

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	tion Authorization	LA25008	SW 3-	11-20 W4M	
☐ Amendment					
APPLICATION DISCLO	SURE				
	formation and Protection of	icultural Operation Practices Act Privacy Act. This information is			
any construction prior to ob	taining an NRCB permit is	s an offence and is subject to	enforcement a	action, including	
, the applicant, or applicant's a rovided in this application is tr		stand the statements above, and edge.	d Lacknowledge	that the Information	
July 14, 2025					
ate of signing		Signature			
Kolk Farms Ltd		Brad Deleeuw			
Corporate name (if applicable)		Print name			
SENERAL INFORMATION	PENLITPEMENTS				
		peration facilities and their dime	nsions. Indicate	whether any of the	
proposed facilities are addition	ns to existing facilities. (atta	ch additional pages if needed)		200 Enter 2004	
Proposed facilities				mensions (m) , width, and depth)	
Expand "500" row				62m x 55m	
Construct "600" row			6	65m x 375m	
Construct "700/800" row			130m x 375m		
Expand east catch basin			731	m x 60m x 2m	
Solid manure storage			250m x 120n		
Existing facilities: list ALL e	xisting confined feeding ope	eration facilities and their dimen	sions		
Existing facilities		Dimension (length, width,	The second second	NRCB USE ONLY	
receiving row		145m x	50m		
100/200 row		110m x 4	436m		
300/400 row		123m x 4	436m		



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Existing facilities continued	Dimensions (m) (length, width, and depth)	NRCB USE ONLY
500 row	62m x 436m	
South west catch basin	41m x 143m x 2m	
East catch basin (Synthetic liner)	73m x 73m 2m	
Decommission north catch basin	102 x 40m x 2m	



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			hen. 🛮 N/
O comment: Kolk Farms also proposed to decommi	ssion Catch Basin North (see previous page).	
	44/20/2020		
nstruction completion date for proposed facilit	11/30/2026 ies		
ditional information			
ivestock numbers: Complete only if livestock numb	pers are different from wha	at was identified in the Part 1 ap	pplication. Note:
vestock numbers increase in your Part 2 application, riority for minimum distance separation (MDS).	a new Part 1 application in	nust be submitted which may re	esuit in a loss of
Livestock category and type		42.1 (2.1 (4.2 (3.2 (3.2 (3.2 (3.2 (3.2 (3.2 (3.2 (3	
(Available in the Schedule 2 of the Part 2 Matters	A Company of the Comp	Proposed increase or	
	Permitted number	Proposed increase or decrease in number	Total
Regulation)	Permitted number		Total
	Permitted number	decrease in number	Total
Regulation)		decrease in number (if applicable)	Total
		decrease in number (if applicable)	Total
Regulation)		decrease in number (if applicable)	Total
Regulation)		decrease in number (if applicable)	Total
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Regulation)		decrease in number (if applicable)	Total
Regulation)		decrease in number (if applicable)	Total



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DECLARATION AND ACKNOWLEDGMENT OF APPLICANT CONCERNING WATER ACT LICENCE

issued by Alberta Environment and Protected Areas (EPA) for a confined feeding operation (CFO)

Date and sign one of the following four options

OPTION 1: Applyin	g through the NRCB fo	r both the AOPA permit and the Water Act licence
I DO want my w	ater licence application c	oupled to my AOPA permit application.
Signed thisday of	. 20	Signature of Applicant or Agent
OPTION 2: Process	sing the AOPA permit a	nd <i>Water Act</i> licence separately
development or 2. I (we) request the CFO's application 3. In making this results in NRCB's decision water licence un 4. I (we) acknowled AOPA permit in the whether to grant in the water Act licence with a Water Act lic	activity proposed in this anat the NRCB process the for a water licence. equest, I (we) recognize will not be considered by der the Water Act. dge that any construction the absence of a Water Act the Water Act licence application is denie Water Act. This risk inclusion, or to remove "works I (we) acknowledge that ant to the Bow, Oldman as	AOPA application independently of EPA's processing of the that, if this AOPA application is granted by the NRCB, the EPA as improving or enhancing the CFO's eligibility for a or actions to populate the CFO with livestock pursuant to an act licence will not be relevant to EPA's consideration of application. In action or livestock populating will be at the CFO's sole risk if a or if the operation of the CFO is otherwise deemed to be in the des being required to depopulate the CFO and/or to cease or "or "undertakings" (as defined in the <i>Water Act</i>). The CFO is located in the South Saskatchewan River Basin and South Saskatchewan River Basin Water Allocation Order ontly closed to new surface water allocations.
	f, 20_	
	,	Signature of Applicant or Agent
I (we) declare the development or	activity proposed in this	a new licence from EPA under the <i>Water Act</i> for the
Signed this ²⁰ day	, of May , 202	Signed digitally by Brad Deleeuw
J		Signature of Applicant or Agent



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

- 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*).

