

**BMP 1 – IMPROVED MANURE STORAGE AND HANDLING**

**OBJECTIVES**

- To increase storage capacity for better planning of manure application;
- To increase protection of groundwater and surface water; and,
- To improve air quality due to the decreased frequency of handling and the use of a contained source of manure.

**Note:** Runoff control structures are funded under the “Farmyard Runoff Control” beneficial management practice description.

**SPECIFIC CONDITIONS FOR ELIGIBILITY:**

- Federal funding for beneficial management practices is for existing herd size/number of animal units at the time of application.
- Professional Engineer stamped assessment and detailed drawings are required prior to approval for manure storage.
- Non-livestock producers accepting livestock manure as a nutrient (as part of their Nutrient Management Plan (NMP) and the livestock producer’s plan) and storing, treating and applying the manure to land under their control that is producing agricultural crops are also eligible. However, this incentive does not apply to operations that intend to store, treat and sell manure or compost strictly as a commercial venture.

Eligible Items	Cost Share (%)		Federal Maximum	
	Provincial	Federal	Item Cap	Activity Cap
<ul style="list-style-type: none"> <li>• Engineered assessment and design (must indicate capacity for existing and proposed storage)</li> <li>• Building permits</li> <li>• Soil testing for clay content</li> <li>• Ground excavation/site preparation (including gravel, equipment rental, weeping tile, etc.)</li> <li>• Manure storage concrete floors</li> <li>• Manure storage walls: may use concrete or pressure treated lumber</li> <li>• CSA approved covers for manure only storage</li> <li>• Concrete slats</li> <li>• Incremental labour for construction</li> <li>• Manure pit/lagoon safety fence</li> <li>• Approved metal/steel storage tanks for temporary manure storage (mink only)</li> <li>• Permanent manure storage for mink - must be concrete structure</li> <li>• Eavestroughing - if identified as needed in the engineer’s assessment</li> </ul>	50	25		\$30 K
<ul style="list-style-type: none"> <li>• Construction of access road to satellite storage when building a new satellite storage facility (permit, culvert, road construction costs)</li> </ul>	N/A	25	\$5,000	
<ul style="list-style-type: none"> <li>• Costs for stationary transfer pump and pipe to move manure from limited storage to a location of increased storage on main farm</li> <li>• Costs of installing shallow observation wells or piezometers for existing or new manure storage as identified by a professional engineer’s assessment</li> <li>• Installed concrete under pens in new or existing mink facilities to contain manure</li> <li>• Cost and installation of manure troughs and transfer pump and pipe of liquid manure to storage (fur-bearing animal buildings)</li> <li>• Cost and installation of a mechanical system for solid manure removal to storage in fur-bearing animal buildings, e.g., modification to front-end loaders</li> <li>• Conveyance pipe to transfer milkhouse/parlor wastewater to manure storage</li> </ul>	N/A	25		

**BMP 1 – IMPROVED MANURE STORAGE AND HANDLING - continued**

**Note:** The following is required in the Professional Engineer Assessment:

- Farm business name, contact and address
- Date of visit
- Proposed project start and end dates
- Project description:
  - Type and size (number of animal units at assessment) of current operation
  - Type of existing manure storage facility and capacity
  - Environmental risk
  - Proposed work - Type of storage, materials (use of recommended materials) and capacity. If it is to be an earthen manure storage, the assessment must include clay content, subsoil texture, average depth to groundwater, location of springs, depth to shale or bedrock.
  - Separation distances based on existing construction guidelines (well, water courses, property lines, etc)
  - Soil type
  - Recommendations / issues
  - Land base available to utilize manure
  - Stamped professional detailed drawings