

**567—67.7(455B) Land application requirements for Class II sewage sludge.**

**67.7(1) Class II criteria.** Class II sewage sludge is sewage sludge that meets the pollutant concentrations in 67.7(1)“a,” the pathogen reduction requirements in 67.7(1)“b,” and the VAR requirements in 67.7(1)“c.”

*a. Class II pollutant concentrations.* The concentration of any pollutant in Class II sewage sludge shall not exceed the ceiling concentration for the pollutant in Table 3.

**TABLE 3—CEILING CONCENTRATIONS**

<b>Pollutant</b>	<b>Ceiling concentration in mg per kg, dry weight basis</b>
Arsenic	75
Cadmium	85
Copper	4300
Lead	840
Mercury	57
Molybdenum	75
Nickel	420
Selenium	100
Zinc	7500

*b. Class II pathogen reduction requirements.* Class II sewage sludge shall meet one of the following three alternatives:

(1) Seven samples of the sewage sludge shall be collected at the time of disposal, and the geometric mean of the fecal coliform density shall be less than 2,000,000 MPN per gram of total solids (dry weight basis);

(2) Sewage sludge shall be treated in a PSRP described in 67.10(1); or

(3) Sewage sludge shall be treated in a process that is equivalent to a PSRP, as determined by the department.

*c. Class II VAR requirements.* The Class II VAR requirements are the same as those for Class I sewage sludge in 67.6(1)“c.”

**67.7(2) Class II management practices.** Class II sewage sludge may be land applied in conformance with the following:

*a. Class II sewage sludge shall not be land applied:*

(1) To a lawn or a home garden; or

(2) If it is likely to adversely affect a threatened or endangered species listed under section 4 of the Endangered Species Act, 16 U.S.C. 1533, effective December 27, 2022, or the species’ designated critical habitat.

*b. Land application sites accepting Class II sewage sludge not meeting pollutant concentrations listed in Table 1 in 67.6(1) are subject to the cumulative pollutant loading rates listed in Table 4.*

**TABLE 4—CUMULATIVE POLLUTANT LOADING RATES**

<b>Pollutant</b>	<b>Cumulative Pollutant Loading Rate</b>	
	<b>kg per hectare</b>	<b>pounds per acre</b>
Arsenic	41	36
Cadmium	39	34
Copper	1500	1335
Lead	300	267
Mercury	17	15
Nickel	420	373
Selenium	100	89

Pollutant	Cumulative Pollutant Loading Rate	
	kg per hectare	pounds per acre
Zinc	2800	2490

c. *Class II* sewage sludge shall be land applied:

(1) At an annual whole sludge application rate that is equal to or less than the agronomic nitrogen uptake rate, unless otherwise specified by the department; and

(2) Only to soils classified as acceptable throughout the top five feet of soil profile. Sewage sludge shall not be applied to soils classified as sand, loamy sand, or silt. The acceptability of a soil shall be determined using the USDA soil classifications.

d. Land application sites shall have soil pH maintained above 6.0, unless

(1) Crops prefer soils with lower pH conditions;

(2) The sludge meets the pollution concentrations contained in Table 1; or

(3) The site does not exceed calcium carbonate equivalent levels according to sound farm management practices.

If the soil pH is below 6.0, agricultural lime can be used to increase the pH to an acceptable level.

e. If sewage sludge is applied to land on which the soil loss exceeds the soil loss limits established by the county soil conservation district, the sludge shall be injected on the contour or shall be applied to the surface and mechanically incorporated into soil within 48 hours of application. Sewage sludge shall not be applied to ground having greater than 9 percent slope unless approved by the department.

f. Sewage sludge application on frozen or snow-covered ground should be avoided unless special precautions are taken, such as proven farm management practices to avoid runoff. If application on frozen or snow-covered ground is necessary, it shall be limited to land areas of less than 5 percent slope unless otherwise approved by the department.

