

Technical Document LA24028

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	Legal land description
	<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	<u>LA24028</u>

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 June 3/24

Signature

Corporate name (if applicable) Skylight Hutterian Brother

Print name Tim Docker

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)
<u>No new facilities</u>	

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
<u>McDonald Barn</u>	<u>8.0m x 14.0m</u>	
<u>Dwint</u>	<u>168.7m x 46.2m</u>	
<u>Davy</u> (to be converted into broiler barn)	<u>101.8m x 30.6m</u>	

NRCB USE ONLY

AO Comment: Applicant is proposing a change in livestock category by converting the dairy operation into a chicken broiler operation, and expanding the chicken broiler and turkey numbers. All existing facilities and dimensions confirmed.

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Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Slurry Store	48.9 x 5.7m	
Layer Barn	73.2m x 18.3m	
Manure Pad	22.9m x 22.9m	
Dairy Corral	75m x 52.2m	

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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

Converting Dairy Barn into Broiler Barn
~~Convert Dairy Corral for Beef~~

AO Comment: Applicant indicated they are no longer pursuing beef finishers with this application and will not be converting the dairy corrals.

Construction completion date for proposed facilities June 30/26

Additional information

~~Possible Ind Room~~

AO Comment: The conversion of the dairy barn into a broiler barn does not involve an alteration to the structure's manure collection and storage liner. Therefore, the barn conversion does not require a permit amendment under AOPA.

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
Lamb to Finish	500	0	500
Dairy cows	120	-115	5
Layers + Pullets	14000	0	14000
Broilers	2000	+56000	58000
Ducks	1200	0	1200
Geese	400	0	400
Turkeys	400	+400	800
Beef Finishers	0	+125	125

Last updated September 11, 2023

AO Comment: In a phone conversation, the applicant indicated they no longer want to pursue beef finishers with this application.

