SITE ASSESSMENT

FOR LARGE LIVESTOCK OPERATION PROPOSALS (300 ANIMAL UNITS OR MORE)



1.0 Purpose

The establishment or expansion of a livestock operation that has 300 Animal Units or more is subject to Part 7 of <u>The Planning Act</u>. When such proposals are considered a conditional use by a municipal council or planning district board, approval of a conditional use permit is required. This includes a review by the Technical Review Committee (TRC) appointed by the Minister of Indigenous and Municipal Relations. The <u>Technical Review Committee Regulation</u> requires a site assessment be undertaken by the proponent to help the committee complete its review and allow the public affected by the livestock operation to comment on the proposal.

2.0 Assistance

For assistance in completing the Site Assessment Form, the following resources are available:

- Glossary of Terros for definitions
- Manitoba Agriculture for animal unit and suitable spread field acreage calculations
- Manitoba Sustainable Development for information on regulatory requirements
- Government agencies to obtain any required reports. For example, a
 Conservation Data Centre report is required as per Section 12.0 of the Site Assessment
- Contact the <u>Technical Review Coordination Unit</u> for additional help.

3.0 **Description of Livestock Operation** Operation legal name, if other than the owner's name: Canada Sheep and Lamb - Lundar Operation location (project site)¹: NW 14-19-5W, N1/2 of SW 14-19-5W, NE 15-19-5W and N1/2 of SE 15-19-5W Rural Municipality (RM): Coldwell Legal description: quarter, section, township, range, meridian or river lot(s): NW 14-19-5W, N1/2 of SW 14-19-5W, NE 15-19-5W and N1/2 of SE 15-19-5W Manitoba Premises Identification Number MB1009870 Municipal Tax Roll Number(s): 90600.000 Illustrate the location of the operation (project site) on a map. (See Location Map for example). Location Map Attached Nature of Project² 4.0 Please indicate if the proposal is for a new or expanding livestock operation. If the operation is expanding, please identify when the operation was established. ☐ New Operation Expansion of Existing Operation 2015 Date Established: Describe what is being proposed: It is proposed to expand sheep production from the current 5,000 ewes to 30,000 ewes. Associated lambs to be removed from ewes at 10 weeks.

State if any existing buildings will be re reused or expanded, state how they w	-		sting buildings	will be	
There are no buildings to be demolished, existing buildings will continue to be used as					
barn with future expansions to the s	south, and u	vest.		<u> </u>	
5.0 Current and Proposed Ty	pe and Size	of Operation	on ³		
Using the Manitoba Agriculture Animal Using the Manitoba Agriculture Animal Using animal animal units for each animal proposed operation (if applicable).					
Table 5-1: Current a	-,			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Animal Categories (Column B from Animal Units Calculator)	Current C Current Number of Animals (Column D)	Current Number of Animal Units (Column E)	Proposed Number of Animals	Proposed Number of Animal Units (Column G)	
Ewes	5,000	(Column 2)	(Column F) 30,000	(Column d)	
Rams	63		375		
Lambs	2,385		17,091		
	Total Current	833	Total Proposed	5,000	
Manitoba Agriculture Animal Units 6 6.0 Animal Confinement ⁴				nclude ewes, AU calculationsultation with MAFRD)	
Based on the nature of the proposed per Please check more than one category in Animal Confinement Facility—confined by fences or other structure include a feedlot or a grazing area. (La	means a barn s, and include	or an outdoor s a seasonal fe	area where liv	estock are	

✓ Confined Livestock Area ⁵ – means an outdoor, non-grazing area where livestock are confined by fences or other structures, and includes a feedlot, paddock, corral, exercise yard, holding area and hoop structures.				
Other (Desc	cribe what is being proposed)			
Does the operati	ion currently use a confined livestock area:			
If yes, what is the 5000 ewes	ne current capacity (livestock places and animal units)?			
protected, a pe for operations v	proposed livestock operation can be built in a way the environment is rmit is required for construction and expansion of confined livestock area(s) with 300 Animal Units or more. Permits are required by the Livestock Manure Management Regulation (M.R. 42/98), under The Environment Act.			
not required fo	the <u>Livestock Manure and Mortalities Management Regulation</u> (M.R. 42/98) is r an indoor housing area or barn unless there is a manure storage facility ling (an under barn storage capable of storing manure for 30 days or more).			
permit from the the Manitoba B Show all existing plan. See Project plan ⁶ .	ultural buildings such as barns over 600 meters (6,458 sq ft) require a building a Fire Commissioner's Office under <i>The Building and Mobile Home Act</i> and building Code. It proposed buildings and additions to existing buildings on the project site a Site Plan example and the Project Site Plan Guide for help creating your site at Plan attached			
7.0 Wate				
	ject Sites Unsuitable for Development			
The Water P facilities in N organic soils	rater quality, the <u>Nutrient Management Regulation</u> (M.R. 62/2008), under rotection Act, prohibits the construction or expansion of nutrient generating lutrient Management Zone 4 (Agriculture Capability Class 6, 7 and unimproved) and Nutrient Buffer Zones. Nutrient generating facilities include barns, estock areas and manure storage facilities.			
	uffer Zone, as defined in section 3(3) of the regulation, includes areas of rater bodies such as rivers, lakes, streams and drains.			
storage facil will be located w	d indoor housing area, barn, confined livestock area and/or manure ity: will not vithin Nutrient Management Zone 4 (Class 6, 7 and unimproved organic soils) or Buffer Zone.			

