Technical Document LA24047

Part 2 — Technical Requirements



Part 2 — Technical Requirements NRCB Natural Resources Conservation Board
Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

NRCB USE ONLY	Application number	Legal la	and description
■ Approval □ Registration □ Authorization	LA24047	N1/2 20 & S	5½ 29-17-26 W4M
☐ Amendment			
APPLICATION DISCLOSURE	<u> </u>		
This information is collected under the authority of the Agroprovisions of the Freedom of Information and Protection of written request that certain sections remain private.			
Any construction prior to obtaining an NRCB permit prosecution.	is an offence and is subject to	enforcement	action, including
I, the applicant, or applicant's agent, have read and under provided in this application is true to the best of my knowl		I acknowledge	that the information
Nov 19 2024 Date of signing	Signature		
Brant Farming Co LH Corporate name (if applicable)	Leonax Print name	d I	Gross
GENERAL INFORMATION REQUIREMENTS			
Proposed facilities: list all proposed confined feeding of	pperation facilities and their dimen	sions. Indicate	whether any of the
proposed facilities are additions to existing facilities. (att	ach additional pages if needed)		imensions (m)
Proposed facilities			n, width, and depth)
Chicken Broiler barn		380'	x /20'
		(116 m	n x 37 m)
Existing facilities: list ALL existing confined feeding op	peration facilities and their dimens	ions	
Existing facilities	Dimension (length, width,		NRCB USE ONLY
Chicken Lauer Pullet bar	n 120.4m x 2	4.1m	All existing
			facilities
with attached manue collec			confirmed.
Dry Sow barn	18.3m x 53	.37m	
NRCB USE ONLY			
AO Comment: CFO is currently permitted under	er Approval LA21061.		
The state of the s			



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

Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
Farrow and nursery born	18.3m x 70.15m	
Ginnoer and finisher born	22.8m x 70.15m	
Dairy barn	127m 1 24m x 4,25m	
with manue pit	4.9m x4.9m x2.4m	
Calf and Close up	18.3m x 70.15m	
Mardonald barn	14m x51.8m	
EMS (Lagoon)	112,2m 50m x3,66m	decp
Slumy Store	30.8 m x 5.8 m High	
Slurry Store Dainy dry Corrals	60m x 65m	
3 3		
AO Comment: The calf and close up barn (be barn) has yet to be completed. The condition	ns for the conversion from	
Approval LA21061 are being carried forward	into this approval.	
-		
	I	



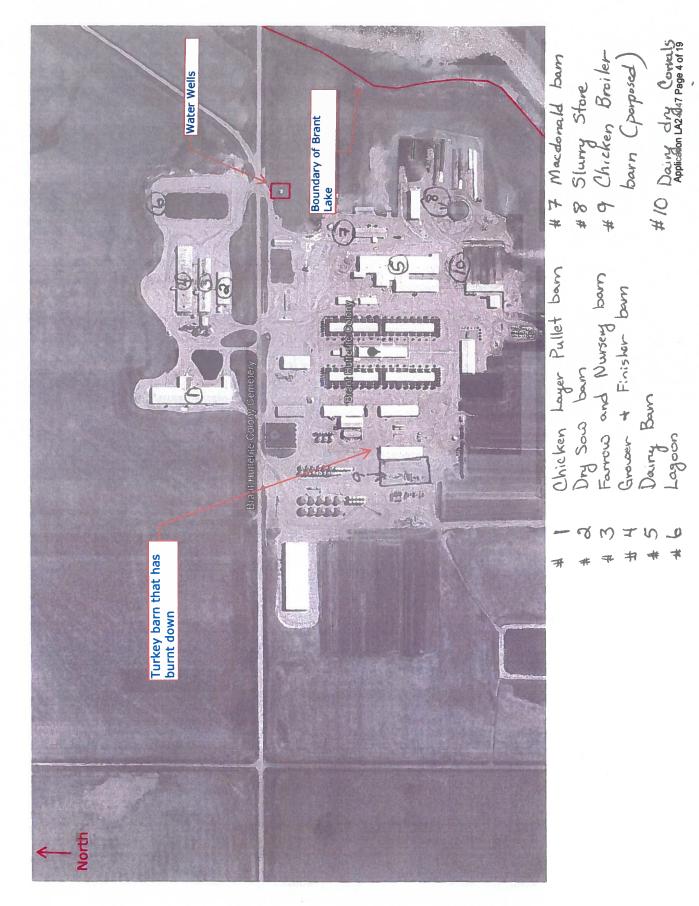
Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)

