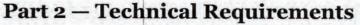
# **Technical Document RA24042**





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
Approval Registration Authorization	RA24042	SW 22-40-27 W4M
Amendment		

### APPLICATION DISCLOSURE

This information is collected under the authority of the Agricultural Operation Practices Act (AOPA), and is subject to the provisions of the Freedom of Information and Protection of Privacy Act. This information is public unless the NRCB grants a written request that certain sections remain private.

Any construction prior to obtaining an NRCB permit is an offence and is subject to enforcement action, including prosecution.

I, the applicant, or applicant's agent, have read and understand the statements above, and I acknowledge that the information provided in this application is true to the best of my knowledge.

Jan, 6, 2025

Date of signing

Thornspyc Dairy Ltd

Signature

Print name

Jan van de Brake

Corporate name (if applicable)

### **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)		
1. New solid bedding pack barn (Lactating & Dry)	110m, 40m, 0		
2. Youngstock #2, Replacement and addition to youngstock shed	125m, 16m, 0		
3. Youngstock #3, Addition to youngstock pack shed (1 continuous shed)	125m, 16m, 0		
AO note: the proposed expansion (+150 milking cows) will be managed on a solid manure system only. The freestall dairy barn	AO note: 125 m x 50 m = final dimensions. The current youngstock		
only has capacity for the current 150 milking cows. There will be no expansion to scrape alleys or liquid manure systems.	3 is made up of 2 smaller facilities which will be extended and widened		
	to form one continuous shed.		

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

Existing facilities	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Calf Hutch Barn	28m, 9m, 0	Existing facilities confirmed
Youngstock #2 Pack Shed with concrete alley	53m, 13m, 0 (to be d	ecommissioned and rebuilt)
Youngstock #3 (pack shed w/ Concrete)	<del>120m, 25m, 0-</del>	
NRCB USE ONLY	125 m x 16 m (to be	e extended)

NRCB USE ONLY

This operation does not have any NRCB-issued permits.



Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

Dimensions (m) (length, width, and depth)	NRCB USE ONLY
576m squared	(to be decommissioned and rebuilt)
51.21m, 30.78m, 2m	
24.39m, 18.29m, 0	
88 m <del>76m,</del> 35m, 7m deep	
	*
-	
	(length, width, and depth) 576m squared 51.21m, 30.78m, 2m 24.39m, 18.29m, 0 88 m <del>76m,</del> 35m, 7m deep

Page 2 of 16 RA24042 TD Page 2 of 21



Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

	ng an old facility, please explain what will happen to the old facility and wh	ien. 🗆 N/A
The old facility will be	lisposed of before building	
	*	
AO note: youngstock	shed #2 will be replaced and expanded	
and the second	Winter 2026	
onstruction completion	late for proposed facilities	
dditional information		
Facilities will be built in	stages with hopes of starting the first as soon as we have the permit i	n place
		n place.
	-	
×		

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
Lactating dairy cattle (plus dries and replacen	nents) 150	150	300
AO note: applicant has also requested a gra	andfathering for 150 la	ctating cows	
		11	
			,

Last updated September 11, 2023



of Applicant or Agent

Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, NRCB Natural Resources and/or manure storage facility(ies)

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

# 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) \_No 21968, File 80315

Signed this \_16\_ day of \_\_December\_ 2024

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.

Provide: Water license number(s) or water conveyance agreement details \_

Signed this \_\_\_\_ day of \_\_\_

, 20

Applicant or Agent.

Signature of



Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, NRCB Natural Resources and/or manure storage facility(ies)

# OPTION 4: Uncertain if Water Act licence is needed; acknowledgement of risk (for existing CFOs only)

- At this time, I (we) do not know whether a new water licence is needed from EPA under the Water Act for the development or activity proposed in this AOPA application.
- If a new Water Act licence is needed, I (we) request that the NRCB process the AOPA application independently of EPA's processing of the CFO's application for a water licence.
- 3. In making this request, I (we) recognize that, if this AOPA application is granted by the NRCB, the NRCB's decision will not be considered by EPA as improving or enhancing the CFO's eligibility for a water licence under the *Water Act*.

4. I (we) acknowledge that any construction or actions to populate the CFO with additional livestock pursuant to an AOPA permit in the absence of a Water Act licence will <u>not</u> be relevant to EPA's consideration of whether to grant my Water Act licence application, if a new water licence is needed.

5. I (we) acknowledge that any such construction or livestock increase will be at the CFO's sole risk if the Water Act licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the Water Act. This risk includes being required to depopulate the CFO and/or to cease further construction, or to remove "works" or "undertakings" (as defined in the Water Act).

