#### **Technical Document RA23012**

#### Part 2 — Technical Requirements

NRCB Natural Resources
Conservation Board

Application under the	NRCB Conservation Board
Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection are	a, and/or manure storage facility(ies)
NRCB USE ONLY Application number	Legal land description
	NE-23-43-26-W4
	NC-23-43-20-VV4
APPLICATION Process	Contract of the Contract of th
APPLICATION DISCLOSURE	
This information is collected under the authority of the Agricultural Operation Practices Act (a provisions of the Freedom of Information and Protection of Privacy Act. This information is p written request that certain sections remain private.	AOPA), and is subject to the ublic unless the NRCB grants a
Any construction prior to obtaining an NRCB permit is an offence and is subject to opposecution.	enforcement action, including
1, the applicant, or applicant's agent, have read and understand the statements above, and provided in this application is true to the best of my knowledge.	I acknowledge that the information
January 20 2024	
Date of signing Signature	
Ridder Farms Ltd. Deanr	naRidder
Corporate name (if applicable) Print name	
CENEDAL THEODILL	
Proposed facilities: list all proposed confined feeding operation facilities and their dimensions.	sions. 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)
New dairy Barn	110m x 110m ma
decomission small pen	30m × 27m
change milking parlor to calf	# 11.9 m x 26.2m
pens	

Existing facilities	Dimensions (m) (length, width, and depth)  NRCB US		
Dairy Barn	75m x 41.45m		
Shelters & youngstock A	217m x81m		
II B	30m x 27m		

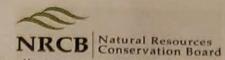
#### NRCB USE ONLY

Existing permitted facilities are discussed in DS RA23012 and AP RA23012

Shelter "B" has been decommissioned

Shelter "A" contains a permitted pen are (40 m x 70 m) and a pasture area

# Part 2 — Technical Requirements Application under the Agricultural Operation Practices Act for a confined feeding operation



