

Technical Guideline Listing

Technical Advisory Group

The Technical Advisory Group (TAG) is a partnership between Alberta Agriculture and Irrigation (AGI) and the Natural Resources Conservation Board (NRCB), 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 AGI, the NRCB, and industry, with assistance from external sources as required.

Technical Advisory Group Membership	
Organization	# of Representatives
Agriculture and Irrigation	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 Alberta’s [Open Government Portal](#), as well as AGI and NRCB websites.

Groundwater

- [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 \(Supplement\)](#)
An easy-to-use format for recording reclamation information. Intended to be used in conjunction with *Technical Guideline Agdex 096-50*.
- [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.

- [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 collect groundwater samples correctly and consistently for leak detection monitoring at confined feeding operations, to ensure that the data is accurate and can support sound technical decisions.

Subsoil Investigations

- [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 to determine if a liner is equivalent to or greater than the requirements set out by AOPA.

- [Subsoil Investigations for Manure Storage Facilities and Manure Collection Areas](#)
(*Technical Guideline Agdex 096-62*)
Provides consistent processes and methodologies for determining the depth to the water table and the uppermost groundwater resource when conducting a subsoil investigation for a proposed manure storage facility or manure collection area.
- [Subsoil investigations for naturally occurring protective layers](#)
(*Technical Guideline Agdex 096-63*)
Provides a consistent investigative process and acceptable criteria for conducting subsoil investigations for naturally occurring protective layers.
- [Subsoil Investigations for Compacted Soil Liners](#)
(*Technical Guideline Agdex 096-64*)
Provides a consistent, investigative process and acceptable criteria for conducting subsoil investigations for compacted soil liners.

Manure Application

- [Frozen and Snow-Covered Land](#)
(*Technical Guideline Agdex 096-70*)
Provides explanation of frozen and snow-covered land and how to test for those conditions.

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.

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*)
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 confined feeding operations.
- [Identifying Manure Storage Facilities and Manure Collection Areas at Confined Feeding Operations](#)
(*Technical Guideline Agdex 096-94*)
Identifies manure storage facilities and manure collection areas of confined feeding operations so that the groundwater protection requirements of AOPA can be met.

For more information

Contact your nearest NRCB field office or Alberta government staff

Government of Alberta
alberta.ca/manure-management-guidelines-and-legislation

Phone 310 FARM (3276)
Publications see [Technical Guideline Listing](#) on open.alberta.ca
Email 310FARM@gov.ab.ca

Natural Resources Conservation Board
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