Determine the agriculture capability class(es), including their limitations, of the soils for the project site. Individuals with GIS mapping software can access information through Manitoba Land initiative (MLI) website. In addition, information from MLI can also be viewed on Google Earth. Both the download for Google Earth and the registration for MLI are free. Click here for instructions under the MLI website. 7.2 Water Source⁷ To be sustainable, a livestock operation must have access to a sufficient quantity and quality of water for livestock. Water source for operation: ☐ Pipeline (public) ☐ Water cooperative ☐ Proposed well Existing well River □ Lake ☐ Dugout - dimensions: ___x__x_ If using an existing well, provide a copy of the water well log⁸ and logs for other wells on the property. Logs can be obtained from Manitoba Sustainable Development by calling (204) 945-6959 in Winnipeg; 1-800-214-6497 toll free. 7.3 **Source Water Analysis Reports** Annual livestock source water quality monitoring reports must be submitted to Manitoba Sustainable Development for any operations of 300 Animal Units or more. Has the operation submitted an annual source water monitoring report? ☐ Yes ☐ N/A (new operation or existing operation <300 AU currently) ■ No Not previously tested, sample submitted for analysis If yes, please indicate year of last submission: Will livestock have direct access to surface water (not including dugouts)? ☐ Yes ■ No If yes, identify the name of the surface water feature:

List any steps that will be taken to prevent direct access of livestock to the water body:

Page 5 of 27

7.4 Water Requirements

Protecting the interests of domestic users and the environment, in addition to existing licensees, is the intended purpose of the water rights licensing scheme.

In order to protect the sustainability of water sources, all operations using more than 25,000 litres (5,499 imperial gallons) per day must possess a Water Rights License required by the Water Rights Legulation (MR 126/87) under The Water Rights Act.

For more information on the Water Rights Licensing process, contact the Water Use Licensing Section at (204) 945-3983 in Winnipeg; 1-800-214-6497 toll free.

Water Use9

To calculate the total water use for non-dairy operations, go to the <u>Water Requirement</u> Calculator.

For dairy operations, go to the <u>Dainy Bar</u> s	n Water Requirement Estimator.	
Maximum daily use for the operation:	129,906	(Worksheet doesn't
imperial gallons	☐ litres	allow to enter manifold
Maximum annual use for the operation:	47,415,690	
imperial gallons	☐ cubic decameters	
■ Water Requirement Calculator attac	hed	
☐ Dairy Barn Water Requirement Estin	nator attached	
	itala Baraka aktau	

7.5 Groundwater (Contamination Risk Protection)

Improper storage and handling of manure or mortalities increases the risk of contaminating groundwater. Beneficial management practices (BMP), mitigation measures and requirements for the permit process reduce this risk. Soil testing, manure management planning and proper engineering, along with construction and management of manure storage structures, reduce the risk of contaminating groundwater.

All unused or abandoned well(s) on site and spread fields should be properly sealed and a seal well report filed with the Groundwater Management Section of Manitoba Sustainable Development. Information on well sealing is available from Manitoba Sustainable Development at (204) 945-6959 or refer to the <u>technical information document</u>. It is recommended that all but the most basic wells should be sealed by a well drilling professional.

Check off the mitigation measures used for the existing components of the operation that may pose a risk of contamination. Also check off any measures that may be used with the proposed components for this expansion, if applicable:

	Existing	Proposed	Not Applicable
Manure is stored in a storage facility built by permit or is registered by Manitoba Sustainable Development			V
Storage includes leak detection system			✓
Earthen storage has between 400 and 500 days storage			V
Steel/concrete tank has between 250 and 500 days storage			√
Manure storage facility meets required setbacks			✓
Field storage (solid manure) locations are changed annually	V		
Field storage meets required setbacks	\checkmark		
All fields to receive manure are soil tested annually for nitrate-N and Olsen phosphorus	V	7	
All manure is applied according to a registered manure management plan	V		
Licensed commercial manure applicator is used to apply manure			V
Operator applies manure		V	
Abandoned wells have been properly sealed		V	
Other:			

		· · · · · · · · · · · · · · · · · · ·	

7.6 Building in Flood Areas:

The <u>Livestock Vianure and Mortalities Management Regulation</u> prohibits an operator from constructing a manure storage facility within the boundaries of the 100-year flood plain elevation. <u>Manure storage facilities</u> that are constructed with protection for a flood-water level at least 0.6 meters higher than the 100-year flood water level are exempt.