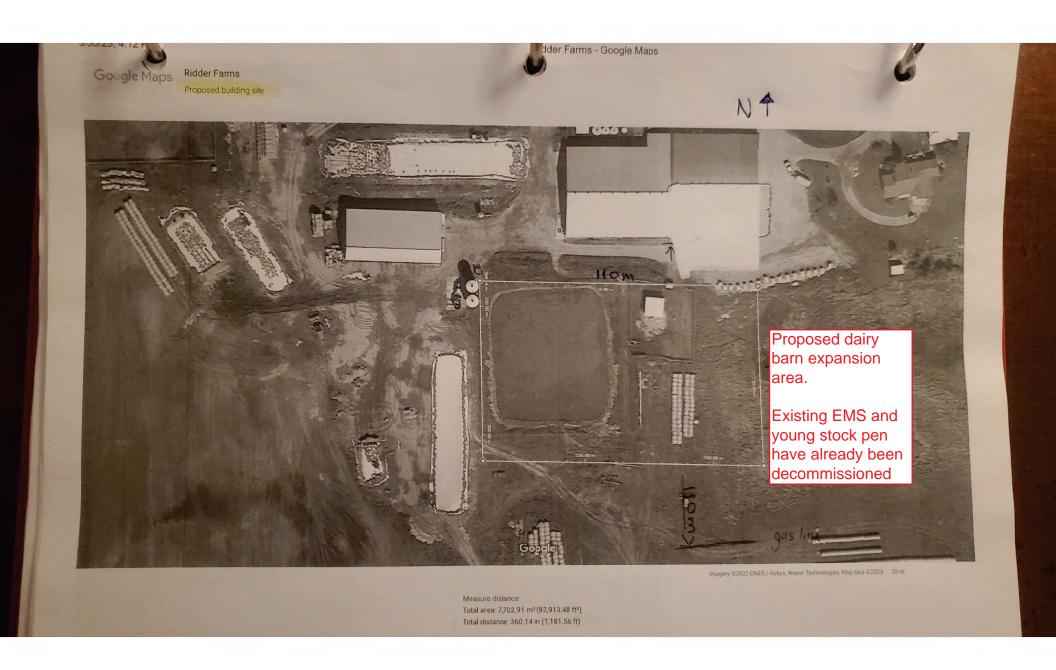
Calves	Will	1	1	and the old racine,	una whem	U N/A
Calves	20111	be	housed	in ol	d Parlo	ran
nstruction						
nstruction completion	date for propose	d facilities	2029	5?		
						7.7.
ivestock numbers: Com vestock numbers increase priority for minimum distan	ce separation (MD	ock numbers olication, a ne	are different from wha ew Part I application m	t was identified in the lust be submitted which	Part 1 application. h may result in a l	Note: if oss of
livestock numbers: Com livestock numbers increase priority for minimum distar Livestock cate (Available in the Schedul Regula	gory and type e 2 of the Part 2 M	S).	are different from wha ew Part I application m	t was identified in the lust be submitted which proposed increase decrease in number (if applicable)	or may result in a li	oss of
Livestock cate (Available in the Schedul	gory and type e 2 of the Part 2 Mation)	S).	ew rate cappilication in	Proposed increase decrease in number	or esult in a li	oss of
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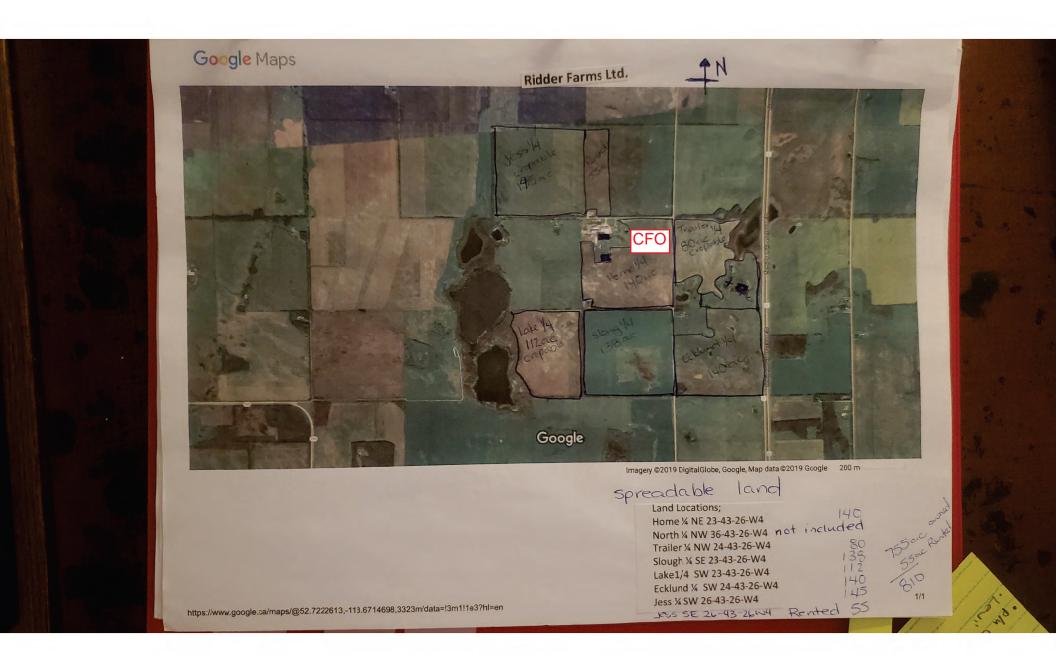
### Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies) DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

