Technical Document LA24012

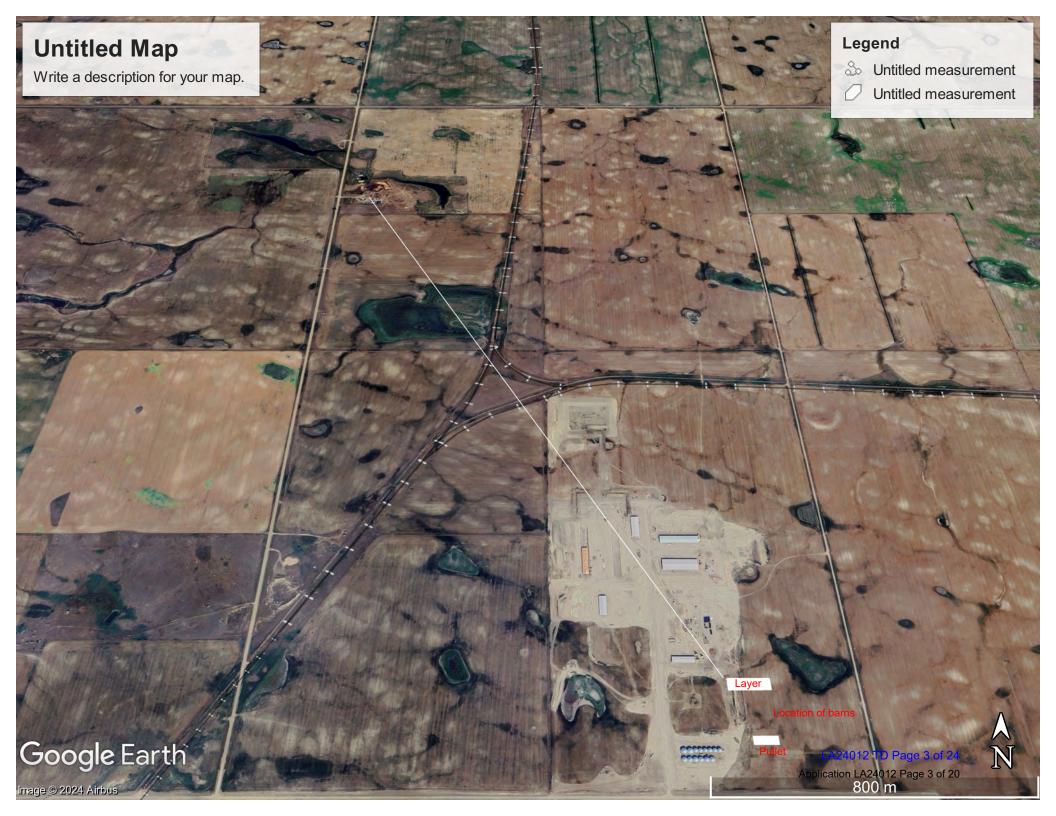
Part 2 — Technical Requirements



NRCB USE ONLY	Application number	Legal la	and description
✓ Approval ☐ Registration ☐ Authorization	LA24012	E½ 2-1	17-1 W4M
Amendment			
PPLICATION DISCLOSURE			
his information is collected under the authority of the <i>Agric</i> rovisions of the <i>Freedom of Information and Protection of F</i> rritten request that certain sections remain private.			
ny construction prior to obtaining an NRCB permit is	an offence and is subject to	enforcement	action, including
prosecution. , the applicant, or applicant's agent, have read and underst provided in this application is true to the best of my knowled		I acknowledge	that the information
march 20 2024			
Pate of signing	Signature		
Borderland Farming or Colony Corporate name (if applicable)	Ben P En	12	
Corporate name (if applicable)	Print name		
CENEDAL INCODMATION DECLIDEMENTS			
GENERAL INFORMATION REQUIREMENTS Proposed facilities: list all proposed confined feeding open	eration facilities and their dimer	sions. Indicate	whether any of the
proposed facilities are additions to existing facilities. (attac			
Proposed facilities		The second secon	imensions (m) n, width, and depth)
Layer Barn Pullet Barn	114.6mx36.6	m 376	' × 120'
	71.6mx24.4m	235	× 80'
Layer Barn Manuare Roon Rullet Barn Manue Roon	n 18.6mx9.1m		() 6 '
Rullet Born Manury Roo.	m 18.6mx9.1n	60 X	25
AO comment: the manure storage rooms a	re attached to the barns	S	
Existing facilities: list ALL existing confined feeding oper	ration facilities and their dimens	ions	
Existing facilities	Dimension (length, width,		NRCB USE ONLY
New CFO			
400000000000000000000000000000000000000			
NRCB USE ONLY			



struction completion date for proposed faciliti	es Dec 20	26	
itional information	es journal of		
idonal information			
estock numbers: Complete only if livestock number	ors are different from who	at was identified in the Part 1 ar	anlication Note:
estock numbers: Complete only if livestock numbers estock numbers increase in your Part 2 application, a	ers are different from wha a new Part 1 application of	at was identified in the Part 1 ap	oplication, Note:
prity for minimum distance separation (MDS).	a new rare 2 application in	mast be submitted which may re	25410 111 4 1055 01
Livestock category and type		Proposed increase or	
Available in the Schedule 2 of the Part 2 Matters	Permitted number	decrease in number	Total
Regulation)		(if applicable)	
AO comment: The application is for a no	ew 40 000 chicken la	ver + 40 000 chicken pull	et operation
		yer i 10,000 emeken pun	et operation
		1	