6. **AS RELEVANT:** I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the *Bow, Oldman and South Saskatchewan River Basin Water Allocation Order* [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations. 7. **Provide:** Water license number(s) or water conveyance agreement details \_\_\_\_\_\_

-					
Classed this	day of	, 20		and the second second	_ Signature of
Signed this		/ ==		Applicant or Agent	



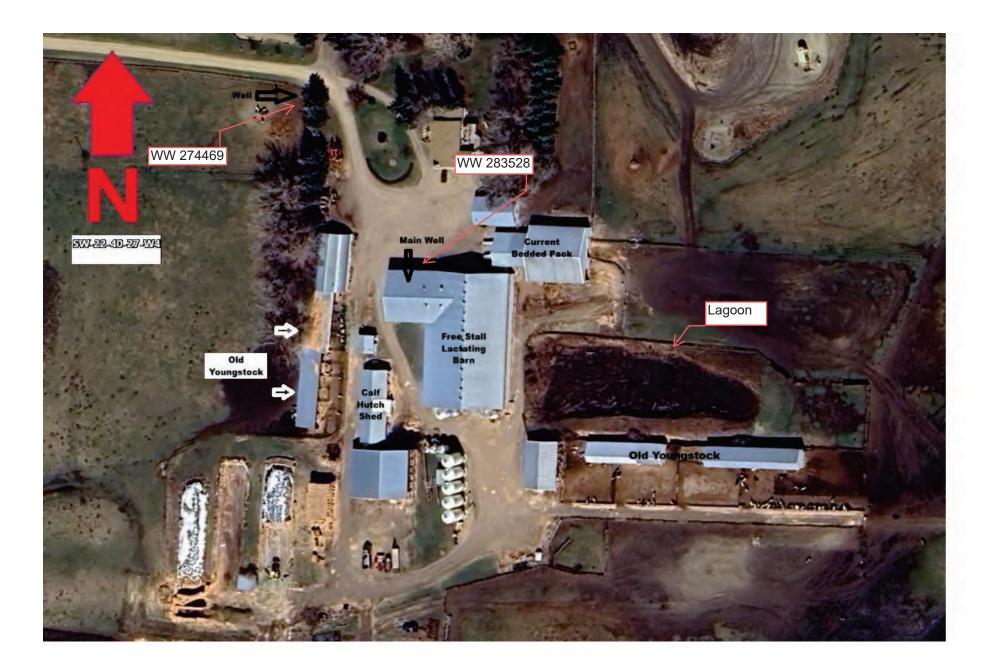
Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

### **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 Propose	10.11	K				Posed pack 3 youngs	
Facili	ity and environmental risk		Faci	lities			NRCB USE ONLY
	information	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?	[] >1 m [] ≤ 1 m	⊠ >1 m □ ≤ 1 m	⊠ >1 m □ ≤ 1 m	[] > 1m [] ≤ 1m	YES NO YES with exemption	Confirmed
ja e	How many springs are within 100 m of the manure storage facility or manure collection area?	D	0	0	0	YES NO YES with exemption	None; confirmed on site
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	1	1	0	D	YES NO	2 wells within 100 meters of proposed youngstock shed #2
Su E	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	275m	345m	370m	225m	YES INO YES with exemption	Proposed youngstock shed #3 ~50 m from slough
Groundwater information	What is the depth to the water table?	17.6mt 11.5r	n			YES NO YES with exemption	~10 m from drilling logs
Ground	What is the depth to the groundwater resource/aquifer you draw water from?	45m and 29M				YES NO	32 m from WWID 283528

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







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 INFORMATI	ON	
Well IDs:				
Surface water rela	ated concerns from d	irectly affected parties or ref	erral agencies:	
Groundwater rela	🗌 YES 🔀 NO			
Water wells	□ N/A			
If applicable, exer	mption for 100 m dist	ance requirements applied:	YES 🗌 NO Condition	required: 🛛 🛛 YES 🗖 NO
Surface water	N/A			
If applicable, exer	mption for 30 m dista	nce requirements applied:	YES NO Condition	required: YES NO
	mption Screening T			
Wate	er Well ID	Preliminary Screening Score	Secondary Screening Score	Facility
283528		33 =Action required; continue to next section	8 = exemption more likely	Pack barn, youngstock shed 2, youngstock shed 3
274469		18 = continue to next section	8 = exemption more likely	Pack barn, youngstock shed 2
Groundwater or	surface water rela	ted comments:		

An exemption to the 100 m setback for both water wells will be granted. A water well monitoring condition for WWID 283528 will be included in the permit due to the construction of the well, and the proximity of the well to manure storage and collection areas.



