

Part 2 – Technical Requirements

Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

NRCB USE ONLY	Application number RA24029	Legal land description E1/2 7-29-27 W4M
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment		

APPLICATION DISCLOSURE

This information is collected under the authority of the *Agricultural Operation Practices Act (AOPA)*, and is subject to the provisions of the *Freedom of Information and Protection of Privacy Act*. This information is public unless the NRCB grants a written request that certain sections remain private.

Any construction prior to obtaining an NRCB permit is an offence and is subject to enforcement action, including prosecution.

I, the applicant, or applicant's agent, have read and understand the statements above, and I acknowledge that the information provided in this application is true to the best of my knowledge.

June 5 2024

Date of signing

Neudorf Hutterian Brethren

Corporate name (if applicable)

Signature

Mike Wipf

Print name

GENERAL INFORMATION REQUIREMENTS

Proposed facilities: list all proposed confined feeding operation facilities and their dimensions. Indicate whether any of the proposed facilities are additions to existing facilities. (attach additional pages if needed)

Proposed facilities	Dimensions (m) (length, width, and depth)
New Layer Barn 128.4 m x 26.4 m	421' 4" long by 86' 6"
Attached Air Intake Room (ancillary structure) (26.2 m x 1.8 m)	86' by 6'
Converting Existing Layer Barn to Pullet Barn	
Existing Pullet Barn to Non-manure Storage	

Existing facilities: list ALL existing confined feeding operation facilities and their dimensions

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Breeder Barn	45.96 m by 84.49 m	Confirmed
Hog Finisher Barn	50.41 m by 108.14 m	
Dairy	108.5 m by 18.3 m	
NRCB USE ONLY		

Part 2 – Technical Requirements

Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

If a new facility is replacing an old facility, please explain what will happen to the old facility and when. N/A

Construction completion date for proposed facilities Dec 1 2026

Additional information

Livestock numbers: Complete only if livestock numbers are different from what was identified in the Part 1 application. Note: if livestock numbers increase in your Part 2 application, a new Part 1 application must be submitted which may result in a loss of priority for minimum distance separation (MDS).

Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	Permitted number	Proposed increase or decrease in number (if applicable)	Total
Same as Part 1 (rewritten by AO for clarity)			
Sows (farrow to finish)	400		400
Dairy cows	85		85
Broilers	2000		2000
Layers	22600	17400	40000
Pullets	11000	11000	22000
Turkeys	300		300
Ducks	900		900

Part 2 – Technical Requirements

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DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

issued by Alberta Environment and Protected Areas (EPA) for a confined feeding operation (CFO)

Date and sign one of the following four options

OPTION 1: Applying through the NRCB for both the AOPA permit and the Water Act licence

I **DO** want my water licence application coupled to my AOPA permit application.

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

OPTION 2: Processing the AOPA permit and Water Act licence separately

1. I (we) acknowledge that the CFO will need a new water licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. I (we) request that the NRCB process the AOPA application **independently of** EPA's processing of the CFO's application for a water licence.
3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.
4. I (we) acknowledge that any construction or actions to populate the CFO with livestock pursuant to an AOPA permit in the absence of a *Water Act* licence will **not** be relevant to EPA's consideration of whether to grant the *Water Act* licence application.
5. I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the *Water Act* licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the *Water Act*. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the *Water Act*).
6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
7. **Provide:** Water licence application number(s) _____

Signed this 5 day of June, 2024.

Signature of Applicant or Agent

[Applicant has previously provided the NRCB with copies of their water licences](#)

OPTION 3: Additional water licence not required

1. I (we) declare that the CFO will not need a new licence from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. **Provide:** Water license number(s) or water conveyance agreement details _____

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

Part 2 – Technical Requirements

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GENERAL ENVIRONMENTAL INFORMATION

(complete this section for the worst case of the existing facility which is the closest to water bodies or water wells and for each of the proposed facilities)

Facility description / name (as indicated on site plan)

