# Site Assessment

## For Large Livestock Operation Proposals

(300 Animal Units or more) whenever a municipal conditional use approval is required

## 1.0 Purpose

The establishment or expansion of a livestock operation that has 300 Animal Units or more and requires a municipal conditional use approval is subject to Part 7 of <a href="The Planning Act">The Planning Act</a>. This includes a review by the provincial Livestock Technical Review Committee (TRC). The <a href="Technical Review Committee Regulation">Technical Review Committee Regulation</a> requires a site assessment be undertaken by the proponent to help the committee complete its review and allow the public to comment on the proposal.

#### 2.0 Assistance

0075800.000 and 0071400.000

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

- Site Assessment Footnotes
- Site Assessment Supporting Documents
- The <u>Land Use and Development Web Application</u> for Municipal Tax Roll Numbers, development plans and zoning by-law information.
- <u>Manitoba Agriculture and Resource Development Contacts</u> for assistance with animal unit calculations, manure application field acreage calculations, agriculture capability and Manitoba Agricultural Services Corporation yields.
- <u>Manitoba Conservation and Climate Contacts</u> for information on environmental regulatory requirements.
- <u>Livestock Technical Review Co-ordination Unit for additional help.</u>

### 3.0 Description of Livestock Operation

Legal name of operation:	
Waldheim Colony	
Name of municipality:	
Cartier	
Legal description: quarter, section, township, range, meridian or river lot(	(s):
NE 20-10-3W and NW 20-10-3W	
Municipal tax roll number(s):	



1. Location Map attached.
4.0 Nature of the Project <sup>2</sup>
Indicate if the proposal is for a new or expanding livestock operation:
☐ New operation
Expansion of existing operation
If the operation is expanding, indicate when the operation was established:  1935
State operation's original name if different from current:
Describe what is being proposed:
It is proposed to expand hog production from the current 600 sows: farrow to finish to 1,500 sows: farrow to finish. The existing chicken production will remain the same.
State if any existing buildings will be replaced or demolished. If existing buildings will be reused or expanded, state how they will be reused or expanded. (Note: Certain proposals involving the replacement or alteration of existing animal housing may be exempted from conditional use approvals and provincial technical reviews. To determine if you may be eligible, refer to the <a href="Frequently Asked Questions">Frequently Asked Questions</a> document and contact your municipal office.
One of the existing hog barns will be demolished and the other buildings will continue to be used. Two additional barns will be constructed to facilitate hog expansion.

Prepare a Location Map of the project site. (see Location Map Example<sup>1</sup>).

## 5.0 Current and Proposed Type and Size of Operation<sup>3</sup>

Using the <u>Animal Units Calculator</u> insert the total number of animals for each animal category associated with the <u>current</u> and <u>proposed</u> operation.

2. Animal Units Calculator attached.

#### **6.0 Animal Confinement**

Based on the nature of the proposed project, indicate each type of animal confinement facility or confined livestock area to be found on site (post construction). Note animal category of each facility or area and its size and check off the type of project it is.

**Table 6-1: Animal Confinement** 

Type of structure  Animal confinement facility <sup>4</sup>				Type of project		
		Structure size (square footage)	New construction	Replacement	Alteration	Use existing as is
Barn	Animal category			-		160
(1)	Sow	38'-8"x549'; 38'-7"x329; 56'x329'			✓	
(2)	Layer	44'x298'+44'x134'-6"				1
(3)	Nursery and finisher	161'-4"x203'-6"+ 152'-4"x924'	1			
(4)	Pullets	TBD (future)				
(5)						
(6)						
Outdoor area						
(1)						
(2)						
Confined livestock area <sup>5</sup>						
Feedlot						
Paddock						
Corral						
Exercise yard						
Holding area						

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(5)								
(6)								
Outdoor area						20		
(1)			-					
(2)								
(3)								
Confined livestock area <sup>5</sup>								
Feedlot								
Paddock								
Corral						* .		
Exercise yard								
Holding area								

#### 6.1 Project Site Plan

Prepare a Project Site Plan. Show all existing and proposed buildings, additions to existing buildings and any existing or proposed confined livestock areas as well as separation distances. See the <u>Project Site Plan Example and Guide</u> for assistance.<sup>6</sup>

3. Project Site Plan attached.

6.2 Project Sites Unsuitable for Development <sup>7</sup>
Will the proposed confined livestock area and/or manure storage facility be located within Nutrient Management Zone N4 <sup>8</sup> or any Nutrient Buffer Zone? <sup>9</sup>
☐ Yes ☑ No
7.0 Water Source
Indicate the type of water source for the operation (check all that apply):
☐ Pipeline (public)/water cooperative
Proposed well – location:
Existing well – location: NE 20-10-3W
□ Surface water – source and location:
Other, describe:
Will livestock have direct access to surface water (not including dugouts)?
☐ Yes ☑ No
If yes, identify the name of the surface water feature(s):
V-Tilde.

