

APPENDIX C TO FIELD SERVICES SUBMISSION

Technical Advisory Group (TAG)

Investigating the Possibility of Developing a TAG Guideline for the Use of Roller Compacted Concrete as a Liner Under the Agricultural Operation Practices Act

Project Overview

Roller compacted concrete (RCC) has been readily adopted by the feedlot industry as pen floor amendment. Feedlots have been using RCC in existing pens to protect the clay base of the pen. There are no concerns related to AOPA and the use of RCC as a pen floor amendment.

However, there has been interest expressed about using RCC as a liner in a manure storage or collection area. The Agricultural Operation Practices Act (AOPA) requires all new or expanding manure storages or collection areas to have a protective layer or liner that meets the requirements in the Standards and Administration Regulation. Generally it is the clay floor and subsoils below the clay pen floor that are acting as the protective layer or liner.

AF contacted Concrete Alberta, an industry group for advice on the use of RCC as a liner under AOPA. In 2017, Concrete Alberta responded that it recommends RCC not be used as a liner and conclude that RCC would be a durable pen floor amendment. There is at least one consultant that believes they have solutions to the issues that prevent Concrete Alberta from recommending RCC as a liner material.

TAG status of project

At our March 16, 2020 TAG meeting, TAG reached consensus to move forward with a charter for a 3 person team to investigate if there is enough information for TAG to try develop an RCC technical guideline.

Project Objectives

The project will meet the following objective:

- Determine if there is sufficient scientifically based information to support the development of a TAG guideline for the construction and maintenance of RCC as a liner under the Standards and Administration Regulation.

Project Outcomes

- The team will provide a report that identifies:
 - The information available for the development of a guideline
 - The knowledge gaps that must be filled before developing a guideline
 - Other team discussion points that the team decides should be brought forward to TAG.
 - Recommendation to TAG on whether (or not) to develop an RCC guideline

Project Scope

In Scope

- Literature reviews and interviews related to the use of RCC as a liner material under AOPA
- Identifying information gaps needed to determine if RCC can be used as a liner material

Out of Scope

- Investigating liner materials or potential liner materials other than RCC
- Conducting policy analysis
- Conducting research projects
- Implementing extension activities
- Development of an RCC guideline

Project Timing

- Project meetings will be held as necessary to achieve outcomes
- Provide a project update/progress report at TAG meetings
- Complete a final report no later than the December 2020 TAG meeting

Project Risks

Risk Area	Level (H/M/L)	Risk Plan
Completing the project due to workloads	M	Limiting the scope of the project and maintaining an organized team.

TAG Technical Working Team

If the team has challenges making decision, the team lead is to consult with the TAG co-chairs.

Team Lead: Virginia Nelson, AF

Project Team:

Virginia Nelson, AF

Brian Koberstein, ABP

Stephanie Fleck, NRCB

Roles and Responsibilities

Role	Responsibility
Team Lead	Provide strategic direction and project management Ensure progress is appropriate and continuous Coordinate communication with TAG co-chairs and TAG as required

	Report project outcomes
Project Team	Review AOPA requirements Review Concrete Alberta letter on the use of RCC Conduct literature review and interviews as necessary Provide experience and expertise to achieve project outcomes Prepare a report to TAG