Hutterian Brethren of Sky Light

W1/2 24-16-23 W4

Domestic water

McDonald Barn

Duck, goose, and turkey barn

Layers + killed

Layer barn

Corrals

Dairy barn to be converted to broiler barn

Slurry - manure

Above ground liquid manure tank

Slurry

Hay Barn

pug out

Lagoon #10 + 11

Marsh

pug out

Wagon

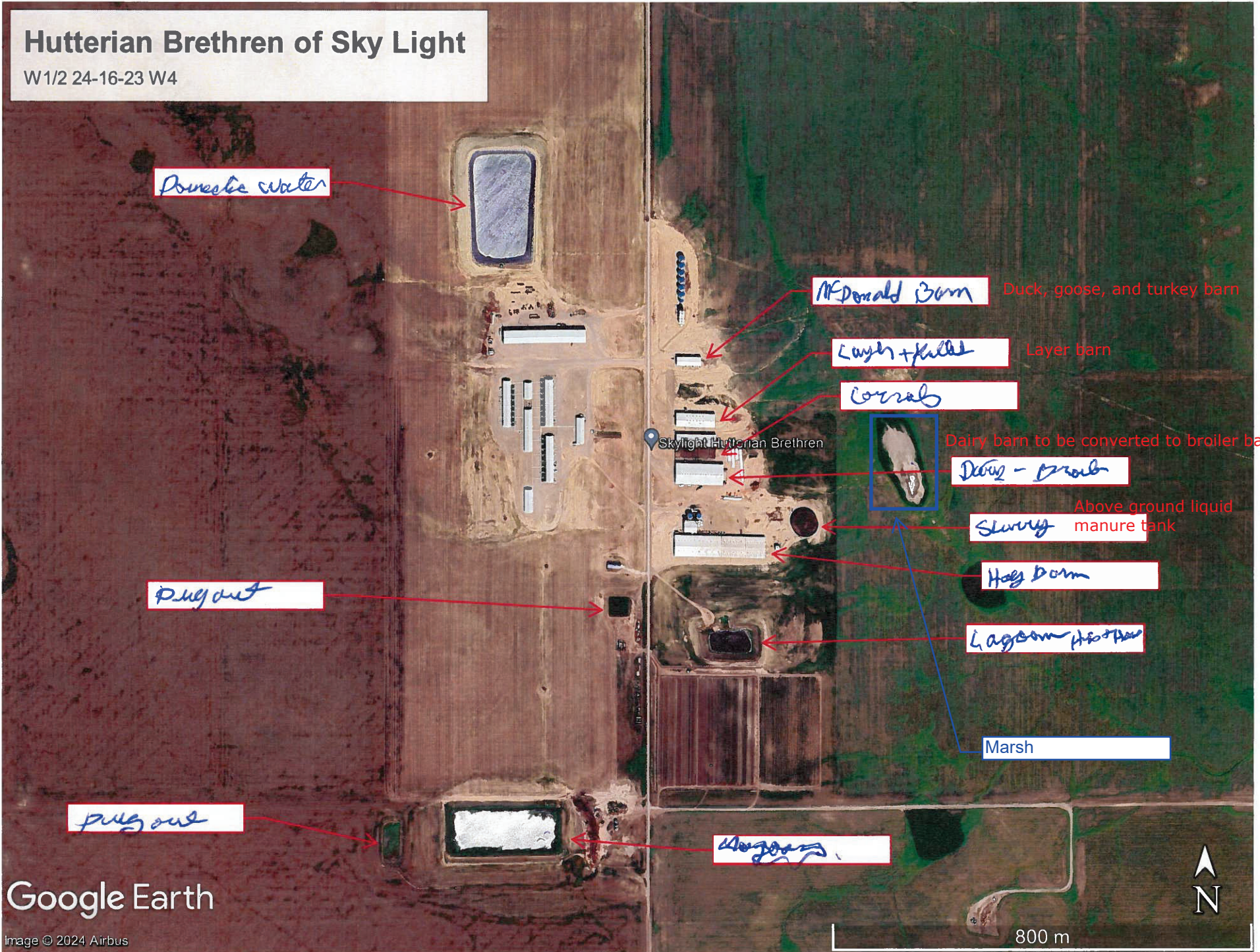
Google Earth

Image © 2024 Airbus

800 m

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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 ____ 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 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 BRIID

Signed this 3 day of June, 2024

Signature of Applicant or Agent

Part 2 – Technical Requirements

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*).
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 license number(s) or water conveyance agreement details _____

Signed this ____ day of _____, 20____.

Signature of Applicant or Agent

Alan Brown 654-2111 Alan Brown

WATER CONVEYANCE AGREEMENT
(Water under District's Water Licence)

THIS AGREEMENT is made in duplicate this 1 day of December AD 20 11

Between: **BOW RIVER IRRIGATION DISTRICT**
of Box 140, Vauxhall, in the Province of Alberta
(hereinafter called the "DISTRICT") of the First Part

and

SKY LIGHT HUTTERIAN BRETHREN
of RR 1, Milo in the Province of Alberta.
(hereinafter called the "APPLICANT") of the Second Part

WHEREAS the DISTRICT is empowered under Sections 21 of the Irrigation Districts Act to grant and enter into agreements known as Water Conveyance Agreements, and

WHEREAS the DISTRICT has amended the purpose of use of a portion of water within DISTRICT Water Licence, Priority No. 1992-02-05-10, to purposes other than irrigation and domestic use, and

WHEREAS the Alberta Environment/BRID amending agreement of April 27, 2011 gave the District the right to divert water from the Carsland Bow Headworks system to supply water for any other purpose that is consistent with a water licence held by the District, and

WHEREAS the land described as SE and NE of 23-16-23-W4, SW and NW 34-16-23-W4 and Block 1 Plan 0010275 (hereinafter collectively called the "PARCELS OF LAND"), has been included in the Bow River Irrigation District under Section 84 and 85 of the Irrigation Districts Act, and

WHEREAS the APPLICANT has applied to the DISTRICT to enter into a water conveyance agreement to annually convey 35 acre feet of water for the purpose of Municipal (Colony) use and 45 acre feet of water for the purpose of Agriculture (Feedlot) use on the PARCELS OF LAND, which water is part of the amended portion of the DISTRICT'S Water Licence with Priority No. 1992-02-05-10.