PT	Date and sign one of the	
	ION 1: Applying through the NRCB for both the AOPA per I DO want my water licence application coupled to my AOPA per	mit and the Mater Act Harres
	1 DO want my water licence application coupled to my AOPA per	rmit and the Water Act licence
ign	ed this	Thire application.
PT	ION 2: Par	Signature of Applicant or Agent
	ION 2: Processing the AOPA permit and Water Act licence  I (we) acknowledge that the CFO will need a new water licence	senarately
	I (we) acknowledge that the CFO will need a new water licence proposed in this AOPA application.	from AFP under the Water Act for the development or activity
2.	proposed in this AOPA application.  I (we) request that the CFO will need a new water licence	The first and the first first the development of the second
	I (we) request that the NRCB process the AOPA application individed water licence.	ependently of AEP's processing of the CFO's application for a
3.	In making this request I (wa)	
	In making this request, I (we) recognize that, if this AOPA applications are the CEO's elections the CEO's elections.	ication is granted by the NRCB, the NRCB's decision will not be
4.	I (we) acknowledge that any construction are cross eligibili	ty for a water licence under the water Act.
	absence of a Water Act licence will not be released to populate	e the CFO with livestock pursuant to an AOPA permit in the
5.	I (we) acknowledge that any such construction and the AEP's con-	isideration of whether to grant the water Act licence application
		construction or to remove "works" or "undertakings" (as defined
,		
0.	AS RELEVANT: I (we) acknowledge that the CFO is located in	the South Saskatchewan River Basin and that, pursuant to the
	John State South Saskatchewan River Racin Water Aller	ation Order [Alta. Reg. 171/2007], this basin is currently closed
	to new surface water allocations.	
igr	ed this 29 day of March, 2023.	_
	20, 51	Classics of Applicant or Asset
	I (we) declare that the CFO will not need a new licence from AB in this AOPA application.	Signature of Applicant or Agent  EP under the Water Act for the development or activity proposed
<u>P</u> 1	ION 3: Additional water licence not required  I (we) declare that the CFO will not need a new licence from AB in this AOPA application.	
P1	TON 3: Additional water licence not required  I (we) declare that the CFO will not need a new licence from AB	
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PI 1.	ION 3: Additional water licence not required  I (we) declare that the CFO will not need a new licence from AB in this AOPA application.	Signature of Applicant or Agent  edgement of risk (for existing CFOs only)
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PI 1. Sigr 2. 3. 4. 5. 6.	I (we) declare that the CFO will not need a new licence from AB in this AOPA application.  TION 4: Uncertain if Water Act licence is needed; acknowled this day of  At this time, I (we) do not know whether a new water licence is activity proposed in this AOPA application.  If a new Water Act licence is needed, I (we) request that the N processing of the CFO's application for a water licence. In making this request, I (we) recognize that, if this AOPA application to the considered by AEP as improving or enhancing the CFO's eligibil I (we) acknowledge that any construction or actions to populate in the absence of a Water Act licence will not be relevant to AE application, if a new water licence is needed.  I (we) acknowledge that any such construction or livestock incomplication is denied or if the operation of the CFO is otherwise being required to depopulate the CFO and/or to cease further of in the Water Act).  As RELEVANT: I (we) acknowledge that the CFO is located in Bow, Oldman and South Saskatchewan River Basin Water Allocations.	Signature of Applicant or Agent  edgement of risk (for existing CFOs only) s needed from AEP under the Water Act for the development or  RCB process the AOPA application independently of AEP's lication is granted by the NRCB, the NRCB's decision will not be lity for a water licence under the Water Act. The the CFO with additional livestock pursuant to an AOPA permit EP's consideration of whether to grant my Water Act licence Trease will be at the CFO's sole risk if the Water Act licence The deemed to be in violation of the Water Act. This risk includes The South Saskatchewan River Basin and that, pursuant to the

AO Note: The applicant has provided the Approval Officer with copies of their existing water licenses.









