

SITE ASSESSMENT

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MUNICIPAL GOVERNMENT

For Large Livestock Operation Proposals (300 Animal Units or more)

1.0 Purpose

The set up, or expansion, of a livestock operation that has 300 Animal Units or more is subject to Part 7 of The Planning Act. This includes consideration as a conditional use by the municipal council or planning district board. It also includes a review by the Technical Review Committee (TRC) appointed by the Minister of Local Government. The Technical Review Committee Regulation requires a site assessment to help the committee do its review and allow people who will be affected by the livestock operation to comment on the proposal.

2.0 Assistance

For assistance in completing the Site Assessment Form please refer to the following.

For links to resources, click on the highlighted underlined items.

For additional information on a particular item, please click on the (?) "Learn More" icon.

For definitions, click on the Glossary of Terms.

For help with mapping, contact your Community and Regional Planning Regional Office.

For additional help, contact the Technical Review Coordination Unit.

3.0 Description of Livestock Operation

Operation legal name, if other than the owner's name:

Canada Sheep and Lamb Farms LtdOperation location (project site): SW28-3-8ERural Municipality (RM) of Stuartburn

Legal description: section, township, range or river lot(s)

SW28-3-8EManitoba Premises Identification Number: 16029 44EMunicipal tax roll number(s): 190900Show the location of the operation (project site) on a location map. (See Location Map for example). Location Map attached

4.0 Nature of Project ? New operation Expansion of existing operation

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.

The site will be developed into a covered and paved animal confinement facility.

Existing buildings will be temporarily used during construction and demolished shortly after their usefulness will have ceased.

5.0 Proposed Type and Size of Operation ?

State the proposed type and size of the operation. (See Animal Units Calculation Table.)

Type of operation (Column B from Animal Units Calculation Table)	Existing number of animals (Column C from Animal Units Calculation Table)	Total Animal Units (Column F from Animal Units Calculation Table)
Lamb feeder	Existing - 0	
	Proposed - 15 000	945 AU

 Animal Units Calculation Table attached**6.0 Animal Confinement Facilities ?****Outdoor Confined Livestock Area**

To ensure that it can be built in a way that the environment is protected, a permit is required for construction and expansion of confined livestock areas for operations with 300 Animal Units or more. Permits are required by the Livestock Manure and Mortalities Management Regulation (MR 42/98), under *The Environment Act*.

Confined Livestock Area: outdoor seasonal feeding area feedlot not applicable

Indoor Barn/Animal Housing

Indoor Animal Housing: barn other (describe) _____ not applicable

COMPLETELY COVERED PEN AREA
WITH CONCRETE FLOOR, OPEN
SIDES, NATURALLY VENTILATED
ANIMAL CONFINEMENT FACILITY.

A permit under the Livestock Manure and Mortalities Management Regulation is not required for an indoor housing area or barn unless there is a manure storage facility within the building (an under barn storage capable of storing manure for 30 days or more).

Show all existing, proposed buildings and additions to existing buildings on the project site plan. See Project Site Plan example and the Project Site Plan Guide for help creating your site plan. ?

Project Site Plan attached

7.0 Environmental Farm Planning

Environmental farm planning is a voluntary, confidential self-assessment process designed to help farm managers identify the environmental strengths and weaknesses of their operations.

Do you have an Environmental Farm Plan yes no

If so, is it current (completed within past 5 years) yes no

8.0 Water

Project Sites Unavailable for Development

To protect water quality, the Nutrient Management Regulation (MR 62/2008), under *The Water Protection Act*, prohibits the set up or expansion of nutrient generating facilities in Nutrient Management Zone 4 (Agriculture Capability Class 6, 7 and unimproved organic soils) and Nutrient Buffer Zones. Nutrient generating facilities include barns, confined livestock areas and manure storage facilities.

Nutrient Buffer Zone as defined in section 3(3) of the regulation includes areas of land along water bodies such as rivers, lakes, streams and drains.

The proposed indoor housing area, barn, confined livestock area and/or manure storage facility:

will
will not

be located within Nutrient Management Zone 4 (Class 6, 7 and unimproved organic soils) or any Nutrient Buffer Zone.

Determine the agriculture capability class(es) of the project site, and its limitations. This information is available from Manitoba Agriculture, Food and Rural Development (MAFRD) at 204-945-3869 in Winnipeg. Alternatively, use the following link: Land Based Calculator.

Water Source

To be sustainable, a livestock operation must have access to a sufficient quantity and quality of water for livestock.

Water source for operation:

- | | |
|--|---|
| <input type="checkbox"/> pipeline (public) | <input type="checkbox"/> water co-operative |
| <input checked="" type="checkbox"/> proposed well | <input type="checkbox"/> existing well |
| <input type="checkbox"/> river | <input type="checkbox"/> lake |
| <input type="checkbox"/> dugout (dimensions : ___ x ___ x ___) | |

If using an existing well, provide a copy of the water well log and logs for other wells on the property. Logs can be obtained from Manitoba Conservation and Water Stewardship by calling (204) 945-7418 in Winnipeg; 1-800-214-6497 toll free. ?

Source Water Analysis Reports

Annual livestock source water monitoring analysis reports must be submitted to Manitoba Conservation and Water Stewardship for any operations of 300 Animal Units or more.

If an existing livestock operation of 300 Animal Units or more, have you submitted an annual source water monitoring report for the current calendar year? yes no n/a

Will livestock have direct access to surface water (not including dugouts)? yes no

If yes, identify:

Name of the surface water feature: _____

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

Lambs will be totally confined within the covered pens, from arrival up to slaughter

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 Licence required by the Water Rights Regulation (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 Use ?

To calculate the total water use, go to the Water Requirement Calculation Table.

Maximum daily use: 24,000 imperial gallons or litres

Maximum annual use: 8,760,000 acre-feet or cubic decameters

Water Requirement Calculation Table attached

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.

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
Manure is stored in a storage facility built by permit or registered by Manitoba Conservation and Water Stewardship	<input type="checkbox"/>	<input type="checkbox"/> N/A
Storage includes leachate collection	<input type="checkbox"/>	<input type="checkbox"/> N/A
Earthen storage has between 400 and 500 days storage	<input type="checkbox"/>	<input type="checkbox"/> N/A
Steel/concrete tank has between 250 and 500 days storage	<input type="checkbox"/>	<input type="checkbox"/> N/A
Manure storage facility meets required setbacks	<input type="checkbox"/>	<input type="checkbox"/> N/A
Field storage (solid manure) locations are changed annually	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Field storage meets required setbacks	<input type="checkbox"/>	<input checked="" type="checkbox"/>
All application fields are soil tested annually for nitrate-N and Olsen phosphorus	<input type="checkbox"/>	<input checked="" type="checkbox"/>
All manure is applied according to a manure management plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Licensed commercial manure applicator is used to apply manure	<input type="checkbox"/>	<input type="checkbox"/> OWNER
Abandoned wells have been properly sealed	<input type="checkbox"/>	<input checked="" type="checkbox"/> IF ENCOUNTERED

Other:

Building in Flood Areas

The Livestock Manure and Mortalities Management Regulation prohibits an operator from putting a manure storage facility within the boundaries of the 100-year flood plain elevation. Manure storage facilities 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 Designated Flood Area Regulation 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 and Transportation. Contact the Hydrologic Forecasting Branch at (204) 945-2121 in Winnipeg; 1-800-214-6497 toll free.

The proposed site:

is is not

located in a Designated Flood Area: Red River Valley Designated Flood Area or Lower Red River Designated Flood Area

Note: At the time a permit is issued, 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 and Transportation.

Watershed Management Planning

Integrated watershed management planning is a co-operative effort by local residents, stakeholders and governments to create a long term plan to manage water and land-based activities for watersheds.

What are the names of the watershed and sub-watershed where the livestock operation and the fields identified for manure application are located?

Name of watershed(s): Red River

Name of sub-watershed(s): Rat River

Name of Integrated Watershed Management Plan for the proposed project site, if applicable: Rat Marsh River IWMP

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

9.0 Manure

The Livestock Manure and Mortalities Management Regulation 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 Conservation and Water Stewardship at (204) 619-2230 in Winnipeg.

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

Manure Type

The type of manure generated and used by the operation influences storage, handling and land application options available.

What type(s) of manure will be generated?

solid

semi-solid

liquid

Manure Volume or Weight

Manure production can be estimated using the Manure Production Calculator Table. The sizing of the manure storage is the responsibility of the operator and must be constructed in accordance with the Livestock Manure and Mortalities Management Regulation. Design and construction of a manure storage facility is dependent on the type of structure; earthen manure storage facilities must have between 400 and 500 days capacity, a steel or concrete storage tank must have between 250 and 500 days capacity. This ensures the facility has sufficient capacity eliminating the need for winter application.

What will be the total volume or weight of manure generated annually by the livestock operation? (See Manure Production Calculator Table.)

liquid volume: _____ solid weight: 7 994 tons

Based on historical experience and

Manure Production Calculator Table attached <http://www.sheep101.info/201/nutrientmgt.html>

N.B.: No data for sheep.

Manure Storage Type and Capacity

The type of storage system used will affect the capacity requirements for the manure storage facility or field storage area.

What type of manure storage facility will be used by the operation?

under-barn concrete earthen manure storage concrete tank(s)
 steel tank(s) field storage molehill

Provide the dimensions of the existing and/or proposed manure storage facilities, if applicable. (See Existing and Proposed Manure Storage Facility Dimensions Table.)

Existing and Proposed Manure Storage Facility Dimensions Table attached

Odour Control Measures (project site)

Barns and manure storage facilities can be significant sources of livestock odours. The use of manure storage covers and shelterbelts can reduce this, particularly for neighbours in the vicinity of the operation.

What odour control measures are you planning to use?

Manure storage cover: yes no

Type of cover: _____

Shelterbelt planting: yes no existing shelterbelt area will be retained and improved.

Other measures (specify): All manure will be composted

Manure Treatment

Under *The Environment Act*, the director must not issue a permit for the modification, expansion, or construction of a manure storage facility accommodating an increase in the number of animal units for pigs, unless the manure is treated using anaerobic digestion or another environmentally sound treatment that is similar to or better than anaerobic digestion, according to Manitoba Conservation and Water Stewardship.

Does your proposal include anaerobic digestion or another environmentally sound treatment for manure?

yes no not applicable

If yes, please describe Mechanical composting of manure in fields. Compost windrows are turned every 10 days or so, 3 to 4 times from spring to land application.

Manure Application Method

The Livestock Manure and Mortalities Management Regulation requires the registration of annual manure management plans for new or expanding operations with 300 Animal Units or more.

Does the operation currently file an annual Manure Management Plan with Manitoba Conservation and Water Stewardship? (For operations with 300 Animal Units or more, only)

yes no

Manure application methods and the season in which manure is applied affect odour, nutrient availability, crop response, land base requirements and the risk of water contamination.

Proposed application method:

broadcast broadcast and incorporation within 48 hours injection

The Livestock Manure and Mortalities Management Regulation prohibits the application of manure from November 10 of one year to April 10 of the following year (winter application).

Time of year for application: spring summer fall

The Livestock Manure and Mortalities Management Regulation puts restrictions on fall application of manure in the Red River Valley Special Management Area.

The proposed spread fields:

are

are not

in the Red River Valley Special Management Area.

Land Available for Manure Application ?

The land available for manure application includes all suitable land (owned, leased or under agreement) that is available to the operation for manure application.

Under the Livestock Manure and Mortalities Management Regulation and the Nutrient Management Regulation, application of nutrients is not permitted on Agriculture Capability Class 6, 7 and unimproved organic soils (Nutrient Management Zone 4) and within Nutrient Buffer Zones.

Areas of a field that are Class 6, 7, unimproved organic soils (Nutrient Management Zone 4) or areas within the nutrient buffer zones are considered unsuitable for manure application. In addition, fields with 60 parts per million (ppm) Olsen phosphorus (P) in the top six inches (15 centimetres) of soil cannot be included in the land base calculation.

Nutrients cannot be applied within the Nutrient Buffer Zones as outlined in the Nutrient Management Regulation (62/2008) and illustrated in the Setback Requirements From Water Features Table.

Has the setback area for all water features been observed and excluded from land base calculations for this operation?

yes

no

Use the Manure Application Field Characteristics Table to determine the following:

Total suitable area available for manure application

2057 acres

Manure Application Field Characteristics Table attached

Canada Sheep + Lamb Farms Ltd. will clear all trees/bush as required to facilitate cropping and manure application.

Copies of soil test reports that are no more than 12 months old must also be included with this submission.

Soil test reports for the required area for manure application attached.

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 removal of nutrients by the proposed crops.

Phosphorus

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

The removal of phosphorus by crops depends on the crops grown and the historical crop yield averages. (See the Crop Rotation Table).

The Livestock Manure and Mortalities Management Regulation requires that "sufficient land is available to the operator to implement an appropriate manure management plan" before Manitoba Conservation and Water Stewardship will issue a permit for a manure storage facility.

"*Certain Areas*" are defined by the Livestock Manure and Mortalities 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 P₂O₅ in that area. 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 "*certain 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 filed(s).

In "*certain areas*" it is Manitoba Conservation and Water Stewardship policy to consider a manure storage facility permit if the operation shows it has access to sufficient suitable land to apply manure at a rate equivalent to one times the crop removal rate of phosphorus.

Is the livestock operation located in "*certain areas*"?

yes no

In areas which are not considered to be "*certain areas*", Manitoba Conservation and Water Stewardship may issue a manure storage facility permit, if the operation shows it has access to sufficient suitable land to apply manure at a rate equivalent to two times the crop removal rate of phosphorus.

