

**NATURAL RESOURCES AND ENVIRONMENTAL PROTECTION ACT (EXCERPT)**  
**Act 451 of 1994**

**324.63706 Progressive cell-unit mining and reclamation plan; sand dune mining permit; requirements.**

Sec. 63706. (1) The progressive cell-unit mining and reclamation plan, for both the total project and each cell-unit, shall include all of the following:

- (a) The method and direction of mining.
- (b) Surface overburden stripping plans.
- (c) The depth of grade level over the entire site from which the sand will be removed.
- (d) Provisions for grading, revegetation, and stabilization that will minimize shore and soil erosion, sedimentation, and public safety problems.
- (e) The location of buildings, equipment, stockpiles, roads, or other features necessary to the mining activity and provisions for their removal and restoration of the area at the project termination.
- (f) Provisions for buffer areas, landscaping, and screening.
- (g) The interim use or uses of reclaimed cell-units before the cessation of the entire mining operation.
- (h) Maps and other supporting documents required by the department.

(2) The department shall not issue a sand dune mining permit for any of the following:

- (a) A sand dune mining operation that existed before March 31, 1977, if the progressive cell-unit mining and reclamation plan includes more than 3 30-acre cell-units.
- (b) A sand dune mining operation that commenced after March 31, 1977, if the progressive cell-unit mining and reclamation plan includes any cell-unit having an area exceeding 10 acres.
- (c) The expansion of an existing sand dune mining operation if that expansion includes any cell-unit having an area exceeding 10 acres.

(3) The progressive cell-unit mining and reclamation plan for sand dune mining permits issued 30 days or more after June 23, 1994 shall meet the following requirements:

(a) All upland reclamation grades for sand dune mining operations shall have a slope not steeper than 1-foot vertical rise in a 3-foot horizontal plane, except that the department may approve plans that allow steeper reclaimed slopes in order to provide a smoother transition to undisturbed topographic features or the protection of existing environmental features.

(b) All submerged grades established by the excavation of material below the water table and the creation of a water body shall have underwater slopes as follows:

(i) For water bodies with a surface area less than 5 acres, the submerged grades shall be 1-foot vertical rise in a 3-foot horizontal plane, or flatter, to a depth of 6 feet.

(ii) For water bodies with a surface area 5 acres or greater, the submerged grades shall be 1-foot vertical rise in a 6-foot horizontal plane, or flatter, to a depth of 6 feet.

(iii) For all water bodies where the progressive cell-unit mining and reclamation plan designates a final use after sand dune mining as public access, the area designated for public access shall have submerged grades of 1-foot vertical rise in a 10-foot horizontal plane, or flatter, to a depth of 6 feet.

(c) A 200-foot minimum setback distance from the property line to the cell-unit boundary line shall be provided on all cell-unit mining and reclamation plans, except the department may approve plans with less than 200-foot minimum setback distances if the department determines that the sand dune mining activity is compatible with the adjacent existing land use.

(d) A 500-foot minimum setback distance from the ordinary high-water mark of the Great Lakes shall be provided on all cell-unit mining and reclamation plans. As used in this subdivision, ordinary high-water mark means for the lands bordering or adjacent to waters or land affected by levels of the Great Lakes landward of the ordinary high-water mark as defined by section 32502, and those lands between the ordinary high-water mark and the water's edge.

(e) All cell-unit mining and reclamation plans shall include fencing or other techniques to minimize trespass or unauthorized access to the sand dune mining activity.

(f) If the proposed sand dune mining activity proposes to mine below the water table, the department may require a hydrogeological survey of the surrounding area.

(g) If threatened or endangered species are identified within the cell-unit boundaries, the cell-unit mining and reclamation plan shall indicate how the threatened or endangered species shall be protected or, if not protected, what mitigation measures shall be performed.

(h) If the proposed sand dune mining activity includes beneficiation or treatment of the sand, the application documents shall include specific plans depicting the methods, techniques, and manufacturer's material safety data sheets on all chemicals, or other additives that are not natural to the site, that will be

utilized in the process. The operator shall also obtain all applicable state and federal permits prior to beginning the beneficiation process.

**History:** Add. 1995, Act 57, Imd. Eff. May 24, 1995.

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