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

	I DO want my water licence applic	cation coupled	to my AOPA pe	ermit application.	
Sig	ned thisday of	, 20			
_				Signature of A	pplicant or Agent
<u>OF</u>	PTION 2: Processing the AOPA pe	ermit and Wa	ter Act licenc	e separately	
	I (we) acknowledge that the CFO velopment or activity proposed	in this AOPA ap	plication.		
2.	I (we) request that the NRCB proc CFO's application for a water licens	ess the AOPA a	pplication ind	ependently of EPA	s processing of the
3.	In making this request, I (we) reconsider NRCB's decision will not be consider water licence under the Water Act.	ognize that, if t ered by EPA as	his AOPA appl improving or	ication is granted by enhancing the CFO's	y the NRCB, the s eligibility for a
4					
	I (we) acknowledge that any const AOPA permit in the absence of a W whether to grant the Water Act lice	<i>later Act</i> licenc	e will not be r	e the CFO with lives elevant to EPA's cor	tock pursuant to arnsideration of
5.	whether to grant the Water Act lice I (we) acknowledge that any such the Water Act licence application is violation of the Water Act. This ris further construction, or to remove	Vater Act licence application construction or denied or if the kincludes bein "works" or "un	e will not be r n. livestock pop le operation of g required to dertakings" (a	elevant to EPA's cor ulating will be at the the CFO is otherwis depopulate the CFO s defined in the Wa	e CFO's sole risk if se deemed to be in and/or to cease
5.	whether to grant the Water Act lice I (we) acknowledge that any such the Water Act licence application is violation of the Water Act. This ris further construction, or to remove AS RELEVANT: I (we) acknowledge and that, pursuant to the Bow, Old	Vater Act licence application construction or denied or if the kincludes bein "works" or "unge that the CFO application and South	e will <u>not</u> be r n. livestock pop le operation of g required to dertakings" (a lis located in the saskatchewa	elevant to EPA's con ulating will be at the the CFO is otherwis depopulate the CFO s defined in the Wai the South Saskatche on River Basin Water	e CFO's sole risk if se deemed to be in and/or to cease ter Act).
5.	whether to grant the Water Act lice I (we) acknowledge that any such the Water Act licence application is violation of the Water Act. This ris further construction, or to remove AS RELEVANT: I (we) acknowledge and that, pursuant to the Bow, Old [Alta. Reg. 171/2007], this basin is	Vater Act licence application construction or denied or if the kincludes bein "works" or "unge that the CFO liman and South is currently closs	e will <u>not</u> be r n. livestock pop le operation of g required to dertakings" (a lis located in the saskatchewa	elevant to EPA's con- ulating will be at the the CFO is otherwise depopulate the CFO is defined in the Wal- the South Saskatches on River Basin Water	e CFO's sole risk if se deemed to be in and/or to cease ter Act). ewan River Basin r Allocation Order is. (AO comment
 5. 6. 7. 	whether to grant the Water Act lice I (we) acknowledge that any such the Water Act licence application is violation of the Water Act. This ris further construction, or to remove AS RELEVANT: I (we) acknowledge and that, pursuant to the Bow, Old	Vater Act licence application construction or sidenied or if the kincludes being "works" or "unge that the CFO liman and South currently close number(s)	e will <u>not</u> be r n. livestock pop le operation of g required to dertakings" (a lis located in the saskatchewa	elevant to EPA's con- ulating will be at the the CFO is otherwise depopulate the CFO is defined in the Wal- the South Saskatches on River Basin Water	e CFO's sole risk if se deemed to be in and/or to cease ter Act). ewan River Basin r Allocation Order
 5. 6. 7. 	whether to grant the Water Act lice I (we) acknowledge that any such the Water Act licence application is violation of the Water Act. This ris further construction, or to remove AS RELEVANT: I (we) acknowledge and that, pursuant to the Bow, Old [Alta. Reg. 171/2007], this basin is Provide: Water licence application	Vater Act licence application construction or sidenied or if the kincludes being "works" or "unge that the CFO liman and South currently close number(s)	e will <u>not</u> be r n. livestock pop le operation of g required to dertakings" (a lis located in the saskatchewa	ulating will be at the the CFO is otherwisdepopulate the CFO s defined in the Watches South Saskatches River Basin Water face water allocation submitted	e CFO's sole risk if se deemed to be in and/or to cease ter Act). ewan River Basin r Allocation Order is. (AO comment
 5. 7. Sigr 	whether to grant the Water Act lice I (we) acknowledge that any such the Water Act licence application is violation of the Water Act. This ris further construction, or to remove AS RELEVANT: I (we) acknowledge and that, pursuant to the Bow, Old [Alta. Reg. 171/2007], this basin is Provide: Water licence application and this 20 day of March.	later Act licence application construction or denied or if the kincludes being "works" or "unge that the CFC man and South currently closed number(s), 20_24	e will <u>not</u> be read. In livestock popule operation of grequired to dertakings" (at is located in the Saskatchewall of the Saskatchewa	ulating will be at the the CFO is otherwisdepopulate the CFO s defined in the Watches South Saskatches River Basin Water face water allocation submitted	e CFO's sole risk if se deemed to be in and/or to cease ter Act). ewan River Basin r Allocation Order ins. (AO comment on file)
5. 6. 7. Sigr	whether to grant the Water Act lice I (we) acknowledge that any such the Water Act licence application is violation of the Water Act. This ris further construction, or to remove AS RELEVANT: I (we) acknowledge and that, pursuant to the Bow, Old [Alta. Reg. 171/2007], this basin is Provide: Water licence application and this 20 day of	Vater Act licence ence application construction or sidenied or if the kincludes being "works" or "unge that the CFO man and South sidenied currently closinumber(s)	e will <u>not</u> be read. In livestock popule operation of grequired to dertakings" (at its located in the Saskatchewall of the population of the sakatchewall of the sak	ulating will be at the the CFO is otherwise depopulate the CFO is defined in the Walthe South Saskatche in River Basin Water face water allocation Signature of Assignature of Assignature of Assignature of Assignature value	nsideration of e CFO's sole risk if se deemed to be in and/or to cease ter Act). ewan River Basin r Allocation Order ns. (AO comment on file)
5. 6. 7. Sigr	whether to grant the Water Act lice I (we) acknowledge that any such the Water Act licence application is violation of the Water Act. This ris further construction, or to remove AS RELEVANT: I (we) acknowledge and that, pursuant to the Bow, Old [Alta. Reg. 171/2007], this basin is Provide: Water licence application and this 20 day of March.	vater Act licence ence application construction or sidenied or if the kincludes being "works" or "unge that the CFO aman and South currently close number(s), 20_24	e will <u>not</u> be read. In livestock popule operation of grequired to dertakings" (at its located in the Saskatchewall of the control of the sakatchewall of the sakatc	ulating will be at the the CFO is otherwise depopulate the CFO is defined in the Walthe South Saskatche in River Basin Water face water allocation Signature of Assignature of Assignature of Assignature of Assignature value	nsideration of e CFO's sole risk if se deemed to be in and/or to cease ter Act). ewan River Basin r Allocation Order ns. (AO comment on file)

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)

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

- 1. At this time, I (we) do not know whether a new water licence is needed from EPA under the *Water Act* for the development or activity proposed in this AOPA application.
- 2. If a new Water Act licence is needed, I (we) request that the NRCB process the AOPA application independently of 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 **not** 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 :	j. 171/2007], this b	basin is currently closed to nev	v surface water allocations.
	Water license num	ber(s) or water conveyance ag	greement details
Signed this	day of		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)

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) Proposed 1: Layer Barn Existing: Proposed 2: Pullet Barn Proposed 3: **Facilities NRCB USE ONLY** Facility and environmental risk Meets information Proposed 1 Proposed 2 Proposed 3 Existing Comments requirements Flood plain information What is the elevation of the floor of Not located in flood plain the lowest manure storage or □ >1 m □ > 1 m □ >1 m >1 m YES NO collection facility above the 1:25 □ k 1 m ≤ 1 m ≤ 1 m ≤ 1 m ☐ YES with year flood plain or the highest known flood level? exemption X YES NO How many springs are within 100 m None observed during site visit 0 of the manure storage facility or YES with or recorded in EPA database manure collection area? Surface water exemption information YES NO None observed during site visit How many water wells are within or recorded in EPA database 100 m of the manure storage ☐ YES with 0 facility or manure collection area? 410 m to well 1270541, 417 to well1270542 exemption What is the shortest distance from X YES NO 55 m to slough (not a common body the manure collection or storage 55 m YES with of water) facility to a surface water body? (e.g., lake, creek, slough, seasonal) exemption X YES NO confirmed (other drilling on site) What is the depth to the water Groundwater information ☐ YES with >1m table? exemption X YES NO 177 m (ID 1270541) What is the depth to the groundwater resource/aquifer you > 100m YES with

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

draw water from?