If a new facility is replacing an old facility, please exp	lain what v	vill happer	to the c	old facility and	l when.	□ N/A
The old one burned build a new barn	down	50	we	want	to	
AO Comment: The existing turkey barn burnt dow Instead, applicant has indicated they are proposin the turkey barn.						
Construction completion date for proposed facilities _ Additional information	Nou	30	20ಕ	18		
Livestock numbers: Complete only if livestock numbers at livestock numbers increase in your Part 2 application, a new principle for minimum distance corporation (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	145	0	145
Chicken Layers	13000	0	13000
Chicken Pullets	13000	0	/3000
Swine Famous to Finish	400	0	400
Swine Feeders	3724		3724
Turkeys	5200	-5100	/00
Ducks	760	0	700
Geese	200	0	200
Chicken Broilers	0	+40000	40000

Last updated September 11, 2023

AO Comment: Livestock numbers have not changed from Part 1 application.





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

DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE issued by Alberta Environment and Protected Areas (EPA) for a confined feeding operation (CFO)

Date and sign one of the following four options

<u>OP</u>	TION 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.
Sig	ned thisday of, 20
	Signature of Applicant or Agent
<u>OP</u>	TION 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 <i>Water Act</i> .
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 <i>Water Act</i> licence will not be relevant to EPA's consideration of whether to grant the <i>Water Act</i> licence application.
5.	I (we) acknowledge that any such construction or livestock populating will be at the CFO's sole risk if the <i>Water Act</i> licence application is denied or if the operation of the CFO is otherwise deemed to be in violation of the <i>Water Act</i> . This risk includes being required to depopulate the CFO and/or to cease
6.	further construction, or to remove "works" or "undertakings" (as defined in the <i>Water Act</i>). AS RELEVANT: I (we) acknowledge that the CFO is located in the South Saskatchewan River Basin and that, pursuant to the <i>Bow, Oldman and South Saskatchewan River Basin Water Allocation Order</i> [Alta. Reg. 171/2007], this basin is currently closed to new surface water allocations.
	Provide: Water licence application number(s)
Sig	ned this day of, 20 Signature of Applicant or Agent
<u>OP</u>	TION 3: Additional water licence not required
	I (we) declare that the CFO will not need a new licence from EPA under the <i>Water Act</i> for the development or activity proposed in this AOPA application.
2.	Provide: Water license number(s) or water conveyance agreement details
Sia	ned this 19 day of Nov , 20,24.
ر	✓ Signature of Applicant or Agent



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

II IDs:	1610561	131856		
IDS:				
face water rel	ated concerns from	m directly affected parties or ref	erral agencies:	☐ YES ☐ NO
undwater rela		n directly affected parties or refe	erral agencies:	☐ YES ☑ NO
ter wells	N/A			
		distance requirements applied:	YES NO Condition requi	red: YES NO
rface water	₩/A			
pplicable, exe	mption for 30 m c	distance requirements applied: [YES NO Condition requi	red: YES NO
ter Well Exe	mption Screenin	g Tool N/A		
Wate	er Well ID	Preliminary Screening	Secondary Screening	Facility
		Score	Score	
undwater o	r surface water	related comments:		
undwater o	r surface water :	related comments:		

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



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(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). Ç

Existing:	700000			Propose	d 1: Droi	Proposed 1: Droiler Dam	
Proposed 2:	12:			Proposed 3:	d 3:		
Facilit	Facility and environmental risk		Faci	Facilities			NRCB USE ONLY
	Information	Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
nisiq booff notsemation	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?	Z ∨1 m ≤ 1 m	Ø ∨1 m	\	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	✓ YES □ NO □ YES with exemption	Not in a known flood plain
19: u	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			VES NO TES WITH Exemption	None observed on site
rface wat	How many water wells are within 100 m of the manure storage facility or manure collection area?	_	0			VES NO YES with exemption	Existing lagoon is 82 m from water wells; Proposed broiler barn to be >450 m from water wells.
u2 ni	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	350m	300m			VES INO TES WITH EXEMPTION	Existing lagoon is 270 m from bank of Brant Lake; Proposed broiler barn to be >580 m from bank of Brant Lake.
lwater noite	What is the depth to the water table?		30m			YES NO YES with exemption	>5 m below grade
onuola miolni	What is the depth to the groundwater resource/aquifer you draw water from?	41.15m	41.15m			VES NO VES With exemption	UGR is 41.15 m below grade in WWID 1610561

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

AO Comment: Applicant indicated they have only two active water wells on site, ID#'s 1610561 and 131856.

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Drilling Information

Method of Drilling Rotary - Air

42.67

Alberta Water Well Drilling Report

Type of Work New Well

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No.

