

Technical Document FA25002

Part 2 — Technical Requirements



NRCB | Natural Resources
Conservation Board

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

Legal land description

- ☒ Approval ☐ Registration ☐ Authorization
☐ Amendment

FA25002

W1/2 34-77-2 W6M

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.

April 2, 2025

Date of signing

Signature

Hutterian Brethren Church of Wanham

David Tschetter

Corporate name (if applicable)

Print name

(Shady Lane Breeder Farm inc.)

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)
Layer Barn ,	63m x 28.6 m
Manure Room	29 m x 7.3 m
Grading Area	41.6 m x 15.2 m

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Existing Layer Barn	55m x 15m x 4m	(to be converted to pullets)
Hog Barn	128 x 49	
Lagoon	20.48 x 60.97 3 121.95 60.97	

NRCB USE ONLY

Confirmed existing CFO

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

The New layer barn will replace the old layer barn to address the industry animal wellness push and increased egg production needs.

The old Layer barn will be converted into raising laying pullet birds for the new Layer Barn.

May 2026

Construction completion date for proposed facilities

Additional information

Application to increase chicken layers to 34,000 (plus associated pullets)

Also removing 2 dairy cows as they are personal consumption and not being managed as CFO.

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
Livestock category and type (Available in the Schedule 2 of the Part 2 Matters Regulation)	Permitted livestock numbers	Proposed increase or decrease in number (if applicable)	Total
Layers (plus associated pullets)	10,000	24,000	34,000
Sheep Ewes	100	-100	0
Sheep Feeder Lambs	100	-100	0
Broilers	300	0	300
Ducks	1000	0	1000
Geese	150	0	150
Feeder Pigs	8000	0	8000

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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 2 day of April, 2025.

Signature of Applicant or Agent

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

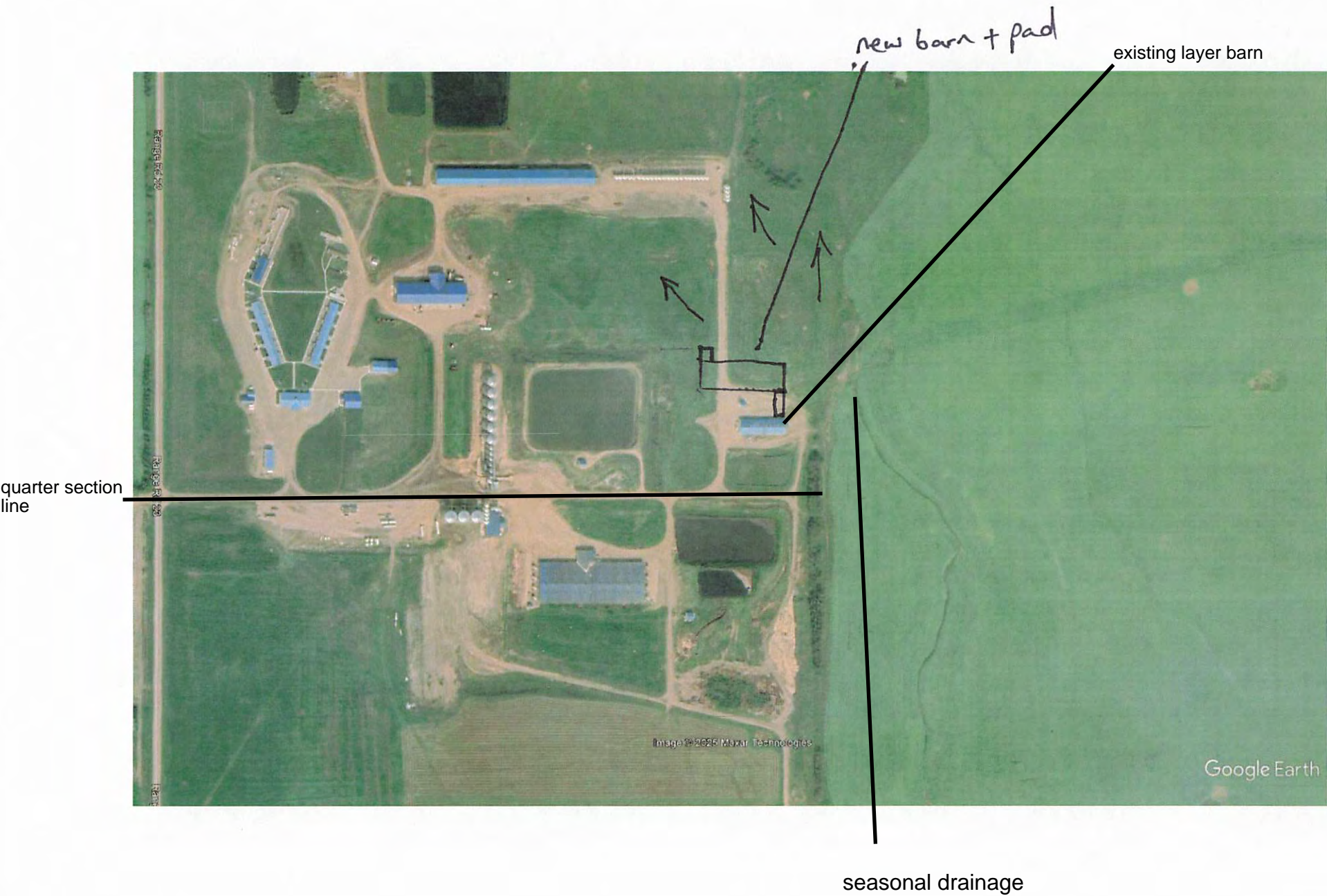
Application under the *Agricultural Operation Practices Act* for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