185 m (ID1270542)

exemption



NRCB USE ONLY WATER WELL AND SU	RFACE WATER INFORMATI	ON								
Well IDs: Well IDs 12705	542 and 1270541									
Surface water related concerns from directly affected parties or referral agencies: ☐ YES ☒ NO										
Groundwater related concerns from directly affected parties or referral agencies:										
Water wells N/A										
	00 m distance requirements applied:	YES NO Condition	required: YES NO							
Surface water N/A		_								
If applicable, exemption for 30) m distance requirements applied: $f f f f f f f f f f f f f $	YES NO Condition	required: YES NO							
Water Well Exemption Scre	eening Tool 🔼 N/A									
	_									
Water Well ID	Preliminary Screening Score	Secondary Screening Score	Facility							
	56516	30010								
Groundwater or surface wa	ter related comments:									



NRCB USE ONLY ENVIRONMENTAL RISK SC	IRCB USE ONLY ENVIRONMENTAL RISK SCREENING INFORMATION									
ERST for <u>proposed</u> facilities Pre	facilities meet all of AOPA grasumed to pose a low risk to gr	oundwater and surface water proundwater and surface water	rotection requirements.							
Facility	Groundwater score	Surface water score	File number							
ERST for <u>existing</u> facilities	NA									
Facility	Groundwater score	Surface water score	File number							
ERST related comments:										
LRSI related comments.										



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

GIC Well ID 1270541 GoA Well Tag No. A4903

Drilling Company Well ID Site 3 Hole 1A PW 1 Date Report Received

2022/12/02

GOWN ID

										Date Hopert			, 0_
Well Iden	tification and l	ocation										Measuren	nent in Metric
	Owner Name BORDERLAND FARMING CO LTD		Address P.O. BOX 69				Province Country ALBERTA CANADA		,		Postal Code ГОЈ 1R0		
Location	1/4 or LSD 2	SEC 2	<i>TWP</i> 17	RGE 1	W of MER 4	Lot	Block	Plan	Additio	onal Description	7		
Measured	from Boundary	of			GPS Coordinates in Decimal Degrees (NAD 83)								
	Ť	m from			Latitude 50.400245 Longitude -110.038278				38278	Elevation 819.91 m			_
	m from				How Location Obtained					How Elevation Obtained			
					Phone					Other			
Drilling Inf	formation												
Method of					Type of Work								

Rotary - Mud Proposed Well Use

New Well

Domestic	
Formation Log	Measurement in Metric
Depth from Water ground level (m) Bearing	Lithology Description
0.61	Topsoil
1.83	Dark Gray Till
4.88	Brown Gravelly Rocks
6.10	Brown Till
6.71	Gray Gravelly Till
14.02	Interbedded Sand
18.90	Gray Gravelly Till
21.64	Gray Unconsolidated Till
24.99	Gray Gravelly Till
28.04	Gray Silty Till
30.78	Gray Firm Till
42.67	Brown Silty Till
45.11	Brown Firm Till
49.99	Gravelly Till
51.21	Brown Till
67.67	Brown Silty Till
72.54	Gray Oxidized Till
78.03	Light Brown Sandy Till
78.64	Brown Firm Till
85.95	Oxidized Till
94.49	Gray Unknown Clay
104.85	Gray Silty Shale
105.16	Coal
108.51	Brown Shale
112.78	Siltstone
117.04	Mixed Shale
125.88	Gray Siltstone
127.41	Sandstone
138.99	Firm Shale
142.65	Gray Siltstone
143.87	Hard Ledges
145.69	Gray Siltstone

Yield Test Sum	nmary			Me	easurement in	Metric	
Recommended F	Pump Ra	te	L/min				
Test Date		Removal Rate (I		n)			
Well Completion	on			Me	easurement in	Metric	
Total Depth Drille	ed Finis	hed Well Depth	Start Dat	е	End Date		
204.60 m	188.		2021/09/		2021/09/17		
Borehole							
Diameter (d	cm)	From	(m)		To (m)		
22.23		0.0	00		174.04		
16.83		174			175.56		
13.02		175	.56		204.60		
Surface Casing Plastic	(if appli		Well Casin Plastic	g/Line	r		
Size OD	:	15.24 cm	Siz	e OD :	7.62 cm	<u>1</u>	
Wall Thickness	::	1.008 cm	Wall Thick	kness :	0.859 cm	<u>1</u>	
Bottom at	t: <u>1</u>	75.56 m	7	op at :	165.54 m	_	
			Botte	om at :	177.22 m		
Perforations						_	
From (m) To	o (m)	Diameter or Slot Width (cm)	Slot Lengt (cm)	h	Hole or Slot Interval(cm)		
	0.	Bentonite Slurry 00 m to 953.00 Gallons	175.56 m				
Other Seals		955.00 Gallons	_				
Other Seals	Type			Λ+	: (m)		
	туре			Al	. (111)		
Screen Type S		Steel 8.89 cm					
From (m		To ((m)		Slot Size (cm)		
177.22		188			0.038		
Attachment	t Attache	ed To Riser				_	
Top Fittings	Packer		Bottom F	ittings _	Washdown	_	
Pack				_		_	
Type Frac Sa	and		Grain Siz	e 55			

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

CRAIG LAVOIE

Company Name ELK POINT DRILLING CORP.

Printed on 5/3/2024 11:52:02 AM

Certification No

73.00 Bags

187897A

Amount

Copy of Well report provided to owner Yes

Date approval holder signed 2021/09/17



View in Imperial Export to Excel

GIC Well ID

1270542 A4904

GoA Well Tag No. Drilling Company Well ID Site 3 Hole 2 PW 2

2022/12/02

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.

JOVVIV	שווי										Date Nepoli	Received	2022/12/02
We	ell Identific	cation and L	ocation										Measurement in Metric
ВО	Owner Name BORDERLAND FARMING CO LTD		Address P.O. BOX 6	69	<i>Town</i> HILDA			Province Count ALBERTA CANA		Postal Code TOJ 1R0			
Loc	cation	1/4 or LSD 2	SEC 2	<i>TWP</i> 17	RGE 1	W of MER 4	Lot	Block	Plan	Additio	onal Descriptio	n	
Mea	asured fro	m Boundary o	of			GPS Coordinates in Decimal Degrees (NAD 83)			<i>'</i>	<i>[[]</i>			
			m from			Latitude 50.399089 Longitude -110.038089				038089	Elevation m		
m from					How Location Obtained				How Elevation Obtained		ned		
	-					Phone				l	Not Obtain	∍d	
	oth from und level (Water m) Bearing	Litholo	gy Descriptior	1			Amoun	t 74	.00 Bags			

Depth from ground level (m)	Water Bearing	Lithology Description
132.89		Gray Siltstone
142.04		Mixed Shale
145.69		Gray Firm Siltstone
147.52		Gray Shale
149.96		Gray Siltstone
151.18		Gray Firm Shale
154.23		Gray Siltstone
157.89		Gray Hard Shale
162.15		Hard Siltstone
162.76		Hard Ledges
164.59		Gray Shale
167.64		Gray Sandstone
168.86		Gray Shale
170.69		Hard Ledges
184.10		Sandstone & Shale
196.90		Gray Sandstone
197.21		Hard Ledges
201.43		Bluish Green Shale

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

CRAIG LAVOIE

Company Name ELK POINT DRILLING CORP. Certification No

187897A

Copy of Well report provided to owner Yes

Date approval holder signed 2022/01/16



View in Imperial Export to Excel

GIC Well ID

1270542 GoA Well Tag No. A4904

Drilling Company Well ID Site 3 Hole 2 PW 2 Date Report Received

2022/12/02

COMMID

Domestic

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.