For more information on obtaining a manure storage facility permit, please contact Manitoba Conservation and Water Stewardship, Environmental Approvals branch at (204) 945-5081.

Use the Land Base Calculator to calculate the minimum area required for manure application.

Total minimum area required for manure application at two times crop removal, for operations outside of Hanover and La Broquerie	1247 acres
Total minimum area required for manure application at one times crop removal, for operations within Hanover and La Broquerie AND For the long-term sustainability of operations outside of Hanover and La Broquerie	2493 acres

For more information on completing land base calculations, call Manitoba Agriculture, Food and Rural Initiatives (MAFRI) at (204) 945-3869 in Winnipeg.

Land Base Calculator attached

Land Base Requirement Summary

By comparing the land available for manure application with the land required for manure application, state whether sufficient suitable land for manure application:

- has not been identified
- has been identified for two times the crop removal rate of phosphorus (for operations outside of the RMs of Hanover or La Broquerie)
- has been identified for one times the crop removal rate of phosphorus (for operations within the RMs of Hanover and La Broquerie)

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 to 119 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 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 to balance phosphorus applications with crop phosphorus removals (one times) so that manure treatment and export of phosphorus from the region is not required.

I acknowledge that up to 2493 acres acres/hectares (one times crop removal from table above) may be required for the long term environmental sustainability of the operation.

10.0 Mortalities (Dead Animal) Disposal

The Livestock Manure and Mortalities Management Regulation sets requirements for the use, management and storage of livestock mortalities in agricultural operations. It helps ensure livestock mortalities are handled in an environmentally sound manner. Winter application of composted mortalities is prohibited.

Type of disposal: rendering
 composting
 incineration (in approved incinerator only)

Mass Mortalities

A plan for mass mortalities is in place.

What steps will be taken in the case of mass mortalities?

As part of the development of the site and start up of production,
options including large scale composting, hauling to landfill and rendering
will be compared, and a mass mortality plan will be prepared.

11.0 Project Site Description: Land Use Planning Considerations

For assistance contact your Community and Regional Planning Regional Office.

Development Plan and Zoning Bylaw

The Planning District or Municipal Development Plan and Zoning By-law adopted under The Planning Act, set policy and regulations for the use and development of land. A proposed livestock operation must comply with the requirements of this bylaw. In the absence of a By-law, the Provincial Planning Regulation under The Planning Act applies.

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.

Name of Planning District	N/A
Development Plan by-law number	81/2008
Land use designation of project site	Agriculture 1
Livestock operation policies – quote supportive policy numbers	3.3.1.1b.ii
Other Development Plan policies – quote supportive policy numbers	3.3.1.2 and 3.3.1.3
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.

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 bylaw contains specific regulations that govern location and setback of livestock operations.

What are the minimum project site requirements stated in the Zoning By-law?

	Project site dimensions	Minimum zoning bylaw site requirements
Minimum site area	138 ac	80 ac
Minimum site width	2840 ft	600 ft
Minimum front yard	438ft	330 ft
Minimum side and rear yard	605 ft & 2940 ft; 300ft to	330 ft

half mile line b/w 2 south quarters of 28-3-8E,
Canada Sheep & Lamb owns SW28-3-8E & SE28-3-8E

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

Separation Distances (Zoning Bylaw or Provincial Planning Regulation) ?

Using the proposed size of the operation (see Animal Units Calculation Table) 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...

...to the following land use features (if applicable)	Indicate minimum separation distance required in the zoning bylaw or Provincial Planning Regulation (Check appropriate box(es))		If land use feature is less than the minimum separation distance	
	<input type="checkbox"/> a. <input type="checkbox"/> b.	<input checked="" type="checkbox"/> c. <input type="checkbox"/> d.	Provide actual distance	Provide location or name of feature (e.g. Red River)
Residence/ dwelling		1180ft	Approx 700 ft	Residence @ NW corner of property
Designated area (non-agricultural) ?	6300 ft		Approx. 3.9 mi.	Zhoda
Surface water	328 ft		905 ft	Roadside ditch
Surface watercourse	328 ft		approx 3695 ft	Rat River
Crown land	n/a	n/a	784 ft	NE21-3-8E
Wildlife Management Area	n/a	n/a	approx 2.34 mi	Watson P. Davidson WMA
Livestock operation	n/a	n/a	approx. 1115 ft	Cattle op. on NW28-3-8E
Other significant features/land uses	n/a	n/a	approx. 778 ft	Zhoda International Raceway (private motocross circuit)

If Crown Lands are located within one mile, provide coding. Information can be obtained from the Interdepartmental Operations Crown Lands Plans through the Manitoba Legislative Library or contact Manitoba Conservation and Water Stewardship at (204) 619-2230.

If undesignated Crown Lands will be used for manure spreading purposes, including the laying of pipe or clearing activity, and use will require a Crown Lands General Permit disposition for the use and access of the subject Crown Lands Parcel(s). ?

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.

Note: If any separation distance is less than the zoning by-law minimum, a Variation Order will be required from the Municipality.

Setback Distances (Livestock Manure and Mortalities Management Regulation)

Using the following table to indicate the distance from:

Feature	Structure	Minimum setback distance required	Provide actual distance (m)	Provide location or name of feature (e.g. Red River)
Surface watercourse, sinkhole, spring, or well	Manure storage facility	100 m		
	Field storage	100 m	> 100 m	Various field locations
	Composting site	100 m	491 m	WEST DITCH
	Confined livestock area	100 m	276 m	Roadside ditch
Property Line	Manure storage facility	100 m		n/a
	Composting site	100 m	193 m	SOUTH PROP. LINE
	Confined livestock area	100 m	177 m	NW28-3-8E

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

Show: a) location of the project site, location and ownership of spread fields and b) land uses and significant features including dwellings (i) within a 1 mile radius of the project site and (ii) within and adjacent to each spread field on a Land Use & Spread Field Map. (See Land Use & Spread Field Map Example). ?

12.0 Truck Haul Routes and Access Points ?

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.

Vehicle Type	Estimated Average Number of times per day accessing		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			
	Provincial Trunk Highway (PTH)	Provincial Road (PR)	Provincial Trunk Highway (PTH)		Provincial Road (PR)		Provincial Trunk Highway (PTH)		Provincial Road (PR)	
			LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
Truck or passenger	10	6		X		X	X		X	
Tractor Trailer	4	1		X		X	X		X	
Other - Specify Farm machinery	1	2		X	X		X			X

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

For help with mapping, contact your Community and Regional Planning Regional Office.

Truck Haul Routes and Access Points Map attached

13.0 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

14.0 Supporting Documents

Check off the supporting documents included in this submission:

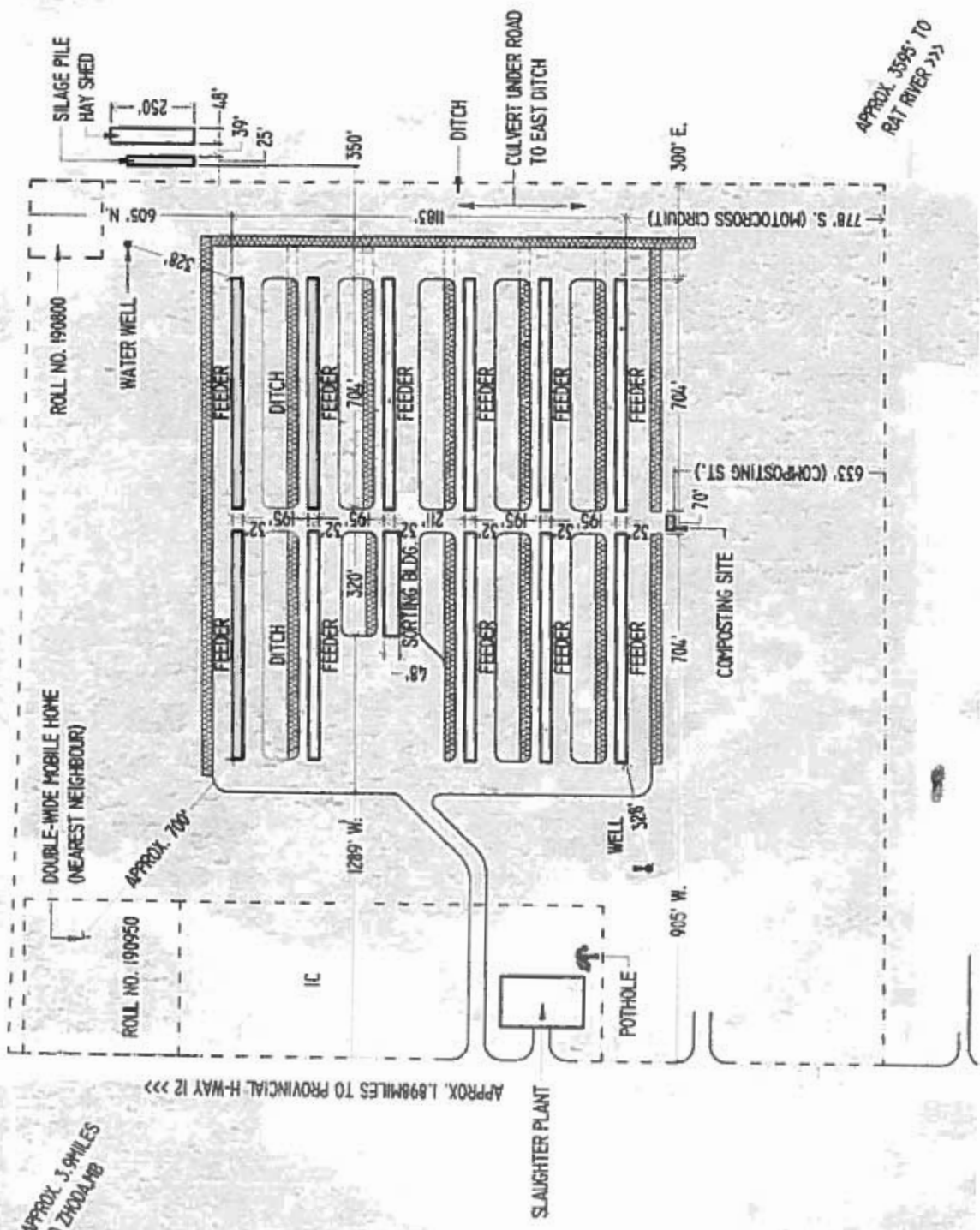
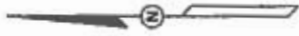
- Contact Information and Privacy and Publication Notice
- Location Map (shows proposed project within rural municipality)
- Animal Units Calculation Table
- Water Requirement Calculation Table
- Manure Production Calculator Table
- N/A Existing and Proposed Manure Storage Facility Dimensions Tables (if applicable)
- Manure Application Field Characteristics Table
- Crop Rotation Table
- Recent manure application field soil sample results (Nitrate- N lb/ac at 0-6 and 6-24 inch depths, Phosphorus - ppm at 0-6 inch depth)
- Land Base Calculator
- Project Site Plan (proposed operation showing current and proposed structures)
- Land Use and Spread Field Map (location and ownership of operation, spread fields, 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:

15.0 Declaration

I do hereby verify that the information contained in the Site Assessment and all required Supporting Documents is accurate and complete to my knowledge

Date: January 20/16

Signature: 



PROJECT NAME	CANADA SHEEP & LAMB
CLIENT NAME	R. FLORES SOUTH-MAN ENGINEERING
DATE	OCTOBER 2015
SCALE	N.T.S.
DRAWN BY	N.T.S.
CHECKED BY	SP

**South-Man
Engineering**

14-2000 Highway 104 | Winnipeg, Manitoba | R2J 1M2
 Ph: 204-644-6444 | Fax: 204-644-6444

R.M. OF STUARTBURN

MAP REVISED:

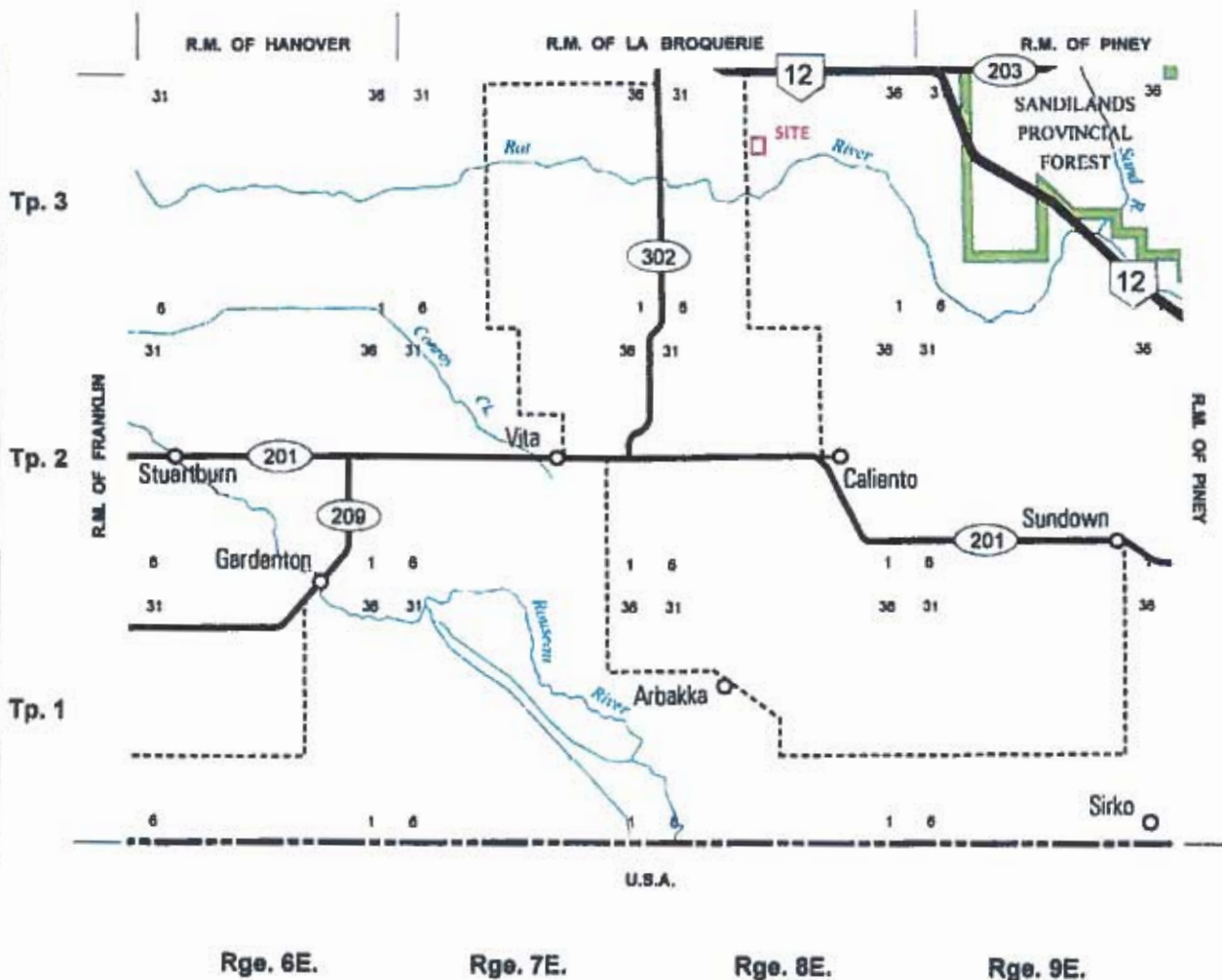


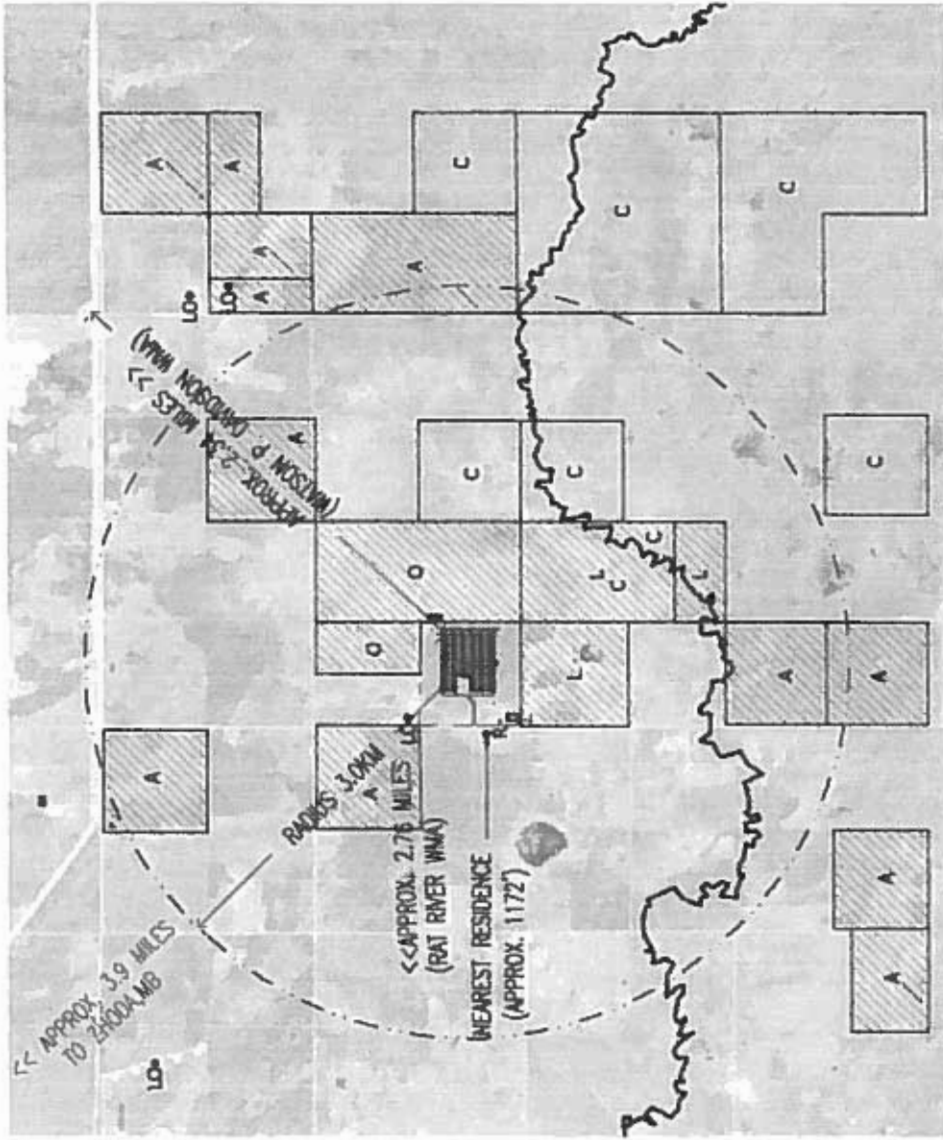
0 5
SCALE IN KILOMETRES

MANITOBA
TRANSPORTATION AND GOVERNMENT SERVICES
HIGHWAY PLANNING AND DESIGN BRANCH
DRAFTING SECTION
WINNIPEG
DECEMBER, 2003

LEGEND

- PROVINCIAL TRUNK HIGHWAYS  ACCESS ROADS 
- PROVINCIAL ROADS  MAIN MARKET ROADS 



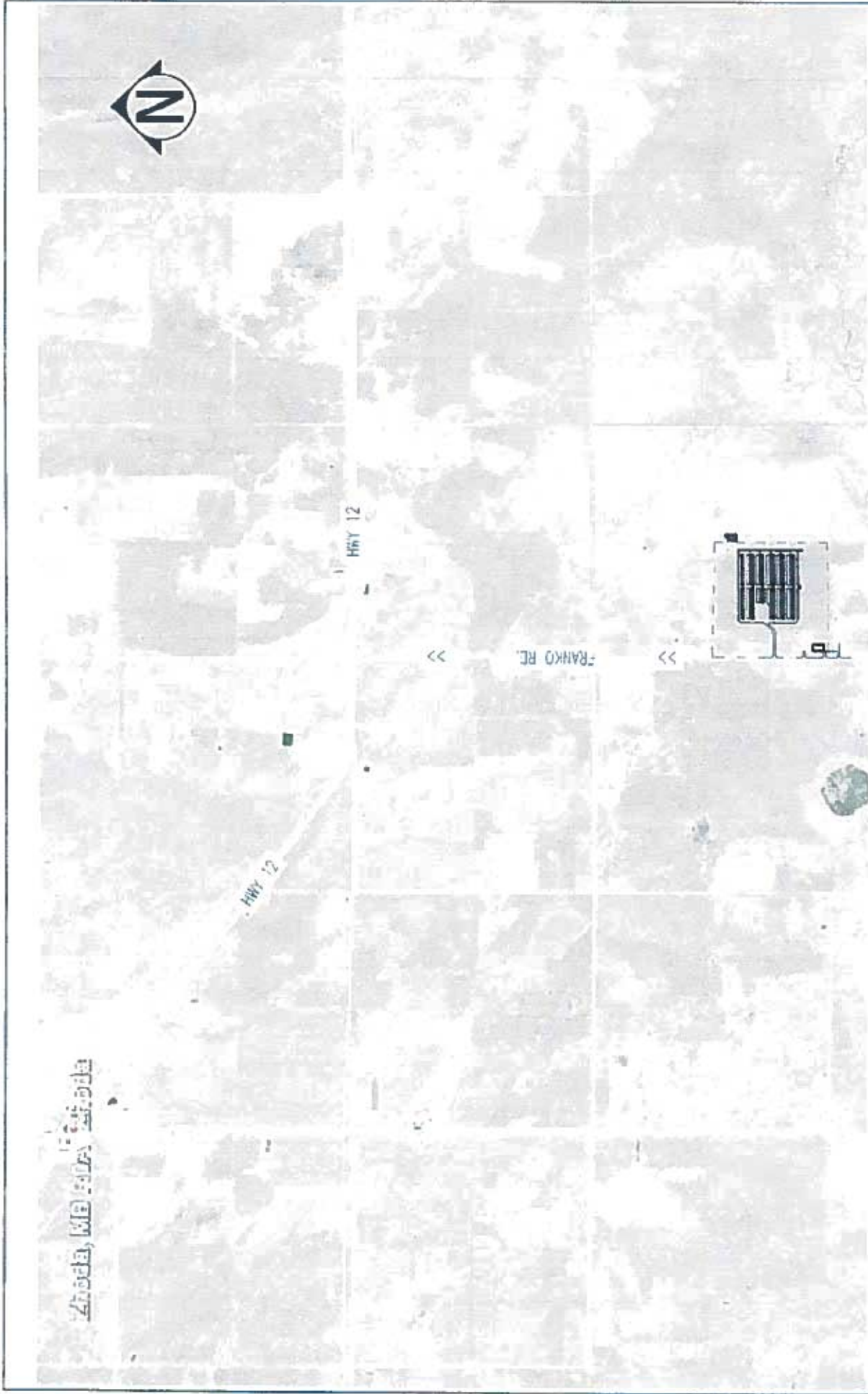


LEGEND:

- LO - LIVESTOCK OPERATIONS
- O - SPREAD FIELDS (OWNED)
- A - SPREAD FIELDS (AGREEMENT)
- L - SPREAD FIELDS (LEASE)
- R - RESIDENCE
- C - CROWN
- 3km NOTIFICATION AREA FOR THE PUBLIC CONDITIONAL USE HEARING



PROJECT NAME	CANADA SHEEP & LAMB	BLIND NO.	N/A
SHEET TITLE	LAND USE & SPREAD FIELD MAP	DRAWN BY	P. FERRER/R. FLORES SOUTH-MAN ENGINEERING
DATE DRAWN	JANUARY 2016	DRAWING SCALE	N.T.S.
THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, VICTORIA, BRITISH COLUMBIA, CANADA.		FIELD NUMBER	SP-2



		PROJECT NAME CANADA SHEEP & LAMB	BLANK AREA N/A
<small> 1:10000 SCALE NORTH IS UP UNLESS OTHERWISE NOTED 10/10/15 </small>		SHEET TITLE TRUCK HAUL ROUTE	DRAWN BY P. FERRER SOUTH-MAN ENGINEERING
		DATE DRAWN JUNE 2015	DRAWING SCALE N.T.S.
			SHEET NUMBER SP-3
<small>THIS DRAWING IS THE PROPERTY OF SOUTH-MAN ENGINEERING, W-1407E, MANITOBA, CANADA.</small>			

Animal Units Calculation Table

A	B	C	D	E	F	G
Animal Type	Type of Operation	Existing Number of Animals	Proposed Additional Number of Animals	Animal Units per Head	Total Animal Units	Annual Confinement Period (Days)
Dairy ¹	Mature cows (lactating and dry) including associated livestock			2	-	
	Mature cows (lactating and dry)			1.35	-	
	Heifers (0 to 3 months)			0.16	-	
	Heifers (4 to 13 months)			0.41	-	
	Heifers (> 13 months)			0.87	-	
	Bulls			1.35	-	
Beef	Veal calves			0.13	-	
	Beef cows including associated livestock			1.25	-	
	Backgrounder			0.5	-	
	Summer pasture / replacement heifers			0.625	-	
Pigs	Feeder cattle			0.769	-	
	Sows - farrow to finish (234-254 lbs)			1.25	-	
	Sows - farrow to weaning (up to 11 lbs)			0.25	-	
	Sows - farrow to nursery (51 lbs)			0.313	-	
	Boars (artificial insemination units)			0.2	-	
	Weanlings, Nursery (11-51 lbs)			0.033	-	
Chickens	Growers / Finishers (51-249 lbs)			0.143	-	
	Broilers			0.005	-	
	Roasters			0.01	-	
	Layers			0.0083	-	
	Pullets			0.0033	-	
	Broiler breeder pullets			0.0033	-	
Turkeys	Broiler breeder hens			0.01	-	
	Broilers			0.01	-	
	Heavy Toms			0.02	-	
Horses	Heavy Hens			0.01	-	
	Mares			1.333	-	
Sheep	Ewes			0.2	-	
	Feeder lambs		15,000	0.063	945.00	
Other Livestock	Type:					
	Type:					
Total AU's					945.00	

Footnotes:

¹ There are 2 methods for calculating animal units for dairy (Farm Practices Guidelines for Dairy Producers in Manitoba, 1995). You can enter the total number of mature cows in the milking herd under the "Mature cows (lactating and dry) including associated livestock" category and the animal units will be calculated by multiplying this number by 2. This calculation assumes 85 lactating, 15 dry, 12 heifers (0 to 3 months), 36 heifers (4 to 13 months) and 50 heifers (> 13 months) for an operation with 100 mature cows. "Associated livestock" includes all of the helper calves and replacement heifers. Alternatively, you can enter animal numbers in the individual categories (mature cows, heifers (0 to 3 months), heifers (4 to 13 months) and heifers (> 13 months)) and they will be summed at the bottom of the table. Bulls and veal calves are always calculated separately.

