

**DELAWARE AND RARITAN CANAL COMMISSION
CHECKLIST FOR WATER QUALITY AND STORMWATER MANAGEMENT REVIEW**

- ___ U.S.G.S. Location Map.
- ___ Full set of site grading and utility plans.
- ___ Pre-Development and Post-Development Drainage Area Maps (1"=100' or 1"=200').
- ___ Photos of drainage and site conditions.
- ___ Discussion of existing site conditions.
- ___ Is the appropriate methodology being used, i.e. TR-55?
- ___ Separate sub-drainage area hydrograph discharges into the basin based on differing CN values, times of concentration, or areas of connected impervious.
Averaging of CN and TC values of very different sub-areas is not acceptable.
- ___ Copy of soils map used, soil types and classification.
- ___ Time of Concentration flow path on Drainage Area Maps.
Maximum sheet flow length allowable is 150 feet.
- ___ Flow chart for hydrologic model.
- ___ Stage/Volume/Outflow Chart, the calculations for this chart, and the constants used in the calculations (weir and pressure flow coefficients).
- ___ Ground water elevation and depth to ground water.
- ___ Details of the outlet structure on an engineering drawing.
- ___ Summary Tables showing comparison of pre and post developed conditions for the 1,2,10 and 100-year storm events. Does the project meet the required reductions?
- ___ Water Quality: Detention basins must detain 10% of the peak storage 18 hours after the peak for residential and 36 hours after the peak for all others.
Additional water quality must be incorporated if detention times cannot be met.
For retention basins, show that the basin has 3 times the total one year runoff as a permanent pool.