/. Provide: V	vater license number(s) c	r water conveyanc	ce agreement details
Signed this	day of	. 20	
	_ aay o		Signature of Applicant or Agent





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

				LY			
Neighbour name(s)	Legal land description	Distance (m)	Zoning (LUB) category	MDS category (1-4)	Distance (m)	Waiver attached (if required)	Meets regulations
Klassen	SE 4-11-20	207					
Stronks	NW 34-10-20	385					
Iwamoto	NE-4-11-20	793					
Klingenberg	NE 32-10-20	915					
Van Diemen	SW 4-11-20	1001					

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

				NRCB USE ONLY		
Name of land owner(s)*	Legal land description	Usable area** (ha)	Soil zone ***	Usable area (ha)	Agreement attached (if required)	
Kolk Farms Ltd	Sec 10-12-20 W4	174	Irrigated			
Kolk Farms Ltd	South 17-12-20 W4	130	Irrigated			
Kolk Farms Ltd	Sec 15-12-20	125	Irrigated			
Kolk Farms Ltd	North 1/2 -9-12-20 W4	100	Irrigated			
Kolk Farms Ltd	South 1/2 -16-12-20 W4	38	Irrigated			
			Total			

st 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



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GENERAL ENVIRONMENTAL INFORMATION

groundwater resource/aquifer you

draw water from?

(complete this section for the worst case of the existing facility which is the closest to water bodies or water wells and for each of the proposed facilities) Facility description / name (as indicated on site plan)

Existing	Existing: K3 Feedlot			Propose	d 1: K3 Pens		
Proposed 2:				Proposed 3:			
Facility and environmental risk			Faci	lities		NRC	B USE ONLY
rucii	information	Existing	Proposed 1	Proposed 2	Proposed 3	Meets requirements	Comments
Flood plain information	What is the elevation of the floor of the lowest manure storage or collection facility above the 1:25 year flood plain or the highest known flood level?	□ >1 m ■ ≤1 m	■ >1 m □ ≤1 m	□ >1 m □ ≤1 m	□ > 1 m □ ≤ 1 m	☐ YES ☐ NO ☐ YES with exemption	
	How many springs are within 100 m of the manure storage facility or manure collection area?	0	0			☐ YES ☐ NO ☐ YES with exemption	
Surface water information	How many water wells are within 100 m of the manure storage facility or manure collection area?	0	0			☐ YES ☐ NO ☐ YES with exemption	
S :	What is the shortest distance from the manure collection or storage facility to a surface water body? (e.g., lake, creek, slough, seasonal)	172	60			☐ YES ☐ NO ☐ YES with exemption	
oundwater	What is the depth to the water table?	4	15			☐ YES ☐ NO ☐ YES with exemption	
uno mo	What is the depth to the	1000	100			☐ YES ☐ NO	

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

YES with

exemption



P.O. Box 130 Iron Springs, AB T0K 1G0 Business: (403) 738-4596

E-mail:



Application LA25008 Page 9 of 26

January 14, 2025

Attn: Natural Resources Conservation Board

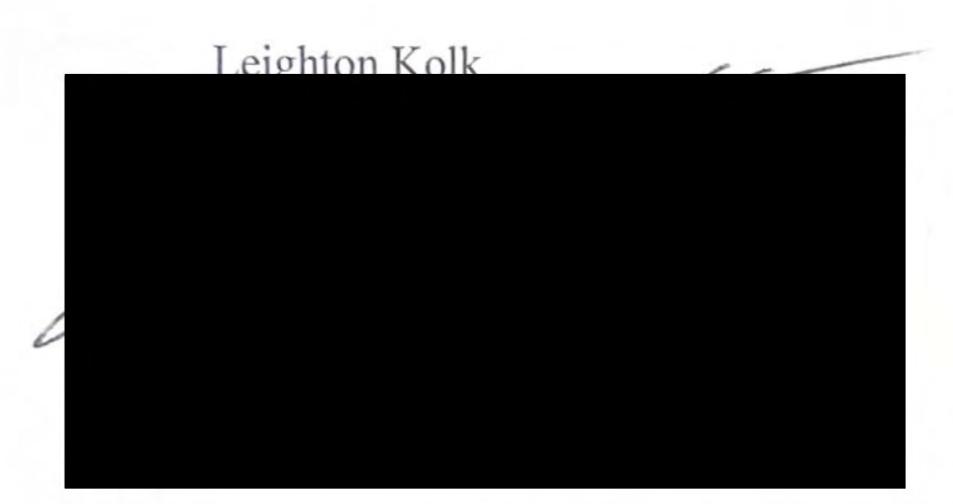
Consent for permit application

Dear: To Whom It May Concern

I <u>Leighton Kolk</u> of Kolk Farms Ltd at Box 130 at Iron Springs Alberta give my consent to *Brad Deleeuw* to represent Kolk Farms throughout this application process. This letter serves as my formal agreement and acknowledgement for the stated purpose.

Please feel free to contact me if you require further information.

Sincerely,



Minimum Distance Separation (MDS) Waiver (declaration)