For all other livestock or operation types please inquire with your Manitoba Agriculture, Food and Rural Initiatives GO office to determine the animal units per head.
www.gov.mb.ca/agriculture/contact/agoffices.html

Water Requirement Calculation Table

Livestock	Number	IG/day per animal in winter	IG/day per animal in summer	IG/day (Imperial gallons per day)
Beef/Dairy/Bison				
Feeder/heifer/steer (600 lb.)		5	9	
Feeder (900 lb.)		7	12	
Feeder (1250 lb.)		10	15	
Cow/calf pair		12	15	
Dry cow		10	12	
Milking cow		25	30	
Bison		8	10	
Horses				
Horses		8	11	
Hogs				
Sow (Farrow/wean)		6.5		
Dry Sow/Boar		4		
Feeder		3		
Nursery (33 lb.)		2		
Chickens				
Broilers		0.035		
Roasters/Pullets		0.04		
Layers		0.055		
Breeders		0.07		
Turkeys				
Turkey Growers		0.13		
Turkey Heavies		0.16		
Sheep/Goats				
Sheep/Goats		2		
Ewes/Does		3		
Lambs/Kids (90 lb.)	15000	1.6		24000
TOTAL (IG/day)				24000

For beef, dairy, bison and horse enterprises:
Use summer numbers if appropriate for the operation.
Otherwise base projections on winter values.
Always use the greater of the two values.

Enter this number on page 7 of Application Form.

Other consumption values:

Normal household consumption:
40-55 IG/day per person or
(180-250 l/day/person)

Hydrant flow:
10 Imperial GPM (45 l/min)

Unit Conversions		
Total per day	Total per year	Unit
24000	8760000	IG
109104	39822960	litres
109.104	39822.96	cubic decametres (dam ³)

Enter this number on page 7 of Application Form.

Conversion Factor: 1 IGPM = 4.546 l/m

Animal Type (A)	Animal Sub-type (B)	References (C)	Daily Manure Production			Production Period (Days) (G)	Number of Animals (Capacity) (H)	Total Manure Volume (ft ³) (F502a) (I)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gall) (J)
			Manure Type (D)	Default Manure Production (ft ³ /animal/day) (E)	Operation Manure Production (ft ³ /animal/day) (F)				
Dairy milking cows ¹ and associated livestock	Free Stall	Table 6, pg 59, FPGs for Dairy 1995	Semi-Solid ²	3.5				0.0	
			Solid	3.4					
			Liquid ³	3.5					0.0
			Semi-Solid ³	3.6					0.0
Beef	The Stall	pg 117, FPGs for Hogs 1998	Solid	3.5					
			Liquid ⁴	3.8				0.0	
	Loose Housing		Solid	3.0					
	Milking Parlour Manure and Washwater		Liquid	0.5					
Pigs	Beef cows including associated livestock	pg 117, FPGs for Hogs 1998	Solid	1.2					
	Backgrounder (200 day)		Solid	0.73					
	Summer pasture / replacement heifers		Solid	0.65					
	Feeder cattle		Solid	1.1					
Pigs	Sows - farrow to finish (234 - 254 lbs)	MAFRI website, FPGs for Pigs 2007	Liquid	2.3				0.0	
	Sows - farrow to wean (up to 11 lbs)		Liquid	0.8				0.0	
	Sows - farrow to nursery (51 lbs)		Liquid	1				0.0	
	Weanlings, Nursery (11 - 51 lbs)		Liquid	0.1				0.0	
Grower / Finisher (51 - 249 lbs)	Liquid	0.25					0.0		
Animal Type	Type of Operation		Yearly Manure Production			Production Period (Days)	Number of Birds (Capacity)	Total Manure Volume (ft ³) (F7345) (K)	Total Manure Volume for Semi-Solid and Liquid Manure (Imp Gall) (L)
			Default Manure Production (ft ³ /year/bird space)	Operation Manure Production (ft ³ /year/bird space)					
Chickens	Broilers - floor ⁵	Table 3, pg 85, FPGs for Poultry 2000		1.23					
	Broiler breeder hens /		2.3						
	Broiler breeder pullets ⁶		0.98						
	Roosters - floor ⁶		1.16						
	Layers - cage ⁶		2.33						
	Layers - floor ⁶		1.68						
	Layers - solid pack ⁶		0.71						
	Pullets - cage ⁶		0.75						
	Pullets - floor ⁶								
	Pullets - solid pack ⁶								
Turkeys	Broilers ⁷	Table 3, pg 85, FPGs for Poultry 2000		2.83					
	Heavy toms ⁸		5.58						
	Heavy hens ⁸		3.32						
			Manure production for feeder lambs						
			# lambs	Avg weight /bs	Unit Manure Production /day · 1000 ⁹ , lbs ¹⁰	Daily Manure Production /bs	Feedlot Occupancy /days	Yearly production /lbs/yr	Yearly production /t/yr
			15000	73	40	43800	365	15987000	7994

¹⁰ from: Nutrient management on sheep farms, <http://www.sheep101.edu/201/nutrientmg.html>

Slating of a manure storage facility in accordance with all requirements of the Livestock Manure and Mortalities Management Regulation (M.R. 42/98) is the responsibility of the operator.

Instructions and footnotes:

- ¹ ENTER the manure production estimate for your operation. If no estimate is available, use the default value provided in column E. References for default daily and yearly manure production are provided in column C.
- ² ENTER the number of days worth of manure that will be produced. For earthen manure storage facilities the minimum storage requirement is 400 days. For steel and concrete manure storage facilities the minimum storage requirement is 250
- ³ ENTER the total number of animals or birds that the operation can hold (e.g. barn or feedlot capacity).
- ⁴ Milking cows include all lactating and dry cows.
- ⁵ Default manure production estimates for semi-solid and liquid dairy manure include manure and washwater from the milking parlour.
- ⁶ 2 inches of wood shavings or 4 inches of straw placed on floor. Manure and litter removed from barn at 25% moisture content, with a density of 20 lb/ft³
- ⁷ One-third litter floor, two-thirds slatted floor. Manure and litter removed from barn at 40% moisture content, with a density of 25 lb/ft³
- ⁸ Manure removed from barn at 90% moisture content with a density of 59 lb/ft³
- ⁹ Poultry operations using litter (solid pack) must provide an estimate of yearly manure production

MANURE APPLICATION FIELD CHARACTERISTICS TABLE

A	B	C	D	E	F	G	H	I	J	K
Legal Description	Rural Municipality	O/L/A	Total Acreage	Setbacks, including features	Net Acreage for Manure Application	Agriculture Capability Class and Subclass	Soil Nitrate (lbs/acre) 0-24 inches	Soil Phosphorus (ppm Olsen P) 0-6 inches	Development Plan Designation	Zoning
1 NE 28-3-8E	Stuartburn	O	161	Prop. lines, Water, cl 6, O	18	4M5M	18	10	DP81/2008: LD	ZBL99/2011: LD
2 E½-NW 28-3-8E	Stuartburn	O	78.5	Prop lines, cl 6 soil	57	4M5M	5	25	DP81/2008: A1	ZBL99/2011: A1
3 SE 28-3-8E	Stuartburn	O	160.5	Prop lines, cl 6 O soils	103	4M	6	16	DP81/2008: LD	ZBL99/2011: LD
4 SW 28-3-8E	Stuartburn	O	153	Prop lines, future feedlot	80	4M	7	14	DP81/2008: A1	ZBL99/2011: A1
5 N½-SE35-3-8E	Stuartburn	A	80	Prop. lines, cl 6	12	4M	5	4	DP81/2008: A1	ZBL99/2011: A1
6 NW26-3-8E	Stuartburn	A	160	Prop. lines, cl 6 soil	69	4M	20	5	DP81/2008: A1/LD	ZBL99/2011: A1/LD
7 SW26-3-8E	Stuartburn	A	160	Prop. lines, water, cl 6	3	3M1	2	7	DP81/2008: LD	ZBL99/2011: LD
8 SW35-3-8E	Stuartburn	A	160	Prop lines, cl 6	110	4M	2	5	DP81/2008: A1	ZBL99/2011: A1
9 NE21-3-8E	Stuartburn	L	160	Prop lines, surf water, bush	85	4M3M1	2	13	DP81/2008: LD	ZBL99/2011: LD
10 SE21-3-8E	Stuartburn	L	80	Prop lines, bush	32	4M3M1	2	19	DP81/2008: LD	ZBL99/2011: LD
11 NW21-3-8E	Stuartburn	L	160	Prop lines, surf water, cl 6	105	4M	11	23	DP81/2008: A1	ZBL99/2011: A1
12 SE32-3-8E	Stuartburn	A	80	Prop lines, surf water, cl 6	49	4M	13	2.2	DP81/2008: A1	ZBL99/2011: A1
13 NE32-3-8E	Stuartburn	A	160	Property lines, surf water	155	4M5W	6	13	DP81/2008: A1	ZBL99/2011: A1
14 NE29-3-8E	Stuartburn	A	160	Prop lines, surf water, cl 6	112	5W4M	7	6	DP81/2008: A1	ZBL99/2011: A1
15 SE 18-3-8E	Stuartburn	A	120	Prop lines, surf. Water	100	3M2MP	13	3	DP81/2008: A1	ZBL99/2011: A1
16 SW17-3-8E	Stuartburn	A	160	Prop lines, surf. Water	155	2MP5W3M	6	6	DP81/2008: A1	ZBL99/2011: A1
17 SW36-2-10E	Piney	A	147	Prop. lines, Water, O soils	45	2MP	18	5	DP81/2008: A1	ZBL99/2011: A1
18 SW34-3-8E	Stuartburn	A	160	Prop lines, surf water, O soils	146	5W4M	8	4	DP81/2008: A1	ZBL99/2011: A1
19 NE 35-3-8E	Stuartburn	A	160	Prop lines, surf water, cl 6	38	4M	6	8	DP81/2008: A1	ZBL99/2011: A1
20 NE20-1-8E	Stuartburn	A	160	Prop lines	155	3M5W3P	5	15	DP81/2008: A1	ZBL99/2011: A1
Total Net Acreage for Manure Application:					1629					

A. Enter the legal description for each parcel of land that will receive manure. Sec, Twp, Rge or River Lot (Including parish).

B. Identify the Rural Municipality in which the parcel is located.

C. Indicate how the land has been secured for manure application: O – Own / L – Lease / A – Agreement

D. Enter the total acreage for the parcel.

E. Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (e.g. 8m, Order 3 drain).

F. Enter the net long-term acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils.

G. Enter the agriculture capability class and subclass ratings for the acreage available for manure application.

H. Provide soil test results for nitrate-N in lb/ac at the 0-24 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing

I. Provide soil test results for phosphorus ppm Olsen P at 0-6 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing

J. Please indicate the Development Plan and its by-law number in addition to the map designation for each field

K. Please indicate the Zoning By-law and its by-law number in addition to the zoning for each field

MANURE APPLICATION FIELD CHARACTERISTICS TABLE

Field	A	B	C	D	E	F	G	H	I	J	K
	Legal Description	Rural Municipality	O/L/A	Total Acreage	Setbacks, including features	Net Acreage for Manure Application	Agriculture Capability Class and Subclass	Soil Nitrate (lb/acre) 0-24 Inches	Soil Phosphorus (ppm Olsen P) 0-8 inches	Development Plan Designation	Zoning
1	SW20-1-8E	Stuartburn	A	160	Prop lines	155	5W3M	7	13	DP81/2008: LD	ZBL98/2011: LD
2	SE20-1-8E	Stuartburn	A	160	Prop lines	130	5W3M	5	7	DP81/2008: A1	ZBL98/2011: A1
3	SW8-1-8E	Stuartburn	A	160	Prop lines	143	5W3MI	8	6	DP81/2008: LD	ZBL98/2011: LD
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
Total Net Acreage for Manure Application:						428					

A. Enter the legal description for each parcel of land that will receive manure: Sec, Twp, Rge or River Lot (including parish).

B. Identify the Rural Municipality in which the parcel is located.

C. Indicate how the land has been secured for manure application: O - Own / L - Lease / A - Agreement

D. Enter the total acreage for the parcel.

E. Enter setbacks from surface water or groundwater features that reduce the land available for manure application; include identification of type of feature (e.g. 8m, Order 3 drain).

F. Enter the net long-term acreage available for manure application for the parcel after taking into account setbacks and excluding Class 6, 7 and unimproved organic soils.