OPTION 4: Uncertain if *Water Act* licence is needed; acknowledgement of risk (for existing CFOs only)

1. At this time, I (we) do not know whether a new water licence is needed from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
2. If a new *Water Act* licence is needed, 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 additional 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 my *Water Act* licence application, if a new water licence is needed.
5. I (we) acknowledge that any such construction or livestock increase 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*).
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Signed this ____ day of _____, 20____.

Signature of Applicant or Agent



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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: Lager Barn

Proposed 1: New Lager 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	Not in flood plain
	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None known
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	0	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	60	60			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	61 m East, seasonal drainage
Groundwater information	What is the depth to the water table?		10 m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	No signs of a shallow water table
	What is the depth to the groundwater resource/aquifer you draw water from?	—	—			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	No water wells on site. or in general area.

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

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NRCB USE ONLY

ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
See Decision Summary	FA25002		

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
EMS	Low	Low	FA25002
Swine barn	Low	Low	FA25002
Solid manure storage pad	Low	Low	FA25002
Layer barn (to be converted to pullet barn)	Low	Low	FA25002

ERST related comments:

Existing facilities rescored due to the development of the updated version of ERST.

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NRCB USE ONLY

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: No wells on site. _____

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:

Proposed facilities are enclosed buildings and meet AOPA setbacks to surface water.
No water wells in general area as surface water commonly used for water in this area.

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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)
①	Wells	NW33-77-2016		Ag	Cat 1	1845 m	N/A
②	Bush	SW4-78-246		Ag	Cat 1	1955 m	
③	unknown (North)	SW3-78-246		Ag	Cat 1	1183 m	
④	John S.	NW3-78-246		Ag	Cat 1	1621 m	

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

				NRCB USE ONLY	
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
See attached list from applicant					
			Total	2870 acres Grey	

* 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](#))

