

STANDARD EROSION AND SEDIMENT CONTROL PLAN FOR FOREST HARVEST OPERATIONS IN HARFORD COUNTY

I. General Requirements

A signed Sediment Control Plan is required for all harvests exceeding 5,000 square feet of disturbed area, or which cross any perennial or intermittent watercourse with a drainage area exceeding 400 acres (100 acres for trout waters).

This standard Erosion and Sediment Control Plan may be substituted for a custom plan for forest harvest operations when all of the following conditions are met:

- Road Cuts or fills are less than three feet.
- Grades for roads are less than 15 percent.
- Grades for skid trails shall not normally exceed 15 percent, but may be extended to 20 percent slopes for distances less than 200 feet.
- Landings are located on slopes less than 10 percent.

If the above conditions or any other criteria of this plan cannot be met, a plan modification listing controls necessary to prevent erosion and ensure site stabilization will have to be prepared by a registered professional forester and submitted along with this plan.

II. Conditions

A. Unless one operator assumes full responsibility for implementing this plan, all forest harvest operators working at a site must obtain an Erosion and Sediment Control Plan. An operator is defined as any individual or company who has contracted or subcontracted a portion of the harvest operation. This also applies to those operators conducting firewood cutting or separate forest harvest operation in conjunction with or subsequent to the initial harvest. Each operator must implement and maintain the required practices.

B. The applicant shall notify the **Harford County Department of Public Works, Engineering & Construction Division, 410-638-3127**, at least 48 hours prior to commencing forest harvest operations. This inspection agency must also be notified at least 48 hours prior to completion.

C. A copy of this plan and any approved plan modifications shall be available on site during harvest operations.

D. I/We agree to adhere to Standard Erosion and Sediment Control Plan for Forest Harvest Operations, and to grant inspectors and Maryland DNR Forest Service staff the right of entry to the site to monitor compliance. Each site will be periodically inspected by local government and/or state inspectors for compliance with this plan. State and local inspectors may require Soil Conservation District approved plan modifications to this standard plan as conditions dictate, to prevent movement of sediment from the site.

E. Failure to properly implement or maintain the practices required by this plan, or to comply with written requirements for corrective action may result in the operation being stopped (issuance of a stop work order) until the deficiencies have been corrected. Failure to take required corrective action may also result in legal action.

F. All erosion and sediment controls must be implemented in accordance with specifications contained in the document entitled "Soil Erosion and Sediment Control Guidelines for Forest harvest Operations in Maryland" (hereafter referred to as Guidelines for Forest Harvest Operations) available from the Maryland Department of Natural Resources – Forest Service, or the Maryland Department of the Environment.

III. Standard Plan Requirements

A. Site Maps

Site maps shall be prepared for all harvests and submitted with the plan application. The map shall identify the site location and provide directions and distances from the nearest major road intersection. All access points, landings, haul roads, water bodies, uncut buffer areas, and stream crossings must be identified on the map. A

more detailed map of buffer areas is required when buffer management plans are submitted. The harvest area should also be delineated on a Xerox copy of the U.S.G.S. topographic map.

B. Site Access

1. Access points to the site shall be stabilized with wood chips, corduroy logs, a stone construction entrance or other methods approved in the Guidelines for Forest Harvest Operations. Any soil or debris which is tracked onto off-site paved roads shall be removed and deposited in a controlled area by the end of each working day.
2. A grading or entrance permit may be required for a new entrance onto a County or State Road. Details may be obtained from the local permitting agency.
3. Existing public road drainage shall not be blocked or damaged by access construction. Pipe culverts shall be installed to maintain existing drainage.

C. Waterway Protection

1. Uncut buffer zones shall be marked and maintained on all sides of perennial or intermittent streams, rivers, lakes, ponds, bogs or marshes. These features are identified on U.S.G.S maps. The minimum buffer zone width shall be 75 feet (75 feet for streams draining >400 ac). The following table provides the required buffer width based on slope:

Average % Slope To Waterway	Minimum Width of Buffer On each Side of Waterway
0%	50 feet
1-10%	75 feet
11-20%	100 feet
21-30%	150 feet
31-40%	200 feet
41+%	250 feet

2. Roads, trails and harvesting equipment shall not be allowed in any buffer area except to provide access to authorized stream crossings.
3. The restrictions on harvesting within buffer zones may be waived providing that a buffer management plan is submitted and approved. The management plan must be designed by a Maryland registered professional forester and include the harvest method, the square footage of basal area to be removed and retained, provisions for removing and restocking the cut trees, and other criteria established below and in the Guidelines for Forest Harvest Operations. All trees to be removed from the buffer shall be marked at the base of the stump (so the mark remains after harvesting) by the professional forester in advance of the harvest operation. The buffer management plan shall become a modification to this standard plan and be available on site during harvest operations.

Harvesting within buffer areas must adhere to the following criteria. Basal area may not be reduced below 60 square feet or evenly distributed trees which are 6 inches or greater in diameter, measured at breast height. Any slash which inadvertently falls into adjacent water bodies must be pulled back to prevent waterway blockage. Roads, trails and equipment will not be allowed within the minimum buffer area of any water body except at approved stream crossings. Timber cut within this buffer area must be removed by cable.

D. Haul Roads and Skid Trails

1. Grading of existing roads and/or trails will be limited to that necessary to make them operable, provided that the requirements of Section D(2) are complied with.
2. Haul roads and skid trails shall be laid out along natural land contours to avoid excessive cuts, fills and grades. No road cut or fill shall exceed 3 feet without prior approval of the modification.
3. Crossing of perennial or intermittent streams should be avoided. Where it becomes necessary to cross either a perennial or intermittent stream, a bridge or culvert crossing shall be temporarily installed. A Maryland Department of the Environment waterway construction permit shall be obtained prior to crossing streams draining 400 acres or more, or trout waters draining 100 acres or more.

4. Grades for roads and trails shall not normally exceed 15 percent. If it is not feasible to limit road grades to 15 percent, a plan modification which identifies the erosion controls necessary to prevent excessive erosion must be approved prior to road construction. Skid trails may be established on 20 percent slopes for distances not to exceed 200 feet.
5. No haul roads or skid trails other than those providing access to waterway crossings shall be constructed within buffer areas. Drainage from approaches to waterway crossings shall be diverted to undisturbed areas.
6. Drainage structures shall be provided at the time of construction of haul roads and skid trails according to specifications contained in the Guidelines for Forest Harvest Operations.

E. Landings

Landings shall be located on reasonably level (between 3 and 10 percent slope) well-drained ground. If harvest sites do not have any area with a slope of at least 3 percent, landings shall be located on the maximum slope of the site. Landings located on slopes exceeding 10 percent shall require prior approval and may need specific erosion and sediment controls.

F. Stabilization

1. All unstable materials (exposed soil) resulting from the construction of roads, trails and landings, with slopes greater than 30 percent and all perimeter slopes which are not adjacent to a buffer shall be stabilized within 7 days of disturbance with seed and mulch.

2. Upon completion of the harvest, all roads, trails and landings located on slopes greater than 10 percent shall be graded or back-dragged, seeded, and mulched according to specifications. The surface of roads, landings and major skid trails less than 10 percent should be back-dragged and left in a condition that permits successful natural regeneration of trees, shrubs or other annual and perennial plants. Under certain circumstances stabilization of these roads and landings with seed and/or mulch may be required.

G. Maintenance

1. All practices installed shall be maintained at all times to function as intended.
2. Any practice that fails to function properly will be repaired or corrected immediately.

SIGNATURES:

LANDOWNER

DATE

OPERATOR

DATE