#### 7.1 Water Requirements<sup>10</sup>

Estimate the total water use for your project using the appropriate water requirement calculator listed below:

- For non-dairy operations, use the <u>Water Requirement Calculator</u>.
- For commercial dairy operations, use the <u>Dairy Barn Water Requirement Calculator</u>.

Maximum daily water use:	74,253			
,	☑ Imperial gallons	Litres		
Maximum annual water use:	27,102,254			
	☑ Imperial gallons	☐ Cubic decameters	,-	
☑ 4a. Water Requirement	Calculator attached.			
☐ 4b. Dairy Barn Water Red	quirement Calculator attached.			

## 8.0 Siting and Land Use Planning Considerations<sup>11</sup>

#### 8.1 Development Plan<sup>12</sup>

Using the <u>Land Use and Development Web Application</u> or the municipality's development plan, provide the following information:

**Table 8-1: Development Plan** 

Name of planning district (if applicable)	White Horse Plains Planning District; The Grey-St Claude Planning District; Macdonald-Ritchot Planning District
Name of municipality	Cartier; Grey; Macdonald
Development plan by-law number	1-2016 (Cartier); 2/99 (Grey); 2/10 (Macdonald)
Land use designation of project site	Rural General Policy Area (Cartier); Agricultural General Zone (Grey); Green/Agricultural Policy Area (Macdonald)

#### 8.2 Zoning By-law<sup>13</sup>

Using the <u>Land Use and Development Web Application</u> and the municipality's zoning by-law, provide the following information:

Table 8-2: Zoning By-law

Zoning by-law number: 1658-18 (Cartier); 5/03 (Grey); 5/2018 (Macdonald)  Identify zone of project site: Agricultural General (AG)  Identify minimum project site requirements as per zoning by-law:			
	Proposed project site dimensions	Zoning by-law project site requirements	
Minimum site area	320 acres	80 acres	
Minimum site width	5,280 ft	600 ft	
Minimum front yard	476 ft	125 ft	
Minimum side and rear yard	692 ft (side year) & 992 ft (rear yard)	50 ft	

#### 8.3 Separation Distances (zoning by-law)<sup>14</sup>

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.

**Table 8-3: Separation Distances** 

	Indicate minimum separation distance required in the zoning by-law to the following listed land use features (if applicable).  Check appropriate box(es):		If land use feature is <u>less than</u> the minimum separation distance required in the zoning by-law complete this section:	
	☑ Earthen manure storage facility	☑ Earthen		Provide location or name of feature (e.g., Red River)
	or	or		
	☐ Feedlot	☐ Non-earthen manure storage facility		
Residence/dwelling	2,641 <b>ft</b>	1,322 <b>ft</b>	7,446 <b>ft</b>	Residence on SE 31-10-3W
Designated area (non-agricultural)	10,564 <b>ft</b>	7,057 <b>ft</b>	22,440 <b>ft</b>	Elie, Manitoba

If any separation distance is less than the zoning by-law minimum, a variance order will be required from the municipality.

#### 8.4 Land Use Map

Indicate the following on a Land Use Map (see Land Use Map Example):

- Location of the project site.
- b) Land uses and significant features including dwellings (not related to the proposal) within a threekilometre radius of the project site.
- ☑ 5. Land Use Map attached.

#### 9.0 Abandoned Wells<sup>15</sup>

Are there any known unsealed abandoned wells on the project site or spread fields? ☐ Yes ☑ No

If yes, identify the location(s) on the Project Site Plan or on the Spread Field Maps as applicable.