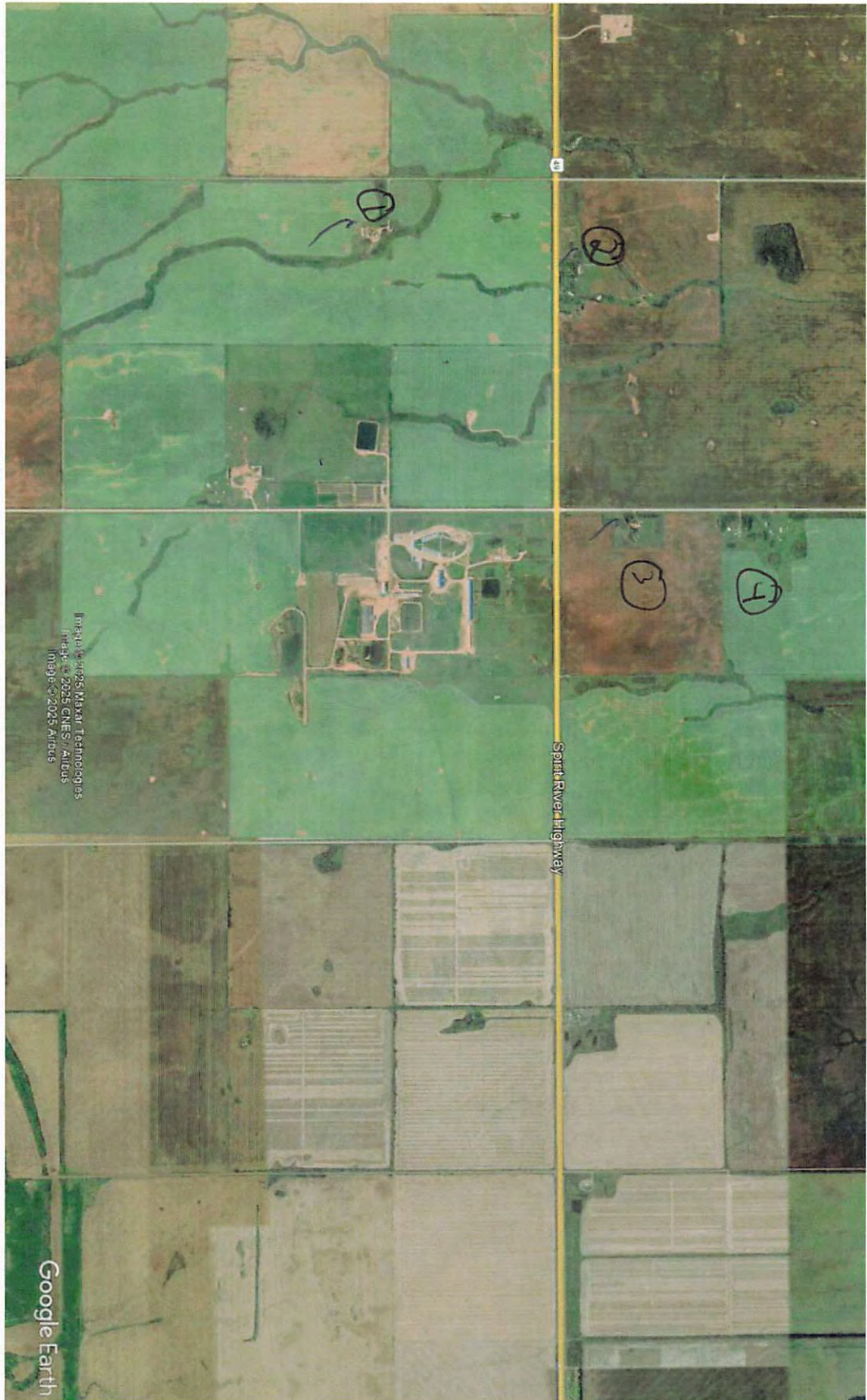
*** Brown, dark brown, black, grey wooded, or irrigated

Additional information (attach any additional information as required)

MANURE LAND BASE:

Qtr #	Acre	LLD	Grey soil zone
6	56	SW34-77-2-W6	
7	285	E34-77-2-W6	
8	150	NW27-77-2-W6	
9	156	NW26-77-2-W6	
10	154	NE26-77-2-W6	
11	154	SE35-77-2-W6	
12	152	NW35-77-2-W6	
26	300	W1-78-2-W6	
27	310	N2-78-2-W6	
29	155	NW9-78-2-W6	
30	300	S10-78-2-W6	
31	150	NE10-78-2-W6	
32	300	S11-78-2-W6	
33	248	W12-78-2-W6	
Total	2870		

MDS: reference for page 8



MDS

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MINIMUM DISTANCE SEPARATION

Methods used to determine distance (if applicable): Google earth

Margin of error (if applicable): n/a

Requirements (m): Category 1: 763 m Category 2: 1017 m Category 3: 1271 m Category 4: 2033 m

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: 757 ha Grey soil zone

Land base listed: 2870 ac (1161 ha)

Area not suitable: n/a

Applicant has provided adequate land base

Available area

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 _____

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ALL SIGNATURES IN FILE

☒ YES ☐ NO

DATES OF APPROVAL OFFICER SITE VISITS

April 2, 2025	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: May 6, 2025

Municipality: Birch Hills 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: _____ ☒ N/A

☐ letter sent ☐ response received ☐ written/email ☐ verbal ☐ no comments received

Other: _____ ☐ N/A

☐ letter sent ☐ response received ☐ written/email ☐ verbal ☐ no comments received

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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 Room

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.	63	28.6	0	
2.	29	7.3	0	

TOTAL CAPACITY

Adequate storage for solid manure on site

☐ 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

Manure is under roof, contained by concrete structure.
Runoff is directed around facilities.

