**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**

| **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 Mapping: <https://mdewin64.mde.state.md.us/WSA/DamSafety/>

| **PROJECT NAME / LOCATION** | | |
| --- | --- | --- |
| Project Name |  |  |
| 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 |
|  |  |  |

| **PROPERTY OWNER INFORMATION** | | |
| --- | --- | --- |
| Owner Entity |  |  |
| Point of Contact |  |  |
| Address |  |  |
| Phone Number |  |  |
| Email |  |  |
|  |  |  |

\*If multiple property owners, provide contact information in attachment\*

| **DAM OPERATOR INFORMATION** | | |
| --- | --- | --- |
| Operator Entity |  |  |
| Point of Contact |  |  |
| Address |  |  |
| Phone Number |  |  |
| Email |  |  |
|  |  |  |

| **ENGINEER IN CHARGE INFORMATION** | | |
| --- | --- | --- |
| Company |  |  |
| Engineer-in-Charge | Maryland PE No. |  |
| Address |  |  |
| Phone Number |  |  |
| Email |  |  |
|  |  |  |



**Part 2: Structure Information**

(Provide as much information as available)

| **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 |  |

| **EMBANKMENT CHARACTERISTICS** | | |
| --- | --- | --- |
| ☐ Excavated | *Distance Below Embankment to:* |  |
| ☐ Embankment | Property Line (ft) |  |
| ☐ Both | Public Road (ft) |  |
| ☐ Superwide | Will embankment serve as  Roadway/railway? | ☐ Y / ☐ N |

| **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.) |  |  |
| **SPILLWAY CHARACTERISTICS** | | | |
| *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**

| 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 John.Roche@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 | ☐ | ☐ |