NOW THEREFORE subject to the terms and conditions hereinafter expressed, the parties hereto agree as follows:

1. The DISTRICT will annually make available to the APPLICANT 35 acre feet of water for the purpose of Municipal (Colony) use and 45 acre feet of water for the purpose of Agriculture (Feedlot) use, to be conveyed through the irrigation works of the DISTRICT, not in a continuous flow, but as it shall be available, to a Point of Delivery off of Lake McGregor Reservoir, for Municipal (Colony) and Agriculture (Feedlot) purposes only and which water is to be used exclusively on the PARCELS OF LAND.
2. The APPLICANT shall be responsible for all costs to supply, install and maintain the turnout from the irrigation works of the DISTRICT (which includes the Carsland Bow Headworks system) at the Point of Delivery as well as the APPLICANTS water diversion and distribution system, and to make any alterations or additions necessary to the irrigation works of the DISTRICT, in order to take delivery of water. The turnout and any alterations to the DISTRICT'S works shall be designed and constructed according to the DISTRICT'S specifications and subject to the DISTRICT'S approval. The APPLICANT shall maintain the turnout to the continued satisfaction of the DISTRICT.

WATER CONVEYANCE AGREEMENT
(Water under District's Water Licence)

3. This agreement is subject to the APPLICANT obtaining and maintaining all approvals and authorizations to construct, operate and maintain his water diversion and distribution system solely at his cost.
4. The APPLICANT hereby acknowledges and agrees that that the water in the irrigation system of the DISTRICT may not be potable or may not be suitable for irrigation or other purposes, and the DISTRICT makes no representation, warranty or guarantee, express or implied that the water delivered under this agreement is potable or suitable for the APPLICANT's purposes and the APPLICANT agrees to accept the water delivered in the condition in which it may be found at the Point of Delivery from time to time and to provide such testing, treatment or filtering as the APPLICANT considers necessary.
5. The APPLICANT acknowledges that the irrigation system of the DISTRICT is an open ditch system subjecting the water therein to contamination from all manner of environmental, human and animal factors beyond the control of the DISTRICT and the DISTRICT does not regulate, control or monitor the quality of the water in its system.
6. The DISTRICT shall not be liable for any claim of loss, injury or damage whatsoever arising out of the failure or inability of the DISTRICT to supply water for the purposes covered by this agreement.
7. This agreement shall constitute a yearly term from the date noted above and shall continue in full force and effect from year to year with the APPLICANT having the option of termination of this agreement subject to notice of termination in writing by Registered Mail or in person at the addresses of service listed here below, and giving a minimum of 60 days notice prior to the effective date of the termination.
BOW RIVER IRRIGATION DISTRICT
704 - 7th Avenue North, P.O. Box 140, VAUXHALL, ALBERTA T0K 2K0
8. The APPLICANT will indemnify and save harmless the DISTRICT from any and all injury and damage by reason of the seepage of water from the APPLICANT's conveyance, pumping and storage works and/or from rights of way and easements or titled lands.
9. All water diverted from the works of the DISTRICT by the APPLICANT shall be metered by the APPLICANT through an accurate water meter located at or near the Point of Delivery installed and maintained in good working order at the cost of the APPLICANT, with unrestricted access to the meter by the DISTRICT, unless an alternate method of estimating volumes is agreed upon.
10. The APPLICANT shall record and forward to the DISTRICT at its address of service, a report of water diverted under this agreement on a per month basis with monthly reports to be received by the DISTRICT no later than the 15th of the following month.
11. The DISTRICT will invoice the APPLICANT on an annual basis and the APPLICANT shall annually pay to the DISTRICT a conveyance fee as established by DISTRICT By-Laws for each acre foot of water agreed to be annually made available to the APPLICANT as stated in Clause 1 of this agreement, regardless of whether or not the actual annual diversion and use by the APPLICANT was less than the agreed upon amount to be made available.
12. In the event the APPLICANT, in any one twelve month period, beginning November 1st of one year and ending October 31st of the following year, diverts or uses an amount of water exceeding the agreed upon amount of water to be annually made available to the APPLICANT as noted in Clause 1 of this agreement, the APPLICANT must pay double the conveyance fee as noted in Clause 11 of this agreement, for each acre foot of water diverted in excess of the agreed upon amount.