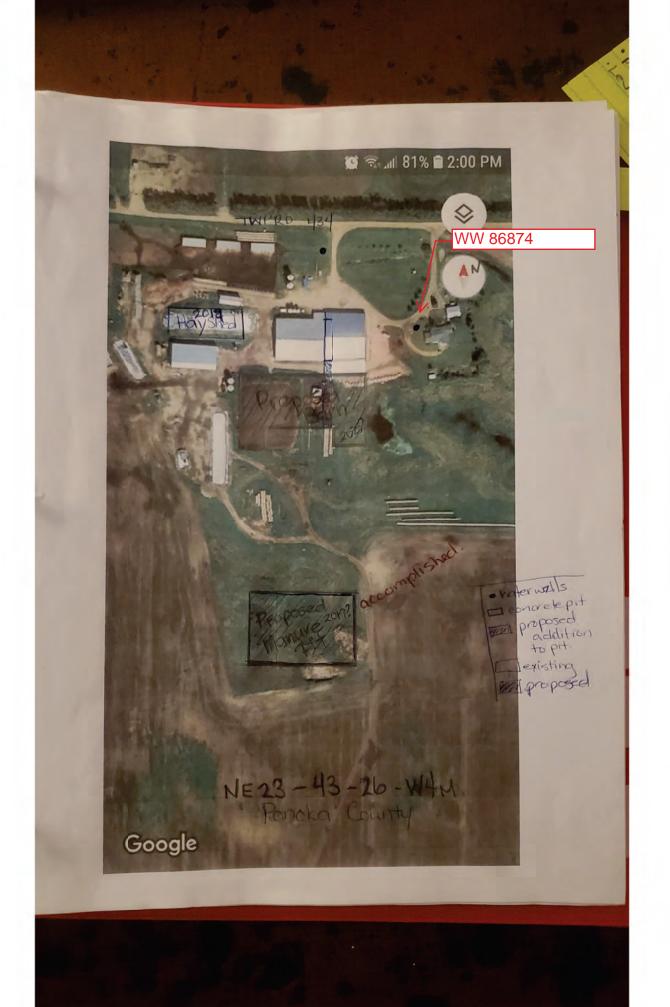
Imagery ©2019 DigitalGlobe, Google, Map data ©2019 Google 200 m

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Land Locations;	1115
Home ¼ NE 23-43-26-W4	149
North 1/4 NW 36-43-26-W4 not	included
Trailer ¼ NW 24-43-26-W4	80
Slough ¼ SE 23-43-26-W4	138
Lake1/4 SW 23-43-26-W4	112
	140

Ecklund 1/4 SW 24-43-26-W4 Jess 1/4 SW 26-43-26-W4

Page 7 of 15 < JOSS SE 26-43-26-W4

https://www.google.ca/maps/@52.7222613,-113.6714698,3323m/data=!3m1!1e3?hl=en



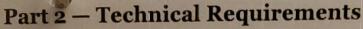


Google Earth aerial image added by the Approval Officer. The purpose of this addition is to help explain the concerns of one party, with respect to property lines, pipelines, and existing pens. These concerns are discussed in Appendix B of RA23012 DS

(complete to Facility de	L ENVIRONMENTAL INFORM his section for the worst case of the exist section / name (as indicated on site	sting facility whi	ich is the closest	to water bodies			oposed facilities)
Existing	: Dairy Barn			Propose	d 1. T	aine Ra	
Propose	Dairy Barn			_ Propose	ed 3:	ainy Ba	~~
Facili	ty and environmental risk		Faci	ilities			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		YES NO YES with exemption	Not in a flood plain
water	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			YES NO YES with exemption	No springs observed
Surface wate information	How many water wells are within 100 m of the manure storage facility or manure collection area?	2	0			YES NO YES with exemption	1 water well within 100 m of proposed barn
ŭ -	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	>100				YES NO YES with exemption	Seasonal slough approx 96 m east of proposed barn
Groundwater	What is the depth to the water table?		>10			YES NO YES with exemption	Confirmed
Groun	What is the depth to the groundwater resource/aquifer you draw water from?		>70			YES NO	UGR Identified 42.67 m in WW 86874