The <u>Designated Flood Area Regulation</u> under *The Water Resources Administration Act* requires a Designated Flood Area Permit before a proposed structure (such as a barn) can be built within a Designated Flood Area

The flood protection level for structures located within a Designated Flood Area is the site specific design flood level plus freeboard, as provided by the Hydraulic Forecasting Branch of Manitoba Infrastructure. Contact the Hydrologic Forecasting Branch at (204) 945-2121 in Winnipeg; 1-800-214-6497 toll free, for more information.

rne p	roposed site:
	is not
locate	ed in a Designated Flood Area: <u>Upper Red River Valley Designated Flood Area</u> or
Lowe	r Red River Designated Flood Area.
Note:	At the time of permit issuance, verification is needed to ensure any proposed structure(s) are located within the 100-year flood plain elevation; or at an elevation set by Manitoba Infrastructure.
7.7	Watershed Management Planning
stake	rated watershed management planning is a co-operative effort by local residents, holders and governments to create a long term plan to manage water and land-based ties for watersheds.
	are the names of the watershed and sub-watershed where the livestock operation and

Name of sub-watershed(s): Shoal Lakes/Delta Marsh Watershed

The West Interlake Watershed Conservation District

Name of Integrated Watershed Management Plan for the proposed project site, if applicable:

For more on Integrated Watershed Management Planning, call Watershed Planning and Programs at (204) 945-7408 in Winnipeg; 1-800-214-6497 toll free.

8.0 Manure

Name of watershed(s):

The second as a second as a second

The <u>Livestock Manure and Mortalities Management Regulation</u> (M.R. 42/98) sets requirements for the use, management and storage of livestock manure in agricultural operations, to ensure it is handled in an environmentally sound manner. For more information on this, call Manitoba Sustainable Development at (204) 945-4384 in Winnipeg.

Improper storage, handling and/or land application of manure can contaminate water and soil, as well as potentially cause unacceptable odours for neighbours. The following is used to assess the manure management system.

8.1	Manure Ty	pe	
	• •	generated and used by the opera n options available.	ation influences storage, handling
	t type(s) of ma Solid	nure will be generated?	☐ Liquid
8.2	Manure Vo	olume or Weight	
of th acco and earth conc facili Wha lives	re manure stora rdance with the construction of hen manure sto crete storage ta ty has sufficien it will be the to tock operation Liquid volume:	age is the responsibility of the ope e <u>Livestock Manure and Mortalitie</u> f a manure storage facility is dependenage facilities must have between ank must have between 250 and 50 at capacity eliminating the need for tal volume or weight of manure go?	hanagement Regulation. Design ndent on the type of structure; and 400 and 500 days capacity, a steel or 00 days capacity. This ensures the or winter application of manure.
	Manure Produ	ction Calculator attached	
8.3	Manure Stora	age Type and Capacity	
	e of storage sy or field storage		requirements for the manure storage
	peration planr g manure stora		nd a manure storage facility or use an
	Construct Expand Modify		Use existing Not applicable

What type of manure stora	ge will be used by the	operation?
Concrete tank(s) ma	anure storage	☐ Molehill manure storage
facility	r	facility
☐ Earthen manure sto		Steel tank(s) manure storage
☐ Engineered solid m facility	anure storage	facility
Field storage	·	Under-barn concrete manure storage facility
new manure, indicate the	•	e an existing manure storage facility for the mber or facility registration number:
N/A		
	the proposed operation	posed manure storage facilities that will be on or expansion. (See Existing and Proposed
If an existing manure stora proposed expansion has a sampling and reporting to	nge facility that will be u leak detection system of Manitoba Sustainable I submitted to Manitoba	y Dimensions Table attached used to store any of the manure from the (monitoring wells or sump pit), annual Development is required. Has the system Sustainable Development?
If a manure storage facility system may be required.	is proposed in a geolo	gically sensitive area, a leak detection
		age facility permit, please contact tal Approvals Branch at (204) 945-5081.
8.4 Odour Control Me	easures (project site)	
<u>-</u>	-	cant sources of livestock odours. The use of ce this, particularly for neighbours in the
What odour control measument of the storage cover:	ires are you planning to	use?
☐ Yes	□ No	Not Applicable
If yes, type of cover:		
Shelterbelt planting:	 1	
Yes	L.I No	