WATER CONVEYANCE AGREEMENT
(Water under District's Water Licence)

13. In addition to the sums payable under Clause 11 and Clause 12 above, the APPLICANT also agrees to pay such amounts as may be imposed from time to time pursuant to Section 132 of the Irrigation Districts Act as "penalties on arrears", which shall apply to all sums payable which have not been paid by the APPLICANT within 30 days of billing.

14. In the event, in any twelve month period, beginning November 1st of one year and ending October 31st of the following year, the DISTRICT determines that additional water over and above the agreed upon amount of water to be annually made available to the APPLICANT as noted in Clause 1 of this agreement, is not available for the APPLICANT, the DISTRICT will notify the APPLICANT upon which time the APPLICANT is not allowed to withdraw more than the agreed upon amount.

15. Nothing in this agreement shall be construed as granting to or conferring upon the APPLICANT any proprietary right or interest in any works owned or operated by the DISTRICT.

16. In the event the APPLICANT sells or transfers the operations benefited by this agreement to another party and application is made to the DISTRICT to transfer this agreement to the new party, this agreement will be transferred to the new party subject to the stated purpose of use of water and location of use not changing.

17. Any change in the purpose of use of water or location of use is strictly prohibited.

18. a) Should the APPLICANT be in default of any of the covenants herein provided, the DISTRICT may, upon notice to the APPLICANT, reduce or terminate the delivery of water to the APPLICANT until such time as the APPLICANT has remedied his default.

b) The exercise by the DISTRICT of its rights under Clause 18. a) above, shall not be construed as a termination by the DISTRICT of this agreement.

THIS AGREEMENT is executed by the Parties as of the date shown on the first page of the Agreement.

BOW RIVER IRRIGATION DISTRICT:

[Redacted signature block for Bow River Irrigation District]

[Redacted signature block for Bow River Irrigation District]

APPLICANT:

[Redacted signature block for Applicant]

[Redacted signature block for Applicant]

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NRCB USE ONLY

WATER WELL AND SURFACE WATER INFORMATION

Well IDs: 1476421 (decommissioned) 1476420 (decommissioned) 115203 (chemistry)

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:

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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: Deerly Barn

Proposed 1: _____

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 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 a known flood plain, confirmed with site visit
	Surface water information						
	How many springs are within 100 m of the manure storage facility or manure collection area?	0				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Confirmed with site visit
	How many water wells are within 100 m of the manure storage facility or manure collection area?	0				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Closest well is 140 m and was drilled for chemistry (Well ID#115203)
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	200m				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Marsh located 160 m East of CFO
Groundwater information	What is the depth to the water table?					<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Shallow water table not anticipated
	What is the depth to the groundwater resource/aquifer you draw water from?	Greater than 400'				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Groundwater resource has not been encountered at the site

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
No proposed facilities, only conversion of existing permitted dairy barn and change in livestock numbers			

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
Duck, goose and turkey barn	Low	Low	LA21059
Swine barn	Low	Low	LA06041A
Dairy barn (to be converted to broiler barn)	Low	Low	LA06041A
Above ground liquid manure storage tank	Low	Low	LA06041A
Poultry layer barn	Low	Low	LA06041A
Solid manure storage pad	Low	Low	LA06041A

ERST related comments:

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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
<i>Unsewa</i>	<i>SE-24-16-23 w4</i>	<i>Distance from road</i>	Rural General	1	1260	NA	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)
<i>See attached list</i>					
Total				<i>7,921 acres (brown)</i>	