1610561

Drilling Company Well ID

0.602 cm

3.05 m

42.67 m

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 Ident	ification and L	ocation						Alternative			Measurement in Metri
Owner Name Address BRANT COLONY P.O. BOX 107				107	Town BRANT			Province ALBERTA	Country CANADA	Postal Code TOL OLO	
Location	1/4 or LSD 15	SEC 20	TWP 17	RGE 26	W of MER	Lot	Block	Plan	Additional D		
Measured I	from Boundary o	f m from			_	0.455183	•	es (NAD 83, tude <u>-113.</u> 5	39833 Ele	vation	
m from				How Location Obtained Hand held autonomous GPS 20-30m				w Elevation Obtair t Obtained	ned		

Proposed Well L Municipal	/se	
Formation Log	Kill Otto	Measurement in Metric
Depth from ground level (m)	Water Bearing	Lithology Description
13.41		Brown Sandy Clay & Rocks
16.76		Sand & Gravel
18.59		Gray Clay & Rocks
26.82		Gray Shale
27.13		Gray Sandstone
36.27		Gray Shale
41.15	Yes	Gray Sandstone

Gray Shale

Yield Test Sur	nmary		Measurement in Me
Recommended .	Pump Rate68.	.19 L/min	
Test Date	Water Removal Rate	(L/min)	Static Water Level (m)
2009/05/27	72.74		13.95
2009/05/26	95.47		13.95
42.67 m Borehole	ed Finished Well Dept 42.67 m	th Start Date 2009/05/25	
			T. (-)
Diameter (heard and	m (m)).00	To (m) 42.67
	0		42.67

Wall Thickness

Top at

Bottom at

0.559 cm

Bottom at 19.81 m

Wall Thickness

Perforations

From (m) To (m) 36.58 41.15		Slot Length (cm)	Hole or Slot Interval(cm) 17.78					
Perforated by Sa	w							
Annular Seal Bentonite Chips/Tablets								
Placed from	12.19 m to	36.58 m						
Amount	300.00 Pound	<u>s_</u>						
Other Seals		_						
Type Drive S Shale T	hoe		At (m) 19.81 36.58					
Screen Type								
Size OD	cm_							
From (m)	То	(m)	Slot Size (cm)					
Attachment								
Top Fittings		Bottom Fitting	gs					
Pack								
Туре		Grain Size						

Contractor Certification		
Name of Journeyman responsible for drilling/construction of well	Certification No	
DOUG NIEMANS	70092A	
Company Name	Copy of Well report provided to owner	Date approval holder signed
PETER NIEMANS WATER WELL DRILLING	Yes	2009/06/03



Water Well Drilling Report

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. Drilling Company Well ID Date Report Received 1610561

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 2010/01/11 Well Identification and Location Measurement in Metric Owner Name Address Country Postal Code **BRANT COLONY** P.O. BOX 107 **BRANT** ALBERTA CANADA TOL OLO SEC TWP RGE W of MER Lot Block Plan Additional Description Location 1/4 or LSD 15 20 17 26 **EAST WELL** GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude 50.455183 Longitude -113.539833 Elevation m m from How Location Obtained How Elevation Obtained m from

	Hand held autor	nomous GPS 20-30	m Not	Obtained
Additional Information				Measurement in Metric
Distance From Top of Casing to Ground Level Is Artesian Flow	67.01 cm	Is Flow Con	trol Installed	
Rate Umin			Describe	
Recommended Pump Rate	68.19 L/min	Pump Installed	Depti	h <u>m</u>
Recommended Pump Intake Depth (From TOC)	36.58 m	Туре	Make	H.P.
			Мо	del (Output Rating)
Did you Encounter Saline Water (>4000 ppm TDS)	Depth	m	Well Disinfected Upon Comp	letion Yes
Gas	Depth	m	Geophysical Log Taker	n
Remedial Action Taken			Submitted to ESRL	
		Sample C	ollected for Potability Yes	Submitted to ESRD Yes
Additional Comments on Well				
LITH: FROM 0' - 44 FEET' ALSO SAND STRINGERS				

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

DOUG NIEMANS

Company Name

PETER NIEMANS WATER WELL DRILLING

Certification No

70092A

Copy of Well report provided to owner

Date approval holder signed

2009/06/03



Water Well Drilling Report

View in Imperial Export to Excel

GIC Well ID GoA Well Tag No.

