

APPENDIX II

PLAN SPECIFICATIONS FOR NON-METALLIC MINES IN CHIPPEWA COUNTY

These standards of plan development are provided to aid applicants for non-metallic mining permits in the development of plans for mine permits and to aid Chippewa County in review of applications for non-metallic mining permits.

Three components of the Site Plan are an Initial Site Description, a Site Operations Plan, and a Final Site Description.

Maps are to show locations and activities referenced in the supporting text. Maps are to be drawn at a scale adequate to convey all required information. Detailed maps are not to be of scale less than 1 inch = 200 feet. Contours intervals for topographic maps is to be 10 feet or less.

(1) Initial Site Plan

The Initial Site Plan shall include an initial site map and supporting text.

(a) Initial Site Maps, to include:

1. Location map to indicate general location of the project in the county or township;
2. topographic map of affected lands;
3. property boundaries showing the land under consideration and neighboring parcels located within 660 feet of the project site;
4. roads located on or within 660 feet of the project site, with road names indicated;
5. road right-of-way lines;
6. locations of all structures within 660 feet of the site and the use of each structure;

7. locations and names of all intermittent and perennial streams and lakes as indicated on USGS 7.5 min topographic maps;
8. areas which convey concentrated flows to or from the site;
9. locations of all wetlands within 660 feet of the site;
10. boundaries of previous excavations on the site;
11. wells within 660 feet of the site;
12. groundwater elevation at the site and source of the information (boring, county groundwater map, well data, etc); and
13. locations of all utilities at the site.

(b) Supporting Information for Initial Site Description:

1. Owner and Applicant Information

The name and address of the landowner and name and address of the applicant (if other than the landowner).

2. Lease(s)

A copy of the signed lease(s) which authorizes an operator to enter upon the lessor's land for the purpose of mining. The expiration date of the lease shall be clearly indicated thereon. A substitute form may be used to verify that a lease is in effect without requiring the entire lease.

3. Legal Description

A legal description and tax parcel numbers of property subject to application.

4. Parties of interest

List of names and addresses of parties of interest within 660 feet of the project site.

5. Soil Information

Thicknesses of the A & B soil horizons and the method of determination.

(2) Site Operations Plan

The Site Operations Plan shall include a site operations map and supporting text.

(a) Site Operations Maps, to include:

1. Location and description of mining site boundary;
2. locations of separation boundaries and separation dimensions (from structures, public roads, rights-of-way, zoning districts, etc.) as referenced in Mine Siting Standards;
3. planned cell boundaries;
4. location and extent of disturbed areas including the area of excavation, spoils piles, topsoil stock-piles, wash ponds, and/or sediment basins;
5. processing facilities;
6. location and discharge point of site dewatering systems;
7. arrows indicating the directions of flow of surface runoff internal and external to the site;
8. vegetative (i.e. trees) and structural (i.e. berms) measures to be taken to screen the operation from view of surrounding landuses, where required;
9. roads, culverts, and all points of public road access; and
10. practices to limit onsite erosion and offsite sediment delivery during excavation. Temporary measures may include but need not be limited to the following: water diversions, grassed waterways, sediment basins, filter strips, silt fencing, bale check dams, sod strips, rock riprap, temporary seeding and mulching.

(b) Description of Site Operations:

1. Description or list of the type of materials to be extracted;
2. description or list of the type of extraction and processing activities to be conducted at the site;
3. estimated volume of materials to be extracted during the operation of each cell, during the permit period, and during the full life of the operation;
4. methods for site dewatering and effluent discharge. Discharges may require a Wisconsin Pollution Discharge Elimination System permit;
5. stormwater permits required by other agencies;

6. erosion control permits required by other agencies;

Note: County permits may be granted contingent on receipt of all other required permits for effluent discharge, stormwater management, erosion control, and highway road access.

7. description of reclamation activities to be conducted during mining operations. This includes but is not limited to a description of topsoil stripping, stabilization and conservation methods to be used during operations. Reclamation activities are to be conducted on an ongoing and progressive basis;

8. the sequence of progression through and between planned cells; and

9. a timetable for the commencement and cessation of nonmetallic mining operations. The timetable shall document the sequence of excavation and reclamation during operation of each cell, during the permit period, and during the projected life of the site.

(3) Final Site Plan

The Final Site Plan shall include a final site map and text describing measures to be used to restore the site. Site reclamation shall comply with county Reclamation Standards.

(a) Final Site Maps, to include:

1. Final depths, final slope angles, and slope stabilization measures;
2. areas which convey concentrated flow to, across, or from the site;
3. locations of facilities or structures to remain in place;
4. locations of planned development features on the site following closure; and
5. cross sections through the site - sufficient sections to show current ground surface, final slopes, groundwater elevation, and significant ground elevations.

(b) Description of Final Reclamation:

1. Description of plans for disposition of surface structures, roads, and related facilities after cessation of mining;
2. description of topsoil reapplication;
3. a description of how the reclamation plan addresses the long-term safety of the reclaimed mining site. The description shall include a discussion of site-specific safety measures to be implemented at the site and include measures that address public safety with regard to adjacent land uses;

Note: Safety measures include: visual warnings, physical barriers, slope modifications such as reclamation blasting, scaling of the rock face, creation of benches. Other measures may be employed if found to be equivalent by a registered professional engineer.

4. Seeding plan which shall include a seeding schedule, seeding type and rates, mulching, netting, tree plantings, and other techniques needed to accomplish soil and slope stabilization; and
5. Description of anticipated future use of the site.

(4) Other Information

The county may require other information as may be necessary to determine the nature of the extraction operation and proposed reclamation