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

exemption





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

				NKCB 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	
Dennis & Leslic Chernick	NW23-43-26-W4	388m	Ag	1	310 m		Yes	
Dennis & Joanne Ecklund	SW 24-43- 26-W4	>800m	Ag	1	803 m		Yes	

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

				NRCB US	EONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
Ridder Farms	NE23-43-26-W4	56	Black		
u	SW26-43-26-W4	58	Black		
4	SW24-43-26-N4	56	Black		
u	SW-23-43-26-W4	45	Black		
1,4	SE-23-43-26-W4	56	Black		
			Total	271 ha	

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

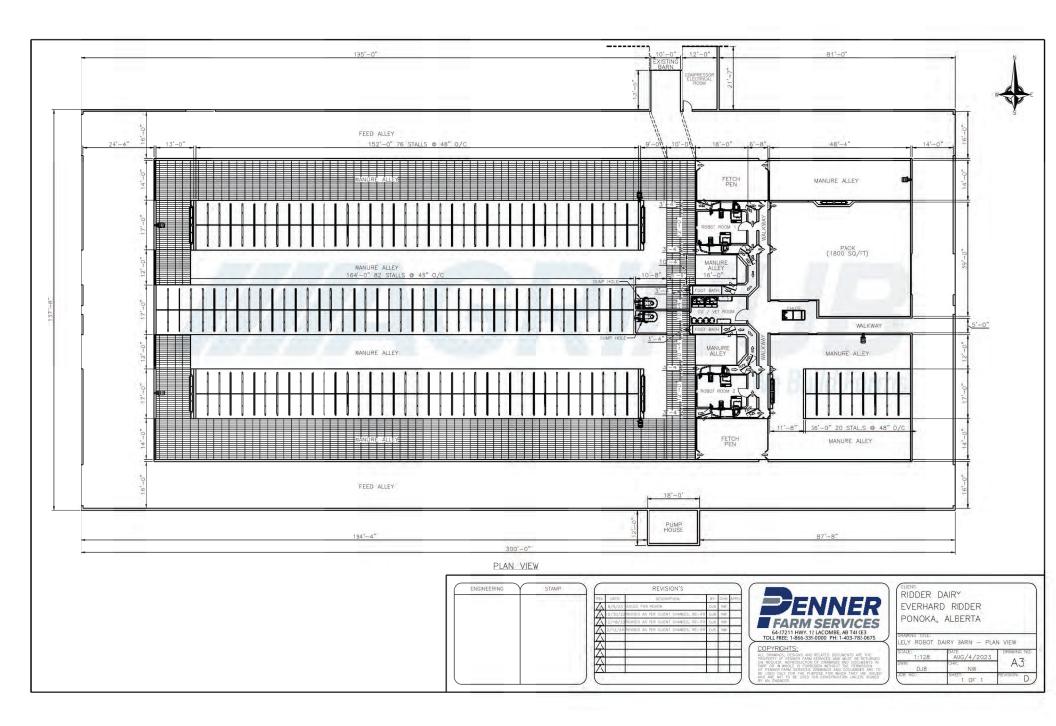
Additional information (attach any additional information as required)