1610561

GOWN ID

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Drilling Company Well ID
Date Report Received 2010/01/11

Well Identification and Location Measurement in Metric Address Town Country Postal Code BRANT COLONY P.O. BOX 107 **BRANT ALBERTA** CANADA TOL OLO Additional Description
EAST WELL TWP W of MER Location 1/4 or LSD SEC RGE Lot Block Plan 15 20 17 26 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude 50.455183 Longitude -113.539833 Elevation m m from How Location Obtained How Elevation Obtained m from Hand held autonomous GPS 20-30m Not Obtained

rield Test			Taken	From Top of Casing Depth to water level	Measurement in Metri
Test Date 2009/05/27	Start Time 11:00 AM	Static Water Level 13.95 m	Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
			13.95	0:00	23.31
Method of Water R	Removal		19.30	1:00	14.61
7	Type Pump		23.29	2:00	13.55
			25.50	3:00	13.42
Removal F	Rate 72.74 L/mir	1	26.20	4:00	13.34
Depth Withdrawn F	rom 39.62 m		26.73	5:00	13.26
			27.02	6:00	13.19
If water removal per	nod was < 2 hours, explain v	vhv	26.80	7:00	13.14
		,	26.21	8:00	13.10
			25.70	9:00	13.06
			25.27	10:00	13.02
			25.07	12:00	12.96
			24.48	14:00	12.90
			24.20	16:00	12.85
			24.14	18:00	12.78
			24.12	20:00	12.73
			24.11	25:00	12.63
			24.10	30:00	12.55
			24.09	35:00	12.48
			24.08	40:00	13.25
			24.07	50:00	13.72
			24.06	60:00	13.95
			23.64	75:00	14.16
			23.50	90:00	14.12
			23.41	105:00	14.09
			23.31	120:00	14.07
Yield Test Test Date	Start Time	Static Water Level	Taken	From Top of Casing Depth to water level	Measurement in Metr
2009/05/26	11.00 AM	13.95 m	Pumping (m)	Elapsed Time Minutes:Sec	Recovery (m)
Method of Water R	Removal				
7	Type Air				
Removal I	Rate 95.47 L/mii	1			
Depth vvitnarawn F	rom 42.67 m				
If water removal per	riod was < 2 hours, explain v	vhy			
	RIG AIR FOR 2 HRS.				

Water Diverted for Drilling

Amount Taken Water Source NW-21-18-28-W4 4546.09 L Diversion Date & Time 2009/05/25 10:00 AM

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

DOUG NIEMANS

Company Name PETER NIEMANS WATER WELL DRILLING Certification No

70092A

Copy of Well report provided to owner

Date approval holder signed

2009/06/03



Alberta Water Well Drilling Report

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View in Imperial Export to Excel

GIC Well ID GoA Well Tag No. Drilling Company Well ID

131856

						-		U	ate Report Receive	
Well Identificati	on and Lo	cation								Measurement in Met
Owner Name HUTTERIAN BRI BRANT	ETHREN O	F	Address P.O. BOX	107 BRANT		wn	P	rovince	Country	Postal Code
Location 1/4 15	or LSD	SEC 20	TWP 17	RGE 26	W of MER Lot	Block	Plan	Additional	Description	
Measured from B	-				GPS Coordinates in	-			lovation	000.60
_		n from			Latitude 50.45360 How Location Obtain		de <u>-113.53825</u>		levation fow Elevation Obta	990.60 m
-	n	n from			Map	50			stimated	mieu
Drilling Informati	tion							-101-12-11		
Method of Drillin Rotary					Type of Work New Well					
Proposed Well L Stock	<i>J</i> se									
Formation Log				Меа	surement in Metric	Yield Test	Summary		AMERICAN (OFF	Measurement in Met
Depth from ground level (m)	Water Bearing	Litholo	ogy Descriptio	n		Recommend Test Date	ded Pump Rate Water F		0.00 L/min te (L/min)	Static Water Level (m)
12.19		Clay 8	& Silt			1979/09/0	01	45.46		6.71
18.29		Fine G	Grained Sand	& Gravel		Well Comp	eltion			Measurement in Met
33.53		Shale	è				Drilled Finish	hed Well D	epth Start Date	End Date
48.77		Hard 9	Shale & Sand	stone		48.77 m				1973/09/01
						Borehole				
							ter (cm)	F	rom (m) 0.00	To (m) 48.77
							sing (if applic	able)	Well Casing/l	
						Steel			Steel	
							001		Size (
						Wall Thick		0.000 cm	Wall Thickne	
						Вопо	om at2	21.34 m	Top Bottom	
						Perforation	s		Bottom	40.77 111
								Diameter of		
					-	From (m) 36.58	To (m) 48.77	Slot Widt (cm) 0.000	h Slot Length (cm)	Hole or Slot Interval(cm) 0.00
					Ì	Perforated b	y Unkno	wn		
					ĺ	Annular Se	a/ Driven			
								00 m to	0.00 m	
					, =	Amou	unt			
						Other Seals				
					-		Туре			At (m)
					:	Screen Typ				
						1	e OD		T- ()	Clab Class (see)
						Froi	m (m)		To (m)	Slot Size (cm)
						Attach	ment			
						Top Fi	ttings		Bottom Fittii	ngs
						Pack				
						Туре			Grain Size	
						Amount				
									-	
]					

TRANS PROVINCIAL DRILLING LTD.