Applic	ant information	NRCB application number: LA25008
Operat	or/operation name: Kolk Farms Lt	d
Addres	Box 130 Iron Springs AB	Postal Code: T0K 1G0
Legal I	and location of confined feeding ope	ration: SW-3-11-20-W4
I have (MDS) above. applica	requested the residence owner(s) na to their residence for the Agricultura In making this request, I have providual ation and a copy of the Natural Resou	med below to waive the required minimum distance separation of Operation Practices Act (AOPA) permit application identified led the owner(s) with an opportunity to review my permit arces Conservation Board (NRCB) Fact Sheet "Minimum Distance NRCB website at www.nrcb.ca. I have also explained:
ha	ve advised the owner(s) that section	3 of the Standards and Administration Regulation of AOPA. I 3(6)(a) of the Standards and Administration Regulation allows mers of residences, if they agree in writing to grant a waiver;
• Th	at my proposed development does n	ot meet the required MDS to the owner's residence; and,
ma	at this waiver applies only to this app nure production, level of odour produces rease the MDS would require a new	lication as described. An increase in livestock capacity, annual action, change to the site plan or change to a facility that would waiver.
Followi	ing is a summary of the proposed de	velopment:
live	e current scope of my confined feedi estock, if any, is: 500 beef finishers	ng operation (CFO), including the type, number, and category of
typ	application for a new AOPA permit permit permit permit permit and or capacity at my CFO: Iditional 5500 beef finishers (150	proposes the following changes to the existing livestock category,
ma	inure storage volume and any other	changes to the existing CFO facilities, including manure storage, pertinent details, if any, are (attach a site layout plan if available): ch pond to collect 5000m3 or more.
Si	te plan attched	
reside Permit	Applicant: Leighton Signature	aiver is not valid unless ALL registered owners of the kolk Date: June 28,2025
Reside	ence owner(s) to initial:	

Minimum Distance Separation (MDS) Waiver (declaration)

Residence owner(s) information
ALL Names on land title: Stronks Feed lot L+D.
Legal land location of residence(s): NW - 33 - 10 - 20 w 4
Telephone number(s) ¹ Email address(es) ¹ : _
Address(es)¹ and Postal code(s)¹; _
Please note that personal contact information is for NRCB use ONLY and not publicly released
I am/we are the legal landowner(s) of a residence(s) located at the above noted legal land location/address:
I/we have read the NRCB Fact Sheet "Minimum Distance Separation (MDS) Waivers";
 I/we have discussed this application with the applicant and understand its potential impacts to our residence(s);
 I/we understand that the application does not meet the MDS requirement to my/our residence(s), under the Agricultural Operation Practices Act (AOPA);
 I/we understand that this waiver is not valid unless signed by ALL parties identified on the land title as owners;
I/we are not obligated to waive the MDS requirement to our residence(s);
I/we understand that if I/we choose to waive the MDS requirement, I/we can revoke the waiver, by providing written notice to the NRCB approval officer, as set out in the "Minimum Distance Separation (MDS) Waivers" Fact Sheet; and
I/we understand that this waiver is a public document.
Having considered my/our rights, I/we hereby waive the MDS requirement to my/our residence, with respect to
Application number LA25008
Ed Stronks
Signatures of all residence owner(s) on title
Printed names of all residence owner(s) on title
Date: 9pril 29 2024





P.O. Box 130 Iron Springs, AB TOK 1G0 Business: (403) 738-4596





Manure Supply Agreement

This is to confirm that Kolk Farms Ltd—the "Seller" has entered into a feedlot manure supply agreement with <u>Jordan Kolk</u>, the "Buyer".

The buyer agrees to take an average of +-5000mt of Feedlot Manure from Kolk Farms Ltd annually for the next 10 years. Manure will be applied on the cropland described in the table below.

Owner	Legal land description	Acres	Irrigated/Dryland
Jordan Kolk	SW 14-11-20 W4	155	Irritated
Jordan Kolk	NW 14-11-20 W4	155	Irrigated

Signed at	Springs	on this <u>1</u> 2	_day of February	2025
Seller Leig	elitan KdK si	ignature		
Buyer Jordon	tolk si	ignature		



Manure Supply Agreement

This is to confirm that Kolk Farms Ltd – the "Seller" has entered into a feedlot manure supply agreement with <u>Delbert Vossebelt</u>, the "Buyer".

The buyer agrees to take an average of +-4000mt of Feedlot Manure from Kolk Farms Ltd annually for the next 10 years. Manure will be applied on the cropland described in the table below.

Owner	Legal land description	Acres	Irrigated/Dryland
Delbert Vossebelt	SW 11-11-20 W4	155	Irritated
Delbert Vossebelt	NW 11-11-20 W4	155	Irrigated
			41 11

Signed at <u>Chin</u> , Alberta	on this 12 day of February , 2025
Seller	Signature Signature
Delbert Vossebelt Buyer	Signature Signature



KOLK FARMS LTD. **BOX 130** IRON SPRINGS, AB TOK 1G0

Total Acre Feet: 116.0

File No.:

22877

PLEASE PAY ON INVOICE

2821 - 18th Avenue North Lethbridge, AB T1H 6T5 Phone: (403)327-3302 Fax: (403)320-2457

WATER AGREEMENT INVOICE

May 31, 2024

Invoice No.: 2024C120110340SW

ACCO	UNT#		CUSTO	MER NU	JMBEF	?
			LEGAL	DESCRI	PTION	
Pressure	Irrig Unit	Range 20	Township 11	Section 03	Parcel 40	Quarter SW
Land Loca	tion: SW 0	3-11-20	-4			

AGREEMENT	QUANTITY	UNIT	RATE	AMOUNT
Water Conveyance - Type 1	116.0	ACRE FEET		

Subtotal Before Taxes

GST #: R124072513

GST Total

Credit

2024 WATER SEASON

Amount Due Dec 31, 2024

Assessments not paid before the 1st of January following the year in which they are levied are subject to a penalty of 8% on that date and additional penalties of 8% on the amount unpaid shall be added thereto on the 1st day of every July and January thereafter.

All Water Agreements plus Arrears must be paid by February 28 of the following year, otherwise the Agreement will be cancelled and a reinstatement fee will be assessed.