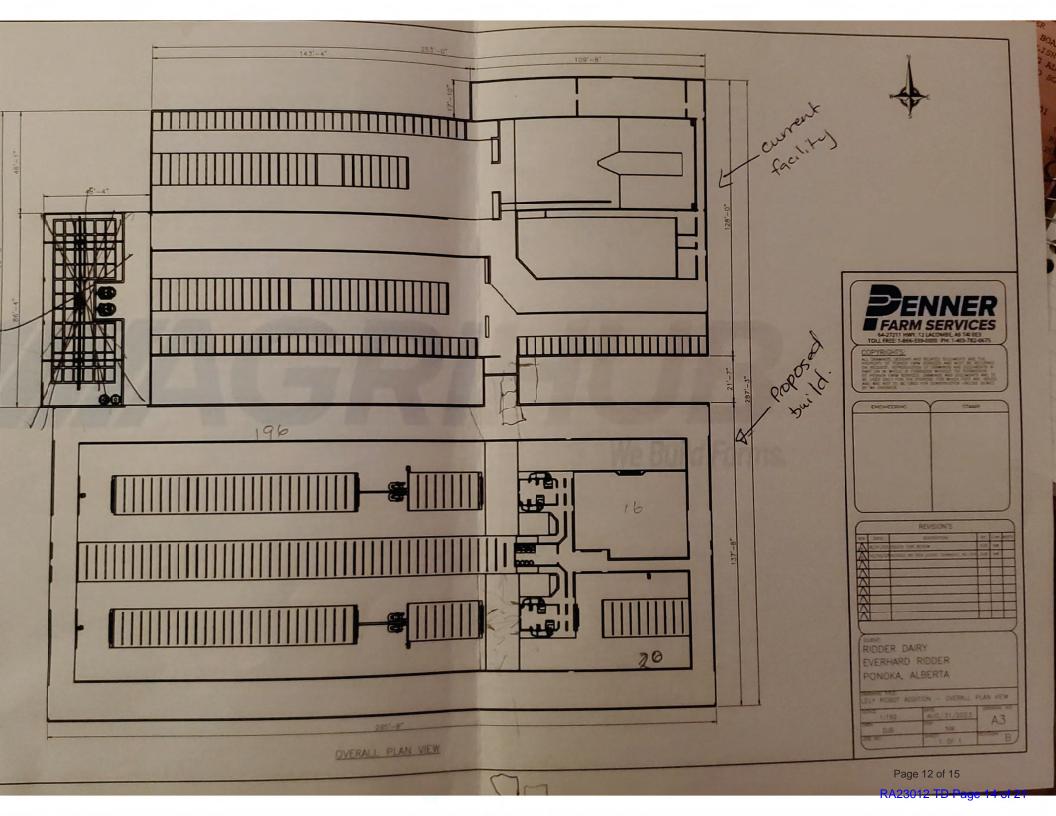
<sup>\*\*</sup> Available manure spreading area (excluding setback areas from residences, common bodies of water, water wells, etc. as identified in Agdex 096-5 Manure Spreading

<sup>\*\*\*</sup> Brown, dark brown, black, grey wooded, or irrigated



NRCB USE ONLY			
MINIMUM DISTANC			
Methods used to determine	e distance (if applicab	le): aerial pho	tography
Margin of error (if applicab			766
Requirements (m): Catego	ry 1:_ <b>28/</b>	Category 2: 383	Category 3: 479 Category 4: 766
Technology factor:			☐ YES 🛣 NO
Expansion factor:			X□ YES □ NO
MDS related concerns from	directly affected part	ties or referral age	ncies: YES NO
LAND BASE FOR MA	NURE AND COM	IPOST APPLI	CATION
Land base required:	222.7 ha		
Land base listed:	271 ha		
Area not suitable:	already account	ted for	
Available area	271 ha		Requirement met: 🙀 YES 🔲 NO
Land spreading agreement	s required:	YES 🛛 NO	
Manure management plan:		YES 粒 NO	If yes, plan is attached:
PLANS			
Submitted and attached co	onstruction plans:	YES 🗆 I	NO
Submitted aerial photos:		YES 🔲	NO
Submitted photos:		☐ YES 📈 I	NO
GRANDFATHERING			
Already completed:		¥ YES □ I	NO 🗆 N/A
If already completed, see _	RA08010		







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

LEGUED MANUEL COLLECTION	AND/OR STORAGE: In-barn - Concrete liner
LIQUID MANURE COLLECTION	proposed in-barn liquid manure storage facility with a concrete liner)

Facility description / name (as indicated on site plan)

