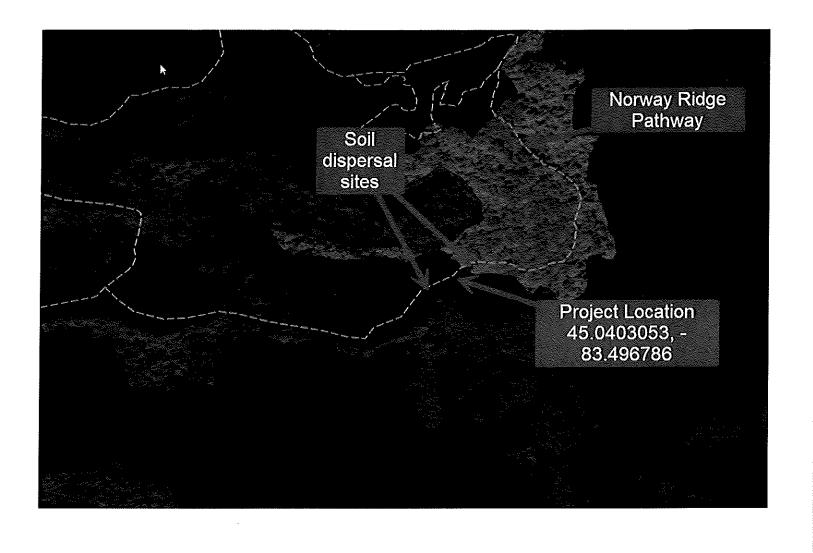


Michigan Department of Natural Resources Forest Management Division

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Michigan Department of Natural Resources - Forest Resources Division

VEGETATION RESTORATION OF RIGHTS-OF-WAY, WELL SITES, AND OTHER CLEARED SITES ON STATE FOREST LAND - NORTHERN LOWER PENINSULA -

All areas must be satisfactorily re-vegetated as specified by these guidelines except areas that are required to be kept cleared of vegetation under Part 615, Supervisor of Wells, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

All topsoil must be saved as the first action in development in order to provide the best guarantee of success for future site restoration. The saving and stockpiling of topsoil, however thin the layer may be, contains the nutrients, organic matter, and other elements that favor germination and growth of vegetative cover.

If only subsoil remains after site development, it contains fewer nutrients, and the site will be very difficult to restore.

If abandoned, a soil test is mandatory and the pH of the pad and/or pipeline must be adjusted to match that of adjacent stands.

Upon completion of drilling, flowline, pipeline, utility installation, or other type of installation; and also upon abandonment/cessation of use, the access road, drilling pad, pipeline, utility right-of-way, or leased premises must be re-vegetated and restored as detailed below to the satisfaction of the Forest Unit Manager (Department/Grantor's/Lessor's representative).

The entire site must be returned to original contours as much as possible. All perimeter slopes shall not exceed a 1:4 slope.

The topsoil which has been saved and stockpiled prior to site development must be evenly distributed over the area to be revegetated. It will be smoothed and tillage tools used as necessary to provide at least 3 inches of firm (rolled or culti-packed at least twice) but friable seedbed, free of large clumps and stones.

On mineral soils, soil tests are recommended but, in lieu of a soil test, fertilizer will be applied at a rate of 500 pounds per acre of 12-12-12 or equivalent. Fertilizer will be tilled into the soil during the final seedbed preparation. All clover seed shall be treated with the proper inoculant.

Seeding should take place in frost free conditions, excluding the months of June, July, and August, unless otherwise approved by the Department/Grantor's/Lessor's representative. Vegetation restoration must be completed within 9 months of the initial clearing of the easement or site, unless otherwise specified by the Department/Grantor's/ Lessor's representative.

All planting equipment and machinery must be cleaned to remove possible invasive plants before moving or arriving at the site to be planted.

Cover all seed 1/4 to 1/2 inch deep. The area may be seeded by hydro-seeder.

After seeding on mineral soils, the area must be mulched within 24 hours of seeding with weed-free straw at a rate of 2 tons per acre; or a rate of 2 to 3 small rectangular bales per 1,000 square feet. Other commercially prepared mulch may be used, if approved in writing by the Department/ Grantor's representative. It is recommended that mulch be mechanically applied. Under NO circumstances may hay be used.

The following seeding mixtures are for application on various soils:

Mineral Soils (Good Soil), Clays, Loams, Lo	namy Sands						
June Grass (Koelaria micrantha)	0.5 lbs./acre						
•	2 lbs./acre						
White Dutch Clover (Triflolium repens)							
Medium Red Clover (Triflotium pratense)	2 lbs./acre						
Butterflyweed (Asclepias tuberosa)	1 lb./acre						
Annual Rye or Oats Cover Crop	2 bushel/ac.						
Mineral Soils (Medium Soil), Sandy Loams							
June Grass (Koelaria micrantha)	0.4 lbs./acre						
Little Blue Stem (Schizachyrium scoparius)	4 lbs./acre						
Medium Red Clover (Triflolium pratense)	2 lbs./acre						
Round-headed Bush Clover (Lespedeza capitata)	2 lbs./acre						
Butterflyweed (Asclepias tuberosa)	1 lb./acre						
Mineral Soils (Critical Area/Very Poor Soil, e.g. Grayling Sand, Jack Pine Barrens & Prairies)							
Big Blue Stem (Andropogon geradii)	3 lbs./acre						
Indian Grass (Sorghastrum nutans)	1 lbs./acre						
Little Blue Stem (Schizachyrium scoparium)	5 lbs./acre						
June Grass (Koelaria micrantha)	0.2 lbs./acre						
Medium Red Clover (Triflolium pratense)	2 lbs./acre						
Lance-leaved coreopsis (Coreopsis lanceolata)	1 lb./acre						
Organic Soils							
Alsike Clover (Triflolium hybridum)	2 lbs./acre						
White Dutch Clover (Triflolium repens)	2 lbs./acre						
Little Blue Stem (Schizachyrium scoparium)	5 lbs./acre						
June Grass (Koelaria micrantha)	0.3 lbs./acre						
Dunes/Unstable Sand Blow Areas							
Big Blue Stem (Andropogon geradii)	3 lbs./acre						
American Beach Grass (Ampophila breviligulata)	2 to 3 culms						
(A culm is the stem portion of the plant)	every 18"						

In addition, tree and/or shrub seedlings may be required on certain sites because of special resource values. Up to 600 shrubs or tree seedlings may be required per acre on the site to be re-vegetated. If needed, these will be planted at a spacing and design as directed by the Department/ Grantor's/Lessor's representative.

The entire well site or right-of-way must be inspected yearly by the Permittee/Grantee and any erosion or bare area repaired, reseeded, and fertilized immediately.

The entire area must be re-fertilized, as necessary and to the satisfaction of the Department/Grantor's/Lessor's representative, until natural vegetation is fully re-established. Upon abandonment, vegetative cover must be successfully established to the satisfaction of the Department/ Grantor's/Lessor's representative.