Important Notice: Irrigation District Act Section 167 (1)(e)

This is to provide you notice that the fee(s) assessed herein are in accordance with District By-Laws. You have the right to appeal the By-Laws by submitting a written notice containing the reason for the appeal to Council at Alberta Agriculture and Irrigation, Irrigation Secretariat, Room 319, Provincial Building, 200 - 5 Avenue South, Lethbridge, AB, T1J4L1, received within 30 days of the invoice date listed above

Mailed by:

KOLK FARMS LTD. **BOX 130** IRON SPRINGS, AB TOK 1G0

Payment Slip

Please return this slip with your payment; cheques can be made payable to Lethbridge Northern Irrigation District.

Customer No.

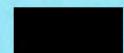
Invoice Date: May 31, 2024

LETHBRIDGE NORTHERN IRRIGATION DISTRICT

2821 - 18th Avenue North Lethbridge, AB T1H 6T5

Amount Due Dec 31, 2024





Amount Paid \$



KOLK FARMS LTD. BOX 130 IRON SPRINGS, AB T0K 1G0

Total Acre Feet: 13.0

2821 - 18th Avenue North Lethbridge, AB T1H 6T5 Phone: (403)327-3302 Fax: (403)320-2457

WATER AGREEMENT INVOICE

May 31, 2024

Invoice No.: 2024C320110341SW

ACCO	UNT#		CUSTO	MER N	JMBEF	3
			LEGAL	DESCR	IPTION	
Pressure	Irrig Unit	Range 20	Township 11	Section 03	Parcel 41	Quarter SW
LandLoca	tion: SW 0	3-11-20)-4			

AGREEMENT	QUANTITY	UNIT	RATE	AMOUNT
Water Conveyance - Type 3	1.0	3 ACRE FEET		
Water Conveyance - Type 3	10.0	ACRE FEET		

FLAT RATE FOR FIRST 3 ACRE FEET

PLEASE PAY ON INVOICE

Subtotal Before Taxes

GST #: R124072513

GST

Total

Credit

2024 WATER SEASON

Amount Due Dec 31, 2024

Assessments not paid before the 1st of January following the year in which they are levied are subject to a penalty of 8% on that date and additional penalties of 8% on the amount unpaid shall be added thereto on the 1st day of every July and January thereafter.

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Mailed by:

KOLK FARMS LTD. BOX 130 IRON SPRINGS, AB T0K 1G0

Customer No.

Invoice Date: May 31, 2024

LETHBRIDGE NORTHERN IRRIGATION DISTRICT 2821 - 18th Avenue North

Lethbridge, AB T1H 6T5

Payment Slip

Please return this slip with your payment; cheques can be made payable to **Lethbridge Northern Irrigation District**.

Amount Due Dec 31, 2024





Amount Paid \$



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	0.910	0.446	15,000	6,688.5
	Feeders (450 - 900 lbs)	0.700	0.700	0.500	0.245		-
	Feeder Calves (<550 lbs)	0.700	0.700	0.275	0.135		-
D-i	*Free Stall – Lactating Cows with all	0.000	4.400	0.000	4.700		-
Dairy	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	only	0.000					
cows 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) Dry Cow (Liquid manure)	0.800	0.700	1.000	0.560		
	Replacements – Bred Heifers (Breeding to	0.800	0.700	0.875	0.490		
	Calving)	0.000	0.700	0.073	0.430		
	Replacements - Growing Heifers (350 lbs to breeding)	0.800	0.700	0.525	0.294		-
	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 Weaners	2.000 2.000	1.100 1.100	0.118 0.055	0.260 0.121		-
	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		<u> </u>
Poultry	Chicken - Breeders - Solid	1.000	0.700	0.010	0.007		
1 Guilly	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		
	Chicken - Layers - (Deep Pit)	2.000	0.700	0.008	0.011		
	Chicken - Pullets/Broilers	1.000	0.700	0.002	0.001		
	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 Other	1.000	0.700	0.020	0.014		
Horses	PMU	0.650	0.700	1.000	0.455		
1101363	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		-
	Donkeys	0.600	0.700	0.670	0.281		-
	Other						-
Sheep	Ewes/Rams	0.600	0.700	0.200	0.084		
	Ewes with lambs	0.600	0.700	0.250	0.105		-
	Lambs Feeders	0.600 0.600	0.700 0.700	0.050 0.100	0.021 0.042		
	Other	0.000	0.700	0.100	0.042		
Goats	Meat/Milk (per Ewe)	0.700	0.700	0.170	0.083		-
	Nannies/Billies	0.700	0.700	0.140	0.069		-
	Feeders	0.700	0.700	0.077	0.038		-
	Other						-
Bison	Bison	0.600	0.700	1.000	0.420		-
0	Other	0.000	0.700	0.000	0.050		-
Cervid	Elk Deer	0.600 0.600	0.700 0.700	0.600	0.252 0.084		-
	Other	0.000	0.700	0.200	0.004		
	01.10		0.000	0.140	0.224		
Wild Boar	Feeders	2.000	0.8001				
Wild Boar	Feeders Sow (farrowing)	2.000 2.000	0.800	0.140	0.594		

6,688.5 Total

For New Operations Dispersion Factor

Distance et Metres Odour Objective 41.04 54.72 68.4 109.44 Feet 3,353 4,471 5,588 8,941

For Expanding Operations Dispersion Factor Expansion Factor

1 0.77

		Dista	ance
Category	Odour Objective	Feet	Metres
1	41.04	2,582	787
2	54.72	3,442	1,049
3	68.40	4,303	1,312
4	109.44	6,885	2,099