G. Enter the agriculture capability class and subclass ratings for the acreage available for manure application.

H. Provide soil test results for nitrate-N in lb/ac at the 0-24 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing

I. Provide soil test results for phosphorus ppm Olsen P at 0-8 inch depth. Soil test results must be no more than 12 months old and must be completed by an accredited soil-testing

J. Please indicate the Development Plan and its by-law number in addition to the map designation for each field

K. Please indicate the Zoning By-law and its by-law number in addition to the zoning for each field

Nutrients Excreted	lbs
Nitrogen	106880
P2O5	63732
Crop Nutrient Use	lb/ac
Nitrogen Uptake	94.6
P2O5 Removal	25.6
Land Base Requirements	acres
Acres Available	1436
Acres for Nitrogen Uptake	1130
Acres for 2 x P2O5 Removal	1247
Acres for 1 x P2O5 Removal	2493

Sheep/Operation Type	Storage Type	Volatilization	Animal Numbers	Weight In lb	Weight Out lb	Ave Weight lb	Days on Feed	Cycles per Year	N Excreted per Flock adjusted for Loss lb/flock/yr	P2O5 Excreted Per Flock lb/flock/yr
Ewes	Field Storage	40%	0	120	170	145	365	1	0	0
Replacement Ewes	Field Storage	40%	0	45	80	63	210	1	0	0
Rams	Field Storage	40%	0	100	200	150	365	1	0	0
Lambs	Field Storage	40%	0	8	45	27	70	1.4	0	0
Ewes, plus assoc livestock Feeder	Field Storage Compost	40%	0 15000	na 45	na 100	na 73	na 91	na 4	0 106880	0 63732

Crop	Removal		Uptake		Yield	Units	Acreage	Removal		Uptake	
	P2O5 (lb)	N (lb)	P2O5 (lb)	N (lb)				P2O5 (lb)	N (lb)		
Alfalfa	13.8	58	58	lb/ton	2.159	ton/ac	452	13467	56600	56600	56600
Barley Grain	0.42	0.97	1.39	lb/bu		bu/ac					
Barley Silage	11.8	34.4	34.4	lb/ton		ton/ac					
Canola	1.04	1.93	3.19	lb/bu		bu/ac					
Corn Grain	0.44	0.97	1.53	lb/bu	87.6	bu/ac	84	3238	7138	11258	11258
Corn Silage	12.7	31.2	31.2	lb/ton	3.11	tons/ac	237	9361	22997	22997	22997
Dry Edible Beans	1.39	4.17		lb/cwt		cwt/ac					
Fababeans	1.79	5.02	8.4	lb/cwt		cwt/ac					
Flax	0.65	2.13	2.88	lb/bu		bu/ac					
Grass Hay	10	34.2	34.2	lb/ton	1.419	tons/ac	531	7535	25769	25769	25769
Lentils	1.03	3.39	5.08	lb/cwt		cwt/ac					
Oats	0.26	0.62	1.07	lb/bu		bu/ac					
Pasture (grazed)	10	34.2	34.2	lb/ton	0.5	ton/ac					
Peas	0.69	2.34	3.06	lb/bu		bu/ac					
Potatoes	0.09	0.32	0.57	lb/cwt		cwt/ac					
Rye	0.45	1.06	1.67	lb/bu		bu/ac					
Soybeans	0.84	3.87	5.2	lb/bu	28	bu/ac	132	3105	14304	19219	19219
Sunflower	1.1	2.8		lb/cwt		cwt/ac					
Wheat - Spring	0.59	1.5	2.11	lb/bu		bu/ac					
Wheat - Winter	0.51	1.04	1.35	lb/bu		bu/ac					
Sub Total							1436	36705	126807	135844	135844
Estimated Average Removal/Uptake (lb/ac)								25.6	88.3	94.6	
Additional Acres											
Crop Planned on Additional Acres											
Total Suitable Acres Available for Manure							1436				

Estimated Average Removal/Uptake (lb/ac)

Additional Acres

Crop Planned on Additional Acres

Total Suitable Acres Available for Manure

Note: Additional acres include acres that are suitable and available for manure application but are seeded to crops that are not included in the table. Include the crop to be grown in the row below.

Species	Animal Category/Operation type	N (lb/year)	P205 (lb/year)
Pigs	Gestating Sow	0	0
	Nursing Sow	0	0
	Gilts	0	0
	Boars	0	0
	Sows, farrow to 5 kg	0	0
	Sows, farrow to 23 kg	0	0
	Sows, farrow to finish	0	0
Beef	Weanlings	0	0
	Growers/finishers	0	0
	Mature Cows (>2 years old)	0	0
	Bred Heifer (14 mo - 2 years)	0	0
	Replacement Heifers (7 mo-14 mo)	0	0
	Unweaned Calves (0-7 mo)	0	0
	Bulls	0	0
	Mature Cows and Bred Heifers, plus associated livestock	0	0
	Feedlot Cattle - long keep	0	0
	Feedlot Cattle - short keep	0	0
Dairy	Backgrounders - pasture	0	0
	Backgrounders - confined	0	0
	Lactating cow	0	0
	Dry cow	0	0
	Calif, 0-3 months	0	0
	Calif, 4-13 months	0	0
	Replacements, >13 months	0	0
	Mature Cows, plus assoc livestock	0	0
	Ewes	0	0
	Replacement Ewes	0	0
Sheep	Lambs	0	0
	Lambs	0	0
	Ewes, plus assoc livestock	0	0
	Feeder	1,068,000	637,732
	Broilers	0	0
	Broiler Breeder Pullets	0	0
	Broiler Breeder Hens	0	0
	Layer Pullets	0	0
	Layer Hens	0	0
	Breeder Pullets	0	0
Layers	Breeder Hens	0	0
	Broiler Hens (0-9 wks)	0	0
	Hens (0-11 wks)	0	0
	Heavy Hens (0-14 wks)	0	0
	Light Hens (0-12 wks)	0	0
	Toms (0-13 wks)	0	0
	Heavy Toms (0-15 wks)	0	0
	Breeding Hen Growers (0-30 wks)	0	0
	Breeding Hens (30-60 wks)	0	0
	Breeding Tom Grower (0-18 wks)	0	0
Turkeys	Breeding Tom Grower (0-30 wks)	0	0
	Breeding Tom (30-60 wks)	0	0
	Breeding Tom (30-60 wks)	0	0
	Breeding Tom (30-60 wks)	0	0
Total	1,068,000	637,732	

Be sure all livestock species on your farm are represented in this table. Not just the proposed expansion.

Sylvio Testier

From: "Friszen, Chris (CWS)" <Chris.Friszen@gov.mb.ca>
Date: Thursday, July 16, 2015 12:01 PM
To: "Sylvio Testier" <sylvio.testier@myrmta.net>
Subject: FW: Lamb Feedlot Proposal

Sylvio

In response to phone message - I believe the response below is for the same request. If not, please let me know.

Chris Friszen
Coordinator
Manitoba Conservation Data Centre
204-945-7747
chris.friszen@gov.mb.ca
<http://www.gov.mb.ca/conservation/code/>

-----Original Message-----

From: Friszen, Chris (CWS)
Sent: May-29-15 1:05 PM
To: Sylvio Testier
Subject: Lamb Feedlot Proposal

Sylvio

Thank you for your information request. I completed a search of the Manitoba Conservation Data Centre's rare species database and found no occurrences at this time for your area of interest.

The information provided in this letter is based on existing data known to the Manitoba Conservation Data Centre at the time of the request. These data are dependent on the research and observations of CDC staff and other reflect our current state of knowledge. An absence of data in any particular geographic area does not necessarily mean that species or ecological communities of concern are not present. In many areas, comprehensive surveys. Therefore, this information should be regarded neither as a final statement on the occurrence of any species of concern, nor as a substitute for on-site surveys for species as part of environmental assessments.

Because the Manitoba CDC's Bionets database is continually updated and because information requests are evaluated by type of action, any given response is only appropriate for its respective request. Please contact the Mar natural heritage information if more than six months pass before it is utilized.

Third party requests for products wholly or partially derived from Bionets must be approved by the Manitoba CDC before information is released. Once approved, the primary user will identify the Manitoba CDC as data on using Bionets data, as follows as: Data developed by the Manitoba Conservation Data Centre, Wildlife Branch, Manitoba Conservation and Water Stewardship.

This letter is for information purposes only - it does not constitute consent or approval of the proposed project or activity, nor does it negate the need for any permits or approvals required by the Province of Manitoba.

We would be interested in receiving a copy of the results of any field surveys that you may undertake, to update our database with the most current knowledge of the area.

If you have any questions or require further information please contact me directly at (204) 945-7747.

Chris Friszen
Coordinator
Manitoba Conservation Data Centre
204-945-7747
chris.friszen@gov.mb.ca
<http://www.gov.mb.ca/conservation/code/>

-----Original Message-----

From:
Sent: May-19-15 8:48 AM
To: Friszen, Chris (CWS)
Subject: WWV Form Submission

Below is the result of your feedback form. It was submitted by WWV Information Request () on Tuesday, May 19, 2015 at 08:48:08

DocumentID: Manitoba_Conservation

Document Title: Lamb Feedlot Proposal

City: Winnipeg

Province/State: MB

Phone: 204-290-7797

Fax: 204-668-9204

Email: xybno.ksaisicrj.mvmts.nd

Project Description: Hi Chris,

We're working on a proposal for a new livestock operation in the RM of Stuartburn. Could you please verify if there would be any rare or endangered species on that quarter section or general area? We're a bit behind the ball with this one, so if you can squeeze this request in good time, we'd be much obliged.

Thanks.

Sylvio Tessier, P.Eng.
South-Man Engineering.

Information Requested: Any potential endangered species that could be affected

Format Requested: E-mail is fine

Location: SW28-3-8E

action: Submit



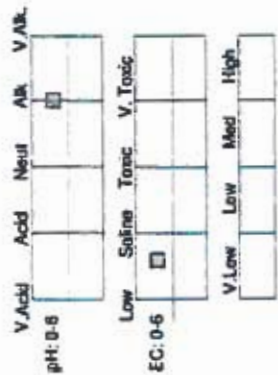
Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Four Oak Ag Solutions
 Box 131
 Kleeferd, Manitoba RDA 0V0
Attention: Marcus Dueck
Client ID: 14-0027

Grower: CANADA SHEEP & LAMB
Grower Field Name:
Reference Field Name: NE 28-3-8 E1
Legal Location:
Total Acres:
Sampler: MARCUS

Lot Number: 150507_015
Date Sampled: 2015/05/07
Received Date: 2015/05/07
Date Reported: 2015/05/08

Sample ID	Depth	N ppm	P ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
150507_015-01	0-6	3	10.0	230	21										8.0	1.12	
150507_015-02	6-24	2			8												



CEC (meq/100g):	Ca Base Saturation (%):	Mg Base Saturation (%):
Base Saturation (%):	K Base Saturation (%):	Na Base Saturation (%):
Sand (%):	Silt (%):	Clay (%):
Texture:		

Total lb/Ac measured:	18	20	460	89
Estimated lb/Ac to 24 inch:	18			89

Recommendation:
 Bicarbonate-Extractable (Olsen) Phosphate



Interpretive Guidelines and Class Limits are based on accepted guidelines. The client is advised to consult with an agronomic professional for detailed interpretation. Farmer's Edge Laboratories limits liability to the cost of the analysis.

Report To: 4 Oak Ag Solutions Box 131 Kleefeld, Manitoba R0A 0V0	Grower: CANADA SHEEP & LAMB Grower Field Name: NW 28-3-8 E Reference Field Name: <i>East half</i> Legal Location: NW 28-3-8 E1	Lot Number: 140819_008 Date Sampled: 2014/08/19 Received Date: 2014/08/19 Date Reported: 2014/08/20
Attention: Marcus Dueck	Total Acres:	
Client ID: 14-0027	Sampler: MARCUS	

Sample ID	Depth	N ppm	P* ppm	K ppm	S ppm	Ca ppm	Mg ppm	Na ppm	B ppm	Cu ppm	Fe ppm	Mn ppm	Zn ppm	Cl ppm	pH	EC dS/m	OM %
140819_006-01	0-6	2	25.0	76	6										8.4	0.29	
140819_006-02	6-24	<1			3												



	V. Acid	Acid	Neut	Alk	V. Alk
pH: 0-6					<input type="checkbox"/>
EC: 0-6	<input type="checkbox"/>				
	V. Low	Low	Med	High	

	N	P	K	S
0-6 lb/Ac:	4	50	152	12
6-24 lb/Ac:	<6			16
Total lb/Ac measured:	5	50	152	28
Estimated lb/Ac to 24 inch:	5			28

CEC (meq/100g):
Base Saturation (%):
Ca Base Sat. (%):
K Base Sat. (%):
Mg Base Sat. (%):
Na Base Sat. (%):
Sand (%):
Silt (%):
Clay (%):
Texture:

Lab Comments:
Bicarbonate-Extractable (Olsen) Phosphate

Fertility Recommendation		Previous Crop: Grass (hay)				<input checked="" type="checkbox"/> Straw Removed				<input checked="" type="checkbox"/> Continuous Cropping				<input type="checkbox"/> Irrigated	
Yield Type	Rain Required (Inch)	Yield	% Yield Reduction	N	P2O5	K2O	S	B	Cu	Fe	Mn	Zn	Cl		
Grass (hay)															
Calculated Yield	10.1 (Wet)	81 cwt	0	135	50	60	5								
Calculated Yield	7.8 (Average)	61 cwt	0	130	40	50	0								
Calculated Yield	4.8 (Dry)	40 cwt	0	70	30	40	0								

Fertility recommendations are based on spring banding of N, S and seed placement of P, K. Consider total seed row fertilizer with regard to seeding damage. Potato, Sugar Beet and Grass yield units are cwt/acre, harvested at 15% moisture. Dividing cwt/ac by 20 converts yield units to tons/ac. High nitrogen rates may be more effective as split application. For forages, P2O5 and K2O recommendations are for broadcast application. For banded or spoke wheel placement, the rate may be reduced by 1/3 to 1/2. The rate of P2O5 application is higher than the maximum recommended seed-placed P2O5 rate for the first crop (> 20 lbs/acre). The remaining may be banded. The rate of Phosphorus application is based on seed-placement. Broadcasting and incorporation requirement on the average is 2.5 times that of seed-placement.



