

Technical Document LA25024

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
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	LA25024	NW 17-4-14 W4M

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 April 29 2025 Signature [Redacted]
Corporate name (if applicable) MILTOW Farming Co LTD Print name DAN WIPF

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>New Layer and pullet Barn</u> (36.6 m x 95.8 m, total dimensions) with attached manure storage room (13.4 m x 17.5 m) and egg grading facility/offices (18.9 m x 36.6 m)	150W 350L ft 120 ft W x 314 ft 2 in L, total dimensions
AO Comment: The dimensions of the proposed layer and pullet barn are 70.7 m x 30.9 m. The proposed dimensions listed by applicant include the attached manure storage room and egg grading facility/offices. The egg grading facility/offices are an ancillary structure.	

Existing facilities: list ALL existing confined feeding operation facilities and their dimensions		
Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
<u>Breeder Barn</u>	64 20.3 m x 46.1 m	All existing facilities confirmed
<u>Farrow Barn</u>	58 17.1 m x 72.2 m	
<u>1 Ls + Fin</u>	62 114.3 m x 21.2 m	
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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

Nov 30 2027

Additional information

AO Comment: The proposed layer barn is designed to also house the pullets proposed as part of this application. The ducks proposed as part of this application are to be housed in the Macdonald barn.

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
Milking Cows (plus dries & replacements)	90	10 0	100 90
Layers	300	29700	30000
Chicken Broilers	6000	0	6000
Swine Barrow to Finish	400	50 0	450 400
Ducks	400 0	400	400
Chicken Pullets	0	15000	15000
AO Comment: Applicant is adding 15,000 chicken pullets and 400 ducks, rather than 30,000 chicken pullets proposed in Part 1 application. The reduction of chicken pullets and addition of ducks does not increase the minimum distance separation (MDS) calculated on receipt of the Part 1 application.			

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Bull barn permitted in
Authorization LA18035, being
removed as a permitted facility

Solid manure storage
pad & manure
separator building

Well ID 298302

Well ID 151818

Google Earth

Image © 2025 Airbus

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)

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 29 day of April, 2025.

South East Water Coop 24gal/min

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*).
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

Last updated: 31 Mar 2020

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Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 151818
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1990/03/22

GOWN ID

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

Well Identification and Location										Measurement in Metric	
Owner Name		Address			Town		Province		Country		Postal Code
MILTOW COLONY		P.O. BOX 244 RAYMOND									T0K 2S0
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	13	17	4	14	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation	
_____ m from					Latitude 49.302943 Longitude -111.863683					937.26 m	
_____ m from					How Location Obtained					How Elevation Obtained	
					Map					Estimated	

Drilling Information	
Method of Drilling	Type of Work
Rotary	New Well
Proposed Well Use	
Domestic	

Formation Log			Measurement in Metric	
Depth from ground level (m)	Water Bearing	Lithology Description		
12.19		Clay		
36.58		Clayey Shale		
134.11		Shale		
135.64		Boulders		
170.69		Sandstone		
173.74		Shale		

Yield Test Summary			Measurement in Metric	
Recommended Pump Rate 36.37 L/min				
Test Date	Water Removal Rate (L/min)	Static Water Level (m)		
1990/03/05	45.46	21.34		

Well Completion			Measurement in Metric	
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
173.74 m		1990/02/28	1990/03/05	
Borehole				
Diameter (cm)	From (m)	To (m)		
0.00	0.00	173.74		
Surface Casing (if applicable)		Well Casing/Liner		
Steel		Steel		
Size OD :	14.12 cm	Size OD :	11.43 cm	
Wall Thickness :	0.518 cm	Wall Thickness :	0.478 cm	
Bottom at :	134.11 m	Top at :	128.02 m	
		Bottom at :	173.74 m	
Perforations				
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval (cm)
134.11	173.74	0.000		0.00
Perforated by Torch				
Annular Seal Cement/Grout				
Placed from 0.00 m to 134.11 m				
Amount				
Other Seals				
Type		At (m)		
Screen Type				
Size OD : 0.00 cm				
From (m)	To (m)	Slot Size (cm)		
Attachment				
Top Fittings		Bottom Fittings		
Pack				
Type	Grain Size			
Amount	0.00			

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well	Certification No
UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner Date approval holder signed
COVERDALE'S DRILLING	



Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 151818
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 1990/03/22

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GOWN ID

Well Identification and Location										Measurement in Metric
Owner Name		Address			Town		Province		Country	Postal Code
MILTOW COLONY		P.O. BOX 244 RAYMOND								T0K 2S0
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description	
	13	17	4	14	4					
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)			Elevation		
_____ m from					Latitude 49.302943 Longitude -111.863683			937.26 m		
_____ m from					How Location Obtained			How Elevation Obtained		
					Map			Estimated		