UNKNOWN NA DRILLER Company Name

Name of Journeyman responsible for drilling/construction of well

Copy of Well report provided to owner Date approval holder signed

Certification No



GOWN ID

Alberta Water Well Drilling Report

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

View in Imperial Export to Excel 131856

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

1973/10/19

Owner Name HUTTERIAN BRANT												ement in Metri
	BRETHREN	OF	Address P.O. BOX 1	07 BRANT		Town			Province	Countr	γ	Postal Code
Location	1/4 or LSD 15	SEC 20	TWP 17	RGE 26	W of MER	Lot	Block	Plan	Additional	Description		
Measured fro		m from			GPS Coordin Latitude 5 How Location Map	0.453605	•	es (NAD 83) tude <u>-113.5</u> 3	38254 E	Elevation How Elevation (
Additional Ir	nformation										Measur	ement in Metri
Is Artesian	om Top of Cas Flow Rate		L/min		cm	1	's Flow Cont					
Recommend	led Pump Rat led Pump Inta				0.00 L/min		installed			epth	m H.P.	_
									-	Model (Output	Rating)	
Remedial	Action Taken Comments of			Gas			<u>m</u>	Geop	ohysical Log T Submitted to E	ompletion aken SRD Su		RD <u>Yes</u>
Yield Test Test Date	mijsain 4 steroe	Start Tin		Static	Nater Level	resident	1	Tak	en From Gro Depth to	ound Level	Measur	ement in Metri
1979/09/01		12:00 A		Static	6.71 m		Pum	ping (m)		osed Time nutes:Sec	Recov	very (m)
Re	Vater Remov Type moval Rate drawn From					_						
If water remo	oval period wa	s < 2 hou	ırs, explain wh	у								

Contractor	Certification
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Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER

Company Name TRANS PROVINCIAL DRILLING LTD. Certification No

Copy of Well report provided to owner Date approval holder signed



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
Chicken Broiler Barn	Low	Low	LA24047

ERST for existing facilities

Facility	Groundwater score	Surface water score	File number
Dairy Barn	Low	Low	LA21061
Layer/Pullet Barn	Low	Low	LA14027
Hog Barn	Low	Low	LA14027
EMS	Low	Low	LA14027
Calf and Close-up Barn	Low	Low	LA14027
Duck/Goose Barn	Low	Low	LA14027
Dry Cow Shelter	Low	Low	LA14027
Slurry Tank	Low	Low	LA14027

ERST related comments:



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

DISTANCE OF ANY MANURE STORAGE FACILITY (EXISTING OR PROPOSED) TO NEIGHBOURING RESIDENCES

					NRCB USE ONLY	LY	1000
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Walver attached (if required)	Meets
D. Mc Donald	NW 30-17-26-4	2415	RG	1	2,455	N/A	Yes
Thuis	NE-16-17-264	2818	RG	1	3,073	N/A	Yes
River Cross Rench	542-19-17-26-4	3415	RG	1	2,095	N/A	Yes
Stew of Lind Fink	NW-22-17-26-4	38/8	RG	1	2,771	N/A	Yes
Rod Diron	4-98-17-80-MV	3318	RG	3	3,008	N/A	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** Soil zone **** Usable area attached (he) Agreement attached (he) Agreement (he) Agre						NKCB USE ONLY	E ONLY
Sec. 39-17-26-4 580 Dark Brown NE-30-17-36-4 160 Dark Brown E1/2-33-17-26-4 320 Dark Brown E1/2-33-17-26-4 320 Dark Brown W/2-34-17-26-4 320 Dark Brown	Name of land o	wner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
NE-30-17-26-4 160 Dark Brow E1/2-33-17-26-4 320 Dark Brow E1/2-33-17-26-4 320 Dark Brow W1/2-34-17-26-4 320 Dark Brow	H.B of	Brant	Sec 29-17-26-4	580	Dark Brown	Unusable areas	N/A
E1/2-33-17-26-4 320 Dark Brown E1/2-33-17-26-4 320 Dark Brown W1/2-34-17-36-4 330 Dark Brown	H.B of	Brank	NE-30-17-26-4	160	Dark Brown	aiready accounted for	
E1/2-33-17-26-4 320 Dark Brown W/2-34-17-26-4 320 Dark Brown	H.B of	Bizat	E12-32-17-26-4	320	Dark Brawn		
W/2-34-17-26-4 320 Dark Brow	H.13 cf	Brant	E1/2-33-17-26-4	320	Dark Brown		
	H.B. of	Brent	W%-34-17-26-4	320	Dark Brown		
					Total	2,654 acres includin	g lands on next

