

Technical Document LA25018

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 LA25018	Legal land description SW 5-10-20 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.

Date of signing: **Feb 10 2025**
Signature: 
Corporate name (if applicable): **Prairie Brooks Poultry Ltd**
Print name: **Riley Liebling**

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)
Lay Barn 3	330'-40'-10' 91.4 m x 12.8 m
The barn will include two 10' (3 m) wide pits that are each 4' (1.2 m) deep and run the length of the barn.	

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Pullet Barn	80' 90', 80', 10'	
Lay Barn 1	40', 330', 10'	
Lay Barn 2	40', 330', 10'	

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Confirmed existing CFO

Under previous ownership and permits, lay barn 1, lay barn 2, and the pullet barn were referred to as the 'chicken breeder barn'

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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

Construction completion date for proposed facilities

December 2025

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
No changes from the part 1 application.			
Broiler breeder chickens	16,000	8,000	24,000
Chicken pullets	8,000	0	8,000

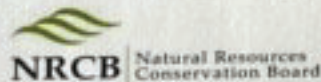
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DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

issued by Alberta Environment and Parks (AEP) 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 AEP 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 AEP'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 AEP 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 AEP'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.

Signed this ____ day of _____, 20____.

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 AEP under the Water Act for the development or activity proposed in this AOPA application.

Signed this 10 day of Feb, 2025.

City Water

Signature of Applicant or Agent

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 AEP 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 AEP'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 AEP 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 AEP'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: Lay Barn 1

Proposed 1: Lay Barn 3

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 height 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 not in a flood plain
Surface water information	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 observed during site visit
	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 registered on AB water wells database
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	400m	400m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	CFO is approx. 400 m E from Eight Mile Lake and 800 m W of irrigation canal
Groundwater information	What is the depth to the water table?		3m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	WW ID 241578 700m to W: static water level at 3.05 m
	What is the depth to the groundwater resource/aquifer you draw water from?	3m	3m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	WW ID 241573 UGR > 6.5 m

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

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ENVIRONMENTAL RISK SCREENING INFORMATION

ERST for **proposed** facilities

Facility	Groundwater score	Surface water score	File number
Lay barn 3	Low	Low	LA25018

ERST for **existing** facilities

Facility	Groundwater score	Surface water score	File number
Lay barn 1*	Low	Low	LA15020
Lay barn 2*	Low	Low	LA15020
Pullet barn*	Low	Low	LA15020
Male barn	Low	Low	LA15020
Outdoor manure storage	Low	Low	LA15020

ERST related comments:

* As seen on the site map on page 6, these barns are separate areas within the same structure and are not three separate barns. Additionally, under previous ownership and permits, these facilities were referred to as the 'chicken breeder barn'

Proposed CFO facilities that meet or exceed the technical requirements of AOPA are presumed to pose a low risk to surface water and groundwater.

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WATER WELL AND SURFACE WATER INFORMATION