Name Address Legal Land Location 0 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)	15000	1875	1560	1170	930
	Feeders (450 - 900 lbs)	0	0	0	0	C
	Feeder Calves (<550 lbs)	0	-	-	-	-
	Other	0	_			
Dairy	*Free Stall – Lactating Cows with all associated dries, heifers, and calves	0	0	0	0	C
(*count	*Free Stall – Lactating cows with Dry Cows	0	_	-	-	
(*count lactating	only	0	-	-	-	-
cows only)	Free Stall – Lactating Cows only	0	-	-	-	-
00110 0111,7	Tie Stall - Lactating cows only	0	-	-	0	(
	Loose Housing - Lactating cows only	0	-	-	-	-
	Dry Cow (Solid manure)	0	-	-	-	-
	Dry Cow (Liquid manure)	0	-	-	-	-
	Replacements – Bred Heifers (Breeding to Calving)	0	-	-	-	-
	Replacements - Growing Heifers (350 lbs to breeding)	0	-	-	-	-
	Calves (< 350 lbs)	0	-	-	-	-
	Other	0	1			
Swine	Farrow to finish *	0		0	-	-
Liquid	Farrow to wean *	0	-	-	-	-
(*count	Farrow only *	0	- 1		-]	-
sows only)	Feeders/Boars	0	-	0	0	C
	Growers/Roasters	0	-	-	-	-
	Weaners	0	-	-	-	-
	Other	0				
Swine	Farrow to finish *	0	-	-	-	-
Solid (*Count	Farrow to wean *	0	-	-	-	<u>-</u> -
sows only)	Farrow only * Feeders/Boars	0	-	-	-	
30W3 Offiy)	Growers/Roasters	0		-		
	Weaners	0	_	-	-	
		0				
Poultry	Chicken - Breeders - Solid	0	-	-	-	
	Chicken - Layers - Liquid (includes associated pullets)	0	-	0	0	C
	Chicken - Layers - (Belt Cage)	0	-	-	-	-
	Chicken - Layers - (Deep Pit)	0	-	-	-	-
	Chicken - Pullets/Broilers	0	-	0	0	
	Turkey - Toms/Breeders	0	0	0	0	(
	Turkey - Hens (light) Turkey - Broilers	0	-	-	-	-
	Ducks	0	- 0	- 0	- 0	- (
	Geese	0	0	0	0	
	Other	0	U	U	U	
Horses	PMU	0	0	0	0	(
	Feeders > 750 lbs	0	- "	0	-	-
	Foals < 750 lbs	0	-	-	-	-
	Mules	0	-	-	-	
	Donkeys	0	-	-	-	-
	Other	0				
Sheep	Ewes/Rams	0	-	0	0	(
	Ewes with lambs	0	-	-	-	-
	Lambs	0	-	-	-	-
	Feeders	0	-	-	-	
Goats	Meat/Milk (per Ewe)	0	0	0	0	C
	Nannies/Billies	0	-	-	-	-
	Feeders	0				
	Other	0				
Bison	Bison	0	0	0	0	(
	Other	0			ļ	
Cervid	Elk	0	0	0	0	(
	Deer	0	0	0	0	(
Wild D	Other Feeders	0		_		
Wild Boar		0	 -	0	0	(
	Sow (farrowing)	0		-	-	-
	Other	U	1			

Total Hectares	1875.0	1560.0	1170.0	930.0
Total Acres	4633.1	3854.8	2891 1	2298 0