COMMID										Date Report Net	CCIVCU	2022/12/02
Well Iden	tification and L	ocation									N	leasurement in Metric
Owner Name BORDERLAND FARMING CO LTD		Address P.O. BOX 69		<i>Town</i> HILDA				Province ALBERT			Postal Code T0J 1R0	
Location	1/4 or LSD 2	SEC 2	<i>TWP</i> 17	RGE 1	W of MER Lot Block Plan Addit 4					Additional Description		
Measured	Measured from Boundary of				GPS Coordinates in Decimal Degrees (NAD 83)							
	Í	m from			Latitude 50.399089 Longitude -110.038089 How Location Obtained Phone					Elevation		<u>m</u>
		m from								How Elevation Obtained Not Obtained		
Drilling Inf	formation											
Method of Drilling Rotary - Mud			Type of Work New Well									
Proposed	Proposed Well Use											

Domestic	<u> </u>
Formation Log	Measurement in Metric
Depth from ground level (m) Water Bearing	33
1.83	Unknown
3.05	Brown Till
3.35	Rocks
4.88	Brown Gravelly Till
6.10	Rocks
12.50	Dark Gray Gravelly Till
18.29	Gray Gravelly Till
19.51	Rocks
22.56	Gray Unconsolidated Till
36.88	Gray Firm Till
39.01	Gray Silty Till
40.23	Gray Firm Clay
43.89	Brown Silty Clay
59.13	Gray Silty Clay
62.79	Brown Silty Clay
67.06	Brown Firm Clay
77.42	Brown Silty Gravel
83.52	Brown Sandy Clay
84.12	Oxidized Sand
86.56	Brown Firm Unknown
92.05	Gray Oxidized Shale
103.63	Gray Shale
109.12	Mixed Shale
112.78	Clayey Sandstone
114.60	Mixed Shale
118.26	Gray Clayey Sandstone
120.09	Bluish Green Firm Shale
122.53	Brown Coal
124.97	Brown Cemented Shale
128.02	Mixed Shale
129.84	Gray Siltstone
131.67	Brown Firm Shale
0 1 1 0 11 1	

Yield Test S	Summary			Measurement in Me
Recommend	led Pump Ra	ate	L/min	
				tatic Water Level (m)
Well Compl	letion			Measurement in Me
Total Depth I	Drilled Finis	shed Well Depth	Start Date	End Date
201.43 m	196	.66 m	2021/12/13	2022/01/16
Borehole				
Diamet	er (cm)	From	ı (m)	To (m)
	.23	0.0		178.31
	.83	178		179.83
	.02		.83	184.10
27 13	.94	184 196		196.90 201.43
Surface Cas			Well Casing/Li Plastic	
	OD:	15.24 cm		D: 7.62 cm
				0.851 cm
	m at : 1			at: 173.66 m
Dottor	nat.	73.00 111		
Perforations	•		Bottom a	at: 185.60 m
T errorations	,	Diameter or		
		Slot Width	Slot Length	Hole or Slot
From (m)	To (m)	(cm)	(cm)	Interval(cm)
FIOIII (III)				
Perforated by Annular Sea Placed fro	Cement/	Bentonite Slurry	179.83 m	
Perforated by Annular Sea Placed fro Amou	Cement/	,	179.83 m	
Perforated by Annular Sea Placed fro	Cement/ om 0.	.00 m to	179.83 m	At (m)
Perforated by Annular Sea Placed fro Amou	Cement/	.00 m to	179.83 m	At (m)
Perforated by Annular Sea Placed fro Amou Other Seals	Cement/ om 0. Type	976.81 Gallons	179.83 m	At (m)
Perforated by Annular Sea Placed fro Amou Other Seals Screen Type Size	Cement/ m 0. Type Stainless	976.81 Gallons Steel 8.89 cm	179.83 m	At (m) Slot Size (cm)
Perforated by Annular Sea Placed fro Amou Other Seals Screen Type Size From	Type Stainless OD:	976.81 Gallons S Steel 8.89 cm	179.83 m	
Perforated by Annular Sea Placed fro Amou Other Seals Screen Type Size From 185	Type Stainless OD: (m) 5.60	976.81 Gallons S Steel 8.89 cm	179.83 m	Slot Size (cm)

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

CRAIG LAVOIE

Company Name

ELK POINT DRILLING CORP.

Certification No

187897A

Type Frac Sand

Copy of Well report provided to owner Yes

Date approval holder signed

2022/01/16

Grain Size 0.55



GOWN ID

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

GIC Well ID 1270542 GoA Well Tag No. A4904

Drilling Company Well ID
Date Report Received

Site 3 Hole 2 PW 2 2022/12/02

Well Identification and Location Measurement in Metric Postal Code Owner Name Address Town Province Country BORDERLAND FARMING CO P.O. BOX 69 HILDA **ALBERTA** CANADA T0J 1R0 LTD 1/4 or LSD SEC TWP RGE W of MER Lot Block Plan Additional Description Location 2 17 1 4 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude 50.399089 Longitude -110.038089 Elevation m m from How Location Obtained How Elevation Obtained m from Phone Not Obtained Additional Information Measurement in Metric Distance From Top of Casing to Ground Level 60.96 cm Is Artesian Flow Is Flow Control Installed Rate Describe Recommended Pump Rate L/min Pump Installed Depth m Recommended Pump Intake Depth (From TOC) m H.P. Model (Output Rating) m Well Disinfected Upon Completion Yes Did you Encounter Saline Water (>4000 ppm TDS) Depth m ____ Depth Geophysical Log Taken Electric Gas Remedial Action Taker. Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well UPDATED BOTTOM DEPTH OF FORMATION LOG, TOTAL DEPTH DRILLER, FINISHED WELL DEPTH AND ADDED DISTANCE FROM TOP OF CASING TO GROUND LEVEL AT REQUEST OF DRILLER. ALSO CONFIRMED WITH DRILLER NO YIELD TEST WAS COMPLETED AT THIS TIME 2022-12-15. Yield Test Taken From Ground Level Static Water Level Test Date Start Time Method of Water Removal Type Removal Rate L/min Depth Withdrawn From If water removal period was < 2 hours, explain why Water Diverted for Drilling

Amount Taken

33004.63

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

CRAIG LAVOIÉ

Water Source

BORDERLAND FARMING CO LTD WELL

Company Name
ELK POINT DRILLING CORP.

