

## 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)

<b>NRCB USE ONLY</b> <input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	Application number	Legal land description
	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.

<u>April 29 2025</u> Date of signing	<u>Dan Wipf</u> Signature
<u>MILTOW Farming Co LTD</u> Corporate name (if applicable)	<u>DAN WIPF</u> Print name

### GENERAL INFORMATION REQUIREMENTS

<b>Proposed facilities:</b> 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 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)	<del>150W 350L ft</del> 120 ft W x 314 ft 2 in L, total dimensions

<b>Existing facilities:</b> 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>	<u>64</u> 20.3 m x 46.1 m	
<u>Farrow Barn</u>	<u>58</u> 17.1 m x 72.2 m	
<u>1 Lx + Fin</u>	<u>62</u> 114.3 m x 21.2 m	
NRCB USE ONLY		



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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

**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	<del>10</del> 0	<del>100</del> 90
Layer	300	29700	30000
Chicken Broilers	6000	0	6000
Swine Barrow to Finish	400	<del>50</del> 0	<del>450</del> 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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Google Earth

Image © 2025 Airbus

1 mile South (slough)

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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 29 day of April, 2025.

\_\_\_\_\_  
*Signature of Applicant or Agent*

South East Water Coop 24gal/min

#### **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*



# 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)					
_____ m from					Latitude 49.302943 Longitude -111.863683					Elevation 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)
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
COVERDALE'S DRILLING	Date approval holder signed



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Owner Name		Address		Town		Province		Country	Postal Code	
MILTOW COLONY		P.O. BOX 244 RAYMOND							T0K 2S0	
Location	1/4 or LSD	SEC	TPW	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)					
_____ m from					Latitude 49.302943 Longitude -111.863683					Elevation 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	Depth _____ m
Recommended Pump Intake Depth (From TOC)		0.00 m	Type	Make _____ H.P. _____
			Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS)		Depth _____ m	Well Disinfected Upon Completion	
Gas		Depth _____ m	Geophysical Log Taken	
Remedial Action Taken		Submitted to ESRD		
		Sample Collected for Potability		
		Submitted to ESRD <u>Yes</u>		
Additional Comments on Well				

Yield Test			Taken From Ground Level	Measurement in Metric
			Depth to water level	
Test Date	Start Time	Static Water Level		
1990/03/05	12:00 AM	21.34 m		
Method of Water Removal			Pumping (m)	Elapsed Time
				Minutes:Sec
Type Air				Recovery (m)
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	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
COVERDALE'S DRILLING	Date approval holder signed



# 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)						
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	

Drilling Information	
Method of Drilling Rotary	Type of Work 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 UNKNOWN NA DRILLER	Certification No 1
Company Name SOUTHERN ALBERTA DRILLING & SERVICING CO. LTD.	Copy of Well report provided to owner Date approval holder signed



# 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

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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	
		Sample Collected for Potability		Submitted to ESRD
Additional Comments on Well				

Yield Test			Taken From Ground Level	Measurement in Metric
			Depth to water level	
Test Date	Start Time	Static Water Level		
2001/06/24	12:00 AM	19.81 m		
Method of Water Removal			Pumping (m)	Elapsed Time
				Minutes:Sec
Type Air				Recovery (m)
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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### 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: Lakes 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 type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
Surface water information	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
	How many water wells are within 100 m of the manure storage facility or manure collection area?	0	0			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
	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 type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
Groundwater information	What is the depth to the water table?		more than 16 ft			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	
	What is the depth to the groundwater resource/aquifer you draw water from?	540 ft	540 ft			<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	

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

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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
No neighbors within a mile							

### 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)
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.					
			Total		

\* 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)**

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 Milto Farming Co Ltd  
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		-
Dairy (*count lactating cows only)	Other						-
	Free Stall – Lactating Cows with all associated dries, heifers, and calves*	0.800	1.100	2.000	1.7600	90	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		-
Swine Liquid (*count sows only)	Calves (< 350 lbs)	0.800	0.700	0.200	0.1120		-
	Other						-
	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		-
	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						-
	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		-
Poultry	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		-
	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						-
	Elk	0.600	0.700	0.600	0.2520		-
Cervid	Deer	0.600	0.700	0.200	0.0840		-
	Other						-
	Other						-
Wild Boar	Feeders	2.000	0.800	0.140	0.2240		-
	Sow (farrowing)	2.000	0.800	0.371	0.5936		-
	Other						-

Total 2,093.0

## 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 Milto Farming Co Ltd  
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*	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
Swine Liquid (*count sows only)	Other	0.0				
	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
	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				
	Other	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
Goats and Sheep	Other	0.0				
	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
Cervid	Other	0.0				
	Elk	0.0	0.0	0.0	0.0	0.0
	Deer	0.0	0.0	0.0	0.0	0.0
Wild Boar	Other	0.0				
	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	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)

### 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. Lager Barn
2. \_\_\_\_\_

#### Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	<b>NRCB USE ONLY</b> Estimated storage capacity (m <sup>3</sup> )
1.	<del>350 ft</del>	<del>150 ft</del>	0	
2.	314 ft 2 in (95.8 m)	120 ft (36.6 m)		
TOTAL CAPACITY				

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

#### Surface water control systems

Describe the run-on and runoff control system

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

## 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)

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

#### Concrete liner details

Concrete thickness  <b>6 inch</b>	Method of sulphate protection:  <b>Type 50</b>
Concrete strength  <b>32 MPA</b>	Concrete reinforcement size and spacing  <b>8-10 mL Max 18" O/C</b>

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: \_\_\_\_\_ Requirements met: ☐ YES ☐ NO

Depth to Uppermost groundwater resource: \_\_\_\_\_ Requirements met: ☐ YES ☐ NO

ERST completed: ☐ see ERST page for details

**Surface water control systems**

Requirements met: ☐ YES ☐ NO Details/comments:

**Concrete liner details**

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