1. Proposed new build
2. current existing 2008build
3. parlor change

	Length (m)	Width (m)	Total depth (m) barn pits	Depth below ground level (m)	NRCB USE ONLY  Calculated storage capacity (m³)
1.	110m	110 m	2.25 m	2.43 m	applican has proven that they have more than 9 months manure store
2.	33.7175	45 4,69 M	2.25 m	2-43 m	ending 2009
3.	powlor	change	next par	TOTAL CAPACITY	

oncrete liner details		Method of sulphate protection
Scrape alleys or	> 100 mm	us
unslatted portions of barn floors (if applicable)	Concrete strength  30MPA	Adequate rebar  3x floor spacing
	Concrete thickness	Method of sulphate protection
	>100 mm	145
In-barn manure pit floors	Concrete strength  32MPA	Concrete reinforcement size and spacing  Adequate rebar  3 x floor spacing
	Concrete thickness	Method of sulphate protection
	>100 mm	HS
In-barn manure pit walls	Concrete strength  32 MPA	Horizontal reinforcement size vertical reinforcement size and spacing  Adequate vebar and



LIQ	UID MANURE	section for EACH prop	D/OR STORAGE	E: In-barn - Co	oncrete  ility with a	liner concrete liner)
				andre storage to		
racii	ity description / r	name (as indicated on	-			
			3.	Parlor (	chan	age
Mani	ure storage capac	ity (use one row in the	table for EACH in-t	arn storage. Attac	h additiona	al pages if you require more rows)
	Length (m)	Width (m)	Total depth (m)	Depth below g level (m	ground )	NRCB USE ONLY  Calculated storage capacity (m³)
1.						
2.	23, Lw	iz lawy	>100mm	around 1	evel	
3.	33.200	12.6m	>100mm	- I Day	level	adequate storage
				U TOTAL C	CAPACITY	
Conc	crete liner details	Concrete thickness		Method o	f sulphate	protection
	Scrape alleys or slatted portions of	> 100		Concrete reinforcement size and spacing Adequate Rebar		
	barn floors (if applicable)	Concrete strength	Concrete			
		Concrete thickness		Method o	f sulphate	protection
In-barn manure pit floors		Concrete strength	Concrete	Concrete reinforcement size and spacing		
In-barn manure pit walls		Concrete thickness	Method o	Method of sulphate protection		
		Concrete strength Horizontal re and spacing		tal reinforcement s cing		ertical reinforcement size and bacing



Describe how the joints at the junction of the pit walls, pit floors	and any other joints will be sealed	
Water Stop, caulked	ioint exnam	lina
caulk	ed joint	
escribe sealing practices for piping, etc. that penetrates the line	or J	
	1 L- DIDING D	onte
Expandind caulked , Castinplace	Joints I PP 5	-013
Castinplace	NRCB USE ONLY	-0,3
Castinplaco  Concrete requirements can be found in Technical Guideline Agdex 096-93  Guideline minimums:  Solid manure: 25MPa (D)	NRCB USE ONLY	
Castinplace Concrete requirements can be found in Technical Guideline Agdex 096-93		YES NO

NRCB USE ONLY					
Liquid manure storage volume calculator atta	ached: 🎾 YES 🔲 NO				
Depth to water table: > 10 m		Requirements met:	YES NO		
Depth to uppermost groundwater resource:_	42.67 m	_ Requirements met:			
ERST completed: ☐ see ERST page for deta	iils				
Concrete liner requirements					
Leakage detection system required:	☐ YES ☐ NO	If yes, please explain why			