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

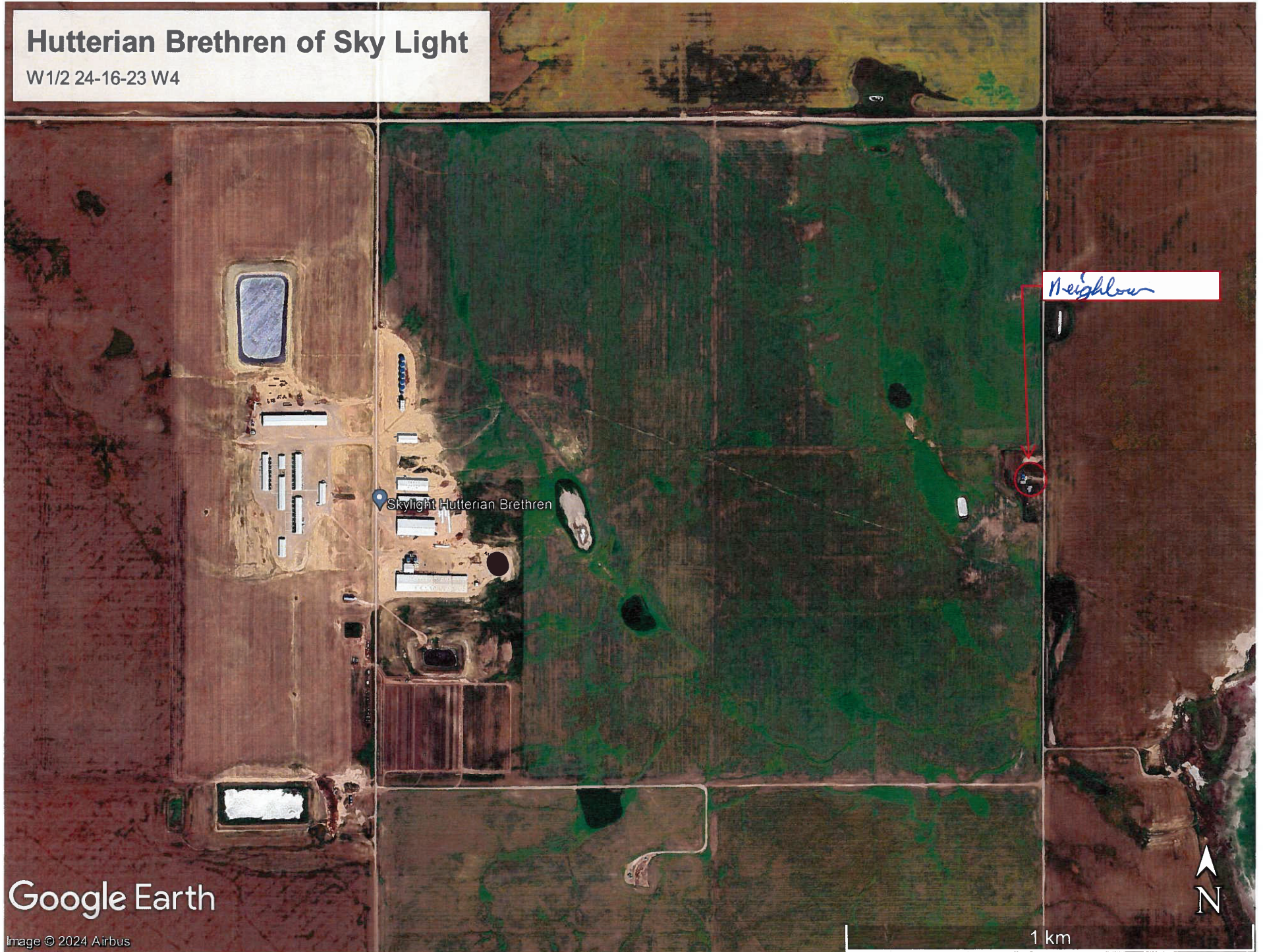
** Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 [Manure Spreading Regulations](#))

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

Additional information (attach any additional information as required)

