# Manure Storage & Runoff Reduction

| Projects | Grant Rate | Maximum Grant |
|---|---|---|
| **Barn Eavestroughing & Discharge Piping** | **50%** | **$2,500** |
| **Livestock Yard Diversion Berms & Drainage** | | |
| **Manure Storage** | **30%** | **$5,000** |

**Rationale:**

- **Manure Storage**: To collect and store manure to minimize leaching and surface runoff. Between 20-40% of phosphorus can be lost from open lots.
- **Clean Water Diversion**: To prevent the contact of clean-water (i.e. rain and snow) with manure around barnyard, and livestock yards, so that ground & surface water is protected from bacteria and nutrients. This reduces nutrient loss to leaching and runoff.

Liquid Manure Storage (GRCA)

Covered solid manure storage (OMAF)

Steel eaves funnel clean rainwater into a big-O pipe that directs water into a swale away from the barn and livestock yard.

**Eligible Projects:**

**Manure Storage & Collection**:

- Pit & Slats (subfloor storage)
- Roofed & Paved Yard & Impermeable Storage
- Concrete Lagoon for liquid manure
- Impermeable containment (e.g. concrete, steel glass-lined bins)
- Manure collection enhancements: pit and slat for subfloor storage, paved yard
- **Note**: Earthen storages are not eligible because they do not provide sufficient phosphorus retention

**Clean Water Diversion:**

- Clean water diversion structures:
- Covered storages
- Barn eaves troughs (on yard side)
- Berms, drains & ditches, that keep clean water away from livestock yards or manure storage
- Roofing high density livestock yards

**Conditions:**

- The project must be maintained in good condition for its intended purpose for at least 10 years.
- Must meet or exceed legal requirements
- Storage have >240 days of capacity
- Downspouts located where livestock can access them must be made of schedule 40 PVC (or stronger) and be well secured.
- Berms, tile outlets and ditches must be properly protected from erosion.
- Projects need to be designed to improve water quality and overall stream health.

**Nottawasaga Valley Conservation Authority**
**Healthy Waters Project**

**Eligible Costs**

- Purchased materials and supplies
- Contract labour (from registered company)
- Profession fees (consulting/engineering) for design, construction and supervision.
- Manure storage covers and roofs
- Walls around yards to direct contaminated precipitation into a runoff storage: Regardless of height, only an equivalent 0.3 m (1 ft) concrete wall and the footing will be funded
- Upgrading storages to increase the existing capacity to 240 - 400 days
- Disconnection or plugging of existing tile-drain outlets near manure storage.

**Ineligible Costs:**

- Receipts dated before grant approval letter are ineligible
- If the work is under order by any regulatory agency, it does not qualify for grant funding.
- Manure spreading equipment
- Continual operating costs & repair
- Purchase of equipment and machinery
- Grants will not be provided for costs of in-kind labour and machine time, equipment and personal expenses of the applicant(s), the applicant(s) business, or family members

*Work that proceeds prior to funding approval does not qualify for funding assistance.*
*If the work is under order by any regulatory agency, it cannot qualify for funding assistance.*

**Manure Storage: Siting and Design**

Contact an OMAF Nutrient Management Specialist for details at the hotline:
1-877-424-1300

The proposed manure storage facility must meet all applicable legislation, including the Nutrient Management Act, 2002 (NMA) and the associated Regulation O. Reg. 267/03 (as amended to O. Reg. 511/05), as well as municipal bylaws.

**Key Points:**

- Building permit is usually required
- A professional engineer or geo-scientist will likely need to be engaged for design
- Any perforated tile drain close to the storage must be removed unless it is required as a foundation drain.
- If any component of the facility is constructed of earth, that component must be designed and constructed using the specifications for earthen storage construction
- Proper setbacks from sensitive features (such as wells, surface water and conflicting uses) are required by NMA Regulation to be at least:
  - 15 m from a drilled well (>15m deep with a >6m watertight casing)
  - 100 m from a municipal well
  - 30 m from any other well
  - Sited outside of the floodplain, a CA permit will be required if the site is within the regulated area.
  - >50m flow-path to watercourse or tile inlet

**This is not a complete summary of regulations, contact OMAF for further details.**