Certification No 187897A

Copy of Well report provided to owner Yes

Diversion Date & Time

2021/12/13 9:00 AM

Date approval holder signed 2022/01/16



View in Imperial Export to Excel

GIC Well ID 1270541 GoA Well Tag No. A4903

Drilling Company Well ID Site 3 Hole 1A PW 1 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			accuracy. The Inf	ormation o	n this report will be i	retained in a p	oublic databas	se.			rt Received		/12/02
Well Ident	tification and L	ocation										Measure	ment in Metric
Owner Nar. BORDERL LTD	ne AND FARMING	СО	Address P.O. BOX 6	9		Town HILDA			Province ALBERT	-	Country CANADA		Postal Code T0J 1R0
Location	1/4 or LSD 2	SEC 2	<i>TWP</i> 17	RGE 1	W of MER 4	Lot	Block	Plan	Additi	onal Descript	ion		
Measured i	from Boundary (m from m from			GPS Coordir Latitude 5 How Location Phone	0.400245	•	es (NAD 83 tude110.0	,	Elevation How Eleva	8′ ation Obtain	19.91 m	_
Depth from	n Water	Litholo	av Description		•								•

Depth from ground level (m)	Water Bearing	Lithology Description
148.13		Gray Shale
151.18		Siltstone
158.50		Gray Siltstone
159.11		Hard Ledges
163.98		Siltstone
168.25		Sandstone
169.47		Gray Shale
170.69		Hard Ledges
172.52		Sandstone
176.17		Siltstone
181.66		Sandstone
181.97		Shale
187.76		Sandstone
188.98		Gray Shale
193.85		Sandstone
196.90		Hard Ledges
198.12		Cemented Sandstone
199.95		Shale
204.60		Sandstone

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

CRAIG LAVOIE

Company Name ELK POINT DRILLING CORP. Certification No

187897A

Copy of Well report provided to owner Yes

Date approval holder signed

2021/09/17



GOWN ID

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

GIC Well ID 1270541 GoA Well Tag No. A4903

Drilling Company Well ID
Date Report Received

Site 3 Hole 1A PW 1 2022/12/02

Well Identification and Location Measurement in Metric Postal Code Owner Name Address Town Province Country BORDERLAND FARMING CO P.O. BOX 69 HILDA ALBERTA CANADA T0J 1R0 LTD 1/4 or LSD SEC TWP RGE W of MER Lot Block Plan Additional Description Location 2 17 1 4 GPS Coordinates in Decimal Degrees (NAD 83) Measured from Boundary of Latitude 50.400245 Longitude -110.038278 819.91 m m from How Location Obtained How Elevation Obtained m from Phone Other Additional Information Measurement in Metric Distance From Top of Casing to Ground Level 60.96 cm Is Artesian Flow Is Flow Control Installed Rate Describe Recommended Pump Rate L/min Pump Installed Depth m Recommended Pump Intake Depth (From TOC) m H.P. Model (Output Rating) m Well Disinfected Upon Completion Yes Did you Encounter Saline Water (>4000 ppm TDS) Depth m ____ Depth Geophysical Log Taken Gas Remedial Action Taker. Submitted to ESRD Sample Collected for Potability Submitted to ESRD Additional Comments on Well DRILLER CONFIRMED NO YIELD TEST AS COMPLETED AT THIS TIME. UPDATED BOTTOM OF LITHOLOGY AND TOTAL DEPTH DRILLER AND FINISHED WELL DEPTH AND ADDED DISTANCE FROM TOP OF CASING TO GROUND LEVEL 2022-12-15. Yield Test Taken From Ground Level Measurement in Metric Test Date Start Time Static Water Level Method of Water Removal Type Removal Rate L/min Depth Withdrawn From If water removal period was < 2 hours, explain why Water Diverted for Drilling

Amount Taken

33004.63

Contractor Certification

Name of Journeyman responsible for drilling/construction of well

CRAIG LAVOIÉ

Water Source

BORDERLAND FARMING CO LTD WELL

Company Name
ELK POINT DRILLING CORP.

Certification No 187897A

Copy of Well report provided to owner Yes

Diversion Date & Time

2021/09/08 9:00 AM

Date approval holder signed 2021/09/17



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 ONI	_Y	
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
AO comment: There are no neigh	boring residences within a	km radius					YES

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

				NRCB USI	ONLY
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)
As per email (May 3, 2024)	available lands are: NE 35-17-1 W	74, E1/2 11-17-1 W	/4, E 1/ 2-17-1 W4, ar	nd section 15-17-1 (d	y land)
			Total	1440 acres dryland k	prown

^{*} 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)

^{**} 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

MDS Spreadsheet based on 2006 AOPA Regulations

Category of Livestock	Type of Livestock		Technology Factor	MU	LSU Factor	Number of Animals	LSU
Beef	Cows/Finishers (900+ lbs)	0.700 0.700	0.700 0.700	0.910 0.500	0.446 0.245		-
	Feeders (450 - 900 lbs) Feeder Calves (<550 lbs)	0.700	0.700	0.300	0.245		-
	Other	0.700	0.700	0.275	0.133		
Dairy	*Free Stall – Lactating Cows with all associated dries, heifers, and calves	0.800	1.100	2.000	1.760		-
(*count	*Free Stall - Lactating cows with Dry Cows	0.800	1.100	1.640	1.443		-
lactating cows only)	only Free Stall – Lactating Cows only	0.800	1.100	1.400	1.232		-
,,	Tie Stall - Lactating cows only	0.800	1.000	1.400	1.120		-
	Loose Housing - Lactating cows only	0.800	1.000	1.400	1.120		-
	Dry Cow (Solid manure)	0.800	0.700	1.000	0.560		-
	Dry Cow (Liquid manure) Replacements – Bred Heifers (Breeding to	0.800	0.700	0.875	0.490		-
	Calving) Replacements - Growing Heifers (350 lbs to	0.800	0.700	0.525	0.294		-
	breeding) Calves (< 350 lbs)	0.800	0.700	0.200	0.112		-
	Other					-	
Swine	Farrow to finish *	2.000	1.100	1.780	3.916		-
Liquid	Farrow to wean *	2.000	1.100	0.670	1.474		-
(*count	Farrow only *	2.000	1.100	0.530	1.166		-
sows only)	Feeders/Boars	2.000	1.100	0.200	0.440		-
	Growers/Roasters	2.000	1.100	0.118	0.260		-
	Weaners Other	2.000	1.100	0.055	0.121		-
Swine	Farrow to finish *	2.000	0.800	1.780	2.848	-	-
Solid	Farrow to wean *	2.000	0.800	0.670	1.072		-
(*Count	Farrow only *	2.000	0.800	0.530	0.848		-
sows only)	Feeders/Boars	2.000	0.800	0.200	0.320		
	Growers/Roasters	2.000	0.800	0.118	0.189		-
	Weaners	2.000	0.800	0.055	0.088		-
Poultry	Chicken - Breeders - Solid	1.000	0.700	0.010	0.007		-
	Chicken - Layers - Liquid (includes associated pullets)	2.000	1.100	0.008	0.018		-
	Chicken - Layers - (Belt Cage)	2.000	0.700	0.008	0.011	40,000	448.0
	Chicken - Layers - (Deep Pit)	2.000	0.700	0.008	0.011	10,000	-
	Chicken - Pullets/Broilers	1.000	0.700	0.002	0.001	40,000	56.0
	Turkey - Toms/Breeders	1.000	0.700	0.020	0.014		-
	Turkey - Hens (light)	1.000	0.700	0.013	0.009		-
	Turkey - Broilers	1.000	0.700	0.010	0.007		-
	Ducks	1.000	0.700	0.010	0.007		-
	Geese	1.000	0.700	0.020	0.014		-
Horses	PMU	0.650	0.700	1.000	0.455		-
	Feeders > 750 lbs	0.650	0.700	1.000	0.455		-
	Foals < 750 lbs	0.650	0.700	0.300	0.137		-
	Mules	0.600	0.700	1.000	0.420		-
							-
	Other Other	0.600	0.700	0.670	0.281		_
Sheep	Other						-
Sheep		0.600 0.600 0.600	0.700 0.700 0.700	0.670 0.200 0.250	0.281 0.084 0.105		-
Sheep	Other Ewes/Rams	0.600	0.700	0.200	0.084		-
Sheep	Other Ewes/Rams Ewes with lambs	0.600 0.600	0.700 0.700	0.200 0.250	0.084 0.105		
Sheep	Cither Ewes/Rams Ewes with lambs Lambs Feeders Other	0.600 0.600 0.600 0.600	0.700 0.700 0.700 0.700	0.200 0.250 0.050 0.100	0.084 0.105 0.021 0.042		
	Ewes/Rams Ewes with lambs Lambs Feeders	0.600 0.600 0.600	0.700 0.700 0.700	0.200 0.250 0.050	0.084 0.105 0.021		
	Ewes/Rams Ewes with lambs Lambs Feeders Other Meat/Milk (per Ewe) Nannies/Billies Feeders	0.600 0.600 0.600 0.600	0.700 0.700 0.700 0.700 0.700	0.200 0.250 0.050 0.100	0.084 0.105 0.021 0.042 0.083		
	Ewes/Rams Ewes with lambs Lambs Feeders Ditter Meat/Milk (per Ewe) Nannies/Billies Feeders Ditter Bison	0.600 0.600 0.600 0.600 0.700	0.700 0.700 0.700 0.700 0.700 0.700	0.200 0.250 0.050 0.100 0.170 0.140	0.084 0.105 0.021 0.042 0.083 0.069		
Goats	Ewes/Rams Ewes with lambs Lambs Feeders Other Weat/Milk (per Ewe) Nannies/Billies Feeders Sitner Bison	0.600 0.600 0.600 0.600 0.700 0.700 0.700	0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700	0.200 0.250 0.050 0.100 0.170 0.140 0.077	0.084 0.105 0.021 0.042 0.083 0.069 0.038		
Goats	Citier Ewes/Rams Ewes with lambs Lambs Feeders Other Meat/Milk (per Ewe) Nannies/Billies Feeders Citier Bison Citier Elk	0.600 0.600 0.600 0.600 0.700 0.700 0.700 0.600	0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700	0.200 0.250 0.050 0.100 0.170 0.140 0.077 1.000	0.084 0.105 0.021 0.042 0.083 0.069 0.038 0.420		
Goats	Ewes/Rams Ewes with lambs Lambs Feeders Other Meat/Milk (per Ewe) Nannies/Billies Feeders Other Bison Uther Elk Deer	0.600 0.600 0.600 0.600 0.700 0.700 0.700	0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700	0.200 0.250 0.050 0.100 0.170 0.140 0.077	0.084 0.105 0.021 0.042 0.083 0.069 0.038		
Goats Bison Cervid	Ewes/Rams Ewes with lambs Lambs Feeders Dither Meat/Milk (per Ewe) Nannies/Billies Feeders Dither Bison Dither Elk Deer	0.600 0.600 0.600 0.600 0.700 0.700 0.700 0.600	0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700	0.200 0.250 0.050 0.100 0.170 0.140 0.077 1.000 0.600 0.200	0.084 0.105 0.021 0.042 0.083 0.069 0.038 0.420 0.252 0.084		
Goats	Ewes/Rams Ewes with lambs Lambs Feeders Other Meat/Milk (per Ewe) Nannies/Billies Feeders Other Bison Uther Elk Deer	0.600 0.600 0.600 0.600 0.700 0.700 0.700 0.600	0.700 0.700 0.700 0.700 0.700 0.700 0.700 0.700	0.200 0.250 0.050 0.100 0.170 0.140 0.077 1.000	0.084 0.105 0.021 0.042 0.083 0.069 0.038 0.420		