 Name
 0

 Address
 0

 Legal Land
 0

 Location
 0

Animal Units to Determine Affected Party Radius

	nits to Determine Affected Par			
Category of	Type of Livestock	Number	Animal	Animal
Livestock		of	Unit	Units
		Animals	Factor	
Beef	Cows/Finishers (900+ lbs)	15,000	1.1	13636.4
200.	Feeders (450 - 900 lbs)	-	2	0.0
	Feeder Calves (<550 lbs)		3.6	0.0
	Other		3.0	
Daim		-	0.5	0.0
Dairy	*Free Stall – Lactating Cows with all associated dries, heifers, and calves	-	0.5	0.0
(*count	*Free Stall – Lactating cows with Dry Cows	-	0.6	0.0
lactating	only			
cows only)	Free Stall - Lactating Cows only	-	0.7	0.0
	Tie Stall – Lactating cows only	-	0.5	0.0
	Loose Housing - Lactating cows only	-	0.5	0.0
	Dry Cow (Solid manure)	-	1	0.0
	Dry Cow (Liquid manure)	-	1	0.0
	Replacements - Bred Heifers (Breeding to	_	1.15	0.0
	Calving)	_	1.15	0.0
	Replacements - Growing Heifers (350 lbs to		1.9	0.0
	breeding)	-	1.9	0.0
			-	0.0
	Calves (< 350 lbs)	-	5	0.0
	Other			0.0
Swine	Farrow to finish *	-	0.56	0.0
Liquid	Farrow to wean *	-	1.5	0.0
(*count	Farrow only *	-	1.9	0.0
sows only)	Feeders/Boars	-	5	0.0
00110 01119)	Growers/Roasters	_	8.5	0.0
	Weaners	-	18.2	0.0
			10.2	
	Other			0.0
Swine	Farrow to finish *	-	0.56	0.0
Solid	Farrow to wean *	-	1.5	0.0
(*Count	Farrow only *	-	1.9	0.0
sows only)	Feeders/Boars	-	5	0.0
,,	Growers/Roasters	-	8.5	0.0
	Weaners	_	18.2	0.0
		_	10.2	
D 1	Other		400	0.0
Poultry	Chicken - Breeders - Solid	-	100	0.0
	Chicken - Layers - Liquid (includes	-	125	0.0
	associated pullets)			
	Chicken - Layers - (Belt Cage)	-	150	0.0
	Chicken - Layers - (Deep Pit)	-	150	0.0
	Chicken - Pullets/Broilers	-	500	0.0
	Turkey - Toms/Breeders	-	50	0.0
	Turkey - Hens (light)	_	75	0.0
	Turkey - Broilers			
		-	100	0.0
	Ducks	-	100	0.0
	Geese	-		0.0 0.0 0.0
	Geese Other	- - -	100 50	0.0 0.0 0.0 0.0
Horses	Geese	- - -	100	0.0 0.0 0.0
Horses	Geese Other PMU	- - - -	100 50	0.0 0.0 0.0 0.0
Horses	Geese Other PMU Feeders > 750 lbs	-	100 50	0.0 0.0 0.0 0.0 0.0 0.0
Horses	Geese Ther PMU Feeders > 750 lbs Foals < 750 lbs		100 50 1 1 3.3	0.0 0.0 0.0 0.0 0.0 0.0
Horses	Geese Other PMU Peeders > 750 lbs Foals < 750 lbs Mules		100 50 1 1 3.3 1	0.0 0.0 0.0 0.0 0.0 0.0 0.0
Horses	Geese Uther PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys		100 50 1 1 3.3	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Horses	Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys	-	100 50 1 1 3.3 1 1.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Horses	Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Other Ewes/Rams	-	100 50 1 1 3.3 1 1.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys	-	100 50 1 1 3.3 1 1.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Other Ewes/Rams	-	100 50 1 1 3.3 1 1.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Other Ewes/Rams Ewes with lambs Lambs	-	100 50 1 1 3.3 1 1.5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	Geese Uther PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Uther Ewes/Rams Ewes with lambs	-	100 50 1 1 3.3 1 1.5 5 4 21	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep	Geese Uther PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Diner Ewes/Rams Ewes with lambs Lambs Feeders	-	100 50 1 1 3.3 1 1.5 5 4 21	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
	Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Pher Ewes/Rams Ewes with lambs Lambs Feeders Pher Meat/Milk (per Ewe)		100 50 1 1 3.3 1 1.5 5 4 21 10	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep	Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Other Ewes/Rams Ewes/Rams Lambs Lambs Feeders Other New With Immules New Wit		100 50 1 1 3.3 1 1.5 5 4 21 10	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep	Geese sther PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Sther Ewes/Rams Ewes with lambs Lambs Feeders Sther Meat/Milk (per Ewe) Nannies/Billies Feeders		100 50 1 1 3.3 1 1.5 5 4 21 10	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep	Geese Uther PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Hear Ewes/Rams Ewes/Rams Ewes with lambs Lambs Feeders Hear/Milk (per Ewe) Nannies/Billies Feeders Uther		100 50 1 1 1 3.3 1 1.5 5 4 21 10 6 10 13	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep	Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Other Ewes/Rams Ewes/Rams Ewes with lambs Lambs Feeders Meat/Milk (per Ewe) Nannies/Billies Feeders Bison		100 50 1 1 3.3 1 1.5 5 4 21 10	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep	Geese Uther PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Hear Ewes/Rams Ewes/Rams Ewes with lambs Lambs Feeders Hear/Milk (per Ewe) Nannies/Billies Feeders Uther		100 50 1 1 1 3.3 1 1.5 5 4 21 10 6 10 13	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep Goats	Geese Sther PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Sther Ewes/Rams Ewes with lambs Lambs Feeders Stitler Meat/Milk (per Ewe) Nannies/Billies Feeders Sther Bison Sther		100 50 1 1 3.3 1 1.5 5 4 21 10 6 10 13	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep	Geese Uther 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 Uther Bison Diner Elk		100 50 1 1 1 3.3 1 1.5 5 4 21 10 6 10 13 1	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep Goats Bison	Geese Other PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Pher Ewes/Rams Ewes with lambs Lambs Feeders Wher Meat/Milk (per Ewe) Nannies/Billies Feeders Other Bison Uther Elk Deer		100 50 1 1 3.3 1 1.5 5 4 21 10 6 10 13	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep Goats Bison Cervid	Geese sther PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Sther Ewes/Rams Ewes with lambs Lambs Feeders Stimer Meat/Milk (per Ewe) Nannies/Billies Feeders Sther Bison Sther Elk Deer		100 50 1 1 3.3 1 1.5 5 4 21 10 6 10 13 1.7 5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep Goats Bison	Geese Uther 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 Ditter Elk Deer Ditter Elk Deer		100 50 1 1 1,3,3 1 1,5 4 21 10 6 10 13 1 1.7 5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
Sheep Goats Bison Cervid	Geese sther PMU Feeders > 750 lbs Foals < 750 lbs Mules Donkeys Sther Ewes/Rams Ewes with lambs Lambs Feeders Stimer Meat/Milk (per Ewe) Nannies/Billies Feeders Sther Bison Sther Elk Deer		100 50 1 1 3.3 1 1.5 5 4 21 10 6 10 13 1.7 5	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Total Animal Units 13636.4

