**Maryland Department of the Environment**

**Water and Science Administration**

**Dam Safety Permits Division**

**APPLICATION FOR A DAM SAFETY PERMIT OR SMALL POND APPROVAL**

**(Applicable to all dam, small pond, levee and reservoir projects)**

**Part 1: General Information**

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| **PROJECT TYPE** |
|  [ ]  New Dam | [ ]  New Levee | [ ]  Dam/Small Pond Removal |
|  [ ]  Modify/Repair Dam | [ ]  Modify/Repair Levee | [ ]  Emergency Repair/Breach |
|  [ ]  New Small Pond | [ ]  Work in Reservoir Only | [ ]  Other (Specify below): |
|  [ ]  Modify/Repair Small Pond | [ ]  Geotechnical Investigation |  |
|  |  |  |

\*Cold Water Resource Area Map: https://bit.ly/3gXAI3U

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| **PROJECT NAME / LOCATION** |
| MD Dam ID       (existing dams) | Latitude |       (decimal deg) |
| Local BMP ID       | Longitude |       (decimal deg) |
| Dam Name       | Stream |       |
| Reservoir/Lake Name      | Use Class |       Cold Water Area\* [ ] Y / [ ]  N |
|  |  |  |

**PROJECT DESCRIPTION**

**Part 2: Structure Information**

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| **HAZARD POTENTIAL CLASSIFICATION** |
| *Hazard Classification* | *Breach Analysis Method* | Population at Risk       |
| [ ]  High | [ ]  Screening |  |
| [ ]  Significant | [ ]  Simplified | \*If relying on a previously approved breach analysis, provide a copy with application |
| [ ]  Low | [ ]  Standard |
| [ ]  Low (Small Pond) | [ ]  Other  |

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| **PURPOSE OF STRUCTURE (Check all that apply)** |
| [ ]  Stormwater Management-Wet Pond | [ ]  Tailings / Dredged Material | [ ]  Water Supply/Irrigation |
| [ ]  Stormwater Management-Dry Pond | [ ]  Sediment Control | [ ]  Wildlife/Fish |
| [ ]  Infiltration | [ ]  Flood Control | [ ]  Fire Control |
| [ ]  Submerged Gravel Wetland | [ ]  Recreation |  [ ]  Other (Specify below) |
| [ ]  Bioretention | [ ]  Waste Water  |  |

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| **PROPERTIES OF DAM AND RESERVOIR** |
| Length of Dam  |       (feet) | Surface Area (normal pool) |       (acres) |
| Crest Width  |       (feet) | Surface Area (brim full) |       (acres) |
| Embankment Height  |       (feet) | Storage (normal pool) |       (acre-ft) |
| (Height measured from lowest upstream point to crest of dam) | Storage (IDF max) |       (acre-ft) |
| Elevation of Dam Crest |       (Datum      \_\_\_ ) | Storage (brim full) |       (acre-ft) |
| Normal Pool Elev. |       | Side Slopes, Upstream |      \_\_ H : 1V |
| IDF Pool Elev. |       | Side Slopes, Downstream |      \_\_ H : 1V |
| Freeboard |       (feet) |  |  |
| Drainage Area |       (acres | sq. mi.) |  |  |

IDF = Inflow Design Flood (24-hr, 100-year for low hazard, ½ PMF for significant hazard, PMF for high hazard)

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| *Principal Spillway Type* | *Auxiliary Spillway Type* | *Auxiliary Spillway Protection* |  |
| [ ]  Riser & Barrel | [ ]  Earthen Channel | [ ]  Grass |  |
| [ ]  Weir Wall | [ ]  Rock Channel | [ ]  Riprap (Class      ) |  |
| [ ]  Weir & Channel | [ ]  None | [ ]  Gabions |  |
| [ ]  Other (specify below) | [ ]  Other (specify below) | [ ]  Other (specify below) |  |
|  |  |  |  |
|  |  |  |  |
| *Principal Spillway Material* |  |  |
| [ ]  RCP | [ ]  CMP / BCCMP | [ ]  Alum (CAP) | [ ]  PVC / HDPE |
| [ ]  Ductile Iron | [ ]  Cast-in-place concrete | [ ]  Pre-cast concrete | [ ]  Other \_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |  |  |
| *Riser & Barrel* |  |  |  |
| Barrel Diameter |       (inches) | Capacity at IDF |            cfs |
| Riser Dimensions |       | Anti-flotation FS |       |
|  |  |  |  |
| *Weir Wall / Weir & Channel* |  |  |
| Weir Length |       (feet) | Weir Coefficient |       |
| Overturning FS |       |  |  |
| Sliding FS |       |  |  |
|  |  |  |  |
| *Auxiliary Spillway* |  |  |  |
| Crest Elevation |       | Capacity at IDF |       cfs |
| Bottom Width |       (feet) | Maximum Velocity |       ft/sec |
| Side Slopes |       H : 1V |  |  |

**Part 3: Submittal Checklist**

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| The following list describes the documents, plans, calculations and other material that is required for a typical application to construct, reconstruct, modify or repair a dam or small pond. Each dam and project is unique; therefore, a general list of required submittals should be discussed with the Dam Safety Permits Division prior to making the application. Inquiries and electronic submittals can be made to MDE.DamPermits@Maryland.govDetailed descriptions of the content to be included in each document are available on the Dam Safety website at: [mde.maryland.gov/damsafety](https://mde.maryland.gov/programs/water/damsafety/pages/index.aspx) |
| *Required Upon Initial Submission of Application (Minimum Required to Provide Small Pond Exemption)* |
| # | Description | Included | MDE Use Only |
| 1 | Construction Plans (plans, cross sections, details) | [ ]  | [ ]  |
| 2 | Dam Breach Analysis and Hazard Classification Report | [ ]  | [ ]  |
| 3 | Inundation Map | [ ]  | [ ]  |
| 4 | Dam Inspection Report / As-Built Data (for existing dams/small ponds) | [ ]  | [ ]  |
| *Required Prior to Permit Issuance* |
| 5 | Basis of Design Report | [ ]  | [ ]  |
|  |  Summary of Proposed Work | [ ]  | [ ]  |
|  |  Summary of Design Standards Applicable to Project | [ ]  | [ ]  |
|  |  Hydrology and Hydraulics Report | [ ]  | [ ]  |
|  |  Geotechnical Engineering Report | [ ]  | [ ]  |
|  |  Structural Engineering Report | [ ]  | [ ]  |
| 6 | Project Specifications | [ ]  | [ ]  |
| 7 | Operation and Maintenance Plan | [ ]  | [ ]  |
| 8 | New/Updated Emergency Action Plan (High and Significant Only) | [ ]  | [ ]  |
| 9 | Memorandum of Land Restrictions | [ ]   | [ ]  |
| 10 | Engineer-in-Charge Affidavit and Resume | [ ]  | [ ]  |
| 11 | Construction bond, irrevocable letter of credit, or other security | [ ]  | [ ]  |