Additional Information		Measurement in Metric
Distance From Top of Casing to Ground Level	_____ cm	
Is Artesian Flow	_____	Is Flow Control Installed
Rate	_____ L/min	Describe
Recommended Pump Rate	36.37 L/min	Pump Installed
Recommended Pump Intake Depth (From TOC)	0.00 m	Type
		Make
		Model (Output Rating)
Did you Encounter Saline Water (>4000 ppm TDS)	_____	Depth
	Gas	Depth
Remedial Action Taken		Well Disinfected Upon Completion
		Geophysical Log Taken
		Submitted to ESRD
Additional Comments on Well		Sample Collected for Potability
		Submitted to ESRD <u>Yes</u>

Yield Test		Taken From Ground Level	Measurement in Metric
Test Date	Start Time	Depth to water level	
1990/03/05	12:00 AM	21.34 m	
		Pumping (m)	Elapsed Time
			Minutes:Sec
			Recovery (m)
Method of Water Removal			
Type Air			
Removal Rate 45.46 L/min			
Depth Withdrawn From 60.96 m			
If water removal period was < 2 hours, explain why			

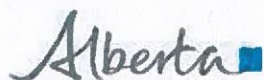
Water Diverted for Drilling	
Water Source	Amount Taken
	L
	Diversion Date & Time

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well	Certification No
UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner
COVERDALE'S DRILLING	Date approval holder signed

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Water Well Drilling Report

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GIC Well ID 298302
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2001/07/30

GOWN ID

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

Well Identification and Location										Measurement in Metric	
Owner Name		Address			Town		Province		Country		Postal Code
MILTOW COLONES		P.O. BOX 68 WARNER									T0K 2L0
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	13	17	4	14	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation	
91.44 m from North					Latitude 49.303930 Longitude -111.863726					m	
198.12 m from West					How Location Obtained					How Elevation Obtained	
					Map					Not Obtained	

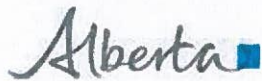
Drilling Information	
Method of Drilling	Type of Work
Rotary	New Well
Proposed Well Use	
Stock	

Formation Log			Measurement in Metric	
Depth from ground level (m)	Water Bearing	Lithology Description		
3.05		Topsoil		
24.38		Clay		
30.48		Clay & Shale		
54.86		Shale		
55.47		Sandstone		
91.44		Shale		
132.59		Shale		
134.11		Rocks		
164.59		Sandstone		

Yield Test Summary			Measurement in Metric	
Recommended Pump Rate			68.19 L/min	
Test Date	Water Removal Rate (L/min)	Static Water Level (m)		
2001/06/24	90.92	19.81		

Well Completion			Measurement in Metric	
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
164.59 m		2001/06/20	2001/06/24	
Borehole				
Diameter (cm)	From (m)	To (m)		
0.00	0.00	164.59		
Surface Casing (if applicable)		Well Casing/Liner		
Steel				
Size OD	13.97 cm	Size OD	0.00 cm	
Wall Thickness	0.650 cm	Wall Thickness	0.000 cm	
Bottom at	132.59 m	Top at	0.00 m	
		Bottom at	0.00 m	
Perforations				
From (m)	To (m)	Diameter or Slot Width (cm)	Slot Length (cm)	Hole or Slot Interval(cm)
Perforated by				
Annular Seal Cement/Grout				
Placed from 0.00 m to 132.59 m				
Amount				
Other Seals				
Type		At (m)		
Screen Type				
Size OD 0.00 cm				
From (m)	To (m)	Slot Size (cm)		
Attachment				
Top Fittings		Bottom Fittings		
Pack				
Type		Grain Size		
Amount				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well	Certification No
UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner Date approval holder signed
SOUTHERN ALBERTA DRILLING & SERVICING CO. LTD.	



Water Well Drilling Report

[View in Imperial](#) [Export to Excel](#)

GIC Well ID 298302
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2001/07/30

GOWN ID

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Well Identification and Location										Measurement in Metric	
Owner Name		Address			Town		Province		Country	Postal Code	
MILTOW COLONES		P.O. BOX 68 WARNER								T0K 2L0	
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	13	17	4	14	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)						
91.44 m from North					Latitude 49.303930 Longitude -111.863726					Elevation m	
198.12 m from West					How Location Obtained					How Elevation Obtained	
					Map					Not Obtained	