## 10.0 Manure Production/Storage and Mortalities (Dead Animal) Disposal<sup>16</sup>

#### 10.1 Manure Type

Field storage

What type(s)	of manure will be	generated?
✓ Solid	☐ Semi-solid	Liquid

#### 10.2 Manure Storage Type and Construction

Indicate if the operation is planning to construct, modify or expand a manure storage facility, 17 or use an

existing manure storage facility:
☐ Construct
☑ Expand
☐ Modify
☐ Use existing
☐ Not applicable
What type of manure storage will be used by the operation? Check all that are applicable:
☐ Concrete tank
☐ Steel tank
☑ Earthen manure storage facility
☐ Permanent solid manure storage facility
☐ Molehill manure storage facility
☐ Under-barn concrete manure storage facility (30-day capacity or greater)
☐ Permanent manure composting facility

#### 10.3 Mortalities (Dead Animal) Disposal<sup>18</sup>

Ind	icate the type of mortalities disposal:			
	Rendering			
✓	Composting			
	Incineration (in approved incinerator only)			
	Other (describe):			
Do	es the proposal include a permanent site for composting mortalities that will use manure? <sup>19</sup>			
V	Yes • No (no manure used in composting process)			
If y	es, identify the location(s) on the Project Site Plan.			

#### 10.4 Proposed Setback Distances from Water and Property Lines

Use the following table to indicate the proposed setback distances from water and property lines. Provide the name of the feature.

**Table 10-4: Setback Distances from Water and Property Lines** 

Feature	Structures	Minimum setback distance (m) <sup>20</sup>	Proposed setback distance (m)	Provide location or name of feature (e.g., Red River)	
	Manure storage facility	100 m	200 m	Scott Coulee watercourse to N	
Surface watercourses, sinkholes, spring or well	Field storage	100 m	> 100m	No specific	
	Manure composting site	100 m	N/A	N/A	
	Confined livestock area	100 m	N/A	N/A	
	Mortalities disposal site	100 m	N/A	N/A	
	Mortalities composting site	100 m	125 m	Roadside ditch to the east	
	Manure storage facility	100 m	260 m & 320 m	N and E property lines, respectively	
Property line	Manure composting site	100 m	N/A	N/A	
	Confined livestock area	100 m	N/A	N/A	
	Mortalities composting site	100 m	125 m	East property line	

¥	
10.5 Building in Flood Areas <sup>21</sup>	
Using the links below, determine if any proposed struc	ture will be in a Designated Flood Area.
Upper Red River Valley Designated Flood Area	
Lower Red River Designated Flood Area	
Are any of the proposed structures in a Designated Flo	ood Area?
☐ Yes ☑ No	
11.0  Odour Control Measures (p	oroject site)
Indicate which odour control measures are planned.	
Manure storage cover:	
☐ Yes ☑ No ☐ Not applicable	- ·
• •	• ,
• •	÷ ,
☐ Yes ☑ No ☐ Not applicable  If yes, type of cover:  Shelterbelt planting:	÷ ,
If yes, type of cover:	

## 12.0 Land Available for Manure Application<sup>22</sup>

#### 12.1 Land Calculation

Fill out and attach the	Manitoba Land	Calculator <sup>23</sup> to	determine the	minimum	number o	f acres for the
manure nutrients.						

manure numerus.
From the calculator, indicate:
Acres for Nitrogen uptake: <sup>24</sup> 3,500
Acres for Phosphorus removal: <sup>24</sup> _3,406
6. Copies of long-term Manitoba Agricultural Services Corporation (MASC) yields <sup>25</sup> attached.
7. Manitoba Land Calculator attached.
Contact Manitoba Agriculture and Resource Development at 204-918-0325 in Winnipeg if assistance is required.
<b>12.2 Long-Term Environmental Sustainability</b> From the land calculator, indicate acres for Phosphorus balance: <sup>26</sup> 6812
I acknowledge that the amount of acres indicated in the Manitoba Land Calculator up to  6812 acres may be required for Phosphorus balance (one times crop P <sub>2</sub> O <sub>5</sub> removal) and the long-term environmental sustainability of the operation.  12.3 Characteristics of Manure Application Fields <sup>27</sup>
Fill out and attach the Manure Application Field Characteristics Table.
Provide Spread Field Maps of land available for manure application along with their agricultural capability (see <u>Spread Field Map Example</u> ).
For all land available for manure application, attach copies of soil test reports that are no more than 36 months old and that demonstrate that soil phosphorus levels are below 60 ppm Olsen P in the top six inche (15 centimeters) of soil.
Have the regulatory setbacks <sup>28</sup> and all water features been observed and excluded from land base calculations for this operation?
☑ Yes ☐ No
8. Manure Application Field Characteristics Table attached.
9. Spread Field Map (showing agricultural capability and field boundaries) attached.
10. Soil test reports for the land available for manure application attached