g. In accordance with Table I in 567—paragraph 60.2(2)“c,” sewage sludge shall not be applied to land that is 35 feet or less from an open waterway. If sewage sludge is applied within 200 feet upgradient of a stream, lake, sinkhole, or tile line surface intake, it shall be injected or applied to the surface and mechanically incorporated into the soil within 48 hours of application unless otherwise approved by the department.

h. If sewage sludge is applied to land subject to flooding more frequently than once in ten years, the sludge shall be injected or shall be applied to the surface and mechanically incorporated into the soil within 48 hours. Information on which land is subject to flooding more frequently than once in ten years is available from the department.

i. Sewage sludge shall not be applied within 200 feet of an occupied residence or any well. Distances may be reduced to a minimum of 35 feet with the written agreement of both the well or residence owner and, in the case of residences, the occupant and an approved farm management plan that addresses soil erodibility, harvest residuals, buffer strips, and other sound farm management practices. The farm management plan shall be approved by the local soil conservation district in accordance with rules implementing Iowa Code sections 161A.42 through 161A.51.

j. After the land application of sewage sludge, all of the following restrictions shall apply:

(1) Food crops with harvested parts that touch the sewage sludge/soil mixture and that are totally above the land surface shall not be harvested for 14 months;

(2) Food crops, feed crops, and fiber crops shall not be harvested for 30 days;

(3) Animals shall not be allowed to graze on the land for 30 days;

(4) Turf grown on land where sewage sludge is applied shall not be harvested for one year after application when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by the department;

(5) Public access to land with a high potential for public exposure shall be restricted for one year; and

(6) Public access to land with a low potential for public exposure shall be restricted for 30 days.

k. When required by the director, groundwater monitoring wells and surface monitoring points shall be installed and a monitoring program implemented. Samples must be analyzed by a laboratory that is

equipped and competent to perform the required tests. The results shall be forwarded to the department on a stipulated schedule.

*l.* The sewage sludge generator shall provide information necessary to comply with the requirements of this chapter to the sewage sludge applicator and landowner.

*m.* The sewage sludge applicator shall provide written notice to the department prior to the initial application of sewage sludge. The notice shall include:

(1) The location, by legal description, of the land application site, and

(2) The name, address, telephone number, and NPDES permit number (if appropriate) of the landowner, sewage sludge generator, and applicator.

**67.7(3)** *Class II monitoring frequency.*

*a.* The pollutants listed in Table 3, the pathogen density requirements, and the VAR requirements shall be monitored at the frequency stated in Table 2.

*b.* After the Class II sewage sludge has been monitored for two years, the department may reduce the monitoring frequency, but in no case shall the monitoring frequency be less than once per year when sewage sludge is land applied.

**67.7(4)** *Class II recordkeeping.*

*a.* Both the generator and applicator of Class II sewage sludge shall develop all of the following information and retain it for five years:

(1) The concentration of each pollutant listed in Table 3 in the sewage sludge.

(2) The following certification statement: "I certify, under penalty of law, that the Class II sewage sludge requirements have been met. I am aware that there are significant penalties for false certification including the possibility of fine and imprisonment."

(3) A description of how the PSRP and VAR requirements are met.

(4) A description of how the management practices for Class II sewage sludge are met for each site.

(5) The location and surface area of each site.

(6) The date and time of sewage sludge application at each site.

(7) If subjected to cumulative loading limits, the amount and cumulative amount of each pollutant listed in Table 4 of 67.7(2) "*b*" in the sewage sludge applied to each site.

(8) The amount of sewage sludge (i.e., metric tons) applied to each site.

*b.* Treatment works with a design flow rate of 1 mgd or greater and treatment works that serve 10,000 people or more shall submit the above information to EPA, using EPA's NPDES eReporting Tool (NeT), by February 19 of each year for the previous calendar year. In addition, a supplemental sewage sludge report that includes the land application information listed in 67.7(4) "*a*"(6) through "*a*"(9) shall be submitted to the department by the same due date.

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