

DETENTION BASIN DESIGN TABLE

(Add additional sheets as needed, see DNR code 1001)

Basin: _____

SITE ASSESSMENT DATA: (see attached maps)					
Contributing drainage area to basin (acres)					
Distance to nearest private well (must be >100 ft)					
Distance to nearest public well (must be > 1200 ft)					
Wellhead protection area involved (Yes/No)					
Ground slope at proposed basin (%)					
Downstream conveyance system (swales/farm fields etc.)					
Can downstream systems handle proposed flows (Yes/No)					
Floodplain, shoreland, or wetlands (Yes/No)					
SOIL INVESTIGATION DATA (see attached maps and logs)					
Number of soil investigations completed (#)					
Distance from pond bottom to boring bottom (must be > 3 ft)					
Distance from pond bottom to bedrock (must be > 5ft)					
Distance from pond bottom to seasonal water table (must be > 2 ft)					
Will the soils support permanent water (Yes/No)					
BASIN DESIGN DATA (see attached detail drawings)					
Permanent pool surface area (acres)					
Design permanent water surface elevation (grade)					
Spillway elevation (grade)					
Top of berm elevation and width (min. 2' above spillway, 10' wide)					
Length to width (dimension and ratio){100' x 33' / 3:1}					
Safety shelf design (length, slope, maximum depth) (shelf to be 10:1 or flatter, 8' wide, max. depth over shelf 1.5')					
Average water depth in center (feet)					
Sediment forebay size and depth (5-15% surface area, min. 3'deep)					
DESIGN BASIN INFLOW, OUTFLOW & STORAGE DATA					
			Max. Water Elevation	Storage Vol. at Max. Elev.	Outflow Structure
Design Storm	Peak Inflow	Max. Outflow			
1 year / 24 hour*	-				
2 year / 24 hour					
10 year / 24 hour					
100 year / 24 hour					

*Utilize the Extended Detention Volume designer's aid.