

**STATE SOIL CONSERVATION COMMITTEE  
HYDRAULIC AND HYDROLOGIC DATA SUMMARY  
FORM FOR  
STORMWATER MANAGEMENT BASINS**

Pursuant to NJSA 4:29-39 et. seq. and as required for Application for Soil Erosion and Sediment Control Plan Certification, the following hydraulic and hydrologic information regarding the proposed project is provided for Detention, Retention and Infiltration basins. A separate form must be completed for each basin.

*(See guidelines to complete form on page 3.)*

**FOR DISTRICT USE ONLY**

FILE NAME:

COUNTY:

WATERSHED:

SUB-WATERSHED:

QUAD:

1. Name of Project:

1a. Date of Submission:

1b. Design Engineer:

2. Municipality:

3. County:

4. State Plane Coordinates:

5. As-Built/Design:

6. As-Built/Design Date:

7. Basin is in Block:

Lot:

8. Height of Dam:

Top Width of Dam:

9. Classification of Dam:

10. Type of Basin (Detention, Retention, Infiltration):

11. Name of Creek, Stream, or area into which the basin discharges:

12	13	14	15	16
TYPE OF OUTLET	ORIFICE SIZE OR WEIR LENGTH	ELEVATION (INVERT USGS)	DISCHARGE COEFFICIENT	EXPONENT

17  
ELEVATION  
(USGS FEET)

18  
STORAGE  
(ACRE FEET)

19  
TOTAL OUTLET  
STRUCTURE  
DISCHARGE (cfs)

POST DEVELOPMENT WATERSHED DATA

**(Submit copy of USGS map showing the drainage area)\*\*\*\*\***

20	21	22	23	24
DRAINAGE AREA NAME	DRAINAGE AREA (sq. miles)	POST CN	PERCENT IMPERVIOUS	TIME OF CONCENTRATION (HRS)

PROJECT AREA SOIL TYPE BY BLOCK & LOT NUMBERS

25	26	27	25	26	27
BLOCK	LOT	SOIL TYPE	BLOCK	LOT	SOIL TYPE

28. NAME OF RESPONSIBLE PARTIES THAT WILL MAINTAIN BASIN.

NAME:

STREET ADDRESS:

MUNICIPALITY:

STATE:

ZIP CODE:

PHONE NUMBER (     )

GUIDELINES FOR COMPLETION OF HYDROLOGIC DATA BASE  
SUMMARY FORM FOR STORMWATER MANAGEMENT BASINS

- 1 – 4     As indicated.
- 5 & 6     Indicate if data is based upon as-built or design condition. If the project is in the design phase, then enter the design and date of design.
- 7         As indicated.
- 8         The height of the dam shall be described pursuant to the NJDEP Dam Safety Standards, NJAC 7:20-1.2. If the basin is excavated, then enter “excavated”. Indicate in linear feet the top width of dam.
- 9         Dam classification as defined in the NJDEP Dam Safety Standards, NJAC 7:20-1.8.
- 10        Enter either Detention, Retention or Infiltration. A detention basin has a positive outlet. A retention basin holds water as a pond or lake and also serves as a detention basin function. A infiltration basin relies solely on the percolation of stormwater runoff into the soil without any positive outlet.
- 11        Enter the name of the creek, stream, lake, etc. into which the basin discharges. If discharge is over land indicate the block and lot number. This includes the receiving area at the emergency spillway.
- 12 – 16   In this section, list all outlets, their sizes, inverts, elevations and outlet discharge data for the basin.
- (12) Enter either weir or orifice, emergency spillway and top of dam.
- (13) Enter square feet for orifice size or length in feet for weir.
- (14) Enter the USGS invert elevation for all outlets listed in column 12.
- (15) Enter the coefficient for the outlets listed in column 12.
- (16) Enter the exponent for the outlets listed in column 12.
- 17 – 19   Based on routing calculations, list in column 17 selected basin elevations (USGS), the corresponding storage capacity in acre feet (column 18) and their total outlet structure discharges in cubic ft./sec. (column 19).

20 – 24 In this section, identify the name and size of the contributing drainage area(s), curve number, percent impervious cover and time of concentration.

(20) Designate the major and/or subdrainage area by name.

(21) Indicate in square miles the basin drainage area.

(22) Enter the post development Curve Number (USDA, NRCS) for the basin drainage area.

(23) Enter the percent imperviousness of the basin drainage area. (Rooftop, paved areas-streets, parking lots, etc.).

(24) Enter the time of concentration in hours. **DO NOT USE THE LAG METHOD!**

25 – 27 List the (USDA-NRCS) soil type present within the project by block and lot number.

28 As indicated.