Affected Party Radius 3 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)

	acted soil liner)		d storage facility for solid manure, c	
cility	description / name <mark>(a</mark>	s indicated on site plan)	1. K3 Pens	
			2.	
			~	
nure	storage capacity		The same and the same	india mad anno
	Length (m)	Width (m)	Depth below grade to the bottom of the liner (m)	NRCB USE ONLY Estimated storage capacity (m ³
	430	230	0	
-			TOTAL CAPACITY	
igr	e water control system be the run-on and runoff ed slope to catchbasir m3 minimum.	control system	ol run on. The current east catch	basin will be extened to contain
sign	be the run-on and runoff ed slope to catchbasir	control system	ol run on. The current east catch	basin will be extened to contain
sign 024 er p	be the run-on and runoff ed slope to catchbasir m3 minimum.	control system n, berm perimiter to contro		basin will be extened to contain
sigr 024 er p	be the run-on and runoffed slope to catchbasinm3 minimum. rotection be how the physical integ	control system n, berm perimiter to control rity of the liner will be mail		basin will be extened to contain
er p	be the run-on and runoff ed slope to catchbasir m3 minimum.	control system n, berm perimiter to control rity of the liner will be mail		basin will be extened to contain
er p	be the run-on and runoffed slope to catchbasinm3 minimum. rotection be how the physical integ	control system n, berm perimiter to control rity of the liner will be mail		basin will be extened to contain
esign 024	be the run-on and runoffed slope to catchbasinm3 minimum. rotection be how the physical integ	control system n, berm perimiter to control rity of the liner will be mail		basin will be extened to contain
esign 024	be the run-on and runoffed slope to catchbasinm3 minimum. rotection be how the physical integ	control system n, berm perimiter to control rity of the liner will be mail		basin will be extened to contain
esign 6024 eer p	be the run-on and runoffed slope to catchbasinm3 minimum. rotection be how the physical integ	control system n, berm perimiter to control rity of the liner will be mail		basin will be extened to contain
esign 6024 ner p	be the run-on and runoffed slope to catchbasinm3 minimum. rotection be how the physical integ	control system n, berm perimiter to control rity of the liner will be mail		basin will be extened to contain
esign 6024 ner p	be the run-on and runoffed slope to catchbasinm3 minimum. rotection be how the physical integ	control system n, berm perimiter to control rity of the liner will be mail		basin will be extened to contain



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 - Compacted soil liner (cont.)

tails			
0.5m(m)	Provide compacted liner de imported clay	tails (as required)	
0% sand	0% silt		0% clay
Plastic limit	Liquid limit		Plasticity index 0
Hydraulic conductivity (cm/s) 4.2E -08 cm/s Describe test standard used Permeabilty Test			
(attach copies of soil test reports	NRCB USE ONLY	•	
(utacir copies or son test reports		Requirements met: Condition required:	☐ YES ☐ NO☐ YES ☐ Y
age volume requirements met andwater resource: ERST page for details systems ES □ NO Details/comments:	Requirements m	et:	
e tails er adjustment:			
ents (e.g. compaction, moisture c	ontent, thickness):		
n required: 🔲 YES 🗎 NO 🛭 If y	es, please explain why.		
		Provide compacted liner de imported clay	Provide compacted liner details (as required) imported clay



Down To Earth Labs Inc.

The Science of Higher Yields

J. Lobbezoo Engineering + Consulting Services

Box 96
Monarch, Alberta TOL 1M0

Report #: 208008

Report Date: 2025-06-19 Received: 2025-06-17 Completed: 2025-06-19 Test Done: ST Project:

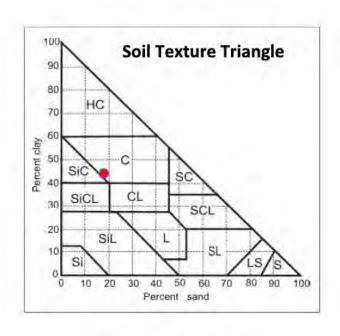
PO:

Kolk Farms

3510 6th Ave North Lethbridge, AB T1H 5C3 403-328-1133 www.downtoearthlabs.com info@downtoearthlabs.com

Sample ID:		250617O001 Coaldale
nalyte	Units	
Sand	%	18.0
Silt	%	38.0

Clay % 44.0 Soil Texture - Clay



Raygan Boyce - Chemist



Down To Earth Labs Inc.

The Science of Higher Yields

J. Lobbezoo Engineering +

Consulting Services
Box 96
Monarch, Alberta TOL 1M0

Report #: 208008

Report Date: 2025-06-19 Received: 2025-06-17 Completed: 2025-06-19

Test Done: ST

Project:

PO:

Kolk Farms

3510 6th Ave North Lethbridge, AB T1H 5C3 403-328-1133 www.downtoearthlabs.com info@downtoearthlabs.com

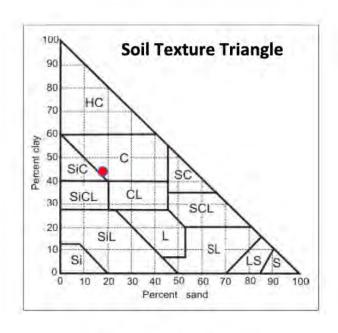
Sample ID: 250617O001
Cust. Sample ID: Coaldale
Analyte Units