Dairy barn addition Iow Iow RA23012  2ST for existing facilities  Facility Groundwater score Surface water score File nu  EMS Iow Iow RA19026  Existing barn Iow Iow RA19026  Youngstock pens (3) w/sheds Iow Iow RA19026	RST for <u>proposed</u> facilities			
ST for existing facilities  Facility Groundwater score Surface water score File nu  EMS low low RA19026  Existing barn low low RA19026  Youngstock pens (3) w/sheds low low RA19026	Facility	Groundwater score	Surface water score	File number
Facility Groundwater score Surface water score File numbers of the surface water score	Dairy barn addition	low	low	RA23012
Facility Groundwater score Surface water score File numbers of the surface water score				
EMS Iow Iow RA19026 Existing barn Iow Iow RA19026 Youngstock pens (3) w/sheds Iow Iow RA19026	ST for <u>existing</u> facilities			
Existing barn Iow Iow RA19026  Youngstock pens (3) w/sheds Iow Iow RA19026	Facility	Groundwater score	Surface water score	File number
Youngstock pens (3) w/sheds low RA19026	EMS	low	low	RA19026
Youngstock pens (3) w/sheds low low RA19026	Existing barn	low	low	RA19026
RST related comments:		/sheds low	low	RA19026
RST related comments:				
RST related comments:				
RST related comments:				
	RST related comments:			



NRCB USE ONLY WATER WELL AND SURFAC	E WATER INFORMAT	ON							
Well IDs: 1670028	86874								
	<del></del>	<del></del> ,							
Surface water related concerns from			☐ YES X NO						
	Groundwater related concerns from directly affected parties or referral agencies:								
Water wells N/A									
If applicable, exemption for 100 m d	istance requirements applied:	¥ YES ☐ NO Condition	required: YES NO						
Surface water N/A	tanaa mandinananta analiad. I	Type DNO Condition	n required: YES NO						
If applicable, exemption for 30 m dis	tance requirements applied: 1	YES NO Condition	required: LYES NO						
Water Well Exemption Screening	Tool N/A								
Water Well ID	Preliminary Screening	Secondary Screening	Facility						
	Score	Score							
86874	Continue next section	Exemption more likely	Proposed new dairy barn						
Groundwater or surface water re	lated comments:								



NRCB USE ONLY							
ALL SIGNATURES I	N FILE	KYES [	]no				
DATES OF APPROVAL OFFICER SITE VISITS							
February 7, 2024							
April 16, 2024							
CORRESPONDENCE  Date deeming letters sent	E WITH MUNICIPAL  . February 28, 2024	ITIES AN	ID REFERRAL	AGENCIES			
	County			-			
■ letter sent	response received		_	verbal [	no comments received		
Alberta Health Service	s: 🛭 N/A						
☐ letter sent	☐ response received	☐ writter	n/email $\Box$	verbal	no comments received		
Alberta Environment ar	nd Parks:						
letter sent	response received	☐ writter	n/email $\Box$	verbal 🗵	no comments received		
Alberta Transportation	: X N/A						
☐ letter sent	response received	☐ writter	n/email $\Box$	verbal [	no comments received		
Alberta Regulatory Serv	vices:						
>☐ letter sent	response received	writter	n/email $\Box$	verbal [	no comments received		
Other: Black Crane Energy Corp, Keyera Energy Ltd, Apex Utilities N/A							
√☐ letter sent	response received	☐ writter	n/email $\Box$	verbal	no comments received		
Other: M. Ridder (as 0	Caveat holder)			🗆 N/A			
☑ letter sent	response received	☐ writter	n/email $\Box$	verbal	no comments received		



NRCB USE ONLY			
LIQUID MANURE STORAGE VOLUME CALCULATO	OR (if applic	able)	
Facility 1			
Name / description EMS	Capacity 10,852	cubic metres	
Facility 2			
Name / description Barn pits (existing barn)	Capacity Type	text here	
Facility 3	<u>'</u>		
Name / description Barn pits (new barn)	Capacity		
Facility 4	-		
Name / description	Capacity		
ТОТА	AL CAPACITY	more than 10,852 cubic metres	
REQUIRED 9 MONTH STORAG	GE CAPACITY	7740 cubic metres	
MEETS THE REQUIREMENTS FOR A MINIMUM OF 9 MONT	HS STORAGE	☑YES ☐ NO	