SOUTH NATION CONSERVATION
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Clean Water Program Funding Guidelines 2009

Manure Storage

GRANT RATE: up to 50% up to $5,000 maximum

ELIGIBLE ITEMS AND PROJECT REQUIREMENTS:

- Eligible storages include construction or repair of concrete, steel, earthen and roofed storages.
- Other eligible components include:
  - Permanent transfer piping from the barn gutters or sumps to the long term storage
  - Clean water diversion measures including eavestroughing and berms
  - Safety fencing
  - Curbing to divert contaminated runoff (including silo seepage) into storage
  - Covering or roof on existing storage to decrease precipitation input
  - Nutrient runoff storages
- All approved projects will be required to submit a copy of the (OMAFRA) **Record of Approval;** Ontario Ministry of Agriculture, Food and Rural Affairs (OMAFRA) staff are available to assist in this regard.
- Livestock access to manure storage areas must be restricted.
- All storages must meet *National Farm Building Code* requirements for safety fencing (page 2).
- Applicants are responsible for obtaining all necessary municipal, provincial, and other permits and approvals that may be required for the completion of their projects.

ELIGIBLE COSTS:

- Contract labour
- Permits
- Materials
- Engineering and professional fees

INELIGIBLE COSTS:

- Pumping, manure transfer or spreading equipment
- Slats or solid floors over in-barn storages including support posts, beams and roofs
- Storage for new buildings
- Storage with livestock access
- Snow or electric fencing
- Labour and machinery of applicant, family dependants and the applicant's business
- Goods and Services Tax (GST)

ENVIRONMENTAL FARM PLAN (EFP)/HEALTHY HOME GUIDEBOOK REQUIREMENT:

Farm applicants are required to have a 3rd Edition EFP to receive Program funding. Farmers must provide a copy of their Letter of Review from their Ontario Soil and Crop Improvement Association (OSCIA) Program Representative, stating they have completed a peer-reviewed and approved 3rd Edition EFP. The contents of the EFP will remain confidential to the farmer.

Non-farm applicants are required to complete a Healthy Home Guidebook to receive Program funding.

APPROVAL PROCESS:

Contact South Nation Conservation (SNC) to complete an application. The Clean Water Committee will review the projects and will give priority to those with the most water quality benefit. Landowners may apply for only one project, per project type, per year. Landowners may receive funding for only two projects per project type for the life of the Program. Limited funds are available.

Approved projects will be pre-paid by the landowner. Funding will be provided when the project is completed, inspected to the satisfaction of SNC, and when copies of **all** invoices with acceptable proof of payment, permits, and any other required paperwork are provided. Invoices must provide detailed breakdown of labour hours, quantities of materials purchased and associated costs. **Projects must be completed and paperwork submitted by December 15 of the year in which they were approved.** Payment is not guaranteed beyond this deadline.

Continued on page 2

Refer to Clean Water Program Applicant's Guide for more information on the Application Process

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The following information is excerpted from Ontario Ministry of Agriculture and Food's "Safety Features Around Liquid Manure Storages" factsheet (AGDEX 743).

The *National Farm Building Code* requires all liquid manure storages without fixed covers be enclosed with a permanent safety fence or wall extending to not less than 1.5m (5 ft) above adjacent grade, and having gates with latches to deter access by children and livestock. The *Ontario Building Code* requires that the fence in locations where children are present be small enough to prevent a spherical object of 100 mm (4 in.) from passing through, and 200 mm (7 7/8 in.) for all other occupancies. Warning signs that say **Danger Manure Storage** and **Danger Manure Gas** must be posted at all gates and around the perimeter of the manure storage. Also, many municipalities have bylaws that place certain restriction on manure storages.

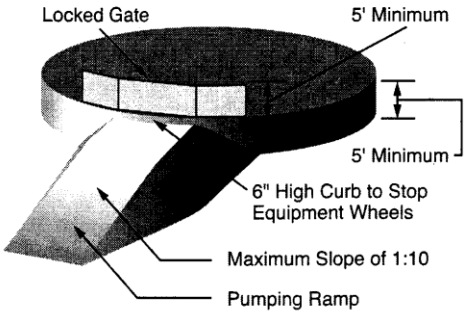
The best safety barrier is the tank wall itself. If possible, place the tank partially in the ground such that the portion of the wall extending above grade is at least 1.5 m (5 ft). For example, a 3.6 m deep tank can be 1.8 m (6 ft) in the ground and 1.8 m (6 ft) out of the ground (see *Figure 2*). In this situation, only the access ramp needs to be fenced and equipped with gates. If the ramp is used, make sure the tank is properly designed to withstand the unbalanced outside loading.

For earthen lagoons, or where conditions are such that the tank wall cannot be extended at least 1.5 m (5 ft) above grade, a safety fence is required. Fence choices include solid board or steel fence, chain link, or welded wire mesh. Fit all climbable fences with outward sloping brackets strung with barbed wire.

A permanent chain link fence at least 1.5 m (5 ft) in height can be an effective barrier, if constructed properly. Stretch the fence tight and make sure it is constructed according to the manufacturer. A heavy pipe must be installed between posts at the top and the bottom to add support and to eliminate the possibility of small children slipping between the bottom of the fence and the lip of the tank. Chain link should be at least 9 gauge with 38 mm (1 ½ in.) openings or mesh spacing. To ensure that there is no gap between the fence bottom and tank top, follow the post spacing recommendations found in *Table 3*. Lock all gates to discourage access. Increase the fence height near ramps so that there is at least 1.5 m (5 ft) of barrier above the top of the ramp.

Construct solid board or steel fences according to Canada Plan Service Plan No.8368. If vertical boards are used for cladding, fit them together tightly. Mount pressure-treated wood posts on a tank wall by bolting them to steel brackets that are lagged to the top of the concrete wall. A preferred alternative for the posts would be to use 89 mm (3 in.) heavy. walled galvanized pipe embedded 0.6 m (2 ft) in the concrete wall. Posts must be capped to keep water out. Follow recommendations in *Table 3* for post spacing

A. Storage Partially Below Grade Safety Fence Installed at Ramp Location



B. Storage Below Grade Safety Fence

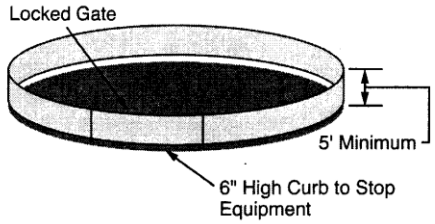


FIGURE 2. Liquid storage must have safety fences at least five feet from the ground level.

9.3	1.2
12.5	1.2
15.6	1.8
18.8	1.8
21.8	2.5
25	2.5
28.1	2.5
31.3	3.0