Well IDs: None registered to LLD _____

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

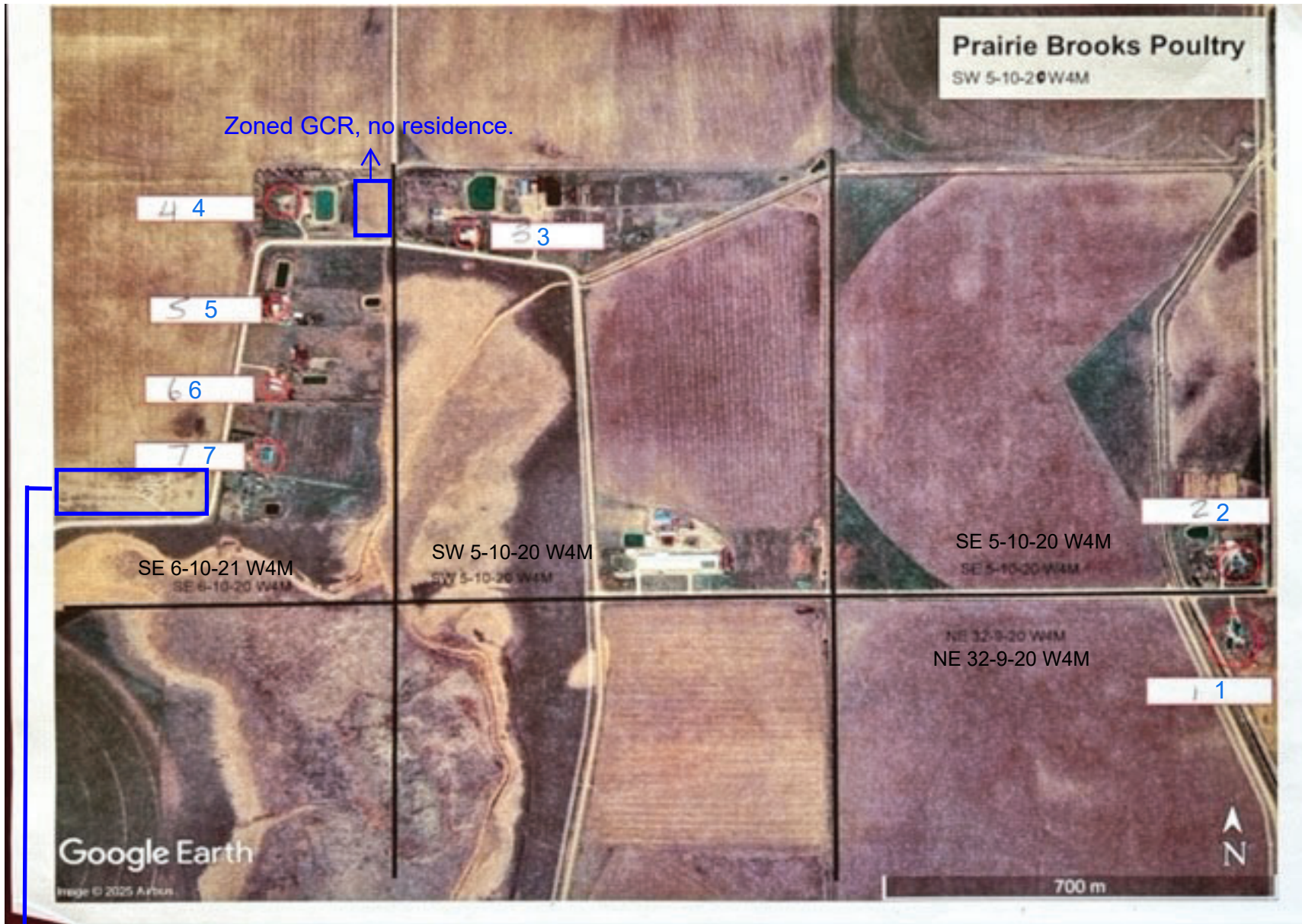
Surface water ☒ N/A

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:



There are two parcels here zoned Grouped Country Residential (GCR) (MDS category 2). Although not pictured, there are residences constructed on each parcel. The application meets the MDS to these residences.

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

Numbers correspond to residences indicated on page 9

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
1	NE-32-9-20 W4M	1600	Rural Ag	1	925 m	NA	Yes
2	SE-5-10-20 W4	1600	Rural Ag	1	918 m	↓	↓
3	SW-5-10-20 W4	1600	Rural Ag	1	660 m		
4	SE-6-10-20 W4M	1600	GCR	2	914 m		
5	SE-6-10-20 W4M	1600	Rural Ag	1	805 m		
6	SE 6-10-21 W4M		Rural Ag	1	724m		
7	SE 6-10-21 W4M		Rural Ag	1	732 m		

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)
RLU Ventures Ltd	SE-2-9-20	133 a	Brown	135 ac	Yes
403 Farms	NW-25-9-20	125 a	Brown	138 ac	Yes
RLU Ventures	SE-2-9-20	125 a	both quarters are irrigated		
403 Farms					
Prairie Brooks Poultry	SW 5-10-20 W4M	50 ac	Brown	50 ac	
*Additional land provided by applicant on April 25, 2025				Total	
				308 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)

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Manure Spreading Agreement

This agreement is between _____ Prairie Brooks Poultry Ltd ___ manure producer, and
RLV Ventures Ltd _____ manure receiver.