Existing: Existing layer barn

Proposed 1: New Layer Barn

Proposed 2: _____

Proposed 3: _____

Facility and environmental risk information		Facilities				NRCB USE ONLY	
		Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
Flood plain information	What is the elevation of the floor of the lowest manure storage or collection facility above the 1:25 year flood plain or the highest known flood level?	<input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> >1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Confirmed
	How many springs are within 100 m of the manure storage facility or manure collection area?		None			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	No springs observed at site
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?		None			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Confirmed
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)		70m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Existing swine barns approx 40 m to dugout. New barn will be approx 70 m to dugout.
Groundwater information	What is the depth to the water table?		10m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Confirmed
	What is the depth to the groundwater resource/aquifer you draw water from?		45m - 60m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	UGR previously assessed at 18.6 m in WW 153566 (decommissioned)

Additional information (attach supporting information, e.g. borehole logs, records, etc. you consider relevant to your application)

It Should Be Very Much The Same As The Existing Hog Operation Since The Proposed Site Is 91m Parallel To The South

Part 2 – Technical Requirements

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DISTANCE OF ANY MANURE STORAGE FACILITY (EXISTING OR PROPOSED) TO NEIGHBOURING RESIDENCES

Neighbour name(s)	Legal land description	Distance (m)	NRCB USE ONLY				
			Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Brunw	SE 17-29-27-W4	4,700	Ag	1	1517 m		Yes
Cory MB	SE 5-29-27-W4	3,000	Ag	1	This LLD doesn't appear to have a residence		
Richardson Macarthur	SE 13-29-27-W4	6,000	Ag	1	>7700 m		Yes
Miller Contrada	SE 20-29-27-W4	4,900	Ag	1	>2900 m		Yes
Meggit	Parcel south of colony, may be a residence		Ag	1	1221 m		Yes

LAND BASE FOR MANURE AND COMPOST APPLICATION (complete only if an increase in livestock or manure production will occur)

Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	NRCB USE ONLY	
				Usable area (ha)	Agreement attached (if required)
Neudorf Colony	All -21-29-27-W4	640	Black		
Neudorf Colony	-20-29-27-W4	120	Black		
Neudorf Colony	SE,NE -17-29-27-W4	440	Black		
Neudorf Colony	E 1/2 -18-29-27-W4	280	Black		
Neudorf Colony	All- 7-29-27-W4	200	Black		
Total				1680 ac	