Total 504.0

For New Operations Dispersion Factor

Distance et Metres Odour Objective 41.04 54.72 68.4 109.44 Feet 1,305 1,740 2,175 3,480 663 1,061

For Expanding Operations Dispersion Factor Expansion Factor

1 0.77

		Dist	ance
Category	Odour Objective	Feet	Metres
1	41.04	1,005	306
2	54.72	1,340	408
3	68.40	1,675	510
4	109.44	2,679	817

 Name
 0

 Address
 0

 Legal Land
 0

 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)
Beef	Cows/Finishers (900+ lbs)	0	0	0	0	0
	Feeders (450 - 900 lbs)	0	0	0	0	0
	Feeder Calves (<550 lbs)	0	-	-	-	-
	Other	0	_			
Dairy	*Free Stall – Lactating Cows with all associated dries, heifers, and calves	0	0	0	0	0
(*count	*Free Stall – Lactating cows with Dry Cows	0	-	-	_	-
lactating	only	Ü				
cows only)	Free Stall - Lactating Cows only	0	-	-	-	-
• • • • • • • • • • • • • • • • • • • •	Tie Stall – Lactating cows only	0	-	-	0	0
	Loose Housing - Lactating cows only	0	-	-	-	-
	Dry Cow (Solid manure)	0	-	-	-	-
	Dry Cow (Liquid manure) Replacements – Bred Heifers (Breeding to	0	-	-	-	
	Calving) Replacements - Growing Heifers (350 lbs to	0	-		-	
	breeding) Calves (< 350 lbs)	0		-	-	
	Other	0		-		
Swine	Farrow to finish *	0	-	0	-	-
Liquid	Farrow to wean *	0	-	-	-	-
(*count	Farrow only *	0	-	-	-	-
sows only)	Feeders/Boars	0	-	0	0	0
	Growers/Roasters	0	-	-	-	-
	Weaners	0	-	-	-	-
0 '	Other	0				
Swine Solid	Farrow to finish * Farrow to wean *	0	-	-	-	-
(*Count	Farrow only *	0	-	-	-	
sows only)	Feeders/Boars	0	-	-	-	
00110 011197	Growers/Roasters	0	-	-	-	-
	Weaners	0	-	-	-	-
		0				
Poultry	Chicken - Breeders - Solid	0	-	-	-	-
	Chicken - Layers - Liquid (includes associated pullets)	0	-	0	0	0
	Chicken - Layers - (Belt Cage) Chicken - Layers - (Deep Pit)	40000 0	220.0000	184.0000	136.0000	112.0000
	Chicken - Pullets/Broilers	40000	130.00000	108.4	81.2	65.2
	Turkey - Toms/Breeders	0	0	0	0	0
	Turkey - Hens (light)	0	-	-	-	-
	Turkey - Broilers Ducks	0	- 0	- 0	- 0	- 0
	Geese	0	0	0	0	0
	Other	0	U	U	U	
Horses	PMU	0	0	0	0	0
	Feeders > 750 lbs	0	-	0	-	
	Foals < 750 lbs	0	-	-	-	-
	Mules	0	-	-	-	
	Donkeys	0	-	-	-	-
0	Other Ewee/Peme	0		0	0	
Sheep	Ewes/Rams Ewes with lambs	0	-	- 0	- 0	0
	Lambs	0	-	-	-	
	Feeders	0	-	-	-	
	Other	0				
Goats	Meat/Milk (per Ewe)	0	0	0	0	0
	Nannies/Billies	0				
	Feeders	0	-	-	-	-
	Other	0		_	_	
Bison	Other Other	0	0	0	0	0
Cervid	Elk	0	0	0	0	0
	Deer	0	0	0	0	0
Weld D	Other	0				_
Wild Boar	Feeders Sow (farrowing)	0	-	0	0	0
	Sow (farrowing) Other	0	-	-	-	-
	Total Hectares		350.0	292.4	217.2	177.2
	Total Acres		864.9	722.5	536.7	437.9