Additional Information										Measurement in Metric		
Distance From Top of Casing to Ground Level cm												
Is Artesian Flow										Is Flow Control Installed		
Rate L/min										Describe		
Recommended Pump Rate 68.19 L/min										Pump Installed	Depth m	
Recommended Pump Intake Depth (From TOC) 76.20 m										Type	Make	H.P.
										Model (Output Rating)		
Did you Encounter Saline Water (>4000 ppm TDS)										Depth m	Well Disinfected Upon Completion	
Remedial Action Taken										Gas	Depth m	Geophysical Log Taken
										Submitted to ESRD		
Additional Comments on Well										Sample Collected for Potability		Submitted to ESRD

Yield Test			Taken From Ground Level	Measurement in Metric	
			Depth to water level		
Test Date	Start Time	Static Water Level	Pumping (m)	Elapsed Time	Recovery (m)
2001/06/24	12:00 AM	19.81 m		Minutes:Sec	
Method of Water Removal					
Type Air					
Removal Rate 90.92 L/min					
Depth Withdrawn From 85.34 m					
If water removal period was < 2 hours, explain why					

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	L	

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well	Certification No
UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner Date approval holder signed
SOUTHERN ALBERTA DRILLING & SERVICING CO. LTD.	

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WATER WELL AND SURFACE WATER INFORMATION

Well IDs: 298302 151818

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:

AO Comment: The quarantine barn is a deemed facility and water well ID# 298302 was drilled after the barn was constructed. The quarantine barn was scored for environmental risk as part of Authorization LA18035 and determined to pose a low risk to both groundwater and surface water. The proposed layer and pullet barn is to be located more than 100 m from any water well on site.



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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: Lagoon Proposed 1: Lays 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 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	Not in a known 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 on site
	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	Quarantine barn 35 m from Well ID# 298302; Proposed layer and pullet barn > 100 m from well
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	Slough 1 mile	Slough 1 mile south			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Proposed layer and pullet barn approximately 900 m north of marsh
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	Approximately 8 m below grade from boreholes in LA04048A
	What is the depth to the groundwater resource/aquifer you draw water from?	540 ft	more than 16 ft			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	134 m below grade in Well ID# 151818

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
Layer and pullet barn with attached manure storage room	Low	Low	LA25024

ERST for **existing** facilities

Facility	Groundwater score	Surface water score	File number
Solid manure storage pad	Low	Low	LA18035
Manure separator building	Low	Low	LA18035
Liquid earthen manure storage - 2 cells	Low	Low	LA18035
Breeder barn	Low	Low	LA18035
Farrow barn	Low	Low	LA18035
Grower & Finisher barn	Low	Low	LA18035
Nursery & Grower barn	Low	Low	LA18035
Quarantine barn	Low	Low	LA18035

Dairy barn Low Low LA18035

~~ERST related comments:~~

Calf barn Low Low LA18035

Macdonald barn Low Low LA18035

Feedlot Low Low LA18035

Catch basin Low Low LA18035

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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)
<i>No neighbours within a mile</i>						
AO Comment: No residence within 1 mile of a manure storage facility or manure collection area.						

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)
AO Comment: See list on next page for land available for manure application. All land is owned by the applicant and is brown/dark brown.					N/A
Total				10,222.5 acres	

* 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)

Last updated: 31 Mar 2020

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ACRES	MILTOW	
320	HOME	E13-4-15-W4
575		18-4-14-W4
640		20-4-14-W4
550		17-4-14-W4
960		16,S21-4-14-W4
960		22,W15-4-14-W4
140		NW9-4-14-W4
640	WERKS	W25,W36-4-15-W4
320	OIL WELL	N32-4-14-W4
1600	PASTURE	27,28,S33-4-14-W4
320	NEMETH SOUTH	E30-3-14-W4
310	NEMETH NORTH	E31-3-14-W4
478	MILLER (W)	N29,SE32-3-15-W4
895	MILLER (E)	28,W27-3-15-W4
165	MILLER (N)	SW17-4-15-W4
160	SHOEN (N)	SW3-4-15-W4
310	SHOEN (S)	N34-3-15-W4
530	HELMREST	SW35,NW26,E27-3-15-W4
640	W HUMMEL	NE35,36-3-16-W4

Name
Address
Legal Land
Location

Milow Farming Co Ltd

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		-
Dairy (*count lactating cows only)	Free Stall - Lactating Cows with all associated dries, heifers, and calves	0.800	1.100	2.000	1.7600	400	158.4
	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		-
Swine Liquid (*count sows only)	Farrow to finish *	2.000	1.100	1.780	3.9160	400	1,566.4
	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		-
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		-
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		-
	Chicken - Layers - (Belt Cage)	2.000	0.700	0.008	0.0112	30,000	336.0
	Chicken - Layers - (Deep Pit)	2.000	0.700	0.008	0.0112		-
	Chicken - Pullets/Broilers	1.000	0.700	0.002	0.0014	21,000	29.4
	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		-
	Ducks	1.000	0.700	0.010	0.0070	400	2.8
	Geese	1.000	0.700	0.020	0.0140		-
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		-
Cervid	Elk	0.600	0.700	0.600	0.2520		-
	Deer	0.600	0.700	0.200	0.0840		-
Wild Boar	Feeders	2.000	0.800	0.140	0.2240		-
	Sow (farrowing)	2.000	0.800	0.371	0.5936		-

