

# Technical Guideline Listing

## Technical Advisory Group

The Technical Advisory Group (TAG) is a partnership between the Natural Resources Conservation Board (NRCB) and Agriculture and Forestry (AF), with representation from the livestock industry. Its purpose is to develop technical guidelines that support the *Agricultural Operation Practices Act (AOPA)*.

Technical guidelines clarify and provide guidance on practical and technical aspects of AOPA and its regulations. Guidelines are reviewed and updated as needed every five years.

The advisory group is responsible for addressing areas of AOPA that require technical guidance, based on staff and stakeholder feedback. The guidelines are developed by teams of technical experts from the NRCB, AF, and industry, with assistance from external sources as required.

Technical Advisory Group Membership	
Organization	# of Representatives
Agriculture and Forestry	1 co-chair and 2 members
Natural Resources Conservation Board	1 co-chair and 2 members
Livestock industry	2 members

## Technical Guidelines

The following technical guidelines are available on the AF and NRCB websites.

### Groundwater

- [Leak Detection Groundwater Monitoring Parameters](#)  
(*Technical Guideline Agdex 096-52*)

Clarifies required groundwater monitoring parameters to ensure that the appropriate parameters are analyzed and the performance of manure storage facilities is assessed accurately.
- [Leak Detection Groundwater Sampling](#)  
(*Technical Guideline Agdex 096-53*)

Provides guidance on how to correctly and consistently collect groundwater samples for leak detection monitoring at CFOs, to ensure that the data is accurate and can support sound technical decisions.
- [Monitoring Well Construction, Installation and Development](#)  
(*Technical Guideline Agdex 096-51*)

Provides guidance on recommended and preferred protocols to construct, install, and develop groundwater monitoring wells to minimize the impact on groundwater quality during construction.
- [Reclamation of Groundwater Monitoring Wells](#)  
(*Technical Guideline Agdex 096-50*)

Explains how to reclaim a groundwater monitoring well to prevent contaminated surface water from reaching groundwater, and to prevent groundwater movement and transfer between aquifers.
- [Reclamation of Groundwater Monitoring Wells Worksheet](#)  
(*Supplement to Technical Guideline Agdex 096-50*)

An easy to use format for recording reclamation information. Intended to be used in conjunction with Technical Guideline Agdex 096-50.

## Manure Application

Definitions for Frozen and Snow-covered Land  
(*Technical Guideline Agdex 096-70*)

This brief guideline defines the terms frozen and snow covered land and explains how to test for those conditions.

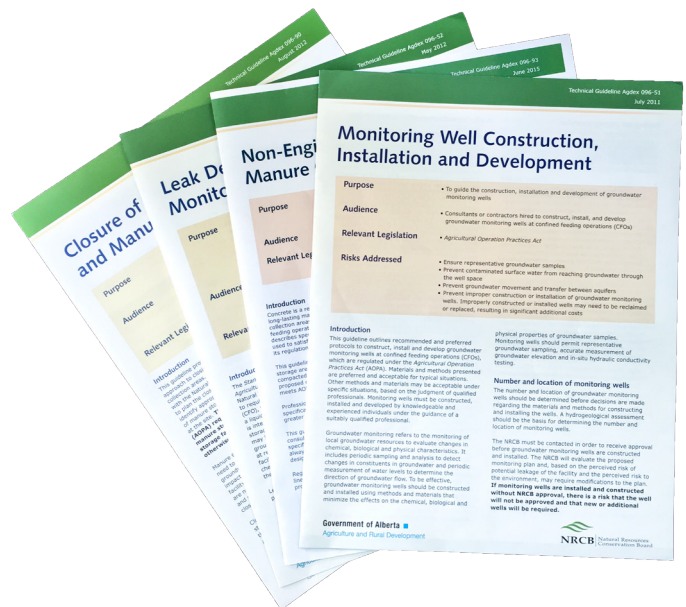
## Manure Storage Facilities and Manure Collection Areas

- **Closure of Manure Storage Facilities and Manure Collection Areas**  
(*Technical Guideline Agdex 096-90*)  
Explains how to permanently close manure storage facilities to ensure that groundwater and surface water are protected from contamination.
- **Closure of Manure Storage Facilities and Manure Collection Area Worksheet**  
(*Supplement to Technical Guideline Agdex 096-90*)  
An easy to use format for recording required information when a manure storage facility or collection area is closed. Intended to be used in conjunction with Technical Guideline Agdex 096-90.
- **Temporary Suspension of Manure Storage Facilities**  
(*Technical Guideline Agdex 096-91*)  
Provides guidance to ensure that the temporary suspension of a manure storage facility protects groundwater and surface water from contamination.
- **Non-Engineered Concrete Liners for Manure Collection and Storage Areas**  
(*Technical Guideline Agdex 096-93*)  
Addresses the design and construction of non-engineered concrete liners for manure collection and storage areas at CFOs.

- **Determining Equivalent Protective Layers and Constructed Liners**  
(*Technical Guideline Agdex 096-61*)  
Explains how to calculate the hydraulic conductivity of naturally occurring protective layers and constructed earthen liners in order to determine if a liner is equivalent to or greater than the requirements set out by AOPA.

## Permitting

- **Calculator for Determining Livestock Capacity of Operations as they Existed on January 1, 2002**  
(*Technical Guideline Agdex 096-81*)  
Provides a tool for calculating livestock capacity as of January 1, 2002. The calculation is based on specific housing systems for five major livestock species: beef, dairy, swine, poultry, and sheep.



## For more information

Contact your nearest NRCB field office or an AF extension specialist (dial 310-0000 to be connected toll free)

**Alberta Agriculture and Forestry**  
[www.agriculture.alberta.ca/aopa](http://www.agriculture.alberta.ca/aopa)  
 Ag Info Centre 310 FARM (3276)  
 Publications (780) 427-0391

**Natural Resources Conservation Board**  
[www.nrcb.ca](http://www.nrcb.ca)  
 Fairview (780) 835-7111  
 Morinville (780) 939-1212  
 Red Deer (403) 340-5241  
 Lethbridge (403) 381-5166