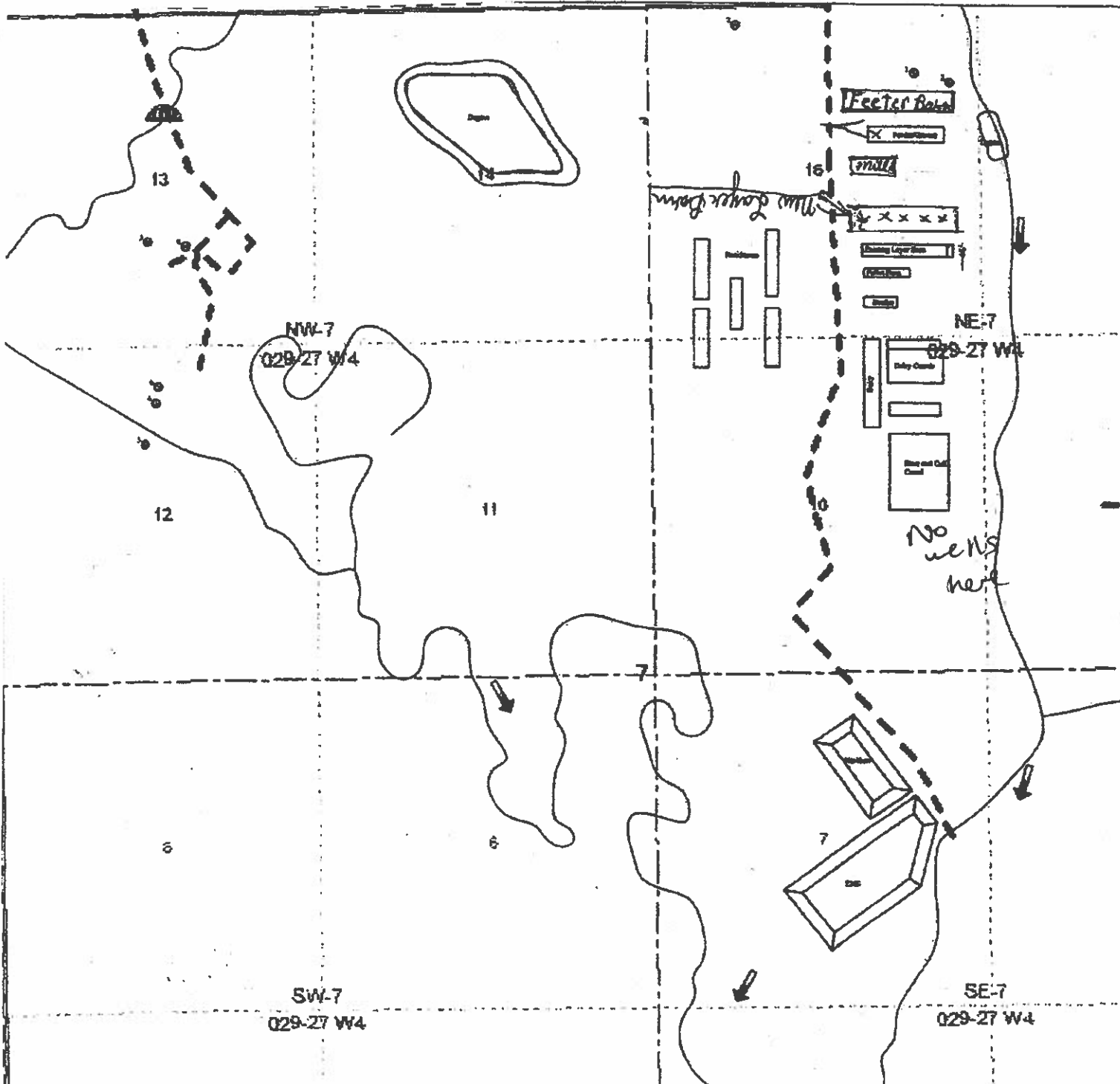
* If you are **not** the registered landowner, you must attach copies of land use agreements signed by all landowners.

** Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 [Manure Spreading Regulations](#))

*** Brown, dark brown, black, grey wooded, or irrigated

Additional information (attach any additional information as required)

Additional (Our Own) 4,000 Acres Of Crop Land That Can Be Used To Spread Manure If Required (That Pass The Manure Spreading Regulation)



NOTES

Legend

Proposed Location

General Run-Off Direction

Water Well

- 1.ID # 0153566
- 2.ID # 0153564
- 3.ID # 0113605
- 4.ID # 16100122 (was 0289697)
- 5.ID # 1600050
- 6.ID # 1600049
- 7.ID # 1020824
- 8.ID # hand dug - no record-closed

OWNER
Neendorf Hutterian Brethren

PURPOSE
Site Plan for Proposed development

TITLE
Site Plan for RA13033

LOCATION
E-1-26-27 W4
In the County of Minnehaha, S.D.

21-Pr+13 | 1

Part 2 – Technical Requirements

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SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner

(complete a copy of this section for **EACH** barn, feedlot, and storage facility for solid manure, composting materials, or compost with a concrete liner)

Facility description / name (as indicated on site plan) **1.** Layer barn
2. _____

Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m ³)
1.	421' 4"	86' 6"	0	adequate capacity app will use STMS
2.				
TOTAL CAPACITY				

I plan to use a short-term solid manure storage (STMS) as part of my manure storage and handling plan for this CFO. The AOPA requirements for STMS are set out in the NRCB [Short-Term Solid Manure Storage Requirements Fact Sheet](#).

Surface water control systems

Describe the run-on and runoff control system
 Indoor barn

Liner protection

Describe how the physical integrity of the liner will be maintained
 regular maintenance

NRCB USE ONLY
 Requirements met: YES NO

Part 2 – Technical Requirements

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SOLID MANURE, COMPOST, & COMPOSTING MATERIALS: Barns, feedlots, & storage facilities - Concrete liner (cont.)