Total

2,093.0

For New Operations

Dispersion Factor

1

Category	Odour Objective	Distance	
		Feet	Metres
1	41.04	2,194	669
2	54.72	2,926	892
3	68.4	3,657	1,115
4	109.44	5,851	1,783

For Expanding Operations

Dispersion Factor

1

Expansion Factor

0.77

Category	Odour Objective	Distance	
		Feet	Metres
1	41.04	1,690	515
2	54.72	2,253	687
3	68.40	2,816	858
4	109.44	4,505	1,373

Name	Miltow Farming Co Ltd
Address	
Legal Land	
Location	

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	
		0.0					
Dairy (*count lactating cows only)	Free Stall – Lactating Cows with all associated dries, heifers, and calves*	90.0	133.7	111.3	83.5	66.8	
	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	
		0.0					
	Swine Liquid (*count sows only)	Farrow to finish *	400.0	267.4	222.8	167.1	133.7
		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	
		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	
		0.0					
Poultry	Chicken - Breeders - Solid	0.0	0.0	0.0	0.0	0.0	
	Chicken - Layers - Liquid (includes associated pullets)	0.0	0.0	0.0	0.0	0.0	
	Chicken - Layers - (Belt Cage)	30000.0	165.0	138.0	102.0	84.0	
	Chicken - Layers - (Deep Pit)	0.0	0.0	0.0	0.0	0.0	
	Chicken - Pullets/Broilers	21000.0	68.3	56.9	42.6	34.2	
	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	0.0	0.0	0.0	0.0	0.0	
	Ducks	400.0	0.6	0.5	0.4	0.3	
	Geese	0.0	0.0	0.0	0.0	0.0	
		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	
		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	
		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	
		0.0					
Total Hectares			635	529.6	395.7	319.0	
Total Acres			1,569	1308.5	977.7	788.3	

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): +/- 5 m

Requirements (m): Category 1: 669 Category 2: 892 Category 3: 1,115 Category 4: 1,783

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: 1,569 acres (brown/dark brown)

Land base listed: 10,513 acres (brown/dark brown)

Area not suitable: 290.5 acres

Available area 10,222.5 acres (brown/dark 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 LA04048

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)

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 (Layer and Pullet Barn)
2. Attached manure storage 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.	350 ft 314 ft 2 in	150 ft 120 ft	0	
2.	17.5	13.4	0	
TOTAL CAPACITY				

AO Comment: Applicant listed the total dimensions of the layer and pullet barn including the attached manure storage room and egg grading facility/offices. The dimensions of the proposed layer and pullet barn is 70.7 m x 30.9 m.

- ☒ 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

Under roof

Liner protection

Describe how the physical integrity of the liner will be maintained

Inspect for cracks & seal as needed

NRCB USE ONLY

Requirements met: ☒ YES ☐ NO

Last updated: 31 Mar 2020

Page ____ of ____

NRCB USE ONLY

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)

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

Concrete liner details

Concrete thickness <u>6 inch</u>	Method of sulphate protection: <u>Type 50</u>
Concrete strength <u>32 MPA</u>	Concrete reinforcement size and spacing <u>8-10 mL max 18" O/C</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: ☒ 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: >8 m below grade Requirements met: ☒ YES ☐ NO
Depth to Uppermost groundwater resource: 134 m below grade Requirements met: ☒ YES ☐ NO
ERST completed: ☒ see ERST page for details

Surface water control systems

Requirements met: ☒ YES ☐ NO Details/comments:

Concrete liner details

A condition is included in this permit requiring the applicant to provide proof that the concrete will meet the specifications for category D (solid manure - dry) as outlined in Technical Guideline Agdex 096-93 "Non-Engineered Concrete Liners for Manure Collection and Storage Areas".

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

Last updated: 31 Mar 2020

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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)

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ALL SIGNATURES IN FILE

☒ YES ☐ NO

DATES OF APPROVAL OFFICER SITE VISITS

April 29, 2025	

CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: May 15, 2025

Municipality: County of Warner

☒ 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: Triple W Natural Gas Coop Ltd., South East Alberta Water Coop 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