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
Solid bedding pack barn	Low	Low	RA24042
Youngstock shed #2	Low	Low	RA24042
Youngstock shed #3	Low	Low	RA24042

### ERST for <u>existing</u> facilities

Facility	Groundwater score	Surface water score	File number
Lagoon	Low	Low	RA24042
Freestall dairy barn	Low	Low	RA24042

**ERST related comments**:



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

			NRCB USE ONLY				
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Kassies Dainy	NW-15-40-27-WH	470m	Agriculture	1	475 m	N/A	Yes to all
Reuben Kracy (Kracy Tamily F	mm) 5E-21-40-27-W4	620m	Ag	1	612 m		
Kassies Dainy	NE-16-40-27-WH	440m	Ag	1	465 m		

### LAND BASE FOR MANURE AND COMPOST APPLICATION (complete only if an increase in livestock or manure production will occur)

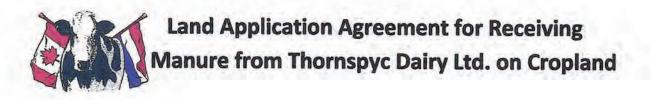
		-45		NRCB USE ONLY	
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
Thornspyc Dainy	5W-22-40-27-W4 SE-72-40-27-W4	60 58	Black Black		
	NE-30-39-27-W4	44.5	Black		
Kevin Debuik	SE-09-40-27-W4	41	Black		Yes
Duane, Fairhurst	NID-20-39-27-W4	53	Black.		Yes
Garry Devnes	Sw-09-40-27-W4	52	Black		Yes
1.	NW-33-39-27-W4	44.5	Black Total	353 ha	

\* 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)

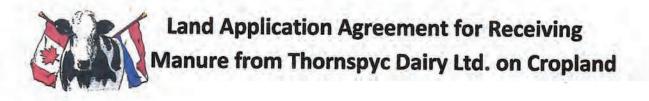
\*\*\* Brown, dark brown, black, grey wooded, or irrigated

Additional information (attach any additional information as required)



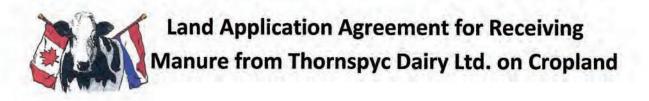
The undersigned landowner agrees to allow manure from Thornspyc Dairy Ltd. to be spread on <u>130</u> acres of his/her land. The land is located in the <u>SLJ</u> one quarter of Section <u>09</u>, in <u>40</u> Township, of <u>27</u> County. The undersigned landowner is the holder of Permit Number (none).

Signature of Landowner This Agreement is Good Until End o ease 2125 GRR Phone Number Name of Landowner 1 Address City Postal Code Date



The undersigned landowner agrees to allow manure from Thornspyc Dairy Ltd. to be spread on <u>110</u> acres of his/her land. The land is located in the <u>NW</u> one quarter of Section <u>33</u>, in <u>36</u> Township, of <u>27</u>. County. The undersigned landowner is the holder of Permit Number (none).

Signature of Landowner This Agreement is Good Until Name of Landowner Phone Number Lacon Postal Code Address City Date



The undersigned landowner agrees to allow manure from Thornspyc Dairy Ltd. to be spread on  $1/20^{7}$  acres of his/her land. The land is located in the  $\underline{n(i)}$  one quarter of Section  $\underline{20}$ , in  $\underline{39}$  Township, of  $\underline{27}$  County. The undersigned landowner is the holder of Permit Number (none).

Signature of Landowner This Agreement is Good Until Name of Landowner Phone Number Address Postal Code Date

# Land Application Agreement for Receiving Manure from Thornspyc Dairy Ltd. on Cropland

The undersigned landowner agrees to allow manure from Thornspyc Dairy Ltd. to be spread on <u>100</u> acres of his/her land. The land is located in the <u>SE</u> one quarter of Section <u>09</u>, in <u>40</u> Township, of <u>27.09</u> County. The undersigned landowner is the holder of Permit Number (none).

Signature of Landowner This Agreement is Good Until END OF RENTAL AGREEMENT Name of Landowner Phone Number ACOMBE T4L-1X3 Address City Postal Code Date



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 SEP	ARATION	
Methods used to determine distance	e (if applicable):Google Ea	arth
Margin of error (if applicable):	+/- 3 m	
Requirements (m): Category 1: 4	05 m Category 2:_5	39 m Category 3: 674 m Category 4: 1,079 m
Technology factor:		🗆 YES 🔀 NO
Expansion factor:		🗆 YES 🔀 NO
MDS related concerns from directly	affected parties or referral ag	gencies: 🛛 YES 🔀 NO
LAND BASE FOR MANURE		ICATION
Land base required: 278.4		
Land base listed: 353 ha	 J	
Area not suitable: N/A		
Available area353 H	18	Requirement met: 🕅 YES 🗖 NO
Land spreading agreements require	d: 🛛 🕅 YES 🗖 NO	
Manure management plan:	🗆 YES 💢 NO	If yes, plan is attached:
PLANS		
Submitted and attached construction	n plans: 🛛 YES 🖄	NO
Submitted aerial photos:	🔀 yes 🗆	] NO
Submitted photos:	🗆 yes 🍃	<b>K</b> NO
GRANDFATHERING		
Already completed:	🗆 yes 🔀	🚺 NO 🔲 N/A
If already completed, see		