Other	measure (specify):
8.5	Manure Treatment
Pig ope	erations:
expan numb anoth digest treatn new o	The Environment Act, the director must not issue a permit for the modification sion, or construction of a manure storage facility accommodating an increase in the er of animal units for pigs, unless the manure is treated using anaerobic digestion of er environmentally sound treatment that is similar to, or better than, anaerobic ion, according to Manitoba Sustainable Development. Environmentally sound nent has been defined in the Hog Production Pilot project. For more information of the expanding hog operations and the requirements of the Hog Production Pilot project accontact the Manitoba Pork Council.
	the Hog Production Pilot project, in addition to existing regulatory requirements, new expanding pig operations must: Subject the manure to treatment using anaerobic digestion or mechanical or gravit separation including multi-celled manure storage structures and settling tanks; Have access to sufficient suitable land to accommodate all of the phosphoru generated by the operation; Maintain soils below 60 ppm Olsen P; and Inject or immediately incorporate pig manure on tilled land. Perennial forages, in season applications and no-till lands are excluded.
New a	nd expanding pig operations should also consider odour control practices.
	Site Assessment is for a pig operation, does your proposal meet all the criteria outline Hog Production Pilot Protocol? Yes No
	Site Assessment is for a <u>pig</u> operation, have you included a letter from the Manitoba Council under the Hog Production Pilot Protocol? Yes No
 Manu	Letter from Manitoba Pork Council attached (if applicable) ure treatment:
	anure treatment proposed for the operation?

If yes, please describe treatment process,	including intended end use of treated manure:
depending on the type of treatment or int for a license is determined by Manitoba 5	ger the requirement for an Environment Act License ended use of the treated products. The requirement Sustainable Development during their review of the modification or expansion of a manure treatment
	additional approvals may be required in advance of ers should note that no discharge or burning of
•	equire additional supporting documentation ect to the treatment facility. Please contact tion will be required.
8.6 Manure Application Method	
	nagement Regulation requires the registration of w or expanding operations with 300 Animal Units or
Does the operation currently file an annua Sustainable Development?	al Manure Mar agement Plan (MMP) with Manitoba
Yes No	□ N/A (new operation or existing operation <300 AU currently)
If yes, please indicate most recent MMP I	Registration #: 2018-511
Manure application methods and the season nutrient availability, crop response, land be contamination.	son in which manure is applied affect odour, case requirements and the risk of water
Proposed application method: Broadcast Broadcast and incorporate within 48 hours	☐ Injection

8.7 Land Available for Manure Applicat	tion		
Using the Manure Application Field Characte	<u>eristics Table p</u>	rovide the informa	tion requested.
Total land available for manure application:	5,555	acres	
Suitable Land:			
Sufficient <u>suitable</u> land must be available for that is to be land applied. Suitable land can			•
Under the Live stock Manure and Mortalities Management Regulation, application of nutr			
Class 6, 7 and unimproved organic soils (Nut	rient Manager	nent Zone 4) and w	ithin Nutrient
Buffer Zones. In addition, only fields with les			
phosphorus (P) in the top six inches (15 cent	imeters) of soi	il will be considered	i suitable.
The Nutrient Buffer Zones and manure app Nutrient Management Regulation (62/2008 Management Regulation (42/98). They have from Water Features Table.	B) and the Live:	stock Manure and I	Mortalities
Have the setback areas for all water features	s been observe	ed and excluded fro	m land base
calculations for this operation?			
Yes		0	
Total <u>suitable</u> area available for manure app	olication: 5,3	36	acres
For all suitable lands, copies of soil test repo			nths old and that

For all suitable lands, copies of <u>soil test reports</u> that are no more than 12 months old and that demonstrate that soil phosphorus levels are below 60 ppm Olsen P in the top six inches (15 centimeters) of soil must be included with this submission.

Manure Application Field Characteristics Table attached

Soil test reports for the required land base for manure application attached

8.8 Land Required for Manure Application

Long term land base requirements for manure application are calculated based on estimates of the quantity of nutrients (nitrogen and phosphorus) excreted by livestock and the utilization or removal of nutrients by the proposed crops.

The quantity of nitrogen and phosphorus excreted by the livestock depends on the type, number and size of livestock, the quantity and availability of nitrogen and phosphorus fed to the livestock, the amount retained by the livestock and the amount contained in milk and eggs.

The utilization of nitrogen and removal of phosphorus by crops depends on the crops grown and the historical crop yield averages. (See <u>Crop Rotation Table</u>).

"Certain Areas":

The <u>Livestock Manure and Mortalities Management Regulation</u> requires the proponent demonstrate sufficient land is available, to the satisfaction of the director, in order to implement an appropriate manure management plan before Manitoba Sustainable Development will issue a permit for a manure storage facility or confined livestock area. Sufficient suitable land must be available for the manure nitrogen and phosphorus that will land applied.

"Certain Areas" are defined by the Livestock Manure and Mortalines Management Regulation (M.R. 42/98) as areas where the amount of phosphorus in the manure produced annually by livestock in an area of not less than 93.24 km² is greater than two times the annual crop removal rate of P_2O_5 in that area.

In "certain areas" it is Manitoba Sustainable Development's policy to consider a manure storage facility permit if the operation can demonstrate it has access to sufficient suitable land, within a reasonable distance¹⁰, to apply manure at a rate equivalent to one times the crop removal rate of phosphorus. In areas which are not considered to be "certain areas", Manitoba Sustainable Development may consider a manure storage facility or confined area permit, subject to all applicable legislation, if the operation demonstrates it has access to sufficient suitable land to apply manure at a rate equivalent to two times the crop removal rate of phosphorus.