Liner protection

Describe how the physical integrity of the liner will be maintained

Monitor for cracks and leaks. Fixed as required

NRCB USE ONLY

Requirements met: ☒ YES ☐ NO

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

Concrete liner details

Concrete thickness 8"	Method of sulphate protection: TSO Concrete-rebar
Concrete strength 25 mpa	Concrete reinforcement size and spacing Rebar Reenforced - C16

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: Meets requirements Requirements met: ☒ YES ☐ NO
No wells in area.

ERST completed: ☒ see ERST page for details

See Decision Summary FA25002

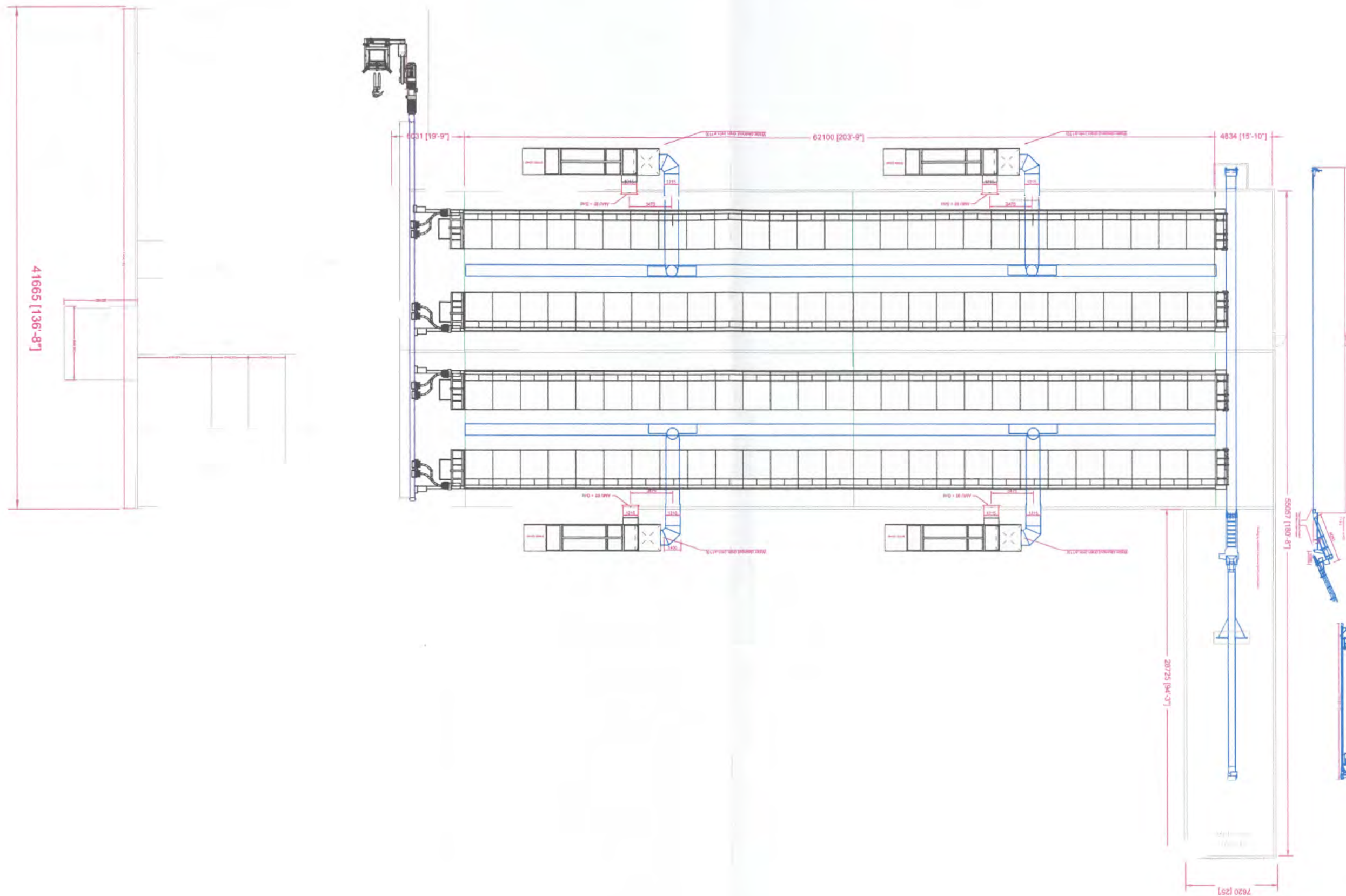
Surface water control systems

Requirements met: ☒ YES ☐ NO Details/comments:

Concrete liner details

Applicant to provide documentation confirming concrete information

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



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 Drw.nr.: Shady Lane 2025-03-17-