NRCB USE ONLY								
MINIMUM DISTANC								
Methods used to determine	distance (if appl	icable): _	google	earth				
Margin of error (if applicab								
Requirements (m): Catego	ry 1: 398 m	Cat	tegory 2:	530 m	Catego	iry 3: 663 I	m	Category 4: 1061 m
Technology factor:						□ Y	res 🔀	NO
Expansion factor:						□ Y	res 🛚	NO
MDS related concerns from	directly affected	parties o	or referra	I agencies	s:	□ Y	res 🛚	NO
LAND BASE FOR MA				PLICAT	ION			
Land base required:	864 acres dryla							
Land base listed:	1440 acres dry	lana pro	own					
Area not suitable:	> 900 acres dr	ryland b	rown			V	Г	7
Available area					Requirement	t met: 🔼	YES L	J NO
Land spreading agreements	s required:	YES	N O					
Manure management plan:		☐ YES	K NO		If yes, plan	is attached	i: 🗆	
PLANS								
Submitted and attached co	nstruction plans:		YES	□ №				
Submitted aerial photos:			X YES	□ NO				
Submitted photos:			☐ YES	X NO				
GRANDFATHERING								
Already completed:			☐ YES	□ NO E	□ N/A	New CF	0	
If already completed, see _								



NRCB USE ONLY						
ALL SIGNATURES	IN FILE	XYES []ио			
DATES OF APPROV	AL OFFICER SITE V	ISITS				
March 20, 2024						
	WITH MUNICIPAL	ITIES AN	ID REFERRAL	AGENCI	ES	
	May 14, 2024			_		
Municipality:	ypress County			_		
✓ letter sent	response received	writter writter	n/email \Box	verbal		no comments received
Alberta Health Services	s: NA					
☐ letter sent	☐ response received	☐ writter	n/email \Box	verbal		no comments received
Alberta Environment ar	nd Parks:					
✓ letter sent	response received	K writter	n/email \Box	verbal		no comments received
Alberta Transportation:	: □ N/A					
letter sent	response received	X writter	n/email \Box	verbal		no comments received
Alberta Regulatory Serv	vices: N/A					
☐ letter sent	response received	☐ writter	n/email \Box	verbal		no comments received
Other: Canlin Energy	Corp.				l n/a	
X letter sent	response received	writter witter	n/email \square	verbal		no comments received
Other: Fortis AB Inc.					l _{N/A}	
ĭ letter sent	response received	☐ writter	n/email \Box	verbal	X	no comments received

 Name
 0

 Address
 0

 Legal Land
 0

 Location
 0

Animal Units to Determine Affected Party Radius

Livestock	Type of Livestock	Number	Animal	Animal
		of	Unit	Units
		Animals	Factor	
Beef	Cows/Finishers (900+ lbs)		1.1	0.0
Deei	Feeders (450 - 900 lbs)	H	2	0.0
	Feeder Calves (<550 lbs)		3.6	0.0
	Other		3.0	0.0
Dairy	*Free Stall – Lactating Cows with all		0.5	
Daliy	associated dries, heifers, and calves	_	0.5	0.0
(*	*Free Stall – Lactating cows with Dry Cows		0.6	0.0
(*count	only	_	0.6	0.0
lactating	Free Stall – Lactating Cows only	_	0.7	0.0
cows only)	Tie Stall – Lactating cows only		0.5	0.0
	Loose Housing – Lactating cows only		0.5	0.
	Dry Cow (Solid manure)		1	0.
	Dry Cow (Liquid manure)	-	1	
	Replacements – Bred Heifers (Breeding to			0.
	Calving)	-	1.15	0.
	Replacements - Growing Heifers (350 lbs to		1.9	0.0
	breeding)	_	1.9	0.0
	Calves (< 350 lbs)	_	5	0.0
	Other		<u> </u>	
Swine	Farrow to finish *	-	0.56	0.0
		<u> </u>		0.
Liquid (*agust	Farrow to wean *	-	1.5	0.
(*count	Farrow only *	-	1.9	0.
sows only)	Feeders/Boars	-	5	0.0
	Growers/Roasters	-	8.5	0.
	Weaners	-	18.2	0.
	Other	-		0.
Swine	Farrow to finish *	-	0.56	0.0
Solid	Farrow to wean *	-	1.5	0.
(*Count	Farrow only *	-	1.9	0.
sows only)	Feeders/Boars	-	5	0.
	Growers/Roasters	-	8.5	0.
	Weaners	-	18.2	0.
	Other	-		0.
Poultry	Chicken - Breeders - Solid	-	100	0.0
,	Chicken - Layers - Liquid (includes	-	125	0.0
	associated pullets)			
	Chicken - Layers - (Belt Cage)	40,000	150	266.
	Chicken - Layers - (Deep Pit)	-	150	0.
	0111 5 11 15 11	40,000		
	Chicken - Pullets/Broilers	40.000	500	
	Chicken - Pullets/Broilers	40,000	500	80.
	Turkey - Toms/Breeders	40,000	50	80.0
	Turkey - Toms/Breeders Turkey - Hens (light)	-	50 75	80.0 0.0
	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers	-	50 75 100	80. 0. 0.
	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks	-	50 75 100 100	80. 0. 0. 0.
	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese	-	50 75 100	80. 0. 0. 0. 0.
Horoco	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese	-	50 75 100 100 50	80.0 0.0 0.0 0.0 0.0
Horses	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU		50 75 100 100 50	80.4 0.4 0.5 0.6 0.6 0.6 0.6
Horses	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese June PMU Feeders > 750 lbs		50 75 100 100 50	80.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1
Horses	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Jihar PMU Feeders > 750 lbs Foals < 750 lbs		50 75 100 100 50 1 1 3.3	80.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
Horses	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules		50 75 100 100 50 1 1 1 3.3 1	80.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
Horses	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys	-	50 75 100 100 50 1 1 3.3	80.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Jimer PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys	-	50 75 100 100 50 1 1 1 3.3 1 1.5	80.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Other Ewes/Rams	-	50 75 100 100 50 1 1 3.3 1 1.5	80.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Oilher PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Dither Ewes/Rams Ewes with lambs	-	50 75 100 100 50 1 1 3.3 1 1.5	80. 0. 0. 0. 0. 0. 0. 0. 0. 0.
	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Silver PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Silver Ewes/Rams Ewes/Rams Ewes with lambs Lambs	-	50 75 100 100 50 1 1 1 3.3 1 1.5	80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Other Ewes/Rams Ewes with lambs Lambs Feeders	-	50 75 100 100 50 1 1 3.3 1 1.5	80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Diner Ewes/Rams Ewes with lambs Lambs Feeders Diner	-	50 75 100 50 1 1 1 3.3 1 1.5 5 4 21	80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Street PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Street Ewes/Rams Ewes/Rams Lambs Lambs Feeders Meat/Milk (per Ewe)	-	50 75 100 100 50 1 1 1 3.3 1 1.5 5 4 21 10	80. 0. 0. 0. 0. 0. 0. 0. 0. 0.
Sheep	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Other Ewes/Rams Ewes with lambs Lambs Feeders Other Meat/Milk (per Ewe) Nannies/Billies	-	50 75 100 100 50 1 1 1 1 3.3 1 1.5 5 4 21 10	80. 0. 0. 0. 0. 0. 0. 0. 0. 0.
Sheep	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Street PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Street Ewes/Rams Ewes/Rams Lambs Lambs Feeders Meat/Milk (per Ewe)	-	50 75 100 100 50 1 1 1 3.3 1 1.5 5 4 21 10	80. 0. 0. 0. 0. 0. 0. 0. 0. 0.
Sheep	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Other Ewes/Rams Ewes with lambs Lambs Feeders Other Meat/Milk (per Ewe) Nannies/Billies	-	50 75 100 100 50 1 1 1 1 3.3 1 1.5 5 4 21 10	80. 0. 0. 0. 0. 0. 0. 0. 0. 0.
Sheep	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Diner Ewes/Rams Ewes with lambs Lambs Feeders Diner Meat/Milk (per Ewe) Nannies/Billies Feeders Dither		50 75 100 100 50 1 1 1 1 3.3 1 1.5 5 4 21 10	80. 0. 0. 0. 0. 0. 0. 0. 0. 0.
Sheep	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Donkeys Ewes/Rams Ewes with lambs Lambs Feeders Meat/Milk (per Ewe) Nannies/Billies Feeders		50 75 100 100 50 1 1 1 3.3 1 1.5 5 4 21 10 6 10 13	80. 0. 0. 0. 0. 0. 0. 0. 0. 0.
Sheep Goats Bison	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Other Ewes/Rams Ewes with lambs Lambs Feeders Other Meat/Milk (per Ewe) Nannies/Billies Feeders Ditter Bison		50 75 100 100 50 1 1 1 3.3 1 1.5 5 4 21 10 6 10 13	80 0 0 0 0 0 0 0
Sheep Goats Bison	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Silver PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Silver Ewes/Rams Ewes with lambs Lambs Feeders Meat/Milk (per Ewe) Nannies/Billies Feeders Silver Bison Bison Bison Ewes With Immules Feeders		50 75 100 100 50 1 1 1 3.3 1 1.5 5 4 21 10 6 10 13	80.0 0.1 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Horses Sheep Goats Bison Cervid	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Diter PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Donkeys Diter Ewes/Rams Ewes with lambs Lambs Feeders Diter Bison Division Bison Bison Division Bison Division Bison Bison Division Bison Bi		50 75 100 100 50 1 1 1 3.3 1 1.5 5 4 21 10 6 10 13	80. 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0
Sheep Goats Bison Cervid	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Striber Ewes/Rams Ewes with lambs Lambs Feeders Ditter Meat/Milk (per Ewe) Nannies/Billies Feeders Ditter Bison Ditter Elk Deer		50 75 100 100 50 1 1 1 3.3 1 1.5 5 4 21 10 6 10 13 13 1 1.5	80.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep Goats Bison	Turkey - Toms/Breeders Turkey - Hens (light) Turkey - Broilers Ducks Geese Diter PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Donkeys Diter Ewes/Rams Ewes with lambs Lambs Feeders Diter Bison Division Bison Bison Division Bison Division Bison Bison Division Bison Bi		50 75 100 100 50 1 1 1 3.3 1 1.5 5 4 21 10 6 10 13	80. 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0