Currently the rural municipalities of Hanover and La Broquerie are considered to be "certain areas". A livestock operation is considered to be located within a "certain area" if any part of the operation is located within the defined area. This may include, but not limited to, barn(s), confined livestock area(s), field storage location(s), manure storage facility(ies), and/or spread field(s).

Is the livestock operation	located in "certain areas"	(i.e. Hanover or La Broquerie)?
☐ Yes		■ No

Land Base Requirement Calculation:

It is recommended that proponents use Manitoba Agriculture's Land Base Calculator to calculate the minimum area required for manure application and contact Manitoba Agriculture at (204) 945-3869 in Winnipeg for assistance with the land base calculator prior to submitting their site assessments.

Table 8-1: Land Base Requirements

Total acres required for crop utilization of the manure N ^a	5,299	acres
Total acres required for two times crop P ₂ O ₅ removal ^a	5,307	acres
Total acres required for one times crop P ₂ O ₅ removal ^{b,c}		acres
	10,613	

^aAll operations must demonstrate sufficient suitable land for crop N utilization and two times crop P_2O_5 .

^bDue to high livestock density and reduced land availability for manure application, all livestock operations proposed in "certain areas" (i.e. Hanover and La Broquerie) must demonstrate

c Ur	ficient suitable land to balance phosphorus over the long-term (one times crop P_2O_5). Index the Hog Production Pilot Project, pig operations must also demonstrate enough land to ance phosphorus over the long-term (one times crop P_2O_5).
	Crop Rotation Table attached
	Manitoba Agriculture's Land Base Calculator attached
8.9	Land Base Requirement Summary
•	nparing the total suitable land available for manure application with the land required for read application, state whether sufficient suitable land for manure application:

☐ has not been identified

has been identified to meet nitrogen utilization

has been identified for two times the crop removal rate of phosphorus

has been identified for one times the crop removal rate of phosphorus (for pigoperations and operations in "certain areas" [i.e. Hanover and La Broquerie])

8.10 Long-Term Environmental Sustainability

The Government of Manitoba has included phosphorus as a nutrient by which applications of manure, synthetic fertilizer and municipal waste sludge to agricultural lands may be limited.

Over the short-term for fields with low phosphorus, regulations allow manure to be applied to meet the nitrogen requirements of the crop. This often results in over-application of phosphorus and a build-up of phosphorus in soils. When soil test phosphorus levels reach 60 ppm Olsen P, manure application rates must consider how much phosphorus will be removed in the harvested portion of the crop. At 60 ppm, but less than 120 ppm Olsen P, the amount of phosphorus that can be applied cannot exceed twice (two times) what the crop can remove in order to slow the build-up of soil phosphorus. Once soil test phosphorus levels reach 120 ppm Olsen P, applications of phosphorus are restricted to no more than what the crop can remove (one times) in order to stop further soil test phosphorus build-up. At 180 ppm Olsen P, no additional phosphorus may be applied.

It should be noted that soil-test phosphorus levels of 60 ppm Olsen P or greater are agronomically very high and at these levels most crops will not benefit from additional phosphorus beyond starter phosphorus. As phosphorus levels build up in soils, the concentration of phosphorus in runoff to waterways increases.

Therefore, to remain environmentally sustainable over a long-term planning horizon of 25 years or more, phosphorus applications from applied manure and other nutrient sources such as commercial fertilizers must be balanced with crop removal to avoid further build-up in soils. Consequently, sufficient land must be available in relatively close proximity to the operation so that manure can be applied at no more than one times the crop removal rate.

	I acknowledge that up to $\frac{10,613}{}$ acres (one times crop P_2O_5 removal from table above) may be required for the long term environmental sustainability of the operation.
9.0	Mortalities (Dead Animal) Disposal
use, lives betw	<u>Investock Manure and Mortalities Management Regulation</u> establishes requirements for the management and storage of livestock mortalities in agricultural operations. This helps ensure tock mortalities are handled in an environmentally sound manner. Winter application, seen November 10 of one year and April 10 of the following, of composted mortalities is libited.
[of Disposal: Rendering Incineration (in approved incinerator only) Burial
_	the proposal include a permanent site for composting mortalities? Yes
utiliz	es, a permit to construct a manure treatment facility is required if the composting process es a substantial amount of manure (>15% by weight) as a primary substrate. Please act Manitoba Sustainable Development at (204) 945-5081 for more information.
9	1 Mass Mortalities
l	A plan for mass mortalities is in place
٧	hat steps will be taken in the case of mass moralities?
M	fanitoba Sustainable Development will be contacted in the event of mass mortalities in
t	ne future. Removal to an approved landfill site will be the preferred method of disposal
 6 	nd be conducted under the supervision of MB Sustainable Development.

10.0 Project Site Description: Land Use Planning Considerations

For assistance contact your Community and Regional Planning Regional Office.

