appendix E. Regression equations for specific urban areas in western Oregon are the subjects of the following reports:

Laenen, Antonius, USGS Water Resources Investigation Open-File Report 80-689, Storm Runoff as Related to Urbanization in the Portland, Oregon – Vancouver, Washington Area, (USGS: Portland, Oregon, 1980).

Laenen, Antonius, USGS Water-Resources Investigation 83-4143, Storm Runoff as Related to Urbanization Based on Data Collected in Salem and Portland, and Generalized for the Willamette Valley, Oregon (USGS: Portland, Oregon, 1983)