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. Pack Barn

2. #2 Young Stock and #3 Youngstock

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.	110	<del>36</del> 40 m	<1m	1.000
2.	125 and 125	16 and not less than 16m	<1m for both	
AO n	ote: facilities will no	t be constructed below grade.	TOTAL CAPACITY Final dimensions of	Adequate storage

AO note: facilities will not be constructed below grade. Final dimensions of youngstock #3 are 125 m x 50 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	
N/A All Facilities are enclosed	
and a second second second	
e	
iner protection	
Describe how the physical integrity of the liner will	be maintained
Crack checking and filling	

NRCB USE ONLY

Requirements met: XYES D NO



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	phate protection:						
6 inches or greater as required	Т	Туре 50					
Concrete strength	(	Concrete reinforcement size and spacing					
30Mpa	A	As per requirement AO note: re-bar separation required to b					
Concrete requirements can be found in Technical Guideline Agdex 096 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 Additional information (attach as required)		ex 096-93					
NRCB USE ONLY		-		-			
Nine month manure storage volum	e requirements met 🛛 YE	s 🕨	YES With STMS	NO NO	1		
Depth to water table:	m	Rec	equirements met: 🛛 🕅 YES 🗖 NO				
Depth to Uppermost groundwater r	resource: <u>32 m</u>	Rec	uirements met:	X YES	NO		
ERST completed: 🔀 see ERST pag	e for details						
Surface water control systems Requirements met: XYES INO	Details/comments:						
<b>Concrete liner details</b> A condition will be included r requirements for category D Concrete Liners for Manure	(solid manure - dry) in T	Fechnical G					
Leakage detection system required	: YES XNO If yes,	please explai	n why.				
			*				

Last updated February 26, 2021



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		XYES C	]ио					
DATES OF APPROVAL OFFICER SITE VISITS								
October 23, 2024								
COPPESPONDENCI	E WITH MUNICIPAL	TTTES AN				CTES		
Date deeming letters sent	January 20, 2025					CILO		
Municipality:La								
	X response received	💢 writter	n/email		verbal		no comments received	
Alberta Health Service	es: X/A							
letter sent	□ response received	uritter writter	n/email		verbal		no comments received	
Alberta Environment a	nd Parks: 🛛 N/A							
V letter sent	response received	🔀 writter	n/email		verbal		no comments received	
Alberta Transportation	: 🗆 N/A							
K letter sent	K response received	🔀 writter	n/email		verbal		no comments received	
Alberta Regulatory Services:								
K letter sent	X response received	🔀 writter	n/email		verbal		no comments received	
Other:Atco Gas and Pipelines Ltd. and Vesta Energy Ltd Dv/A								
X letter sent	I response received	🗌 writter			verbal		no comments received	
City of Land	unde a							
Other: City of Lacombe								
ketter sent	Kresponse received	💢 writter	n/email		verbal		no comments received	

X

1999-07-12\_SW 22-40-27-W4M.pdf

Open with





Lacombe County

July 12, 1999

Hans Eggink RR1 Lacombe AB T0C 1S0

Transmitted by Fax to (403) 782-6735

Dear Mr. Eggink:

RE: Construction of New Dairy Barn Hanmon Dairies Ltd. (formerly Eggink Dairies) SW 22-40-27-W4M, southwest of Lacombe

This is to advise that no development permit will be required from the County for the construction of a dairy barn, provided the "replacement" building is designed and used for not more than 150 milking co-

No expansion or other changes to the dairy will be permitted, unless prior approval is received from County. An application to expand the dairy will be reviewed for compliance with standards contained provincial code of practice for responsible livestock development and manure management, as well as County's own policies and regulations. A copy of the procedure followed by the County is enclosed.

Please note that permission is also required from the County to build a new manure storage facility or site, or to expand or modify the existing earthen storage lagoon. The County directs that all sto facilities be properly engineered by a licensed professional engineer, including design, construc supervision and final certification of the facility.

If you need more information or if you have any further questions, please do not hesitate to call me.

Yours truly, LACOMBE COUNTY

Allan Williams, ACP, MCIP

Planner/Development Officer

Enclosure

5432 - 56 AVENUE LACOMBE, ALBERTA T4L 1E9 TELEPHONE (403) 782-6601 • FAX (403) 782-3820

Page 1 / 1