10.1 Development Plan and Zoning Bylaw

The Planning District or Municipal Development Plan and Zoning By-law adopted under <u>The Planning Act</u>, set policy and regulations for the use and development of land. A proposed livestock operation must comply with the requirements of both documents. In the absence of such documents, the <u>Provincial Planning Regulation</u> under <u>The Flanning Act</u> applies.

10.2 Development Plan

Every Development Plan must contain a livestock operation policy (LOP) that identifies areas where new or expanded livestock operations may be allowed. It must also set general standards for the location and setback of livestock operations. Identifying the Development Plan's land use designation and policies (for the planning district or municipality that affect the site) will help confirm the project site's compliance. The Development Plan designations for the spread fields (if something other than agricultural) will indicate the potential loss of the fields in the future due to possible development.

Table 10-1: Development Plan

Name of Planning District	Western Interlake Planning District
Development Plan by-law number	By-law No. 2/04
Land use designation of project site	Agriculture Rural Area
Livestock operation policies – quote supportive policy numbers	Policy Nos: 9, 10, 11
Other Development Plan policies – quote supportive policy numbers	
Non-supportive Development Plan policies	

The Development Plan livestock operation policies support the size and location of the proposed operation.

The Development Plan designations support the long term use of the proposed spread fields.

10.3 Zoning By-law

Identifying the zoning for the project site, the proposed spread fields and the related zoning provisions, helps determine the project's compliance and the minimum separation distances needed between the operation and property boundaries and other natural features and land uses. The Zoning By-law contains specific regulations that govern location and setback of livestock operations.

Identify the minimum project site requirements stated in the Zoning By-law.

Table 10-2: Zoning By-law

	Project Site Dimensions	Minimum Zoning By-Law Site Requirements
Minimum Site Area	160 acre Lundar 1 & (344) 80 acre Lunder 2	80 acres
Minimum Site Width	2640 ft Lundar 1 & 4 1320 ft Lundar 2 & 3	600 ft
Minimum Front Yard	328 ft	125 ft
Minimum Side and Rear Yard	545 ft and 982 ft (minimum side and rear yards of the new pens)	

If any project (front, side or rear) yard site dimensions are less than the Zoning Bylaw minimum, a Variation Order from the Municipality will be required.

10.4 Separation Distances (Zoning By-law or Provincial Planning Regulation)¹¹

Using the proposed size of the operation (see <u>Animal Units Calculator</u>) and the type of animal housing and manure storage facility, complete the following table.

Indicate the distance from:

A. earthen manure storage facility OR B. feedlot and

C. animal confinement facility OR D. non-earthen manure storage facility...

Table 10-3: Separation Distances

to the following land use features (if	Indicate minimum separation distance required in the Zoning By-law or Provincial Planning Regulation (If applicable) Check appropriate box(es)		If land use feature is less than the minimum separation distance required in the Zoning By-law or Provincial Planning Regulation	
applicable)	□ A □ B	⊒ c □ b	Provide actual distance	Provide location or name of feature (e.g. Red River)
Residence/ dwelling	N/A	1,312 ft	551 ft (see additional information section)	Rural residence in SE 15-19-5W
Designated area 12(non- agricultural)	N/A	7,040 ft	13,100 ft	Lundar
Livestock operation	N/A	N/A	10,270 ft	Livestock operation in NE 24-19-5W
Other significant features/land uses				

In cases where minimum separation distances are not stated in the Zoning By-law or Development Plan, the minimum separation distances in the Provincial Planning Regulation apply. If any separation distance is less than the Zoning By-law minimum, a Variation Order will be required from the Municipality.

Indicate on a Land Use and Spread Field Map (See Land Use and Spread Field Wap Exemple 13):

- a) location of the project site, location and ownership of spread fields
- b) land uses and significant features including dwellings
 - i) within a 1 mile radius of the project site
 - ii) within and adjacent to each spread field.

10.5 Buffer Area from Crown Lands

Indicate in the table below if the proposed <u>livestock operation</u> (project site and spread fields) is located **within 1 mile** of any designated parcel of Crown land which would include: Provincial Park, Wildlife Management Area, Ecological Reserve, Provincial Forest, and Wildlife Refuge/Sanctuary. If applicable, also indicate the name of the Designated Crown Land.

Please complete the following table.

Table 10-4: Buffer Areas

Type of Designated Crown Land	Distance from perimeter of Designated Crown Land	Name of Designated Crown Land (e.g. Spruce Woods Provincial Park)
Provincial Park	☐ 1 mile or less☐ Greater than 1 mile	Lundar Beach Provincial Park
Wildlife Management Area	☐ 1 mile or less☐ Greater than 1 mile	Marshy Point Wildlife Management Area
Ecological Reserve	1 mile or lessGreater than 1 mile	N/A
Provincial Forest	☐ 1 mile or less ☐ Greater than 1 mile	N/A
Wildlife Refuge/Sanctuary	☐ 1 mile or less ☐ Greater than 1 mile	Marshy Point Goose Refuge

If any Crown land parcel is to be utilized as part of the proposed planned works where the proposed works will involve the installation of infrastructure (e.g., pipe/hose) that will be placed on the surface of the land, the appropriate Crown land disposition may be required (e.g., General Permit/Work Permit¹⁴). The proponent is encouraged to contact the Regional Lands Manager with Manitoba Sustainable Development for further discussion. Contact the Crown Lands and Property Agency at http:\clp.gov.mb.ca or toll free at 1-866-210-9589 or 1-204-239-3510.