13	3.0 Manure Transportation and Application Equipment
Will	a commercial manure applicator be used? <sup>29</sup>
Ø	Yes 🗖 No
Ide	ntify the proposed transportation method:
	Tanker
Ø	Dragline
	Solid spreader
	Other:
Ide	ntify the proposed application method (check all that apply):
V	Full/true injection
	Partial injection (Aerway or Coulter)
	Low-level broadcast application
	High-level broadcast application
	Immediate incorporation
<b>Z</b>	Incorporate within 48 hours
	No incorporation – provide reason:
13.	1 Season of Application
	ntify the proposed timing of application (check all that apply):
Ø	Spring
	Summer (e.g., to a growing crop)
☑	Fall
13.	2 Manure Application on Lands Subject to Frequent Flooding or Inundation <sup>30</sup>
Are	any of the lands available for manure application located in the <u>Red River Valley Special Management</u> or another area that is subject to flooding on an average basis at least once every five years?
	√ □ N-

### 14.0 Projected Truck Haul Routes and Access Points<sup>31</sup>

Complete the following table.

Table 14-1: Truck Haul Routes and Access Points

	Estimated number of day ac	Access from PTH/PR onto site will mainly require a left or right hand turn (please check one)				Access onto PTH/PR from site will mainly require a left or right hand turn (please check one)				
Vehicle type	Provincial Trunk Highway (PTH)	Provincial Road (PR)	Tr Higl	vincial unk hway TH)	1	incial I (PR)	Provincial Trunk Highway (PTH)		Provincial Road (PR)	
	(( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (		LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
Truck		2				✓			✓	
Tractor trailer		1				1			1	
Other, specify	Feed manufactured on site									

Identify on a map the roads and access points that will be used for the proposed operation (see <u>Truck Haul Routes and Access Points Map Example</u>).

11. Truck Haul Routes and Access Points Map attached.

### 15.0 Conservation Data Centre Report

(only required for new project sites and non-agricultural land being converted to cropland)

A Conservation Data Centre report must be requested and the response attached to this Site Assessment. The request may be submitted electronically to: <a href="https://gov.mb.ca/sd/environment\_and\_biodiversity/cdc/index.html">https://gov.mb.ca/sd/environment\_and\_biodiversity/cdc/index.html</a>.

☑ 12. Conservation Data Centre Report attached.

Were rare species identified in the Conservation Data Centre Report?

☐ Yes ☑ No

### 16.0 Supporting Documents Checklist

Check off the supporting documents attached to this submission.

1. Location Map

2. Animal Units Calculator

3. Project Site Plan

4. Water Requirement Calculator

4b. Dairy Barn Water Requirement Calculator

5. Land Use Map

6. Copies of long-term Manitoba Agricultural Services Corporation (MASC) yields

7. Manitoba Land Calculator

8. Manure Application Field Characteristics Table

9. Spread Field Map (showing agricultural capability and field boundaries)

10. Soil test reports for the land available for manure application (no more than 36 months old)

11. Truck Haul Routes and Access Point Map

12. Conservation Data Centre Report (only for new project sites and non-agricultural land being converted to cropland)

#### 17.0 Additional Information

14. Conditional Use Application

Include any additional information you deem helpful for the Technical Review Committee to review your proposal.

13. Contact information and privacy publication notice (attach separately)

□ 15. Other, specify: \_\_\_\_\_

It is proposed to expand hog production from the current 600 sows: farrow to finish to 1,500 sows: farrow to finish. The existing chicken inventory (4,000 broilers, 20,000 layers and 20,000 pullets) will remain the same. To facilitate the expansion of hog production, the existing earthen manure storage will be expanded as the current capacity is not sufficient to accommodate the additional manure production. Manure production from broilers will be field stored. Two new buildings will be constructed in areas at sufficient separation distances from nearest residential development to accommodate the expansion of hog production. 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 environmental sustainability. The existing Water Rights licence will be expanded to facilitate the increase in additional consumption due to the increase in animal numbers.

## 18.0 Declaration

I do hereby verify that the information contained in the Site Assessment, and all required supporting documents, are accurate and complete to my knowledge.
Date:
(YYYY/MMM/DD)
Name: Peter Grieger  (print clearly)
Signature: