

# Technical Document LA25021

## 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>	Application number	Legal land description
<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Registration <input type="checkbox"/> Authorization <input type="checkbox"/> Amendment	<b>LA25021</b>	<b>NE 7-26-3 W4M</b>

### 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.

March 3 2025  
Date of signing  
Acadia Colony Farming Co.  
Corporate name (if applicable)

[Redacted Signature]  
Signature  
Ben Entz  
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)
Layer Barn (addition to current Layer Barn) (108.2 m x 30.5 m, total dimensions)	355 x 100 (total dimensions)
AO Comment: Layer barn addition is 72.2 m x 15.3 m. Applicant has listed the dimensions of the layer barn with the addition, for the proposed final 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
Pullet Barn (67.1 m x 14.6 m)	220 x 48	74 m x 14.6 m
Dry Sow Barn (143.9 m x 14.0 m)	472 x 46	114 m x 14.0 m
Farrow & Nursery Barn (106.7 m x 18.9 m)	350 x 62	112 m x 20 m
NRCB USE ONLY AO Comment: Applicant listed dimensions in feet.		

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Last updated September 11, 2023

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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

We are adding to a existing Barn

Construction completion date for proposed facilities Jan 30, 2027

### Additional information

AO Comment: In a conversation with the applicant on April 15<sup>th</sup>, they clarified that the numbers that were proposed in their Part 1 application were the correct livestock numbers they are proposing for this application, with the exception of the chicken broilers. The applicant made an error when filling out the Part 2 application. The livestock numbers in the table below are corrected for the livestock the applicant is proposing. They are proposing 2,000 chicken broilers at this site, rather than 2,500 chicken broilers that was proposed in the Part 1. Also, there was a miscommunication about the total swine farrow to finish numbers at this site. The 60 swine farrow to finish that was added is a part of the 600 swine farrow to finish, not in addition.

**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	<del>100</del> 60	<del>0</del> 40	100
Chicken Layers	<del>15444</del> 14,500	<del>33516</del> 34,460	48960
Chicken Pullets	<del>23000</del> 22,000	0	<del>23000</del> 22,000
Swine Farrow to Finish	<del>600</del> 650	<del>0</del> -50	600
Turkeys	100	0	100
Ducks	<del>300</del> 400	0	<del>300</del> 400
Geese	<del>200</del> 100	0	<del>200</del> 100
Broiler Chickens	2000	0	2000
<del>Swine Multi Barn Farrow to Finish</del>	<del>60</del>	<del>0</del>	<del>60</del>

Last updated September 11, 2023

AO Comment: CFO was grandfathered for 14,500 chicken layers in Authorization LA03032A. Applicant is proposing to increase from 14,500 chicken layers to 48,960 chicken layers.

Application LA25021 Page 3 of 20

LA25021 TD Page 3 of 24



Marsh

Marsh

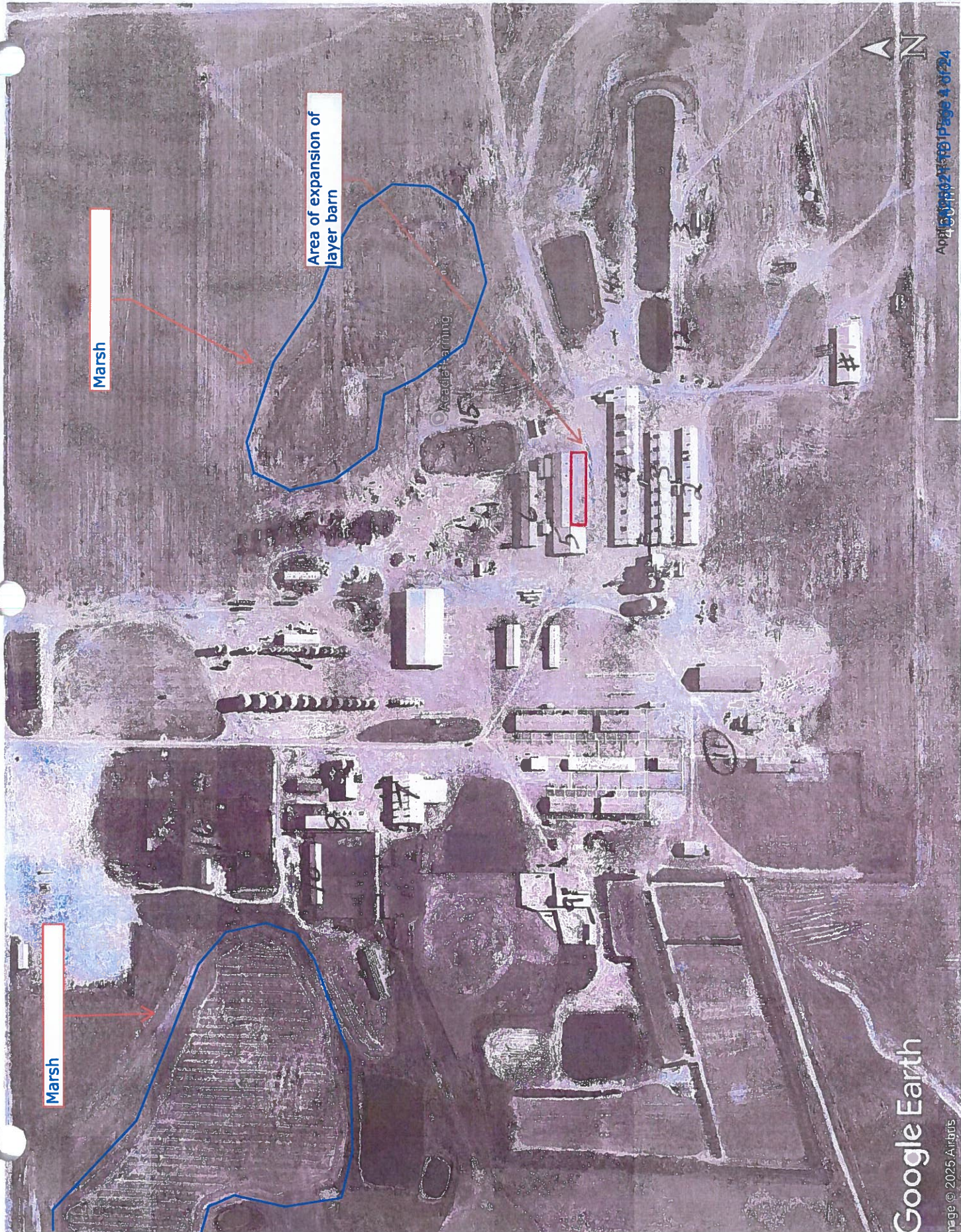
Area of expansion of  
layer barn

Academy Farming

Google Earth

Image © 2025 Airbus

April 15, 2024 11:38 AM Page 4 of 24





1. Multi Barn (Hogs)
2. Dry Sow Barn
3. Farrow Barn
4. Finisher Barn
5. Chicken Barn (Layer barn)
6. Pullet Barn
7. Dairy Barn
8. Calf Barn with pens
9. Duck + Goose Barn (Macdonald Barn)
10. Close up's Cows + Heifer Barn with pens (Cow shelter with pens)
11. Water Wells
12. Lagoon Hogs (EMS)
13. Lagoon Hogs (EMS)
14. His + Hers
15. Dairy Lagoon (EMS)
16. Dairy Dry Cow Corrals (Pens)

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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 \_\_\_\_\_

Signed this 3 day of March, 2025.

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



ENVIRONMENTAL PROTECTION

## INTERIM LICENCE

Pursuant to the  
WATER RESOURCES ACT

Nº 20843

Acadia Hutterian Brethren  
Box 210  
Oyen, Alberta  
T0J 2J0

File No. 18460-2

Priority No. 1978-04-04-07

having complied with the applicable provisions of the Water Resources Act and the Regulations is authorized as soon as right-of-way is obtained:

A. To construct works as shown on plans and reports filed, approved and identified in departmental records as:

18460-1 Water Source Well Plan

B. To divert and use water as specified and described subject to the following terms and conditions:

PURPOSE: Agricultural (Stockwatering)

SOURCE OF SUPPLY: Aquifer

GROSS DIVERSION: Up to 19 acre-feet (5.3 million Canadian gallons)  
per annum consisting of:

1. Estimated Consumptive Use: 5.3 million gallons
2. Estimated Losses: NIL
3. Estimated Return Flow: NIL

POINT OF  
DIVERSION

WELL  
NUMBER

PRODUCTION  
INTERVAL

MAXIMUM  
PUMP RATE

MAXIMUM ANNUAL  
DIVERSION

16-18-26-3-4

78-04-04-07

180' - 190'

25 Cgpm

5.3 mCg

(North Wells) Pig Barn Well (South Well)

Construction must be complete by (constructed)

1995 12 05

Dated at Edmonton

Head, Ground Water Rights Branch



AO Comment: Water well used for watering livestock.

Alberta

# Water Well Drilling Report

View in Metric Export to Excel

GIC Well ID 175738  
GeA Well Tag No.  
Drilling Company Well ID  
Date Report Received 1982/08/10

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.

## GOWNID

Well Identification and Location										
Owner Name ACADIA COLONY		Address P.O. BOX 210 OYEN		Town		Province		Country		Measurement in Imperial Postal Code
Location	1/4 or LSD SE	SEC 7	TWP 26	RGE 3	W of MER 4	Lot	Block	Plan	Additional Description	
Measured from Boundary of ft from _____ ft from _____					GPS Coordinates in Decimal Degrees (NAD 83) Latitude 51.201339 Longitude -110.408234 How Location Obtained Map			Elevation _____ ft How Elevation Obtained Not Obtained		

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

Formation Log		Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description
54.00		Brown Sandy Clay
57.00		Sand
83.00		Blue Clay
155.00		Brown Clay
255.00		Soft Shale
277.00		Soft Sandstone
281.00		Shale
295.00		Sandstone
362.00		Shale
363.00		Sandstone
383.00		Shale
367.00		Sandstone
395.00		Shale
400.00		Sandstone
408.00		Shale
415.00		Sandstone & Shale Ledges
423.00		Sandstone
431.00		Shale & Sandstone Ledges
441.00		Shale
443.00		Sandstone
465.00		Shale
505.00		Shale
525.00	Yes	Water Bearing Sandstone
540.00		Shale

Yield Test Summary		Measurement in Imperial
Recommended Pump Rate	12.00 l/gpm	
Test Date	Water Removal Rate (l/gpm)	Static Water Level (ft)
1982/08/15	10.00	138.00

Well Completion		Measurement in Imperial
Total Depth Drilled	Finished Well Depth	Start Date
540.00 ft	1982/08/01	End Date
		1982/08/18

Borehole		
Diameter (in)	From (ft)	To (ft)
0.00	0.00	540.00

Surface Casing (if applicable)		Well Casing/Liner	
Steel		Steel	
Size OD:	0.00 in	Size OD:	5.56 in
Wall Thickness:	0.000 in	Wall Thickness:	0.188 in
Bottom at:	0.00 ft	Top at:	0.00 ft
		Bottom at:	525.00 ft

Perforations				
From (ft)	To (ft)	Diameter or Slot Width (in)	Slot Length (in)	Hole or Slot Interval (in)
495.00	525.00	0.000		0.00

Perforated by	Unknown
Annular Seal	Driven
Placed from	0.00 ft to 470.00 ft
Amount	
Other Seals	
Type	At (ft)

Screen Type		
Size OD:	0.00 in	
From (ft)	To (ft)	Slot Size (in)

Attachment	
Top Fittings	Bottom Fittings

Pack	
Type	Grain Size
Amount	0.00

## Contractor Certification

I hereby certify that the information on this report is true and correct to the best of my knowledge and belief.

UNKNOWN NA DRILLER

M&M DRILLING CO. LTD.

## Certification No

1

Copy of Well report provided to owner Date approval holder signed

Printed on 10/24/2024 10:21:14 AM

Page: 1/2





# Water Well Drilling Report

View in Metric Export to Excel

GIC Well ID 175738  
GeA Well Tag No.  
Drilling Company Well ID  
Date Report Received 1982/09/10

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.

GOWN ID

Well Identification and Location										Measurement in Imperial	
Owner Name		Address		Town		Province		Country		Postal Code	
ACADIA COLONY		P.O. BOX 210 OYEN									
Location	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	SE	7	26	3	4						
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation	
ft from					Latitude 51.201339 Longitude -110.408234					ft	
ft from					How Location Obtained					How Elevation Obtained	
					Map					Not Obtained	

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level										in	
Is Artesian Flow										Is Flow Control Installed	
Rate										l/gpm	
Describe											
Recommended Pump Rate										12.00 l/gpm	
Recommended Pump Intake Depth (From TOC)										400.00 ft	
Pump Installer										Depth	
Type										ft	
Make										H.P.	
Model (Output Rating)											
Did you Encounter Saline Water (>4000 ppm TDS)										Depth	
Gas										ft	
Depth										ft	
We'll Disinfect Upon Completion											
Remedial Action Taken										Geophysical Log Taken	
										Submitted to ESRD	
Samples Collected for Potability										Submitted to ESRD	
Additional Comments on Well											
DRILLER REPORTS SOFT WATER.											

Yield Test			Taken From Ground Level		Measurement in Imperial	
			Depth to water level			
Test Date	Start Time	Static Water Level	Pumping (ft)	Elapsed Time	Recovery (ft)	
1982/08/19	12:00 AM	136.00 ft		Minutes:Sec		
Method of Water Removal						
Type Bailer & Pump						
Removal Rate 10.00 l/gpm						
Depth Withdrawn From 400.00 ft						
If water removed pump, 1 hour, explain why						

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

## Contractor Certification

Signature of Driller  
UNKNOWN MA DRILLER  
Company Name  
M&M DRILLING CO. LTD.

## Certification No

1

Copy of Well report provided to owner Date approval holder signed

Printed on 19/24/2024 10:21:14 AM

Page: 2 / 2



# Water Well Drilling Report

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

GIC Well ID 1270053  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received

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.

GOWN ID

Well Identification and Location										Measurement in Imperial	
<b>Owner Name</b>		<b>Address</b>		<b>Town</b>		<b>Province</b>		<b>Country</b>		<b>Postal Code</b>	
ACADIA HUTTERIAN BRETHREN		P.O. BOX 210		OYEN		ALBERTA		CA		T0J 2J0	
<b>Location</b>	<b>1/4 or LSD</b>	<b>SEC</b>	<b>TWP</b>	<b>RGE</b>	<b>W of MER</b>	<b>Lot</b>	<b>Block</b>	<b>Plan</b>	<b>Additional Description</b>		
	10	7	26	3	4						
<b>Measured from Boundary of</b>					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>						
ft from _____					Latitude <u>51.206000</u> Longitude <u>-110.410167</u>					Elevation _____ ft	
ft from _____					How Location Obtained					How Elevation Obtained	
					Hand held autonomous GPS 20-30m					Not Obtained	

Drilling Information	
<b>Method of Drilling</b>	<b>Type of Work</b>
Drilled	Reconditioned
<b>Proposed Well Use</b>	
Domestic	

Formation Log			Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description	
59.00		Brown Till	
80.00		Gray Till	
85.00		Gray Carbonaceous Clay	
130.00		Brown Clay	
147.00		Brownish Yellow Sandy Clay	
268.00		Gray Shale	
278.00		Gray Siltstone	
304.00		See Comments Sandstone	
310.00		Light Brown Shale	
334.00		Dark Brown Carbonaceous Shale	
380.00		Greenish Gray Shale	
398.00		Sandy Shale	
428.00		Silty Sandstone	
434.00		Light Brown Shale	
441.00		See Comments Sandstone	
448.00		Light Gray Shale	
460.00		Gray Shale	

Yield Test Summary			Measurement in Imperial
Recommended Pump Rate			5.00 igpm
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)	
1999/05/05	5.00	157.32	

Well Completion				Measurement in Imperial
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
460.00 ft		1999/04/27	1999/05/05	
<b>Borehole</b>				
Diameter (in)	From (ft)	To (ft)		
<b>Surface Casing (if applicable)</b>		<b>Well Casing/Liner</b>		
Plastic		Unknown		
Size OD :	5.56 in	Size OD :	in	
Wall Thickness :	0.390 in	Wall Thickness :	in	
Bottom at :	433.00 ft	Top at :	ft	
		Bottom at :	ft	
<b>Perforations</b>				
From (ft)	To (ft)	Diameter or Slot Width (in)	Slot Length (in)	Hole or Slot Interval (in)
Perforated by Unknown				
<b>Annular Seal</b> Bentonite Chips/Tables				
Placed from	15.00 ft	to	300.00 ft	
Amount				
Other Seals				
Type	At (ft)			
<b>Screen Type</b> Stainless Steel				
Size OD :	3.00 in			
From (ft)	To (ft)	Slot Size (in)		
433.00	443.00	0.015		
Attachment Attached To Casing				
Top Fittings	Threaded	Bottom Fittings	Washdown	
<b>Pack</b>				
Type	Silica Sand	Grain Size	20-40	
Amount	1100.00 Pounds			

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well	Certification No
GERALD TOPILKA	3490AD
Company Name	Copy of Well report provided to owner Date approval holder signed
ELK POINT DRILLING CORP.	



# Water Well Drilling Report

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

GIC Well ID 1270053  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received

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.

**GOWN ID**

Well Identification and Location										Measurement in Imperial	
<b>Owner Name</b> ACADIA HUTTERIAN BRETHREN		<b>Address</b> P.O. BOX 210			<b>Town</b> OYEN		<b>Province</b> ALBERTA		<b>Country</b> CA	<b>Postal Code</b> T0J 2J0	
<b>Location</b>	<b>1/4 or LSD</b>	<b>SEC</b>	<b>TWP</b>	<b>RGE</b>	<b>W of MER</b>	<b>Lot</b>	<b>Block</b>	<b>Plan</b>	<b>Additional Description</b>		
	10	7	26	3	4						
<b>Measured from Boundary of</b>						<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>			<b>Elevation</b> _____ <b>ft</b>		
_____ <b>ft from</b>						Latitude <b>51.208000</b> Longitude <b>-110.410167</b>			How Location Obtained		
_____ <b>ft from</b>						Hand held autonomous GPS 20-30m			Not Obtained		

Additional Information		Measurement in Imperial	
Distance From Top of Casing to Ground Level _____ in	Is Flow Control Installed _____		
Is Artesian Flow _____	Describe _____		
Rate _____ igpm	_____		
Recommended Pump Rate _____ 5.00 igpm	Pump Installed <b>Yes</b>	Depth _____ ft	_____
Recommended Pump Intake Depth (From TOC) _____ 410.01 ft	Type _____	Make <b>GOULDS 5GS10412</b>	H.P. <b>1</b>
_____		Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS) _____	Depth _____ ft	Well Disinfected Upon Completion _____	
Gas _____	Depth _____ ft	Geophysical Log Taken <b>Electric</b>	
Remedial Action Taken _____		Submitted to ESRD <b>Electric</b>	
Additional Comments on Well _____		Sample Collected for Potability _____ Submitted to ESRD _____	

Yield Test			Taken From Ground Level Depth to water level		Measurement in Imperial
Test Date	Start Time	Static Water Level	Pumping (ft)	Elapsed Time Minutes:Sec	Recovery (ft)
1999/05/05	12:00 AM	157.32 ft			
<b>Method of Water Removal</b>					
Type	Pump				
Removal Rate	5.00 igpm				
Depth Withdrawn From	400.00 ft				
If water removal period was < 2 hours, explain why					
			157.35	0:00	
			166.18	0:30	314.70
			169.52	1:00	311.91
			176.12	2:00	306.56
			181.82	3:00	301.31
			187.70	4:00	296.26
			192.85	5:00	291.40
			197.57	6:00	285.07
			207.22	8:00	278.31
			216.24	10:00	270.21
			223.39	12:00	263.19
			233.30	15:00	253.58
			247.61	20:00	239.90
			255.97	25:00	228.61
			268.57	30:00	219.23
			282.81	40:00	205.18
			292.88	50:00	195.34
			301.28	60:00	188.42
			308.92	80:00	179.50
			314.34	100:00	174.74
			317.95	120:00	171.85

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

<b>Contractor Certification</b>	
Name of Journeyman responsible for drilling/construction of well <b>GERALD TOPIKA</b>	Certification No <b>3490AD</b>
Company Name <b>ELK POINT DRILLING CORP.</b>	Copy of Well report provided to owner      Date approval holder signed

## 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

### WATER WELL AND SURFACE WATER INFORMATION

Well IDs: 175738 1270053

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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NRCB  
Natural Resources  
Conservation Board

### 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 Dairy

Proposed 1: Lager Barn

Proposed 2: \_\_\_\_\_

Proposed 3: \_\_\_\_\_

Facility and environmental risk information		Facilities				NRCB USE ONLY	
		Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
Flood plain information	What is the elevation of the floor of the lowest manure storage or collection facility above the 1:25 year flood plain or the highest known flood level?	<input checked="" type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input type="checkbox"/> > 1 m <input type="checkbox"/> ≤ 1 m	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Not in a known flood plain
	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	None observed on site
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	0	0			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	187 m from WW ID #'s 1270053 & 175735 to macdonald barn (closest CFO facility)
	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	400 m	380 m			<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	Marsh 90 m East of dairy EMS; marsh 30 m West of cow shelter & pens/dairy dry cow pens; marsh is >100 m from layer barn expansion
Groundwater information	What is the depth to the water table?			20 m		<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	No drill logs on record. Water table estimated to be at 20 m
	What is the depth to the groundwater resource/aquifer you draw water from?	121 m				<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES with exemption	UGR 132 m below grade in WW ID # 1270053

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

## 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

### ENVIRONMENTAL RISK SCREENING INFORMATION

#### ERST for proposed facilities

Facility	Groundwater score	Surface water score	File number
Layer barn expansion	Low	Low	LA25021

#### ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
Dairy EMS	Low	Low	LA25021
Cow shelter with pens	Low	Low	LA25021
Dairy dry cow pens	Low	Low	LA25021

#### ERST related comments:

AO Comment: The dairy ems, cow shelter with pens, and dairy dry cow pens appear to be the CFO's highest risk facilities and were the only facilities scored with the ERST. As these facilities are found to pose a low potential risk to groundwater and surface water, the other existing facilities are presumed to pose a low risk to both groundwater and surface water.



## 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)

### 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)	Meets regulations
Jeffrey Stammers	SE 13-26-4-W4	1200 m	Agriculture	1	845	Yes
<del>Jason Aaron Dillabaugh</del>	<del>NE 34-25-3-W4</del>	<del>5000 m</del>	<del>Agriculture</del>	<del>1</del>	<del>5,760</del>	<del>Yes</del>
Jason Aaron Dillabaugh	NE 34-25-3-W4	5000 m	Agriculture	1	5,760	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)
H.B. of Acadia Colony	Sec 6-T26-R3-W4	635	Sandy loam	607.4 acres	N/A
H.B. of Acadia Colony	Sec 5-T26-R3-W4	640	Sandy loam	636.3 acres	N/A
H.B. of Acadia Colony	Sec 8-T26-R3-W4	631	Sandy loam	611 acres	N/A
H.B. of Acadia Colony	Sec 17-T26-R3-W4	630	Sandy loam	551.5 acres	N/A
H.B. of Acadia Colony	Sec 31-T26-R3-W4	625	Sandy loam	409.7 acres	N/A
Total				2815.9 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)

AO Comment: Land base is listed in acres and applicant has only brown/dark brown soil.

Name Acadia Colony Farming Co.  
 Address  
 Legal Land  
 Location

# MDS Spreadsheet based on 2006 AOPA Regulations

Category of Livestock	Type of Livestock	Factor A	Technology Factor	MU	LSU Factor	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	176.0
	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	2,349.6
	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	548.4
	Chicken - Layers - (Deep Pit)	2.000	0.700	0.008	0.0112	-
	Chicken - Pullets/Broilers	1.000	0.700	0.002	0.0014	34.3
	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	0.7
	Ducks	1.000	0.700	0.010	0.0070	2.8
	Geese	1.000	0.700	0.020	0.0140	1.4
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 3,113.2

## For New Operations

Dispersion Factor

1

Category	Odour Objective	Distance	
		Feet	Metres
1	41.04	2,536	773
2	54.72	3,382	1,031
3	68.4	4,227	1,288
4	109.44	6,764	2,062

## For Expanding Operations

Dispersion Factor

1

Expansion Factor

0.77

Category	Odour Objective	Distance	
		Feet	Metres
1	41.04	1,953	595
2	54.72	2,604	794
3	68.40	3,255	992
4	109.44	5,208	1,587



Name Acadia Colony Farming Co.  
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
		0.0				
Dairy (*count lactating cows only)	Free Stall - Lactating Cows with all associated dries, heifers, and calves*	100.0	148.5	123.7	92.8	74.2
	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				
		0.0				
Swine Liquid (*count sows only)	Farrow to finish*	600.0	401.0	334.2	250.7	200.5
	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)	48960.0	269.3	225.2	166.5	137.1
	Chicken - Layers - (Deep Pit)	0.0	0.0	0.0	0.0	0.0
	Chicken - Pullets/Broilers	24500.0	79.6	66.4	49.7	39.9
	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	100.0	0.5	0.4	0.3	0.3
	Ducks	400.0	0.6	0.5	0.4	0.3
	Geese	100.0	0.3	0.3	0.2	0.2
		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
Cervid	Elk	0.0	0.0	0.0	0.0	0.0
	Deer	0.0	0.0	0.0	0.0	0.0
Wild Boar		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
		0.0				

Total Hectares	900	750.7	560.6	452.5
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Total Acres	2,224	1,855.1	1,385.3	1,118.1
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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)

### 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: 773 Category 2: 1,031 Category 3: 1,288 Category 4: 2,062

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: 2,224 acres brown/dark brown

Land base listed: 3,161 acres brown/dark brown

Area not suitable: 345.1 acres brown/dark brown

Available area 2,815.9 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 Partially completed in Authorizations LA03032/LA03032A



## 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. Layer Barn
2. \_\_\_\_\_

#### Manure storage capacity

	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m <sup>3</sup> )
1.	<u>100 m</u> 108.2	<u>30 m</u> 30.5	0	
2.				
TOTAL CAPACITY				Sufficient capacity

AO Comment: Applicant is proposing to build a 72.2 m x 15.3 m addition to existing layer barn and has listed the final dimensions.

☒ 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

Barn Has a Roof  
(No Run off)

#### Liner protection

Describe how the physical integrity of the liner will be maintained

Maintain Cracks  
With Sikaflex

#### 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 inches</b>	Method of sulphate protection: <b>Type 50</b>
Concrete strength <b>30 mpa</b>	Concrete reinforcement size and spacing <b>10mm rebar on 12 inch spacing</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:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Condition required:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Report attached:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

#### Additional information (attach as required)

#### NRCB USE ONLY

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

Depth to water table: **Estimated at 20 m below grade** Requirements met: ☒ YES ☐ NO

Depth to Uppermost groundwater resource: **132 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

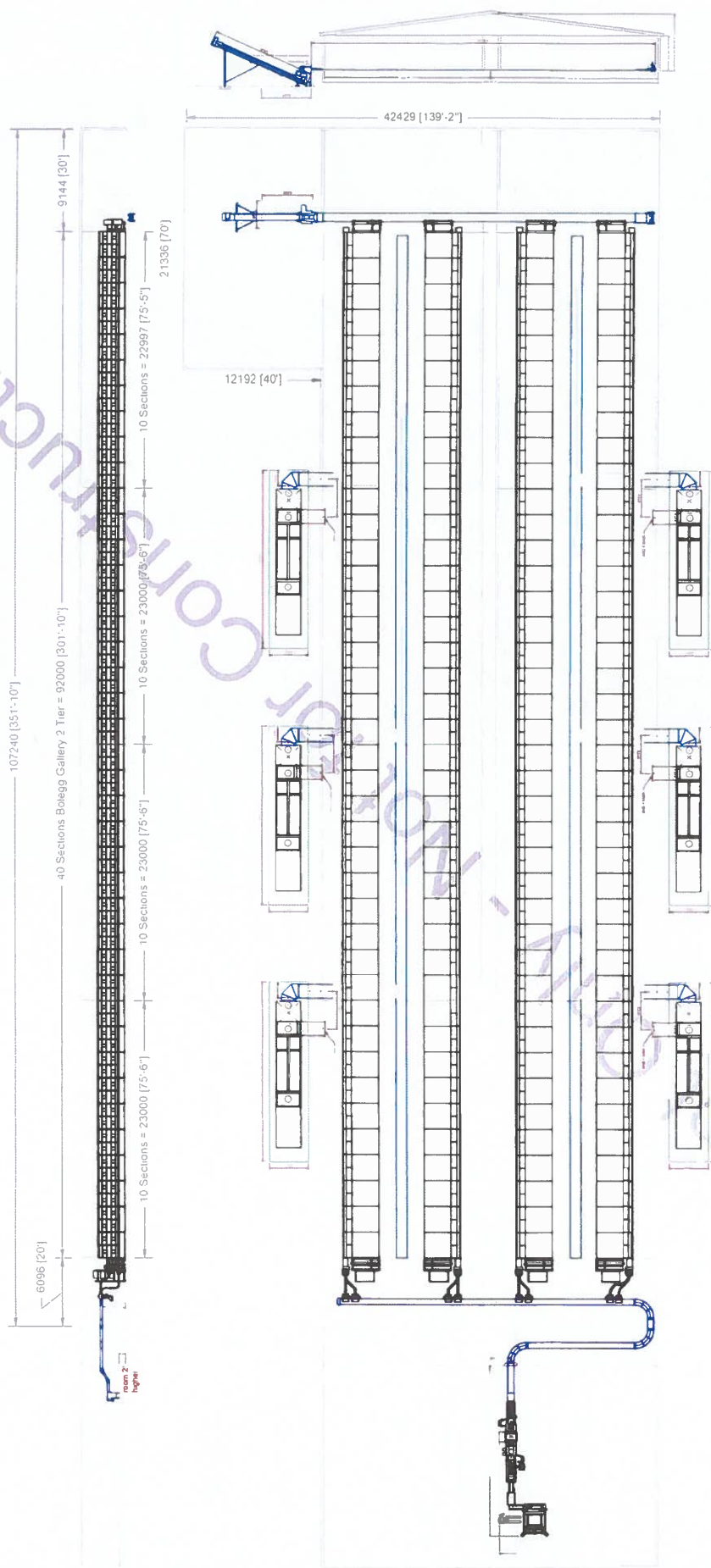
A condition is included in this permit requiring the applicant to provide proof that the concrete will meet the specifications for category D (solid manure - dry) as outlined in Technical Guideline Agdex 096-93 "Non-Engineered Concrete Liners for Manure Collection and Storage Areas".

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



AO Comment: Proposed construction plans for the layer barn with the addition

Construction

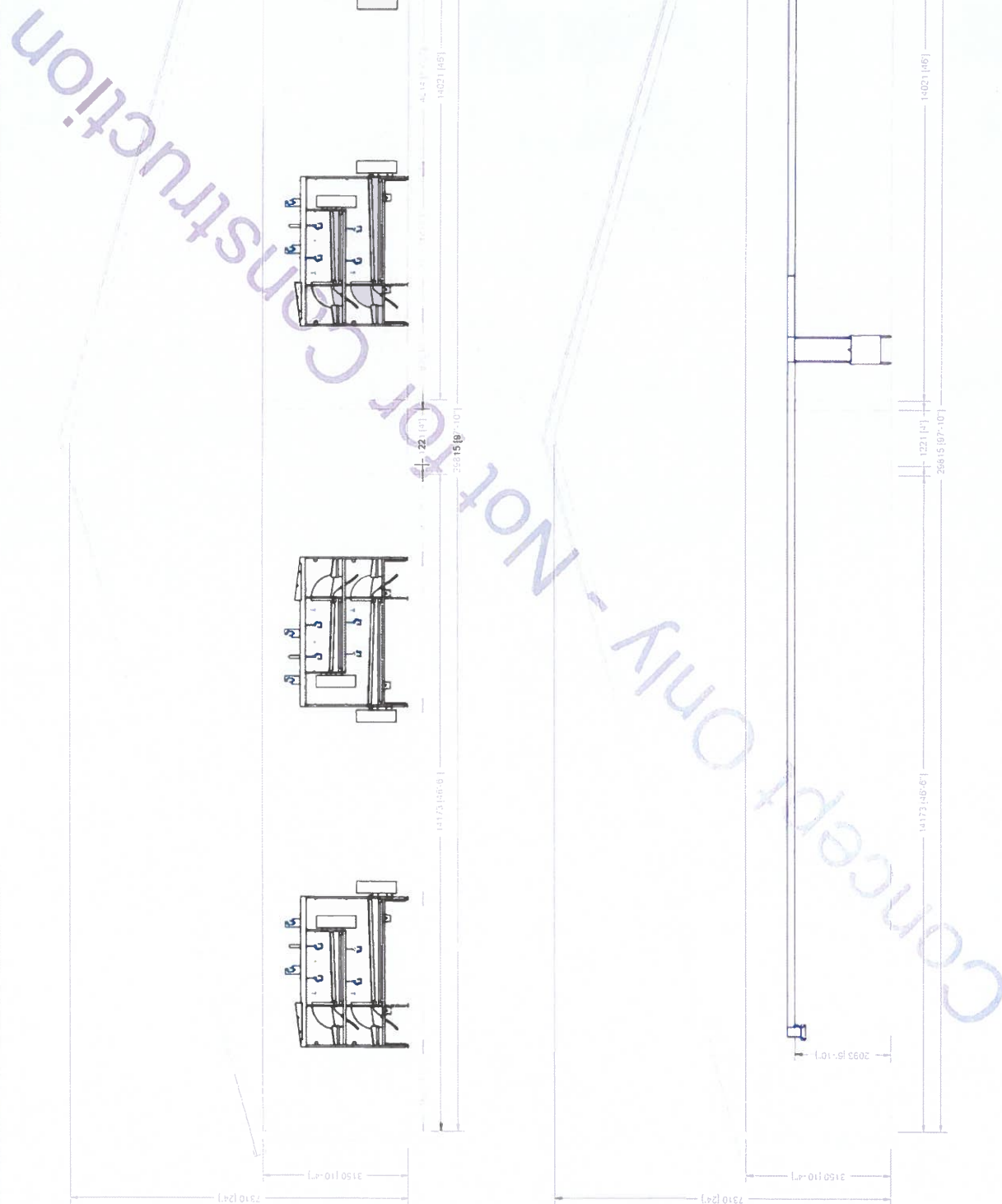


Quote nr.: VEN



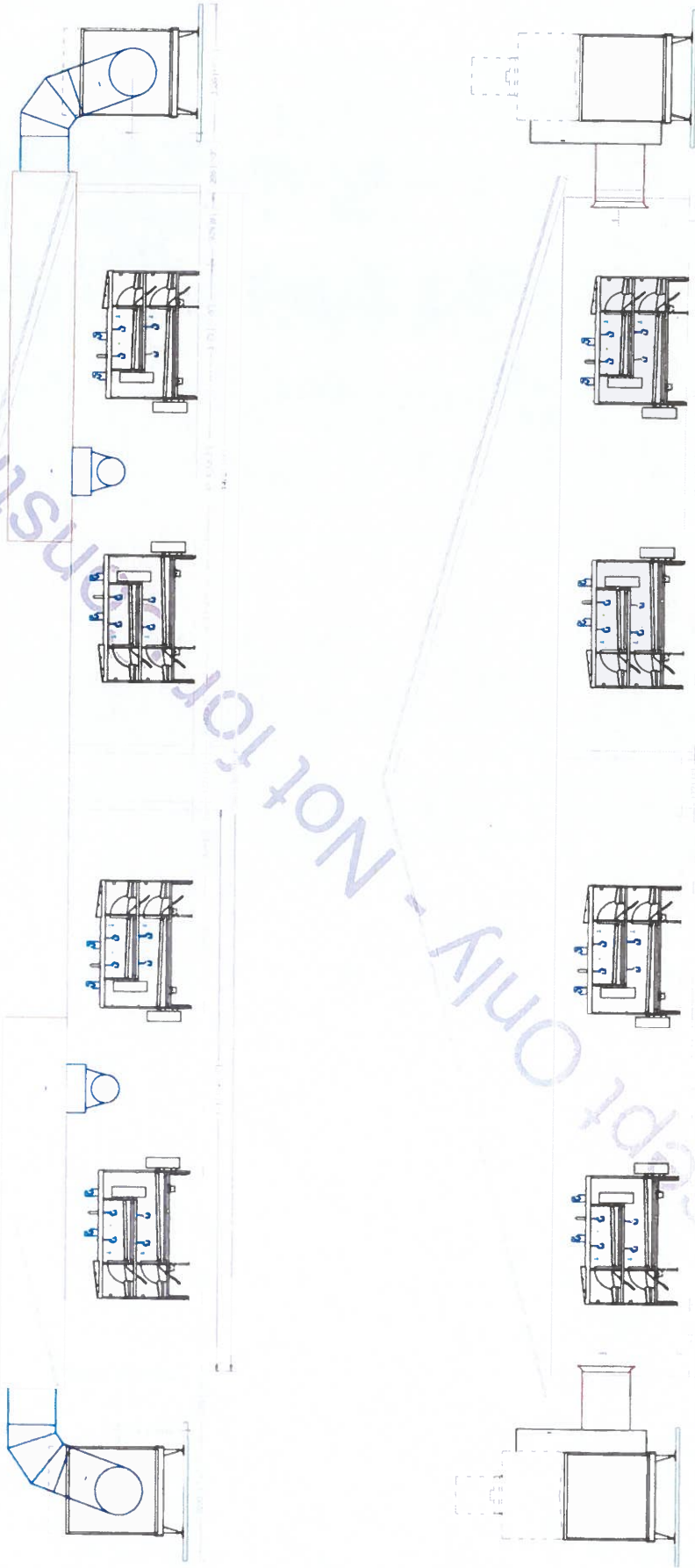
Agro Supply - Pensions - Vencomatic

Drw.nr.: Acadia Colony 25-02-25





Concept Only - Not for Construction



Quote nr.: VEN



Draw nr.: Acadia Colony 25-02-25  
Date: 25/02/2025

Page 39 of 304

## 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

January 27, 2025	

#### CORRESPONDENCE WITH MUNICIPALITIES AND REFERRAL AGENCIES

Date deeming letters sent: April 1, 2025

Municipality: MD of Acadia

☒ 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: Special Areas No. 3, TC Energy (NGTL GP Ltd.) ☐ N/A

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

Canadian Utilities Ltd., Dry Country Gas Coop Ltd., Henry Kroeger  
Other: Regional Water Services Commission ☐ N/A

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



# Xerox® AltaLink® C8145 Color MFP

## SMTP Transfer Report

xerox™

### Job Status: FAILED

Job canceled by user.

### Job Information

Device Name: Xerox AltaLink C8145 \(\AA:5C:C1\)  
Submission Date: 05/13/25  
Submission Time: 11:58 AM  
Images Scanned: 4  
Size: 390311  
Attachment Name: Scanned from a Xerox Multifunction Printer.pdf  
Format: Image-Only PDF  
Encrypted E-mail: No

### SMTP Server

Address: nrcb-ca.mail.protection.outlook.com:25

### Message Settings:

Subject: Scanned from a Xerox Multifunction ...  
From: administrator@nrcb.ca  
Reply To: administrator@nrcb.ca  
To:

1. kailee.davis@nrcb.ca