Hutterian Brethren of Sky Light

W1/2 24-16-23 W4



Google Earth

Image © 2024 Airbus

Hutterian Brethren of Sky Light

Legal Land Description	Acres	Soil Type
NE 20-16-22 W4	142	Brown
W 1/2 20-16-22 W4	320	Brown
NW 21-16-22 W4	146	Brown
SE 21-26-22 W4	160	Brown
SW 28-16-22 W4	158	Brown
NE 29-16-22 W4	151	Brown
SW 29-16-22 W4	144	Brown
NW 30-16-22 W4	155	Brown
S 1/2 30-16-22 W4	320	Brown
N 1/2 14-16-23 W4	310	Brown
Sec 23-16-23 W4	424	Brown
S 1/2 26-16-23 W4	291	Brown
SE 36-16-23 W4	156	Brown
NW 23-15-22 W4	137	Brown
SW 26-15-22 W4	160	Brown
S 1/2 28-15-22 W4	241	Brown
NW 7-16-22 W4	123	Brown
E 1/2 17-16-22 W4	320	Brown
NW 17-16-22 W4	144	Brown
Sec 18-16-22 W4	530	Brown
Sec 19-16-22 W4	595	Brown
Sec 12-16-23 W4	483	Brown
SE 14-16-23 W4	160	Brown
E 1/2 23-16-23 W4	170	Brown
NW 13-16-24 W4	155	Brown
Sec 13-16-23 W4	640	Brown
NE 15-16-23 W4	160	Brown
E 1/2 22-16-23 W4	320	Brown
Sec 24-16-23 W4	590	Brown
N 1/2 16-16-22 W4	286	Brown

AO Comment: Land removed from spreading as it is included as part of Sec 23-16-23 W4, listed above in table.

Name
Address
Legal Land
Location

MDS Spreadsheet based on 2006 AOPA Regulations

Category of Livestock	Type of Livestock	Factor A	Technology Factor	MU	LSU Factor	Number of Animals	LSU
Feedlot Animals	Beef Cows/Finishers (900+ lbs)	0.700	0.700	0.910	0.4459		-
	Beef Feeders (450 - 900 lbs)	0.700	0.700	0.500	0.2450		-
	Beef Feeder Calves (<550 lbs)	0.700	0.700	0.275	0.1348		-
	Horses - PMU	0.650	0.700	1.000	0.4550		-
	Horses - Feeders > 750 lbs	0.650	0.700	1.000	0.4550		-
	Horses - Foals < 750 lbs	0.650	0.700	0.300	0.1365		-
	Mules	0.600	0.700	1.000	0.4200		-
	Donkeys	0.600	0.700	0.670	0.2814		-
	Bison	0.600	0.700	1.000	0.4200		-
	Other						-
Dairy (*count lactating cows only)	Free Stall – Lactating Cows with all associated dries, heifers, and calves*	0.800	1.100	2.000	1.7600	5	8.8
	Free Stall – Lactating Cows with Dry Cows only*	0.800	1.100	1.640	1.4432		-
	Free Stall – Lactating Cows only	0.800	1.100	1.400	1.2320		-
	Tie Stall – Lactating Cows only	0.800	1.000	1.400	1.1200		-
