**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

|  |  |  |
| --- | --- | --- |
| **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**

|  |  |  |
| --- | --- | --- |
| **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 |

|  |  |  |
| --- | --- | --- |
| **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 |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **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)

|  |  |  |  |
| --- | --- | --- | --- |
|  | | | |
| *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.gov](mailto:MDE.DamPermits@Maryland.gov)  Detailed 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 |  |  |