Length of agreement: This agreement is valid for a time period of 5
(minimum of one year)

Legal land location	Soil type ¹	Acres suitable for manure spreading ²
SE 2 9 20	Brown	133
NW 25 9 20	Brown	125

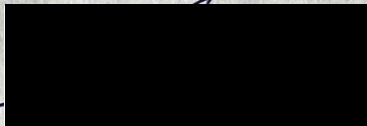
¹ Soil type choices: Dark brown and brown, Grey wooded, Black, Irrigated.

² Land within required setbacks from water bodies, water wells, residences, etc. is not to be included.

Other comments:

Manure producer (Confined Feeding Operation) Legal Land Location SW 5 10 20

Feb 27
Date of signing


Signature

Priety Liebling
Print name

Prairie Brooks Poultry Ltd
Corporate name(if appl)

Manure Receiver – Landowner(s)³

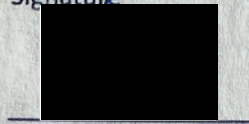
Feb 13, 2025
Date of signing


Signature

Grant Vossebelt
Print name

RLV Ventures
Corporate name(if appl)

Feb 13, 2025
Date of signing


Signature

Grant Vossebelt
Print name

403 Farms
Corporate name(if appl)

³ All registered owners of land, or authorized signing authorities must sign.

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MINIMUM DISTANCE SEPARATION

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

Margin of error (if applicable): +/- 3m

Requirements (m): Category 1: 273 Category 2: 364 Category 3: 454 Category 4: 727

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: 257.6 ac irrigated

Land base listed: 308 ac irrigated/brown

Area not suitable: already subtracted

Available area 308 ac irrigated/brown

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 LA10045M

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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. Lay Barn 3
2. Lay barn 3 in-barn pits (x2)

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.	<u>40' (12.8 m)</u> 112'	<u>330' (91.4 m)</u> 300'		
2.	<u>3</u>	<u>91.4</u>	<u>1.2</u>	<u>658 m3</u>
TOTAL CAPACITY				<u>Sufficient storage with STMS</u>

☒ 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

Roof and Walls

Liner protection

Describe how the physical integrity of the liner will be maintained

Regular inspection

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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 <u>6 inches</u>	Method of sulphate protection: <u>Type 50</u>
Concrete strength <u>25 MPa</u>	Concrete reinforcement size and spacing <u>16 inch</u>

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:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Condition required:	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Report attached:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

Additional information (attach as required)

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Nine month manure storage volume requirements met: ☐ YES ☒ YES With STMS ☐ NO

Depth to water table: 3 m Requirements met: ☒ YES ☐ NO

Depth to Uppermost groundwater resource: >6.5 m Requirements met: ☒ YES ☐ NO

ERST completed: ☒ see ERST page for details

Surface water control systems

Requirements met: ☒ YES ☐ NO Details/comments:

Concrete liner details

Condition requiring that the concrete meet the specifications for Category D (solid manure - dry) in Technical Guideline Agdex 096-93.

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

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ALL SIGNATURES IN FILE

☒ YES ☐ NO

DATES OF APPROVAL OFFICER SITE VISITS

February 10, 2025	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: March 11, 2025

Municipality: Lethbridge 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: SMRID ☐ N/A

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

CWNG, Hollandale Water Society, Equis Rea Ltd., South Alta Rural Electrification Assoc Ltd.

Other: ☐ N/A

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