* 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

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

Additional information (attach any additional information as required)

AO Comment: Land zoned "Rural General" (RG) is the same as agriculture zoned land.

AO Comment: Land base listed by applicant is in acres.

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Land Base For Manure Application Cont.

W\$-27-17-26-W4 = 320 acres.

NE-22-17-26-W4 = 160 acres

NW-4-18-26-W4 = 160 acres

N 1/2 21-17-26 W4 = 314 acres





NORTH

To Neighbouring Residences

D. Mc Donald = 2.415 m.

T. Irwin = 2.818 m.

River Cross Ranch = 2,415 m.

Steve + Linda Fink = 2,818 m.

Helen J. Dixon = 3,218 m.

Rod

Application LA21061 Page 12 of 43 LA21001 TD Page 12 of 43 Name Address Legal Land Location

Category	eadsheet based on 2006 AOPA Type of Livestock		Technology	MU	LSU		LSU
of	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Factor		Factor	Manager 1	
Livestock			1 00.0.		40101		
-							
eedlot	Beef Cows/Finishers (900+ lbs)	0.700	0.700	0.910	0.4459		-
nimals	Beef Feeders (450 - 900 lbs)	0.700	0.700	0.500	0.2450		
	Beef Feeder Calves (<550 lbs)	0.700		0.275	0.1348		-
	Horses - PMU	0.650		1.000	0.4550		
	Horses - Feeders > 750 lbs	0.650	0.700	1.000	0.4550	Section 1998	
	Horses - Foals < 750 lbs	0.650	0.700	0.300	0.1365		-
	Mules	0.600	0.700	1.000	0.4200	The second second	
	Donkeys	0.600	0.700	0.670	0.2814	CONTRACTOR	-
	Bison	0.600	0.700	1.000	0.4200		
						The second second	-
Dairy	Free Stall - Lactating Cows with all associated dries, heifers, and	0.800	1.100	2.000	1.7600		255.
count actating	calves* Free Stall - Lactating Cows with Dry	0.800	1,100	1.640	1.4432		
cows only)	Cows only						
	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	0.800	0.700	0.525	0.2940		-
	(350 lbs to breeding) Calves (< 350 lbs)	0.800	0.700	0.200	0.1120		
			100.00		ACTURE.		
Swine	Farrow to finish *	2.000	1.100	1.780	3.9160		1,566.
_iquid	Farrow to wean *	2.000	1.100	0.670	1.4740		
*count	Farrow only *	2.000	1,100	0.530	1.1660		-
sows only)	Feeders/Boars	2.000	1,100	0,200	0.4400	THE RESERVE	1,638.
	Growers/Roasters	2.000		0.118	0.2600		-
	Weaners	2.000		0.055	0.1210	STATE OF THE PERSON NAMED IN	
				Name of Street			
Swine	Farrow to finish *	2.000	0.800	1.780	2,8480		
Solid	Farrow to wean *	2.000	0.800	0.670	1.0720	E/21/2003	
*Count	Farrow only *	2.000		0,530	0.8480		
sows only)	Feeders/Boars	2.000		0.200	0.3200		
ows only)	Growers/Roasters	2.000	0.800	0.118	0.1888		
	Weaners	2.000		0.055	0.0880		
	Vealers	2,000	0,800	0.055	0.0000		-
Davids.	Chicken Penadasa Salid	4.000	0.700	0.040	0.0070		
Poultry	Chicken - Breeders - Solid	1.000		0.010			-
	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	13,090.1	145.
	Chicken - Layers - (Deep Pit)	2.000		0.008	0.0112	THE RESERVE TO SERVE	
	Chicken - Pullets/Broilers	1.000		0.002	0.0014	53,000	74.
	Turkey - Toms/Breeders	1.000		0.020	0.0140		-
	Turkey - Hens (light)	1.000		0.013	0.0091	THE RESERVE	
	Turkey - Broilers	1.000		0.010	0.0070	100	0.
	Ducks	1.000		0.010	0.0070	200	4.
	Geese	1.000			0.0140	100	2.
		1.000	0.700	0.020	0.0190		-
Sheep and	Sheep - Ewes/Rams	0.600	0.700	0.200	0.0840		-
Goats							-
Soats	Sheep - Ewes with lambs	0.600		0.250	0.1050		
	Sheep - Lambs	0.600		0.050	0.0210		-
	Sheep - Feeders	0.600		0.100	0.0420	-	
	Goats - Meat/Milk (per Ewe)	0.700		0.170	0.0833		-
	Goats - Nannies/Billies	0.700		0.140	0.0686		-
			0.700	0.077	0.0377		-
	Goats - Feeders	0.700	0.700				
Ceruid	Goats - Feeders			0.800	0.2520		
Cervid	Goats - Feeders Elk	0.600	0,700	0.600	0.2520		-
Cervid	Goats - Feeders		0,700				-
	Goats - Feeders Elk Deer	0.600 0.600	0.700 0.700	0.200	0.0840		-
Cervid Wild Boar	Goats - Feeders Elk	0.600	0,700 0,700 0,800	0.200	0.0840		-