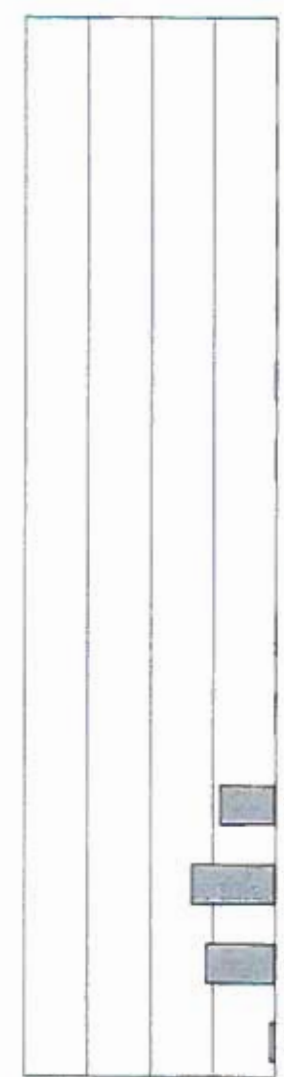
Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Four Oak Ag Solutions
Box 131
Kleeleld, Manitoba R0A 0V0
Attention: Marcus Dueck
Client ID: 14-0027

Grower: CANADA SHEEP & LAMB
Grower Field Name: 3
Reference Field Name: SE 28-3-8 E1
Legal Location: 160
Total Acres: MARCUS
Sampler:

Lot Number: 150424_061
Date Sampled: 2015/04/23
Received Date: 2015/04/24
Date Reported: 2015/04/27

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	dS/m	%	
150424_061-01	0-6	3	16.0	100	3										7.4	0.28	
150424_061-02	6-24	<1			<2												



CEC (meq/100g): Ca Base Saturation (%):
Base Saturation (%): K Base Saturation (%):
Sand (%): Silt (%): Clay (%):
Mg Base Saturation (%):
Na Base Saturation (%):
Texture:

Total lb/Ac measured: 6 32 200 7
Estimated lb/Ac to 24 inch: 6 6 <12 7

Recommendation:

Comments:

* Bicarbonate-Extractable (Olsen) Phosphate



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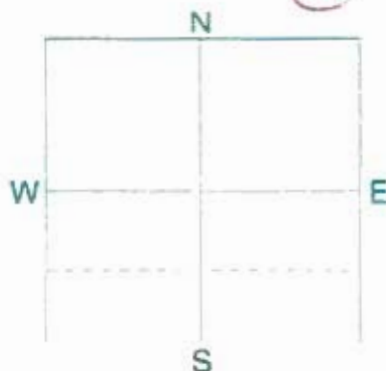




Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **SW 28-03-08E**
 SAMPLE ID
 FIELD NAME **SW 28-03-08E**
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep and Lamb

SUBMITTED BY: **DU4426**
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB RDA 0V0

REF # **1012151** BOX # **0**
 LAB # **NW91397**

Date Sampled **09/29/2014**

Date Received **10/08/2014**

Date Reported **4/16/2015**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
			Corn-Grain		Corn-Silage		Grass/Pasture		
			YIELD GOAL		YIELD GOAL		YIELD GOAL		
			150 BU		14 Tons		6 Tons		
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
			Broadcast		Broadcast		Broadcast		
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Nitrate	0-6" 4 lb/ac 6-24" 3 lb/ac 0-24" 7 lb/ac		N 173		N 139		N 173		
Phosphorus	Olsen 14 ppm	.....	P ₂ O ₅ 67 Broadcast		P ₂ O ₅ 60 Broadcast		P ₂ O ₅ 25 Broadcast	
Potassium	67 ppm	.....	K ₂ O 134 Broadcast		K ₂ O 109 Broadcast		K ₂ O 88 Broadcast	
Chloride			Cl		Cl		Cl		
Sulfur	0-6" 24 lb/ac 6-24" 36 lb/ac	.....	S 15 Broadcast (Trial)		S 15 Broadcast (Trial)		S 15 Broadcast (Trial)	
Boron			B		B		B		
Zinc	1.47 ppm	.....	Zn 0		Zn 0		Zn 0	
Iron			Fe		Fe		Fe		
Manganese			Mn		Mn		Mn		
Copper	0.32 ppm	.....	Cu 0		Cu 0		Cu 0	
Magnesium			Mg		Mg		Mg		
Calcium			Lime		Lime		Lime		
Sodium									
Org. Matter	2.2 %	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)		
Carbonate(CCE)			Buffer pH				% Ca	% Mg	% K
	0-6" 0.19 mmho/cm 6-24" 0.1 mmho/cm							
Sol. Salts		**	0-6" 7.4 6-24" 7.3						

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 60 K2O = 41 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 50 K2O = 116 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 72 K2O = 270 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Four Oak Ag Solutions
 Box 131
 Kleeheid, Manitoba R0A 0V0
Attention: Marcus Dueck
Client ID: 14-0027

Grower: CANADA SHEEP & LAMB
Grower Field Name: 5 NORTH HALF
Reference Field Name: SE 35-3-8 E1
Legal Location: 80
Total Acres: 80
Sampler: MARCUS

Lot Number: 150424_062
Date Sampled: 2015/04/23
Received Date: 2015/04/24
Date Reported: 2015/04/27

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		dS/m	%
150424_062-01	0-6	2	4.2	32	3										8.0	0.32	
150424_062-02	6-24	<1			<2												



CEC (meq/100g):
 Base Saturation (%):
 Sand (%):
 Silt (%):
 Clay (%):

Texture:

Total lb/Ac measured:
 Estimated lb/Ac to 24 inch:

Recommendation:
 Comments:
 * Bicarbonate-Extractable (Olsen) Phosphate



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Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

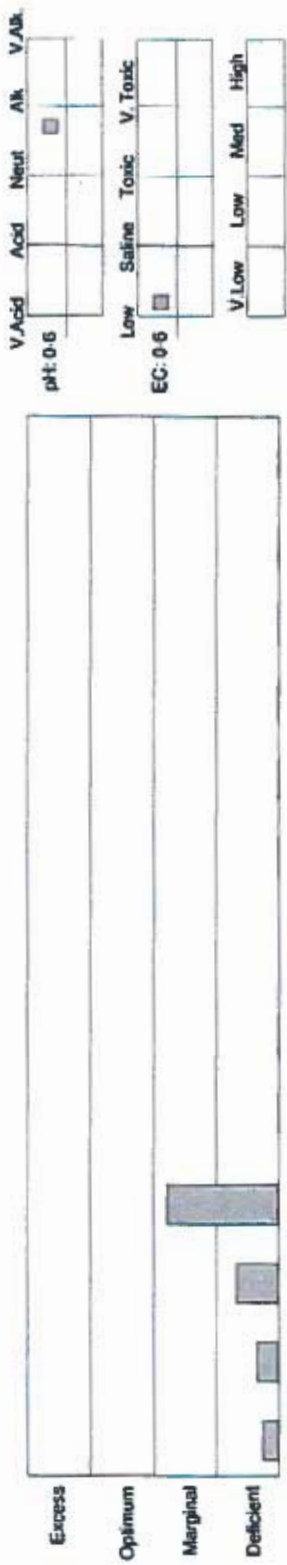
Report To: Four Oak Ag Solutions
 Box 131
 Kleeheid, Manitoba R0A 0V0

Grower: CANADA SHEEP & LAMB
Grower Field Name: 6
Reference Field Name: NW 26-3-8 E1
Legal Location: 160
Total Acres: 160
Sampler: MARCUS

Lot Number: 150424_063
Date Sampled: 2015/04/23
Received Date: 2015/04/24
Date Reported: 2015/04/27

Attention: Marcus Dueck
Client ID: 14-0027

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		dS/m	%
150424_063-01	0-6	2	5.1	50	4										7.7	0.31	
150424_063-02	6-24	3			3												



CEC (meq/100g):
 Base Saturation (%):
 Sand (%): Silt (%): Clay (%):

Mg Base Saturation (%):
 Na Base Saturation (%):

Ca Base Saturation (%):
 K Base Saturation (%):

Total lb/Ac measured: 20 10 100 25
 Estimated lb/Ac to 24 inch: 20

Recommendation:

Comments:

* Bicarbonate-Extractable (Olsen) Phosphate



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Report To: Four Oak Ag Solutions
 Box 131
 Kleeheid, Manitoba R0A 0V0

Grower: CANADA SHEEP & LAMB
Grower Field Name: 7
Reference Field Name: SW 26-3-8 E1
Legal Locallion: 160
Total Acres: 160
Sampler: MARCUS

Lot Number: 150424_064
Date Sampled: 2015/04/23
Received Date: 2015/04/24
Date Reported: 2015/04/27

Attention: Marcus Dueck
Client ID: 14-0027

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	dS/m	%	
150424_064-01	0-6	<1	7.0	49	3										7.9	0.32	
150424_064-02	6-24	<1			4												



CEC (meq/100g): Ca Base Saturation (%):
Base Saturation (%): K Base Saturation (%):
Sand (%): Silt (%): Clay (%):
Mg Base Saturation (%):
Na Base Saturation (%):
Texture:

Total lb/Ac measured: 2 14 98 32
Estimated lb/Ac to 24 inch: 2 14 98 32

Recommendation:

Comments:

* Bicarbonate-Extractable (Olsen) Phosphate



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Four Oak Ag Solutions
 Box 131
 Kleeferd, Manitoba R0A 0V0
 Attention: Marcus Dueck
 Client ID: 14-0027

Grower: CANADA SHEEP & LAMB
 Grower Field Name: 8
 Reference Field Name: SW 35-3-8 E1
 Legal Location: 160
 Total Acres: MARCUS
 Sampler:

Lot Number: 150424_065
 Date Sampled: 2015/04/23
 Received Date: 2015/04/24
 Date Reported: 2015/04/27

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm		dS/m	%
150424_065-01	0-6	<1	4.5	61	3										7.5	0.29	
150424_065-02	6-24	<1			<2												



CEC (meq/100g):
 Base Saturation (%):
 Ca Base Saturation (%):
 K Base Saturation (%):
 Sand (%): Silt (%): Clay (%):
 Mg Base Saturation (%):
 Na Base Saturation (%):
 Texture:

Total lb/Ac measured:	2	9	122	8
Estimated lb/Ac to 24 inch:	2	9	122	8

Recommendation:
 Comments:
 * Dicalcium Phosphate (Olsen) Phosphate



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Four Oak Ag Solutions
 Box 131
 Kleefteld, Manitoba R0A 0V0
Grower: CANADA SHEEP & LAMB
 Grower Field Name: 11
 Reference Field Name:
 Legal Location: NE 21-3-8 E1
 Total Acres: 160
 Sampler: MARCUS
Lot Number: 150424_068
Date Sampled: 2015/04/23
Received Date: 2015/04/24
Date Reported: 2015/04/27

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	dS/m	%	
150424_068-01	0-6	<1	13.0	42	2										7.7	0.25	
150424_068-02	6-24	<1			<2												



CEC (meq/100g):
 Base Saturation (%):
 Sand (%):
 Silt (%):
 Clay (%):
 Ca Base Saturation (%):
 K Base Saturation (%):
 Mg Base Saturation (%):
 Na Base Saturation (%):

Total lb/Ac measured: 2 26 84 6
 Estimated lb/Ac to 24 inch: 2

Recommendation:
 Comments:
 • Bicarbonate-Extractable (Olsen) Phosphate



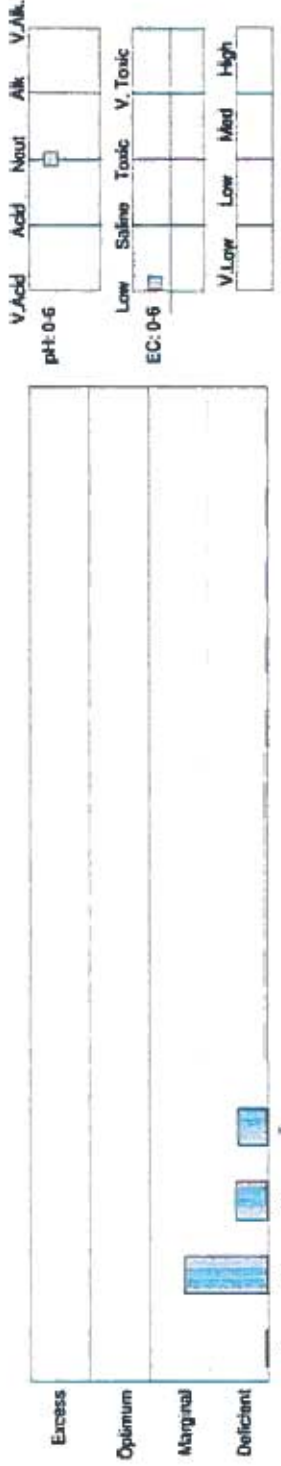
Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Four Oak Ag Solutions
 Box 131
 Kleeferd, Manitoba R0A 0V0
Attention: Marcus Dueck
Client ID: 14-0027

Grower: CANADA SHEEP & LAMB
Grower Field Name: 12
Reference Field Name: SE 21-3-8 E1
Legal Location: 80
Total Acres: 80
Sampler: MARCUS

Lot Number: 150424_069
Date Sampled: 2015/04/23
Received Date: 2015/04/24
Date Reported: 2015/04/27

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	dS/m	%	
150424_069-01	0-6	<1	19.0	40	<2										7.0	0.14	
150424_069-02	6-24	<1			<2												



CEC (meq/100g): **Ca Base Saturation (%):**
Base Saturation (%): **K Base Saturation (%):**
Sand (%): **Silt (%):** **Clay (%):**

0-6 lb/Ac: **2** **38** **80** **<4**
6-24 lb/Ac: **2** **38** **80** **<12**

Total lb/Ac measured: **2** **38** **80** **4**
Estimated lb/Ac to 24 inch: **2** **38** **80** **4**

Recommendation:

Comments:

• Bicarbonate-Extractable (Olsen) Phosphate

Report To: Four Oak Ag Solutions
 Box 131

Grower: CANADA SHEEP & LAMB

Lot Number: 150424_066

Kleeefeld, Manitoba R0A 0V0

Grower Field Name:

Date Sampled: 2015/04/23

Legal Location: NW 21-3-8 E1

Reference Field Name:

Received Date: 2015/04/24

Total Acres: 80

Legal Location: NW 21-3-8 E1

Date Reported: 2015/04/27

Attention: Marcus Dueck

Total Acres: 80

Client ID: 14-0027

Sampler: MARCUS

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	dS/m	%	
150424_066-01	0-6	2	23.0	130	5										7.6	0.41	
150424_066-02	6-24	1			2												



