

**New Jersey Department of Agriculture**  
**Hydrologic Modeling Database – Data Entry Form**

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**Project Site Details**

Chpt. 251 Application Number: \_\_\_\_\_

Start Date (if known): \_\_\_\_\_

County: \_\_\_\_\_

Street Address: \_\_\_\_\_

Municipality: \_\_\_\_\_

Block: \_\_\_\_\_

Lot: \_\_\_\_\_

NJDEP Anderson Landuse Code (4 digits):

Landuse description: \_\_\_\_\_

Site Centroid Location (NJ State Plane Feet): <sup>1</sup>

    Northing: \_\_\_\_\_      Easting: \_\_\_\_\_

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**Project Contact Details**

Applicant: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

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**Post Construction Operation & Maintenance:<sup>2</sup>**

Party Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Party type: \_\_\_\_\_

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**Basin Details:**<sup>3</sup>

Basin Centroid (NJ State Plane Feet):<sup>4</sup>

Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Basin Type: \_\_\_\_\_

Construction: excavated embankment  sub-surface (check one)

Status phase:<sup>5</sup> Design  As-built

Dam Height: (ft) \_\_\_\_\_ top width: (ft) \_\_\_\_\_

Dam Classification: \_\_\_\_\_

**Drainage Area(s) to Basin [note- include any bypass areas]**<sup>6</sup>

Drainage Area Name	Drainage Area (acres)	Post-Development CN#	Percent Impervious	Time of Concentration (min)

**Basin Outlet Structure(s)**<sup>7</sup>

ID:

End of Pipe Location:<sup>8</sup> Northing: \_\_\_\_\_ Easting: \_\_\_\_\_

Discharge Type <sup>9</sup> (weir, orifice, etc)	Dimensions (diameter, length)	Elevation (USGS)	Discharge <sup>10</sup> Coefficient	Equation Used <sup>11</sup>

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**Basin Outlet Structure(s)**

ID:

End of Pipe Location: Northing:

Easting:

Discharge Type (weir, orifice, etc)	Dimensions (diameter, length)	Elevation (USGS)	Discharge Coefficient	Equation Used

**Basin Stage-Discharge Rating Table<sup>12</sup>**

Elevation (USGS Feet)	Storage (Acre-Ft)	Total Outlet Structure Discharge (cfs)

**NJDEP BMP Water Quality Structures<sup>13</sup>**

Type (rain garden, green roof, seepage pit etc)	Size	Size Units (cu ft, sq ft etc)	Northing (SPF)	Easting (SPF)

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Explanatory Notes-

<sup>1</sup> Approximate location of center of site, coordinates in state plane feet

<sup>2</sup> Indicate who will be responsible for permanent operation and maintenance

<sup>3</sup> Additional Basin Detail Pages can be used for more than one basin in a project.

<sup>4</sup> Approximate location of center of basin, coordinates in state plane feet

<sup>5</sup> Indicate “design” for basins not yet constructed

<sup>6</sup> Drainage areas which are modified by construction, but not directed to the basin should still be listed and described

<sup>7</sup> “Outlet structure” means the control box, outlet headwall, FES etc. This does not refer to an individual control on the structure such as a weir or orifice. There are two tables for more than one outlet structure

<sup>8</sup> Approximate location of terminal discharge end of basin outfall, coordinates in state plane feet

<sup>9</sup> Indicate the type of outlet – weir, orifice, hydro brake, etc.

<sup>10</sup> Discharge Coefficient specific to the type of outlet control i.e., 0.6 for circular orifice

<sup>11</sup> List the discharge equation for each outlet (weir, orifice etc) used

<sup>12</sup> For basins with dead storage below the primary outlet, indicate 0 cfs discharge until the lowest outlet is reached. Routing table should begin at the lowest basin elevation.

<sup>13</sup> Describe NJDEP BMP Manual water quality devices such as seepage pits, rain gardens etc. Size is appropriate for device – cubic feet, square feet or linear feet. Location of device using state plane feet coordinates.