3,688 4

For New Operations
Dispersion Factor

		Distance	
Category	Odour Objective	Feet	Metres
1	41.04	2,698	822
2	54.72	3,598	1,097
3	68.4	4,497	1,371
4	109.44	7,195	2,193

For Expanding Operations
Dispersion Factor
Expansion Factor

0.77

		Distance			
Category	Odour Objective	Feet	Metres		
1	41.04	2,078	633		
2	54.72	2,770	844		
3	68.40	3,463	1,055		
4	109 44	5,540	1.689		

Name Brant Farming Co Ltd Address Legal Land Location

Category of	Property (hectares) base Type of Livestock		Dark Brown	Grey	Black	Irrigated
Livestock	Type of Livestock	Animals	& Brown	Wooded	(ha)	(ha)
LIVESIDGE		Anmas	(ha)	(ha)	(stat)	(1141)
Feedlot	Cows/Finishers (900+ lbs)	0.0	0.0	0.0	0.0	0.0
Animats	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
	Donkeys Bison	0.0	0.0	0.0	0.0	0.0
	Bisori	0.0	0.0	0.0	0.0	0.0
Dairy	Free Stall - Lactating Cows with all	145.0	215.3	179.4	134.6	107.6
Oaki y	associated dries, heifers, and	145.0	2 15.3	1/9.4	134.0	107.0
(*count	calves*				- 1	
lactating	Free Stall - Lactating Cows with Dry	0.0	0.0	0.0	0.0	0.0
cows only)	Cows only *	0.0	0.0	0.0	0.0	0.0
COWS OF HY)	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	0.0	0.0	0.0	0.0	0.0
	only	V.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	0.0	0.0	0.0	0.0	0.0
	(Breeding to Calving)	""	0.0	0.0	0.0	0.0
	Replacements - Growing Heifers	0.0	0.0	0.0	0.0	0.0
	(350 lbs to breeding)	0.0	0.0	0.0	0.0	0.0
	Caives (< 350 lbs)	0.0	0.0	0.0	0.0	0.0
		0.0	9.0	0.01	0.0	0.0
Swine	Farrow to finish *	400.0	267.4	222.8	167.1	133.7
Liquid	Farrow to wearn *	0.0	0.0	0.0	0.0	0.0
(*count	Farrow only *	0.0	0.0	0.0	0.0	0.0
sows only)	Feeders/Boars	3724.0	268.1	223.4	167.6	134.1
soms orny,	Growers/Roasters	0.0	0.0	0.0	0.0	0.0
	Weaners	0.0	0.0	0.0	0.0	0.0
	CHILDREN IN THE RESIDENCE OF THE	0.0	0.0		9.9	0.0
Swine	Farrow to finish *	0.0	0.0	0.0	0.0	0.0
Solid	Farrow to wean *	0.0	0.0	0.0	0.0	0.0
(°Count	Farrow only *	0.0	0.0	0.0	0.0	0.0
sows only)	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
	THE RESERVE OF THE PARTY OF THE	0.0				
Poultry	Chicken - Breeders - Solid	0.0	0.0	0.0	0.0	0.0
	Chicken - Layers - Liquid (includes	0.0	0.0	0.0	0.0	0.0
	associated pullets)					
	Chicken - Layers - (Belt Cage)	13000.0	71.5	59.8	44.2	36.4
	Chicken - Layers - (Deep Pit)	0.0	0.0	0.0	0.0	0.0
	Chicken - Pullets/Broilers	53000.0	172.3	143.6	107.6	86.4
	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	700.0	1.1	0.9	0.7	0.6
	Geese	200.0	0.6	0.5	0.4	0.3
	WINDS PROPERTY AND THE PROPERTY AND THE PERSON NAMED IN	0.0				
Goats and	Sheep - Ewes/Rams	0.0	0.0	0.0	0.0	0.0
Sheep	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
	PERSONAL PROPERTY.	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
	personal interest with the second	0.0				
Wild Boar	Feeders	0.0	0.0	0.0	0.0	0.0
	Sow (farrowing)	0.0	0.0	0.0	0.0	0.0
	THE RESERVE OF THE PERSON NAMED IN COLUMN	0.0	1	7	-	
	The state of the s					
	The state of the s	0.0				