 Sand
 %
 18.0

 Silt
 %
 38.0

 Clay
 %
 44.0

 Soil Texture
 Clay



Raygan Boyce - Chemist

PERMEABILITY TEST



PROJECT : OB No. :	Materials Te P25034		s - Clay Line	r Material				
OB No.:		-						
	LUUJT				3.11			
- WILLIAM I	SW-22-011-2	0-W4			SAMPLE:	-		
	Composite: Clay Liner Material (Coaldale Stockpile)				The state of the s			
	04-Jul-25			TECHNICIAN: JL				
				SAMPLE DAT				
Sample Description :		Medium Plas	stic Clay	DI MITI EL DI II				
Sample Diameter (m		101.6			Cross Section Area (cm²) 81.0			
nitial Sample Length		116.4			Initial Volume (cm		943.2	
inal Sample Length		116.4			Final Volume(cm ³		943.2	
3	(Change in Volum	e (cm³)		
	MOISTURE	DETERMINA	TION			DENSITY DETE	RMINATION	
	MOISTURE DETERMINATION Before After					DENSITY DETE	Before	After
Tare No. :			Beloic	7.11.00	Mould No.		Deloie	7 11101
Wt. Sample (wet + ta	are) (a)		154.4		Wt. Sample (wet	mould) (a)	3930.7	
Wt. Sample (dry + ta			131.6		Wt. Mould (g)		2090.4	
Wt. Tare (g)	-1 131		9.0		Wt. Sample (wet)	(a)	1840.3	
Wt. Water (g)			22.8		Volume Mould (c	m ³)	943.2	
Wt. Sample (dry) (g)			122.6		Wet Density (kg/r		1951	
Moisture Content (%	5)		18.6%		Dry Density (kg/m	13)	1645	
Joseph Content (A				MEABILITY TES		,	70.13	
			FEN		Time (sec)		Dormoski	lity (cm/s)
Date	Temp	h ₀	h ₁	Time	Elapsed Time		Initial	Average
71 50 50	23	41.0	Щ	4:00 PM	Liapseu IIIIe		iiillai	Average
June 20, 2025	23	41.0	37.9	1:00 PM	248400.0		3.03E-08	
June 23, 2025	23	41.1	37.9	1:00 PM	240400.0		3.V3E-U8	
June 23, 2025 June 25, 2025	23	41.1	40.1	11:00 PM	165600.0		1.43E-08	2.23E-08
June 25, 2025 June 25, 2025	23	41.0	40.1	11:00 AM	103000.0		1.43E-00	Z.Z3E-00
	23	41.0	40.3	2:00 PM	183600.0		8.99E-09	1.16E-08
June 27, 2025 June 27, 2025	23	40.3	40.5	2:00 PM	100000.0		0.33E-03	1.10E-08
June 27, 2025 June 30, 2025	23	40.5	39.4	4:00 PM	266400.0		8.12E-09	8.56E-09
June 30, 2025 June 30, 2025	23	39.4	35.4	4:00 PM	200400.0		0.12E-09	0.30E-U
July 2, 2025	23	33.4	38.7	3:00 PM	169200.0		1.02E-08	9.14E-09
July 2, 2023	23	-	30.7	3.00 FW	103200.0		1.02L-00	J. 14L-0.
							-	
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			200					
							7	
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							-	
				_	pofficient of Da	monhilte to	0.775.00	em lese
				C	oefficient of Pe	meability, K:	9.77E-09	ciii/sec

FORM : Permeability_4July2025

DATE: 2025-07-04



LIQUID MANURE STORAGE: Synthetic liner (complete a copy of this section for EACH proposed liquid manure storage facility with a synthetic liner) 1. East Catch basin expansion Facility description / name (as indicated on site plan) Manure storage capacity (use one row in the table for EACH cell of the synthetic lined storage, attach additional pages if you require more rows) **NRCB USE ONLY** Slope run:rise Total Calculated Length Width Depth below Inside Inside Filled in lower depth Outside storage capacity (m) (m) ground level (m) end side (m) 1/4? walls (excl. 0.5 m Y/N walls walls freeboard) (m3) 1. 73 60 2 2 2. TOTAL CAPACITY Surface water control systems Describe the run-on and runoff control system berms and surroounding grading to prevent run off run on. Sealing Describe sealing practices for piping, etc. that penetrates the liner Any piping into the liner is welded **NRCB USE ONLY** Requirements met: YES NO Liner protection Describe how the inside walls, bottom and outside walls are protected from erosion Describe how the physical integrity of the liner will be maintained from other damage NRCB USE ONLY Requirements met: YES NO



LIQUID MANURE STORAGE: Synthetic liner (cont.)

Synthetic liner details Provide synthetic liner material details 60 mil dpe	
dditional information <mark>(attach copies of design/engineering re</mark>	Requirements met: YES NO Condition required: YES NO Report attached: YES NO
NRCB USE ONLY Liquid manure storage volume calculator attached: Depth to water table: Depth to uppermost groundwater resource:	Requirements met: YES NO
ERST completed: see ERST page for details Surface water control systems Requirements met: YES NO	Details/comments:
Synthetic liner requirements Leakage detection system required:	☐ YES ☐ NO If yes, please explain why.
Construction plans approved by professional engineer: Will liner be installed by manufacturer approved contractor and Preparation of liner bed (comments):	☐ YES ☐ NO I qualified third party?: ☐ YES ☐ NO
Condition required:	