

7001.3275 DETAILED SITE EVALUATION REPORT.

Subpart 1. **Scope.** The applicant shall submit four copies of a detailed site evaluation report for all mixed municipal solid waste land disposal facilities. The report must include the information required in subparts 2 to 8 and supporting documentation. The report must discuss whether the site meets the requirements of part 7035.2815. The applicant shall submit four copies of a detailed site evaluation report for all municipal solid waste combustor ash land disposal facilities. The report must include the information required in subparts 2 to 8 with the exception of subpart 4, item D, along with supporting documentation. The report must discuss whether the site meets the requirements of part 7035.2885.

Subp. 2. **Hydrogeologic evaluation.** The applicant must conduct a hydrogeologic investigation to define the soil, bedrock, and ground water conditions at the site. The investigation must meet the requirements of part 7035.2815, subpart 3, items A to I. A hydrogeologic evaluation must meet the requirements of part 7035.2815, subpart 3, item G, subitems (1) to (8).

Subp. 3. **Soils for cover and liner construction.** The applicant must evaluate the availability and suitability of soil for cover and liner construction. This evaluation must include a description of the source and quantity of the soil, soil descriptions and unified classifications, particle size analyses, permeability at specified moisture and densities, Atterberg limits, and, for liner materials, cation exchange capacity. The determination must consist of the evaluations required in part 7035.2815, subpart 8. The evaluation must assess whether the available soils will meet the requirements of part 7035.2815, subparts 6 and 7 for a mixed municipal solid waste land disposal facility, and part 7001.2885, subparts 10 and 11 for a municipal solid waste combustor ash land disposal facility.

Subp. 4. **Conceptual facility design.** The applicant must include a design conceptualizing the important features of the facility. The following items must be addressed in the plans and accompanying narrative:

A. a description of the amount and types of waste to be received, the amount and type of cover needed, and the capacity of the site;

B. a site layout showing surface drainage, existing natural screening and proposed screening, on-site and off-site surface water sources, rock outcroppings, on-site buildings, on-site wells, and property boundaries;

C. a site development plan depicting fill areas, borrow areas, on-site roads, and surface drainage control structures;

D. a plan sheet designating special waste handling areas such as general storage areas, recycling areas, tire storage areas, demolition debris or industrial solid waste fill areas, or compost areas;

E. a proposed design of the fill area including the proposed number of phases and the size of each phase, the direction of filling as it relates to prevailing winds and the slope of the trench bottoms, depth of fill, final contours, and the locations and descriptions of the gas and leachate collection, storage, and treatment systems including cross-sectional plan views;

F. a description of the leachate collection, storage, and treatment system indicating the type and size of pipe to be used, the length and spacing of pipe runs, proposed pumps, the storage system, and the proposed treatment system;

G. a description of the liner system to be used, including type of liner, method of placement and protection, and any special design features particular to the liner;

H. a description of the gas monitoring, venting, and collection system, based on the proximity of off-site buildings or other potentially affected areas, and on-site soils; and

I. an estimated construction cost.

Subp. 5. **Proposed compliance boundary.** The detailed site evaluation report must propose the location and configuration of a compliance boundary meeting the requirements of part 7035.2815, subpart 4. A plan sheet must show the locations of the proposed monitoring points; the proposed compliance boundary; the proposed limits of the waste fill and leachate management system; the property lines; ground water flow directions; and any nearby surface waters. The applicant may use a single plan sheet for these requirements and those of subpart 4, item C, if all the required information can be clearly shown.

Subp. 6. **Feasibility of corrective action.** The detailed site evaluation report must discuss the feasibility of the owner or operator implementing corrective actions in accordance with items A to D.

A. The applicant must determine whether it is technically feasible to take the corrective actions required in parts 7035.2615 and 7035.2815, subpart 15, at the proposed site. The applicant also must consider the costs of corrective actions at the site and the time available for corrective action based on ground water flow conditions at the site.

B. The applicant must identify and describe the potential modes of failure or evidence of failure, including:

(1) releases, leaks, or spills of leachate through liners or through the floor or sidewalls of the fill areas; from leachate collection installations; from leachate tanks, holding ponds, or treatment facilities; and in the loading, unloading, and transportation of leachate on- and off-site;

(2) water quality monitoring results exceeding the intervention limits given in part 7035.2815, subpart 4, at the compliance boundary, or the corresponding standards at the compliance boundary or lower compliance boundary, if applicable; and

(3) gas concentrations exceeding the limits given in part 7035.2815, subpart 11, in gas monitoring points, or other evidence of adverse effects of gas migration, including damage to the facility's cover vegetation.

C. For each potential type of failure identified under item B, the applicant must:

(1) describe the actions needed to:

(a) define the extent of the problem and identify the source and routes of leachate or gas escape;

(b) alter the monitoring system or the conditions of monitoring, including frequency of monitoring and constituents analyzed;

(c) temporarily and permanently contain the migration of pollutants or gas;

(d) identify the actions necessary to repair areas of subsidence, erosion, dike breakage, and drainage disruption;

(e) repair the problem;

(f) treat and discharge the recovered ground water, leachate, or gas; and

(g) provide other remedial measures as may be necessary;

(2) identify:

(a) the funding, personnel, and equipment needed to carry out the actions in subitem (1), including the expertise needed to coordinate response actions and to provide technical support and specialized equipment and installations;

(b) the schedule for implementing corrective actions, the time needed to accomplish them, and the anticipated duration of longer term activities;

(c) the costs of these actions; and

(d) the level of financial assurance required under part 7035.2685 to fund them; and

(3) estimate the success expected from each of the actions from subitem (1).

D. Based on the analysis in items A to C, the applicant must state the conclusions reached regarding the feasibility of corrective actions, including the capability to fund the actions identified.

Subp. 7. **Final use.** The detailed site evaluation report must include a proposal for the use of the site after closure consistent with part 7035.2815, subpart 16.

Subp. 8. **Additional information.** The detailed site evaluation report must include the information needed to complete an Environmental Assessment Worksheet or an

Environmental Impact Statement, if applicable, in accordance with chapter 4410 or parts 7849.1000 to 7849.2100 and 7850.1000 to 7850.5600.

Statutory Authority: *MS s 115.03; 115A.97; 116.07*

History: *13 SR 1150; 16 SR 2321*

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