CEC (meq/100g):
 Base Saturation (%):
 Sand (%):
 Silt (%):
 Clay (%):
 Ca Base Saturation (%):
 K Base Saturation (%):
 Mg Base Saturation (%):
 Na Base Saturation (%):
 Texture:

Comments:

* Bicarbonate Extractable (Olsen) Phosphorus

Depth	Total lb/Ac measured:	Estimated lb/Ac to 24 inch:
0-6	46	23
6-24	260	23

Recommendation:



Farmers Edge Laboratories
 1357 Dugald Road
 Winnipeg, Manitoba Canada
 R2J 0H3
 Phone: 1 204 233 4099

Report To: Four Oak Ag Solutions
 Box 131
 Kleeefeld, Manitoba R0A 0V0

Grower: CANADA SHEEP & LAMB

Lot Number: 150527_021

Date Sampled: 2015/05/27

Received Date: 2015/05/27

Date Reported: 2015/05/28

Attention: Marcus Dueck

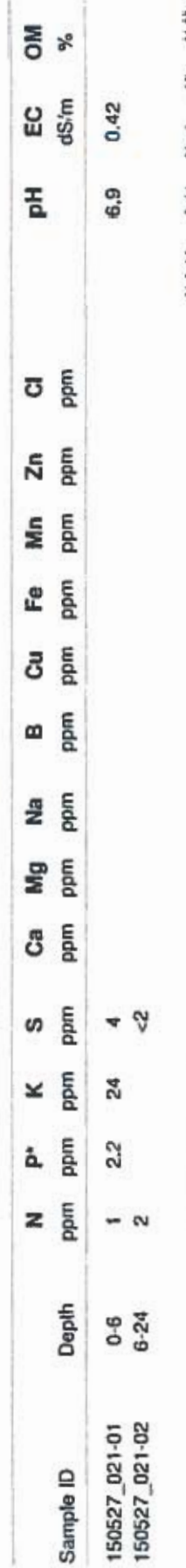
Client ID: 14-0027

Legal Location: SE 32-3-8B E1

Total Acres: 80

Sampler: MARCUS

Sample ID	Depth	N	P*	K	S	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH	EC	OM
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	dS/m	%	
150527_021-01	0-6	1	2.2	24	4										6.9	0.42	
150527_021-02	6-24	2			<2												



Sample ID	Depth	Ca	Mg	Na	B	Cu	Fe	Mn	Zn	Cl	pH 0-6	V. Acid	Acid	Neut	Alk	V. Alk
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm						
150527_021-01	0-6															
150527_021-02	6-24															

CEC (meq/100g): Ca Base Saturation (%):
Base Saturation (%): K Base Saturation (%):
Sand (%): Silt (%): Clay (%):

Mg Base Saturation (%):
Na Base Saturation (%):

Total lb./Ac measured: 15 4 48 11
Estimated lb./Ac to 24 inch: 15 11

Recommendation:

Comments:

* Bicarbonate-Extractable (Olsen) Phosphate



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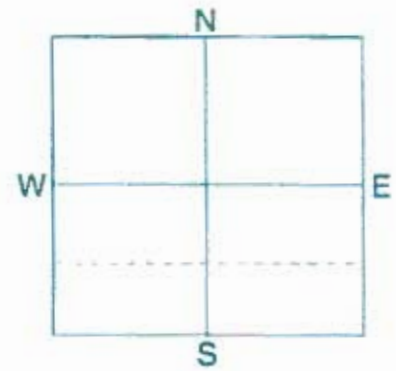




Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **NE 32-03-08E**
 SAMPLE ID
 FIELD NAME **NE 32-03-08E**
 COUNTY **Nestor Ewacha**
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB ROA 0V0

REF # **1274800** BOX # **0**
 LAB # **NW72022**

Date Sampled **09/04/2015**

Date Received **09/11/2015**

Date Reported **9/13/2015**

Nutrient In The Soil		Interpretation			1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
			Low	Med	High								
Nitrate	0-6"	3 lb/ac				Grass/Pasture							
	6-24"	3 lb/ac				YIELD GOAL	YIELD GOAL	YIELD GOAL					
	0-24"	6 lb/ac				6 Tons	0	0					
						SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES					
Phosphorus	Olsen	13 ppm	.....			Broadcast						
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Potassium		51 ppm	.....			N	174	N		N		
						P ₂ O ₅	30 Broadcast	P ₂ O ₅		P ₂ O ₅			
Sulfur	0-6"	14 lb/ac	.....			K ₂ O	98 Broadcast	K ₂ O		K ₂ O		
	6-24"	30 lb/ac	.....			Cl		Cl		Cl		
Zinc		2.48 ppm	.....			S	20 Broadcast	S		S		
						B		B		B			
Iron						Zn	0	Zn		Zn			
						Fe		Fe		Fe			
Manganese						Mn		Mn		Mn			
						Cu	0	Cu		Cu			
Copper		0.76 ppm	.....			Mg		Mg		Mg		
						Lime		Lime		Lime			
Magnesium						Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
									% Ca	% Mg	% K	% Na	% H
Calcium	0-6"	0.18 mmho/cm			0-6"	8.1						
	6-24"	0.15 mmho/cm	...			6-24"	8.4						
Sodium													
Org.Matter		2.9 %										
Carbonate(CCE)													
Sol. Salts													

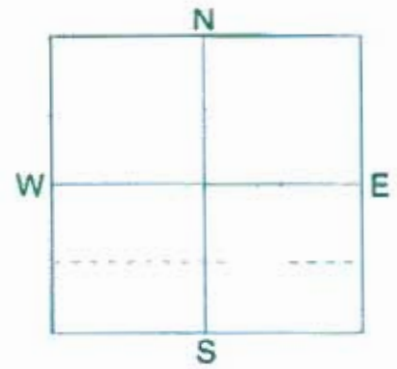
Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P₂O₅ = 72 K₂O = 270 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **NE 29-03-08E**
 SAMPLE ID
 FIELD NAME **NE 29-03-08E**
 COUNTY **Bruce Dueck**
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB ROA 0V0

REF # **1274801** BOX # **0**
 LAB # **NW72020**

Date Sampled **09/04/2015**

Date Received **09/11/2015**

Date Reported **9/13/2015**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
Depth	Concentration		Yield Goal	Application	Yield Goal	Application	Yield Goal	Application	
Nitrate			Grass/Pasture						
0-6"	4 lb/ac		YIELD GOAL		YIELD GOAL		YIELD GOAL		
6-24"	3 lb/ac		6 Tons		0		0		
0-24"	7 lb/ac		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
			Broadcast						
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Olsen	6 ppm	.....	N	173	N		N	
Phosphorus			P ₂ O ₅	66 Broadcast	P ₂ O ₅		P ₂ O ₅		
Potassium	62 ppm	.....	K ₂ O	91 Broadcast	K ₂ O		K ₂ O	
Chloride			Cl		Cl		Cl		
0-6"	24 lb/ac	.....	S	10 Broadcast (Trial)	S		S	
6-24"	36 lb/ac	.....	B		B		B	
Sulfur			Zn	0	Zn		Zn		
Boron			Fe		Fe		Fe		
Zinc	1.67 ppm	.....	Mn		Mn		Mn	
Iron			Cu	0	Cu		Cu		
Manganese			Mg		Mg		Mg		
Copper	1.04 ppm	.....	Lime		Lime		Lime	
Magnesium			Soil pH		Buffer pH		Cation Exchange Capacity		
Calcium							% Base Saturation (Typical Range)		
Sodium							% Ca	% Mg	% K
Org Matter	9.0 %					% Na	% H	
Carbonate(CCE)									
0-6"	0.28 mmho/cm	0-6"	8.0					
6-24"	0.16 mmho/cm	6-24"	8.2					
Sol. Salts									

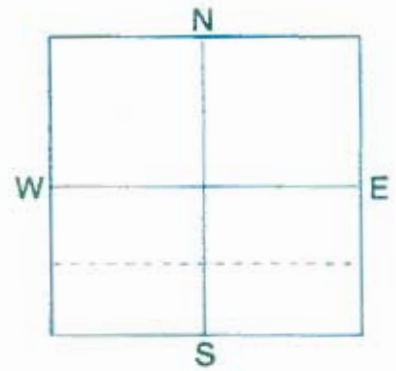
Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 72 K2O = 270 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **SE 18-03-08E**
 SAMPLE ID
 FIELD NAME **SE 18-03-08E**
 COUNTY **Dean Wall**
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB **ROA 0V0**

REF # **1274803** BOX # **0**
 LAB # **NW72019**

Date Sampled **09/04/2015**

Date Received **09/11/2015**

Date Reported **9/13/2015**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice				
		None	Low	Med	High	Grass/Pasture								
Nitrate	0-6"	4 lb/ac				YIELD GOAL		YIELD GOAL		YIELD GOAL				
	6-24"	9 lb/ac	***			6 Tons		0		0				
	0-24"	13 lb/ac				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES				
Phosphorus	Olsen	3 ppm	*****			Broadcast								
						LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION			
Potassium		107 ppm	*****			N	167	N		N				
						P ₂ O ₅	81 Broadcast	P ₂ O ₅		P ₂ O ₅				
Chloride						K ₂ O	61 Broadcast	K ₂ O		K ₂ O				
						Cl		Cl		Cl				
Sulfur	0-6"	96 lb/ac	*****			S	0	S		S				
	6-24"	324 lb/ac	*****			B		B		B				
Boron						Zn	0	Zn		Zn				
Zinc		1.19 ppm	*****			Fe		Fe		Fe				
Iron						Mn		Mn		Mn				
Manganese						Cu	0	Cu		Cu				
Copper		1.12 ppm	*****			Mg		Mg		Mg				
Magnesium						Lime		Lime		Lime				
Sodium						Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)				
Org. Matter		5.0 %	*****			Buffer pH				% Ca	% Mg	% K	% Na	% H
Carbonate(CCE)						0-6"	8.2							
Soil Salts						6-24"	8.3							

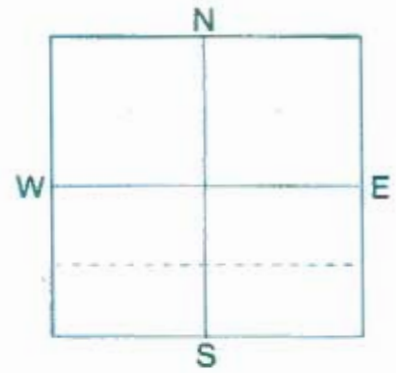
Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 72 K2O = 270 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **SW 17-03-08E**
 SAMPLE ID
 FIELD NAME **SW 17-03-08E**
 COUNTY **Kelly Marten**
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB **ROA 0V0**

REF # **1274802** BOX # **0**
 LAB # **NW72021**

Date Sampled **09/04/2015**

Date Received **09/11/2015**

Date Reported **9/13/2015**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
		Low	Med	High									
Nitrate	0-6"	3 lb/ac				Grass/Pasture							
	6-24"	3 lb/ac				YIELD GOAL	YIELD GOAL	YIELD GOAL					
	0-24"	6 lb/ac				6 Tons	0	0					
Phosphorus	Olsen	6 ppm	.....			SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES				
						Broadcast							
Potassium		94 ppm	.....			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
						N	174	N		N			
Chloride						P ₂ O ₅	66 Broadcast	P ₂ O ₅		P ₂ O ₅			
						K ₂ O	70 Broadcast	K ₂ O		K ₂ O			
Sulfur	0-6"	88 lb/ac	.....			Cl		Cl		Cl		
	6-24"	204 lb/ac	.....			S	0	S		S		
Boron						B		B		B			
Zinc		1.52 ppm	.....			Zn	0	Zn		Zn		
Iron						Fe		Fe		Fe			
Manganese						Mn		Mn		Mn			
Copper		1.58 ppm	.....			Cu	0	Cu		Cu		
Magnesium						Mg		Mg		Mg			
Calcium						Lime		Lime		Lime			
Sodium													
Org. Matter		8.5 %	.....									
Carbonate(CCE)						Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Sol. Salts	0-6"	0.42 mmho/cm						% Ca	% Mg	% K	% Na	% H
	6-24"	0.36 mmho/cm			0-6"	8.2						
						6-24"	8.4						

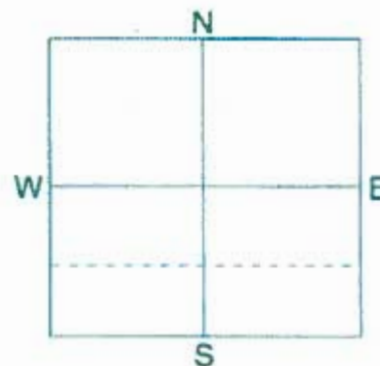
Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 72 K2O = 270 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
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 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **SW 36-02-10E**
 SAMPLE ID
 FIELD NAME **SW 36-02-10E**
 COUNTY **Fredd Shastid**
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB ROA OVO

REF # **1274799** BOX # **0**
 LAB # **NW72023**

Date Sampled **09/04/2015**

Date Received **09/11/2015**

Date Reported **9/13/2015**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
		Low	Med	High	Grass/Pasture		YIELD GOAL		YIELD GOAL			
Nitrate	0-6"				YIELD GOAL		YIELD GOAL		YIELD GOAL			
	6-24"				6 Tons		0		0			
	0-24"				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
					Broadcast							
					LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
					N	162	N		N			
Phosphorus	Olsen	5 ppm			P ₂ O ₅	71 Broadcast	P ₂ O ₅		P ₂ O ₅			
Potassium		60 ppm			K ₂ O	92 Broadcast	K ₂ O		K ₂ O			
Chloride					Cl		Cl		Cl			
					S	10 Broadcast (Trial)	S		S			
Sulfur	0-6"	16 lb/ac			B		B		B			
Boron	6-24"	24 lb/ac			Zn	2 Broadcast (Trial)	Zn		Zn			
Zinc		1.00 ppm			Fe		Fe		Fe			
Iron					Mn		Mn		Mn			
Manganese					Cu	0	Cu		Cu			
Copper		0.65 ppm			Mg		Mg		Mg			
Magnesium					Lime		Lime		Lime			
Calcium					Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)			
Sodium					Buffer pH			% Ca	% Mg	% K	% Na	% H
Org Matter		7.0 %			0-6"	7.9						
Carbonate(CCE)					6-24"	8.2						
Sol. Salts	0-6"	0.26 mmho/cm										
	6-24"	0.21 mmho/cm										

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 71 K2O = 270 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.



Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **SW 34-03-08E**
 SAMPLE ID
 FIELD NAME **SW 34-03-08E**
 COUNTY
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB **ROA OVO**

REF # **1418959** BOX # **0**
 LAB # **NW161147**

Date Sampled **10/15/2015**

Date Received **10/24/2015**

Date Reported **11/25/2015**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
			Grass/Pasture		Corn-Silage		Soybeans	
			YIELD GOAL		YIELD GOAL		YIELD GOAL	
			5 Tons		18 Tons		50 BU	
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
			Broadcast		Broadcast		Broadcast	
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Nitrate	0-6" 2 lb/ac 6-24" 6 lb/ac 0-24" 8 lb/ac	**	N 142		N 179		N ***	
Phosphorus	Olsen 4 ppm	*****	P ₂ O ₅ 63	Broadcast	P ₂ O ₅ 127	Broadcast	P ₂ O ₅ 84	Broadcast
Potassium	44 ppm	*****	K ₂ O 86	Broadcast	K ₂ O 157	Broadcast	K ₂ O 105	Broadcast
Chloride			Cl		Cl		Cl	
Sulfur	0-6" 12 lb/ac 6-24" 36 lb/ac	*****	S 20	Broadcast	S 20	Broadcast	S 20	Broadcast
Boron			B		B		B	
Zinc	0.74 ppm	*****	Zn 0		Zn 5	Broadcast	Zn 2	Broadcast
Iron			Fe		Fe		Fe	
Manganese			Mn		Mn		Mn	
Copper	0.3 ppm	*****	Cu 2	Broadcast	Cu 2	Broadcast	Cu 2	Broadcast
Magnesium			Mg		Mg		Mg	
Calcium			Lime		Lime		Lime	
Sodium								
Org.Matter	1.7 %	*****	Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)	
Carbonate(CCE)			Buffer pH				% Ca	% Mg
							% K	% Na
							% H	
			3-6" 7.9					
Sol. Salts	0-6" 0.13 mmho/cm 6-24" 0.09 mmho/cm	*** **	6-24" 7.8					

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 60 K2O = 225 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 65 K2O = 149 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **NE 35-03-08E**
 SAMPLE ID
 FIELD NAME **NE 35-03-08E**
 COUNTY **Konrad North**
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep & Lamb Farms

SUBMITTED BY: **DU4426**
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB R0A 0V0

REF # **1463241** BOX # **0**
 LAB # **NW209412**

Date Sampled **12/08/2015**

Date Received **12/17/2015**

Date Reported **12/19/2015**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice		
			Grass/Pasture		Corn-Silage		Soybeans		
			YIELD GOAL		YIELD GOAL		YIELD GOAL		
			5 Tons		18 Tons		50 BU		
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		
			Broadcast		Broadcast		Broadcast		
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	
Nitrate			N	144	N	181	N	***	
Phosphorus	0-6" 3 lb/ac 6-24" 3 lb/ac		P ₂ O ₅	46 Broadcast	P ₂ O ₅	107 Broadcast	P ₂ O ₅	68 Broadcast	
Potassium	0-24" 6 lb/ac		K ₂ O	72 Broadcast	K ₂ O	139 Broadcast	K ₂ O	90 Broadcast	
Chloride			Cl		Cl		Cl		
Sulfur	0-6" 28 lb/ac 6-24" 36 lb/ac		S	10 Broadcast (Trial)	S	10 Broadcast (Trial)	S	10 Broadcast (Trial)	
Boron			B		B		B		
Zinc	2.06 ppm		Zn	0	Zn	0	Zn	0	
Iron			Fe		Fe		Fe		
Manganese			Mn		Mn		Mn		
Copper	0.75 ppm		Cu	0	Cu	0	Cu	0	
Magnesium			Mg		Mg		Mg		
Calcium			Lime		Lime		Lime		
Sodium									
Org.Matter	7.0 %								
Carbonate(CCE)									
	0-6" 0.25 mmho/cm 6-24" 0.19 mmho/cm		Soil pH	8.1	Buffer pH		% Base Saturation (Typical Range)		
Sol. Salts				8.1			% Ca	% Mg	% K
									% Na
									% H

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 60 K2O = 325 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 65 K2O = 149 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **NE 20-01-08E**
 SAMPLE ID
 FIELD NAME **NE 20-01-08E**
 COUNTY **Matthew Wiebe**
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep & Lamb Farms

SUBMITTED BY: **DU4426**
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB RDA 0V0

REF # **1463245** BOX # **0**
 LAB # **NW209407**

Date Sampled **12/09/2015**

Date Received **12/17/2015**

Date Reported **12/19/2015**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
			Grass/Pasture		Corn-Silage		Soybeans			
			YIELD GOAL		YIELD GOAL		YIELD GOAL			
			5 Tons		18 Tons		50 BU			
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Broadcast		Broadcast		Broadcast			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 2 lb/ac 6-24" 3 lb/ac 0-24" 5 lb/ac		N 145		N 182		N ***			
Phosphorus	Olsen 15 ppm		P ₂ O ₅ 17 Broadcast		P ₂ O ₅ 72 Broadcast		P ₂ O ₅ 40 Broadcast			
Potassium	66 ppm		K ₂ O 74 Broadcast		K ₂ O 141 Broadcast		K ₂ O 92 Broadcast			
Chloride			Cl		Cl		Cl			
Sulfur	0-6" 22 lb/ac 6-24" 18 lb/ac		S 10 Broadcast (Trial)		S 10 Broadcast (Trial)		S 10 Broadcast (Trial)			
Boron			B		B		B			
Zinc	6.35 ppm		Zn 0		Zn 0		Zn 0			
Iron			Fe		Fe		Fe			
Manganese			Mn		Mn		Mn			
Copper	1.0 ppm		Cu 0		Cu 0		Cu 0			
Magnesium			Mg		Mg		Mg			
Calcium			Lime		Lime		Lime			
Sodium										
Org.Matter	3.3 %									
Carbonate(CCE)										
	0-6" 0.2 mmho/cm 6-24" 0.14 mmho/cm		Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Sol. Salts			0-6" 7.9			% Ca	% Mg	% K	% Na	% H
			6-24" 8.2							

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 60 K2O = 225 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 65 K2O = 149 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID SW 20-01-08E
 SAMPLE ID
 FIELD NAME SW 20-01-08E
 COUNTY Matthew Wiebe
 TWP RANGE
 SECTION QTR ACRES 0
 PREV. CROP Grass/Pasture



SUBMITTED FOR:
 Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426
 FOUR OAK AG SOLUTION
 31119 RD 27E
 BOX 131
 KLEEFELD, MB ROA DVD

REF # 1463243 BOX # 0
 LAB # NW209408

Date Sampled 12/09/2015

Date Received 12/17/2015

Date Reported 12/19/2015

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
			Grass/Pasture	Corn-Silage	Soybeans					
			YIELD GOAL	YIELD GOAL	YIELD GOAL					
			5 Tons	18 Tons	50 BU					
			SUGGESTED GUIDELINES	SUGGESTED GUIDELINES	SUGGESTED GUIDELINES					
			Broadcast	Broadcast	Broadcast					
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
Nitrate	0-6" 4 lb/ac 6-24" 3 lb/ac 9-24" 7 lb/ac		N 143		N 180		N ***			
Phosphorus	Olsen 13 ppm	.....	P ₂ O ₅ 25 Broadcast	P ₂ O ₅ 82 Broadcast	P ₂ O ₅ 48 Broadcast				
Potassium	72 ppm	.....	K ₂ O 70 Broadcast	K ₂ O 137 Broadcast	K ₂ O 88 Broadcast				
Chloride			Cl	Cl	Cl					
Sulfur	0-6" 26 lb/ac 6-24" 42 lb/ac	.....	S 10 Broadcast (Trial)	S 10 Broadcast (Trial)	S 10 Broadcast (Trial)				
Boron			B	B	B					
Zinc	7.81 ppm	.....	Zn 0	Zn 0	Zn 0				
Iron			Fe	Fe	Fe					
Manganese			Mn	Mn	Mn					
Copper	1.29 ppm	.....	Cu 0	Cu 0	Cu 0				
Magnesium			Mg	Mg	Mg					
Calcium			Lime	Lime	Lime					
Sodium										
Org. Matter	4.1 %	.....							
Carbonate(CCC)			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						% Ca	% Mg	% K	% Na	% H
	0-6" 0.27 mmho/cm 6-24" 0.2 mmho/cm	0-6" 8.0							
Sol. Salts			6-24" 8.1							

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 60 K2O = 225 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 65 K2O = 149 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P205 = 44 K2O = 75 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **SE 20-01-08E**
 SAMPLE ID
 FIELD NAME **SE 20-01-08E**
 COUNTY **Matthew Wiebe**
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep & Lamb Farms

SUBMITTED BY: **DU4426**
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB RDA 0V0

REF # **1463244** BOX # **0**
 LAB # **NW209415**

Date Sampled **12/09/2015**

Date Received **12/17/2015**

Date Reported **12/19/2015**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
			Grass/Pasture		Corn-Silage		Soybeans			
			YIELD GOAL		YIELD GOAL		YIELD GOAL			
			5 Tons		18 Tons		50 BU			
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
			Broadcast		Broadcast		Broadcast			
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION		
			N 145		N 182		N ***			
			P ₂ O ₅ 51 Broadcast		P ₂ O ₅ 112 Broadcast		P ₂ O ₅ 72 Broadcast			
			K ₂ O 70 Broadcast		K ₂ O 137 Broadcast		K ₂ O 88 Broadcast			
			Cl		Cl		Cl			
			S 10 Broadcast (Trial)		S 10 Broadcast (Trial)		S 10 Broadcast (Trial)			
			B		B		B			
			Zn 0		Zn 0		Zn 0			
			Fe		Fe		Fe			
			Mn		Mn		Mn			
			Cu 0		Cu 0		Cu 0			
			Mg		Mg		Mg			
			Lime		Lime		Lime			
			Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
						% Ca	% Mg	% K	% Na	% H
			0-6" 8.0							
			6-24" 8.2							

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 60 K2O = 225 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 65 K2O = 149 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.
 Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.



Soil Analysis by Agvise Laboratories
 (http://www.agvise.com)
 Northwood: (701) 587-6010
 Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **SW 06-01-08E**
 SAMPLE ID
 FIELD NAME **SW 06-01-08E**
 COUNTY **Matthew Wiebe**
 TWP RANGE
 SECTION QTR ACRES **0**
 PREV. CROP **Grass/Pasture**



SUBMITTED FOR:
Canada Sheep & Lamb Farms

SUBMITTED BY: DU4426
FOUR OAK AG SOLUTION
31119 RD 27E
BOX 131
KLEEFELD, MB R0A 0V0

REF # **1463242** BOX # **0**
 LAB # **NW209413**

Date Sampled **12/09/2015**

Date Received **12/17/2015**

Date Reported **12/19/2015**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
			Grass/Pasture		Corn-Silage		Soybeans	
			YIELD GOAL		YIELD GOAL		YIELD GOAL	
			5 Tons		18 Tons		50 BU	
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
			Broadcast		Broadcast		Broadcast	
			LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Nitrate	0-6" 2 lb/ac 6-24" 6 lb/ac 0-24" 8 lb/ac	**	N	142	N	179	N	***
Phosphorus	Olsen 6 ppm	*****	P ₂ O ₅	55 Broadcast	P ₂ O ₅	117 Broadcast	P ₂ O ₅	76 Broadcast
Potassium	98 ppm	*****	K ₂ O	56 Broadcast	K ₂ O	118 Broadcast	K ₂ O	73 Broadcast
Chloride			Cl		Cl		Cl	
Sulfur	0-6" 18 lb/ac 6-24" 36 lb/ac	*****	S	10 Broadcast (Trial)	S	10 Broadcast (Trial)	S	10 Broadcast (Trial)
Boron			B		B		B	
Zinc	1.13 ppm	*****	Zn	0	Zn	2 Broadcast	Zn	0
Iron			Fe		Fe		Fe	
Manganese			Mn		Mn		Mn	
Copper	1.0 ppm	*****	Cu	0	Cu	0	Cu	0
Magnesium			Mg		Mg		Mg	
Calcium			Lime		Lime		Lime	
Sodium			Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)	
Org. Matter	4.2 %	*****	Buffer pH			% Ca	% Mg	% K
Carbonate (CCE)						% Na	% H	
	0-6" 0.3 mmho/cm 6-24" 0.29 mmho/cm	*****	0-6"	8.0				
Sol. Salts			6-24"	8.4				

Crop 1: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 60 K2O = 225 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 2: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 65 K2O = 149 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years.

Crop 3: Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 44 K2O = 75 AGVISE Broadcast guidelines will build P & K test levels to the high range over several years. Soybeans may respond to nitrogen on fields testing less than 60 lb/ac with a limited soybean history.