10.6 Setback Distances

Use the following table to indicate setback distances, as required under the <u>Livestock Manure</u> and <u>Mortalities Management Regulation</u> (M.R. 42/98).

Table 10-5: Setback Distances

Feature	Structures	Minimum setback distance required (m)	Actual Setback distance (m)	Provide location or name of feature (e.g. Red River)
	Manure storage facility	100 m	N/A	N/A
Surface watercourses,	Field storage	100 m	>100m	ditch
sinkholes, spring or well	Composting site	100 m	800 m > 100 m	Hatchery drain
	Confined livestock area	100 m	518 m > 100m	Hatchery drain ਨੇਜੇਰਾ, ਘਵਾ।
,	Manure storage facility	100 m	N/A	N/A
Property Line	Composting site	100 m	142 m	South property line
	Confined livestock area	100 m	166 m & 299 m	From S and E property lines, respectively

If any setback distances have not been met, please provide explanation below:	
·	

11.0 Truck Haul Routes and Access Points¹⁵

One consideration with new or expanding livestock operations is the potential impact on existing public roads (municipal and provincial), access and the need for improvements or mitigation. Complete the following table.

Access from PTH/PR onto Access onto PTH/PR from **Estimated Average** site will mainly require a site will mainly require a **Number of Times per** Left or Right Hand Turn **Left or Right Hand Turn** Day Accessing Please check one Please check one Vehicle **Provincial Provincial** Type **Provincial** Provincial Trunk Trunk **Provincial Provincial** Trunk Road (PR) Highway Road (PR) Highway Road (PR) Highway (PTH) (PTH) (PTH) RIGHT RIGHT LEFT LEFT RIGHT LEFT RIGHT LEFT 4 2 2 2 Truck Tractor 4 4 4 **Trailer** Other, 4 2 2 2 2 specify

Table 11-1: Truck Haul Routes and Access Points

Identify what roads and access points will be used for the proposed operation? (See <u>Truck Haul</u> Routes and <u>Access Points Map</u> for an example).

■ Truck Haul Routes and Access Point Map attached

12.0 Conservation Data Centre Report

A Conservation Data Centre Report must be requested and the response attached to this site assessment. The request may be submitted electronically at: www.gov.mb.ca/conservation/cdc.

Were rare species identified in the Conservation Data	Centre Report?
☐ Yes	■ No

13.0 Supporting Documents

Check the supporting documents included in this submission:

	Contact Information and Privacy and Publication Notice
	Location Map (shows proposed project within rural municipality)
	Project Site Plan (proposed operation showing current and proposed structures)
	Animal Units Calculator
	Water Requirement Calculator
	Dairy Barn Water Requirement Estimator
	Manure Production Calculator
	Existing and Proposed Manure Storage Facility Dimension Tables (if applicable)
	Manure Treatment Supporting Documentation (if applicable)
	Manure Application Field Characteristics Table
	Crop Rotation Table
	Recent manure application field soil sample results (Olsen Phosphorus – ppm at 0-6 inch depth)
	Manitoba Agriculture Land Base Calculator
□ on	Letter from the Manitoba Pork Council under the Hog Production Pilot Protocol (pigs iy)
	Land Use and Spread Field Map (location and ownership of operation, location and distance to non-agricultural uses, development plan designation, zoning for project site and spread fields)
	Truck Haul Routes and Access Points Map (with routes and access points on municipal/provincial roads and/or provincial trunk highways)
	Response from the Conservation Data Centre
	Other, please specify:

14.0 Additional Information:

Committee to review your proposal.

increase in the animal population.

It is proposed to expand sheep production from the current 5,000 ewes to 30,000 ewes.

The existing barn is located in NW 14-19-5W and a series of lambing pens are proposed to be constructed in quarter sections SW 14-19-5W and NE 15-19-5W at sufficient separation distances from the nearest residences and water courses. The proponent is intending to amalgamate the properties in quarter sections NW 14-19-5W and SW 14-19-5W

As a result, set back distances from the horizontal property line dividing sections 14 into two halves were not observed. Moreover, agreements are in place between the residents south of the project site, in quarter sections SW 14-19-5W and SE 15-19-5W, and Canada Sheep and Lamb that the plots are sold to Canada Sheep and Lamb.

A composting site is proposed to be located in quarter section SW 14-19-5W at sufficient separation distances

from the water courses and property lines to facilitate disposal of dead animals in an environmentally

sound manner. The existing buildings will be used for barn with possible future expansion to the south.