Total Hectares	997	830 9	622.5	499.3
Total Acres	2,463	2053 2	1538.1	1233.7

Part 2 — Technical Requirements 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)





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

	ID MANURE, COMP	OST, & COMPOSTING	MATERIAL	S: Barns, feed	lots, & storage facilities -
(com		for EACH barn, feedlot, and	storage facility	for solid manure, c	composting materials, or compost with
			Chi.	L	1. 1
Facil	ity description / name (as indicated on site plan)			ler ban
			2		
Manı	ire storage capacity				
	Length (m)	Width (m)		elow grade to the of the liner (m)	NRCB USE ONLY Estimated storage capacity (m³)
1.	116m	37 m			, 100
2.					
				TOTAL CAPACITY	
Surf	ace water control system cribe the run-on and runof				s Fact Sneet.
Line	r protection cribe how the physical inte	grity of the liner will be main	tained		
	Seal crack	with Sika	flex		
				NRCB USE ONLY	
					Requirements met: VES NO

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)

SOLID MANURE, COMPOST, & COMPOSTING I Concrete liner (cont.)	MATERIALS: Barns, feedlots, & storage facilities -
Concrete liner details	
Concrete thickness	Method of sulphate protection:
lo inches	Type 50
Concrete strength	Concrete reinforcement size and spacing
3.0	101
Jompa	10mm rebar on 12" Spacing
Concrete requirements can be found in Technical Guideline Age Guideline minimums:	
Solid manure: 25MPa (D) Solid manure (wet): 30MPa (C)	Requirements met: YES NO
Method of sulphate protection:	Condition required: ✓ YES □ NO
Type 50 or Type 10 with fly ash or equivalent	Report attached: YES NO
Additional information (attach as required)	
NRCB USE ONLY	
Alles and the second se	ES YES With STMS NO
Nine month manure storage volume requirements met Y	ES VIES WITH SIMS LINO
>5 m below grade	Requirements met: YES NO
Depth to Uppermost groundwater resource: 41.15 m belo	ow grade _{Requirements} met:
ERST completed: See ERST page for details	
Surface water control systems	
Requirements met: YES NO Details/comments:	
Line for the state of the state	
Concrete liner details	
	the applicant to provide proof that the concrete will
	anure - dry) as outlined in Technical Guideline Agdex
096-93 "Non-Engineered Concrete Liners for Ma	anure Collection and Storage Areas".
Leakage detection system required: YES NO If yes	, please explain why.

Last updated February 26, 2021

Part 2 — Technical Requirements Part 2 — Technical Requirements NRCB Natural Resources Conservation Board Application under the Agricultural Operation Practices Act for a confined feeding operation, manure collection area, and/or manure storage facility(ies)



NRCB USE ONLY						
ALL SIGNATURES	IN FILE	YES NO				
DATES OF APPROV	AL OFFICER SITE V	/ISITS				
November 19, 202	24					
	E WITH MUNICIPAL	ITIES AND REF	ERRAL A	AGENCIE	S	
Date deeming letters sen						
Municipality: Vulcan						
letter sent	response received	written/email		verbal	no comments received	
Alberta Health Service	es: VN/A					
☐ letter sent	response received	☐ written/email		verbal	no comments received	
Alberta Environment a	nd Parks:					
☐ letter sent	response received	written/email		verbal	no comments received	
Alberta Transportation	n: 🔽 N/A					
☐ letter sent	response received	☐ written/email		verbal	no comments received	
Alberta Regulatory Ser	rvices: N/A					
☐ letter sent	response received	☐ written/email		verbal	no comments received	
Other: Sunshine Gas	Other: Sunshine Gas Coop Ltd., Ranahan Resources Ltd.					
letter sent	response received	☐ written/email		verbal	no comments received	
Other: Foothills County					N/A	
☐ letter sent	response received	☐ written/email		verbal	no comments received	