Total Animal Units 346.7

Affected Party Radius 0.5 miles

Affected Party radius is measured from the boundary of the parcel of land where the cfo is located to land that is within the affected party radius.



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 -

	crete liner				isto, a storage racingos
comp conc	plete a copy of this section for I crete liner)	EACH barn, feedlot, and stor	age facility for so	lid manure, c	omposting materials, or compost wi
acilit	ty description / name (as in	dicated on site plan) 1.	Layer.	Barn	+ manure room
		2.	Layer.	Barn	+ manure room
1anui	re storage capacity				(see page 1)
	Length (m)	Width (m)	Depth below gr bottom of the	ade to the liner (m)	NRCB USE ONLY Estimated storage capacity (m³)
1.	376′ (114.6m)	120 (36.6m)	0		
2.	235 (71.6m)	80 (24.4m)	0		
			TOTA	AL CAPACITY	
	ibe the run-on and runoff cont Under Roof	troi system			
	protection ribe how the physical integrity	of the liner will be maintaine	d		
			NRCB	USE ONLY	
					equirements met: 🗡 YES 🗌 NO
Last up	pdated: 31 Mar 2020		X-24-14		Page of
		NRCB L	ISE ONLY		



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

oncrete liner details				
Concrete thickness	Method of su	ulphate protection:		
6"	Type 50 Concrete reinforcement size and spacing			
Concrete strength				
25				
	10 m	m × 16 imeh oc		
Concrete requirements can be found in Technical Guideline Guideline minimums:	Agdex 096-93	NRCB USE ONLY		
Solid manure: 25MPa (D) Solid manure (wet): 30MPa (C)		Requirements met: X YES NO		
Method of sulphate protection:		Condition required: 🔼 YES 🗌 NO		
ype 50 or Type 10 with fly ash or equivalent		Report attached: YES X NO		
dditional information <i>(attach as required)</i>				
NRCB USE ONLY				
Nine month manure storage volume requirements met	Type X	YES With STMS NO		
The second requirements met L	111.5	YES With STMS UNO		
epth to water table: > 1 m below ground	Rec	quirements met: X YES NO		
Depth to Uppermost groundwater resource: > 100m be				
Pepth to Uppermost groundwater resource: > 100m be				
RST completed: 🛚 see ERST page for details				
RST completed: 🛚 see ERST page for details				
RST completed: See ERST page for details	low ground Rec	guirements met: K YES NO		
RST completed: See ERST page for details	low ground Rec			
RST completed: See ERST page for details urface water control systems	low ground Rec	juirements met: K YES NO		
RST completed: See ERST page for details urface water control systems	low ground Rec	juirements met: K YES NO		
RST completed: See ERST page for details urface water control systems	low ground Rec	juirements met: K YES NO		
RST completed: See ERST page for details	low ground Rec	juirements met: K YES NO		
RST completed: See ERST page for details urface water control systems equirements met: YES NO Details/comments:	No runoff exp	ected. Fully under roof		
RST completed: See ERST page for details urface water control systems equirements met: YES NO Details/comments:	No runoff exp	ected. Fully under roof		
RST completed: See ERST page for details urface water control systems equirements met: YES NO Details/comments:	No runoff exp	ected. Fully under roof		
RST completed: See ERST page for details Furface water control systems equirements met: YES NO Details/comments:	No runoff exp	ected. Fully under roof		
See ERST page for details Furface water control systems equirements met: YES NO Details/comments: oncrete liner details Condition will be attached requiring process.	No runoff exp	pected. Fully under roof oncrete specs have been met.		
urface water control systems equirements met: X YES NO Details/comments: oncrete liner details Condition will be attached requiring process.	No runoff exp	pected. Fully under roof oncrete specs have been met.		
RST completed: See ERST page for details urface water control systems equirements met: YES NO Details/comments:	No runoff exp	pected. Fully under roof oncrete specs have been met.		
urface water control systems equirements met: X YES NO Details/comments: oncrete liner details Condition will be attached requiring process.	No runoff exp	pected. Fully under roof oncrete specs have been met.		
urface water control systems equirements met: X YES NO Details/comments: oncrete liner details Condition will be attached requiring process.	No runoff exp	pected. Fully under roof oncrete specs have been met.		

NRCB USE ONLY

