

**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

- | | | |
|---|---|--|
| <input type="checkbox"/> New Dam | <input type="checkbox"/> New Levee | <input type="checkbox"/> Dam/Small Pond Removal |
| <input type="checkbox"/> Modify/Repair Dam | <input type="checkbox"/> Modify/Repair Levee | <input type="checkbox"/> Emergency Repair/Breach |
| <input type="checkbox"/> New Small Pond | <input type="checkbox"/> Work in Reservoir Only | <input type="checkbox"/> Other (Specify below): |
| <input type="checkbox"/> Modify/Repair Small Pond | <input type="checkbox"/> Geotechnical Investigation | <div style="border: 1px solid black; height: 20px; width: 250px;"></div> |

*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* <input type="checkbox"/> Y / <input type="checkbox"/> 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

PROJECT DESCRIPTION

Part 2: Structure Information

(Provide as much information as available)

HAZARD POTENTIAL CLASSIFICATION

Hazard Classification

- ☐ High
- ☐ Significant
- ☐ Low
- ☐ Low (Small Pond)

Breach Analysis Method

- ☐ Screening
- ☐ Simplified
- ☐ Standard
- ☐ Other

Population at Risk

*If relying on a previously approved breach analysis, provide a copy with application

PURPOSE OF STRUCTURE (Check all that apply)

- | | | |
|---|--|--|
| <input type="checkbox"/> Stormwater Management-Wet Pond | <input type="checkbox"/> Tailings / Dredged Material | <input type="checkbox"/> Water Supply/Irrigation |
| <input type="checkbox"/> Stormwater Management-Dry Pond | <input type="checkbox"/> Sediment Control | <input type="checkbox"/> Wildlife/Fish |
| <input type="checkbox"/> Infiltration | <input type="checkbox"/> Flood Control | <input type="checkbox"/> Fire Control |
| <input type="checkbox"/> Submerged Gravel Wetland | <input type="checkbox"/> Recreation | <input type="checkbox"/> Other (Specify below) |
| <input type="checkbox"/> Bioretention | <input type="checkbox"/> Waste Water | |

EMBANKMENT CHARACTERISTICS

- | | | |
|-------------------------------------|---|---|
| <input type="checkbox"/> Excavated | <i>Distance Below Embankment to:</i> | |
| <input type="checkbox"/> Embankment | Property Line (ft) | |
| <input type="checkbox"/> Both | Public Road (ft) | |
| <input type="checkbox"/> Superwide | Will embankment serve as Roadway/railway? | <input type="checkbox"/> Y / <input type="checkbox"/> 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)	IDF = Inflow Design Flood (24-hr, 100-year for low hazard, ½ PMF for significant hazard, PMF for high hazard)	
Drainage Area	(acres sq. mi.)		

SPILLWAY CHARACTERISTICS

Principal Spillway Type

- ☐ Riser & Barrel
☐ Weir Wall
☐ Weir & Channel
☐ Other (specify below)

Auxiliary Spillway Type

- ☐ Earthen Channel
☐ Rock Channel
☐ None
☐ Other (specify below)

Auxiliary Spillway Protection

- ☐ Grass
☐ Riprap (Class ____)
☐ Gabions
☐ Other (specify below)

Principal Spillway Material

- | | | | |
|---------------------------------------|---|--|-------------------------------------|
| <input type="checkbox"/> RCP | <input type="checkbox"/> CMP / BCCMP | <input type="checkbox"/> Alum (CAP) | <input type="checkbox"/> PVC / HDPE |
| <input type="checkbox"/> Ductile Iron | <input type="checkbox"/> Cast-in-place concrete | <input type="checkbox"/> Pre-cast concrete | <input type="checkbox"/> 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

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)	<input type="checkbox"/>	<input type="checkbox"/>
2	Dam Breach Analysis and Hazard Classification Report	<input type="checkbox"/>	<input type="checkbox"/>
3	Inundation Map	<input type="checkbox"/>	<input type="checkbox"/>
4	Dam Inspection Report / As-Built Data (for existing dams/small ponds)	<input type="checkbox"/>	<input type="checkbox"/>

Required Prior to Permit Issuance

5	Basis of Design Report	<input type="checkbox"/>	<input type="checkbox"/>
	Summary of Proposed Work	<input type="checkbox"/>	<input type="checkbox"/>
	Summary of Design Standards Applicable to Project	<input type="checkbox"/>	<input type="checkbox"/>
	Hydrology and Hydraulics Report	<input type="checkbox"/>	<input type="checkbox"/>
	Geotechnical Engineering Report	<input type="checkbox"/>	<input type="checkbox"/>
	Structural Engineering Report	<input type="checkbox"/>	<input type="checkbox"/>
6	Project Specifications	<input type="checkbox"/>	<input type="checkbox"/>
7	Operation and Maintenance Plan	<input type="checkbox"/>	<input type="checkbox"/>
8	New/Updated Emergency Action Plan (High and Significant Only)	<input type="checkbox"/>	<input type="checkbox"/>
9	Memorandum of Land Restrictions	<input type="checkbox"/>	<input type="checkbox"/>
10	Engineer-in-Charge Affidavit and Resume	<input type="checkbox"/>	<input type="checkbox"/>
11	Construction bond, irrevocable letter of credit, or other security	<input type="checkbox"/>	<input type="checkbox"/>