	Loose Housing – Lactating Cows only	0.800	1.000	1.400	1.1200		-
	Dry Cow	0.800	0.700	1.000	0.5600		-
	Replacements – Bred Heifers (Breeding to Calving)	0.800	0.700	0.875	0.4900		-
	Replacements - Growing Heifers (350 lbs to breeding)	0.800	0.700	0.525	0.2940		-
	Calves (< 350 lbs)	0.800	0.700	0.200	0.1120		-
	Other						-
Swine Liquid (*count sows only)	Farrow to finish *	2.000	1.100	1.780	3.9160	500	1,958.0
	Farrow to wean *	2.000	1.100	0.670	1.4740		-
	Farrow only *	2.000	1.100	0.530	1.1660		-
	Feeders/Boars	2.000	1.100	0.200	0.4400		-
	Growers/Roasters	2.000	1.100	0.118	0.2600		-
	Weaners	2.000	1.100	0.055	0.1210		-
		Other					
Swine Solid (*Count sows only)	Farrow to finish *	2.000	0.800	1.780	2.8480		-
	Farrow to wean *	2.000	0.800	0.670	1.0720		-
	Farrow only *	2.000	0.800	0.530	0.8480		-
	Feeders/Boars	2.000	0.800	0.200	0.3200		-
	Growers/Roasters	2.000	0.800	0.118	0.1888		-
	Weaners	2.000	0.800	0.055	0.0880		-
		Other					
Poultry	Chicken - Breeders - Solid	1.000	0.700	0.010	0.0070		-
	Chicken - Layers - Liquid (includes associated pullets)	2.000	1.100	0.008	0.0176	14,000	246.4
	Chicken - Layers - (Belt Cage)	2.000	0.700	0.008	0.0112		-
	Chicken - Layers - (Deep Pit)	2.000	0.700	0.008	0.0112		-
	Chicken - Pullets/Broilers	1.000	0.700	0.002	0.0014	58,000	81.2
	Turkey - Toms/Breeders	1.000	0.700	0.020	0.0140		-
	Turkey - Hens (light)	1.000	0.700	0.013	0.0091		-
	Turkey - Broilers	1.000	0.700	0.010	0.0070	800	5.6
	Ducks	1.000	0.700	0.010	0.0070	1,200	8.4
	Geese	1.000	0.700	0.020	0.0140	400	5.6
		Other					
Sheep and Goats	Sheep - Ewes/Rams	0.600	0.700	0.200	0.0840		-
	Sheep - Ewes with lambs	0.600	0.700	0.250	0.1050		-
	Sheep - Lambs	0.600	0.700	0.050	0.0210		-
	Sheep - Feeders	0.600	0.700	0.100	0.0420		-
	Goats - Meat/Milk (per Ewe)	0.700	0.700	0.170	0.0833		-
	Goats - Nannies/Billies	0.700	0.700	0.140	0.0686		-
	Goats - Feeders	0.700	0.700	0.077	0.0377		-
		Other					
Cervid	Elk	0.600	0.700	0.600	0.2520		-
	Deer	0.600	0.700	0.200	0.0840		-
	Other						-
Wild Boar	Feeders	2.000	0.800	0.140	0.2240		-
	Sow (farrowing)	2.000	0.800	0.371	0.5936		-
	Other						-