Concrete liner details

Concrete thickness 6"	Method of sulphate protection: Sulphate resistant blend
Concrete strength 25 MPA	Concrete reinforcement size and spacing 1/2" rebar every 12"

Concrete requirements can be found in Technical Guideline Agdex 096-93
 Guideline minimums:
 Solid manure: 25MPa (D)
 Solid manure (wet): 30MPa (C)
 Method of sulphate protection:
 Type 50 or Type 10 with fly ash or equivalent

NRCB USE ONLY

Requirements met: YES NO
 Condition required: YES NO
 Report attached: YES NO

Additional information (attach as required)

NRCB USE ONLY

Nine month manure storage volume requirements met YES YES With STMS NO

Depth to water table: 10 m Requirements met: YES NO

Depth to Uppermost groundwater resource: 18.6 m Requirements met: YES NO

ERST completed: see ERST page for details

Surface water control systems

Requirements met: YES NO Details/comments: Enclosed barn

Concrete liner details

A condition will be added requiring applicant to provide proof that the concrete liner meets our technical guidelines

Leakage detection system required: YES NO If yes, please explain why.

Part 2 – Technical Requirements

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NRCB USE ONLY
ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for **proposed** facilities

Facility	Groundwater score	Surface water score	File number
Layer barn	low	low	RA24029
Conversion layer to pullet barn	low	low	RA24029

ERST for **existing** facilities

Facility	Groundwater score	Surface water score	File number
Sow barn	Low	Low	RA16022
EMS	Low	Low	RA16022

ERST related comments:

The sow barn and EMS contain liquid manure and are therefore considered to be the highest risk facilities. Because these facilities scored as low potential risk, all other facilities are presumed to also be low risk

Part 2 – Technical Requirements

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NRCB USE ONLY

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: 1600050 NW 256345 NW 289697 NW
1600049 NW None on SE

Except for the EMS, all CFO facilities are located on the NE quarter. Site gets water from wells on NW quarter.

Surface water related concerns from directly affected parties or referral agencies: YES NO

Groundwater related concerns from directly affected parties or referral agencies: YES NO

Water wells N/A

If applicable, exemption for 100 m distance requirements applied: YES NO Condition required: YES NO

Surface water N/A

If applicable, exemption for 30 m distance requirements applied: YES NO Condition required: YES NO

Water Well Exemption Screening Tool N/A

Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility

Groundwater or surface water related comments:

Part 2 – Technical Requirements

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MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): Aerial photography

Margin of error (if applicable): +/2 m

Requirements (m): Category 1: 682 Category 2: 909 Category 3: 1136 Category 4: 1818

Technology factor: YES NO

Expansion factor: YES NO

MDS related concerns from directly affected parties or referral agencies: YES NO

LAND BASE FOR MANURE AND COMPOST APPLICATION

Land base required: 432.9 ha

Land base listed: 1680 ac/680 ha

Area not suitable: accounted for

Available area: 1680 ha

Requirement met: YES NO

Land spreading agreements required: YES NO

Manure management plan: YES NO If yes, plan is attached:

PLANS

Submitted and attached construction plans: YES NO

Submitted aerial photos: YES NO

Submitted photos: YES NO

GRANDFATHERING

Already completed: YES NO N/A

If already completed, see RA04011

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NRCB USE ONLY

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

June 5, 2024	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: June 18, 2024

Municipality: Mountain View County

letter sent response received written/email verbal no comments received

Alberta Health Services: N/A

letter sent response received written/email verbal no comments received

Alberta Environment and Parks: N/A

letter sent response received written/email verbal no comments received

Alberta Transportation: N/A

letter sent response received written/email verbal no comments received

Alberta Regulatory Services: N/A

letter sent response received written/email verbal no comments received

Other: Rockyview Gas Coop, TAQA North, Altalink Management, Fortis N/A

letter sent response received written/email verbal no comments received

Other: Rocky View County (sent July 16, 2024) N/A

letter sent response received written/email verbal no comments received