Sufficient land base has been identified for 2xP2O5 to ensure long-term environmental sustainability.

Moreover, filing of an annual manure management plan will ensure monitoring of the sustainability.

Fill material will be brought in from borrow pit to elevate the construction site. The existing Water

Rights license will be expanded to facilitate the increase in water consumption due to the

Please include any additional information you deem necessarily in order for the Technical Review

If a plan is required, the proponent may attach the acceptance letter from the director of Manitoba Sustainable Development in an appendix to the Site Assessment as supporting documentation, demonstrating compliance with section 12.2(1) of the Livestock Manure and Mortalities Management Regulation (M.R. 42/98). For more information, contact Manitoba Sustainable Development at (204) 945-4384.

¹¹" Agricultural operations are a source of traffic, noise, dust and odours. One of the key elements to successful siting of a livestock operation is to observe appropriate separation distances between potentially conflicting land uses. This is particularly important for the effective dispersion and dilution of odours from pig production facilities. When deciding where to build a new livestock operation, it is best to choose a site with as few neighbours as possible."

Section 6.2 Setbacks and Other Steps to Avoid Conflicts - Farm Practice Guidelines for Pig Producers in MB (April 2007)

Identifying the distance to the nearest land use features such as a neighbouring agricultural operation or non-agricultural designated uses (such as residential or recreational designated areas in the Development Plan), sensitive areas such as wildlife management areas or critical habitat, individual dwellings and various water bodies and drains

¹ Identifying the location of the project is needed to determine the compliance with zoning and other by-laws. The inclusion of a location map helps to identify the project site within the municipality.

² Indicating if the operation is new or expanding helps determine what regulation requirements are needed to be met for the proposal.

³ The regulatory requirements such as municipal by-laws and provincial regulations will vary with type and size of a livestock operation.

⁴ The regulatory requirements such as provincial regulations will vary with the type of housing.

⁵ Confined livestock areas most commonly refer to outdoor, open livestock facilities such as beef feedlots or cowcalf operation facilities ("open confined livestock areas"). The LMMMR includes covered structures, open to the elements, used for the rearing of livestock that feature a floor design that constitutes an effective water barrier, such as concrete ("Covered Confined Livestock Areas"). For example biotech shelters for feeder pig production and hoop structures.

⁶ The site plan is needed to ensure that required yard and other requirements can be met. Noting other features such as dwellings, shelterbelts, water source locations, drainage patterns, access points and the property dimensions enable the applicant to ensure proper site planning and sufficient separation distances between features to meet provincial regulations.

⁷The province regulates the use of surface and ground water. Identifying the source of water will be required for resource management and licensing purposes.

⁸ A water well log is a report completed by the well driller after the construction of the well. Copies of the report are left with the well owner, the well drilling contractor and the Water Science and Management Branch of Manitoba Sustainable Development. Water well logs provide useful information on the geology of the well site and can be used to assess the potential vulnerability of the site to groundwater contamination.

⁹ The Province regulates the use of surface and ground water. Identifying the amount of water needed will be required for resource management and licensing purposes.

¹⁰New or expanding livestock operations **in certain areas** must have access to additional lands suitable for the application of livestock manure located within a reasonable distance, in the opinion of the director of Manitoba Sustainable Development. Reasonable distance is considered to be within a 10 mile radius of the operation for liquid manure. If land is identified beyond the 10 mile radius, a producer must submit a plan to the director of Manitoba Sustainable Development for approval describing the action taken and proposed to be taken to achieve and maintain soil phosphorus levels below 60 ppm.

enable the applicant to ensure that minimum separation distances are maintained between those various uses and the proposed animal confinement facility and manure storage facilities.

Any clearing activity, related construction activity, or works associated with the manure spreading application will also require the appropriate permitting under applicable legislation (e.g., The Crown Lands Act, The Forestry Act etc. Please contact the Regional Lands Manager or Conservation Officer for additional information.

¹⁵Identifying truck haul routes and access points on municipal and Provincial Roads and/or Provincial Trunk Highways assists the province and municipality in planning and identifies any potential required access permits. The information also allows other stakeholders to determine potential impacts on existing roads and adjacent land uses.

¹² is an area identified on a Development Plan Map based on its current or future use?

¹³ The mapping of the project site, neighbouring designated residential areas, individual residences and surface water features enables the applicant to describe the geographic setting and general suitability of the area for the project. This may also assist the applicant in determining appropriate setbacks for field storage of manure, composting manure, and composting mortalities. By identifying a 3-kilometer area around the project site, the applicant is made aware of all land owners that will be notified regarding the public Conditional Hearing that will take place as part of the review process.

¹⁴ If undesignated Crown lands will be used for manure spreading purposes; including the laying of pipe, including draglines, or clearing activity, it will require the proponent to obtain a Crown Lands General Permit disposition that will authorize the use and access of the subject Crown Land(s).