Total 2,314.0

For New Operations

Dispersion Factor 1

Category	Odour Objective	Distance	
		Feet	Metres
1	41.04	2,276	694
2	54.72	3,035	925
3	68.4	3,793	1,156
4	109.44	6,070	1,850

For Expanding Operations

Dispersion Factor 1
Expansion Factor 0.77

Category	Odour Objective	Distance	
		Feet	Metres
1	41.04	1,753	534
2	54.72	2,337	712
3	68.40	2,921	890
4	109.44	4,674	1,424

Name 0
 Address 0
 Legal Land
 Location 0

Landbase Requirements (hectares) based on 2006 AOPA requirements

Category of Livestock	Type of Livestock	Number of Animals	Dark Brown & Brown (ha)	Grey Wooded (ha)	Black (ha)	Irrigated (ha)
Feedlot Animals	Cows/Finishers (900+ lbs)	0.0	0.0	0.0	0.0	0.0
	Feeders (450 - 900 lbs)	0.0	0.0	0.0	0.0	0.0
	Feeder Calves (<550 lbs)	0.0	0.0	0.0	0.0	0.0
	Horses - PMU	0.0	0.0	0.0	0.0	0.0
	Horses - Feeders > 750 lbs	0.0	0.0	0.0	0.0	0.0
	Horses - Foals < 750 lbs	0.0	0.0	0.0	0.0	0.0
	Mules	0.0	0.0	0.0	0.0	0.0
	Donkeys	0.0	0.0	0.0	0.0	0.0
	Bison	0.0	0.0	0.0	0.0	0.0
		Other	0.0			
Dairy (*count lactating cows only)	Free Stall – Lactating Cows with all associated dries, heifers, and calves*	5.0	7.4	6.2	4.6	3.7
	Free Stall – Lactating Cows with Dry Cows only *	0.0	0.0	0.0	0.0	0.0
	Free Stall – Lactating Cows only*	0.0	0.0	0.0	0.0	0.0
	Tie Stall – Lactating Cows only	0.0	0.0	0.0	0.0	0.0
	Loose Housing – Lactating Cows only	0.0	0.0	0.0	0.0	0.0
	Dry Cow (Solid manure)	0.0	0.0	0.0	0.0	0.0
	Dry Cow (Liquid manure)	0.0	0.0	0.0	0.0	0.0
	Replacements – Bred Heifers (Breeding to Calving)	0.0	0.0	0.0	0.0	0.0
	Replacements - Growing Heifers (350 lbs to breeding)	0.0	0.0	0.0	0.0	0.0
	Calves (< 350 lbs)	0.0	0.0	0.0	0.0	0.0
		Other	0.0			
Swine Liquid (*count sows only)	Farrow to finish *	500.0	334.2	278.5	208.9	167.1
	Farrow to wean *	0.0	0.0	0.0	0.0	0.0
	Farrow only *	0.0	0.0	0.0	0.0	0.0
	Feeders/Boars	0.0	0.0	0.0	0.0	0.0
	Growers/Roasters	0.0	0.0	0.0	0.0	0.0
	Weaners	0.0	0.0	0.0	0.0	0.0
		Other	0.0			
Swine Solid (*Count sows only)	Farrow to finish *	0.0	0.0	0.0	0.0	0.0
	Farrow to wean *	0.0	0.0	0.0	0.0	0.0
	Farrow only *	0.0	0.0	0.0	0.0	0.0
	Feeders/Boars	0.0	0.0	0.0	0.0	0.0
	Growers/Roasters	0.0	0.0	0.0	0.0	0.0
	Weaners	0.0	0.0	0.0	0.0	0.0
		Other	0.0			
Poultry	Chicken - Breeders - Solid	0.0	0.0	0.0	0.0	0.0
	Chicken - Layers - Liquid (includes associated pullets)	14000.0	92.4	77.0	57.4	46.2
	Chicken - Layers - (Belt Cage)	0.0	0.0	0.0	0.0	0.0
	Chicken - Layers - (Deep Pit)	0.0	0.0	0.0	0.0	0.0
	Chicken - Pullets/Broilers	58000.0	188.5	157.2	117.7	94.5
	Turkey - Toms/Breeders	0.0	0.0	0.0	0.0	0.0
	Turkey - Hens (light)	0.0	0.0	0.0	0.0	0.0
	Turkey - Broilers	800.0	4.2	3.5	2.6	2.1
	Ducks	1200.0	1.9	1.6	1.2	1.0
	Geese	400.0	1.3	1.1	0.8	0.6
		Other	0.0			
Goats and Sheep	Sheep - Ewes/Rams	0.0	0.0	0.0	0.0	0.0
	Sheep - Ewes with lambs	0.0	0.0	0.0	0.0	0.0
	Sheep - Lambs	0.0	0.0	0.0	0.0	0.0
	Sheep - Feeders	0.0	0.0	0.0	0.0	0.0
	Goats - Meat/Milk (per Ewe)	0.0	0.0	0.0	0.0	0.0
	Goats - Nannies/Billies	0.0	0.0	0.0	0.0	0.0
	Goats - Feeders	0.0	0.0	0.0	0.0	0.0
		Other	0.0			
Cervid	Elk	0.0	0.0	0.0	0.0	0.0
	Deer	0.0	0.0	0.0	0.0	0.0
		Other	0.0			
Wild Boar	Feeders	0.0	0.0	0.0	0.0	0.0
	Sow (farrowing)	0.0	0.0	0.0	0.0	0.0
		Other	0.0			
Total Hectares			630	525.0	393.3	315.2
Total Acres			1,557	1297.3	971.9	778.9

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

MINIMUM DISTANCE SEPARATION

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

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

Requirements (m): Category 1: 694 Category 2: 925 Category 3: 1,156 Category 4: 1,850

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: 1,557 acres (brown)

Land base listed: 7,921 acres (brown)

Area not suitable: Unsuitable areas already accounted for

Available area 7,921 acres (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 _____

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

ALL SIGNATURES IN FILE

YES NO

DATES OF APPROVAL OFFICER SITE VISITS

June 3, 2024	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: July 3, 2024

Municipality: Vulcan 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: Bow River Irrigation District, Sunshine Gas Co-op Ltd., Canadian Natural Resources Ltd. 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