

Winter 2006
Volume 2, Issue 2

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Nov. 8, 2006 &
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The Livestock Manure and Mortalities Management Regulation was amended on Nov. 8, 2006 and on Dec. 7, 2006. The consolidated regulation including amendments 52/2004; 194/2005; 219/2006 and 238/2006 is on our website at:

www.gov.mb.ca/conservation/envprogr/livestock

Environmental Services
Livestock Sector
Manitoba Conservation
Box 46 – 200 Saulteaux Cr.
Winnipeg, MB R3J 3W3
Ph.: 204-945-7069
Fax: 204-948-2420

LMMMR News

News from

Conservation's Environmental Services: Livestock Section

New Staff

On July 31, 2006, **Warren Rospad** joined the Environmental Livestock Section as an Environment Officer. Warren is a graduate of North Dakota State University (B.A.), the University of Calgary (Diploma) and the University of Manitoba (B.Sc.), holding two degrees and one diploma. Prior to joining Manitoba Conservation, Warren worked for six years in the private consulting industry where he provided consulting services in a variety of different fields such as contaminated sites, petroleum storage, hydrogeology studies, agriculture, air quality and environmental assessments. Warren can be contacted in the Steinbach regional office at (204) 346-6063.

Gurpreet Singh joined Manitoba Conservation on October 23 as an Environment Officer in western region based in Dauphin. He holds a M.Sc. in Bioresource Engineering from University of Alberta with research emphasis on analysis of greenhouse gas emissions from composting and manure stockpiling. During his studies, he gained knowledge of anaerobic digestion processes, solid waste management, and wastewater treatment processes. Prior to joining Manitoba Conservation, Gurpreet worked as a research assistant at the University of Alberta on a project entitled "Impact of oil/gas activities on forests and soils in Northern Alberta and modeling of NOx and SOx emissions".

On July 17, 2006, **Raj Rathamano** joined the Environmental Livestock Section team as an Environment Officer. Prior to joining Manitoba Conservation, Raj worked 12 years for the Central Environmental Authority, Ministry of Environment in Sri Lanka, delivering environmental regulatory compliance programs. He was heavily involved in environmental pollution control, environmental protection licensing and hazardous waste management with respect to industrial operations. Raj has a B.Sc. in Botany and M.Sc. in Environmental Sciences from the University of Colombo, Sri Lanka. Raj can be contacted at (204) 239 3207.

Position Changes

Al Beck formerly Manager of the Livestock Program has been appointed Director of Environmental Services. Al's responsibilities include the Environmental Livestock, Contaminated Sites, Transportation of Hazardous Material, Petroleum Storage, and Onsite Wastewater Systems Sections. His former position will be covered by internal staff on a rotating basis until the position is permanently filled.

MMP Briefs

Amendment 238/06

A finalized regulation temporarily pausing the issuing of permits for new or expanded hog barns is now in effect. The amendment is available from statutory publications or your regional Manitoba Conservation office and can be downloaded at:

<http://web2.gov.mb.ca/laws/regs/2006/pdf/238-e125.06.pdf>

The amendment will temporarily restrict the further growth of pig agricultural operations in Manitoba while the Clean Environment Commission (CEC) conducts a review of the environmental sustainability of those operations in the province, pursuant to the minister's referral to the Commission dated November 8, 2006. This review was recommended in part by a 2003 CEC recommendation following public hearings into the Maple Leaf processing plant in Brandon. Permits will be considered for emergency repairs of manure storage facilities or improvements to the facilities to improve the operation's manure management practices in regard to environmental impacts as long as there is no expansion. Permits will also be considered for new or expanding operations that propose to adopt anaerobic digestion or other similar emerging technologies.

Amendment 219/2006

The 219/2006 amendment to the LMMMR has been adopted. Some of the new sections include: allowable application to land re phosphorus; considerations regarding new or expanded livestock operations; designation of Red River Valley Special Management Area; restrictions on fall spreading; amended restrictions on winter spreading; and setback requirements on manure application on land adjacent to surface water or surface water courses.

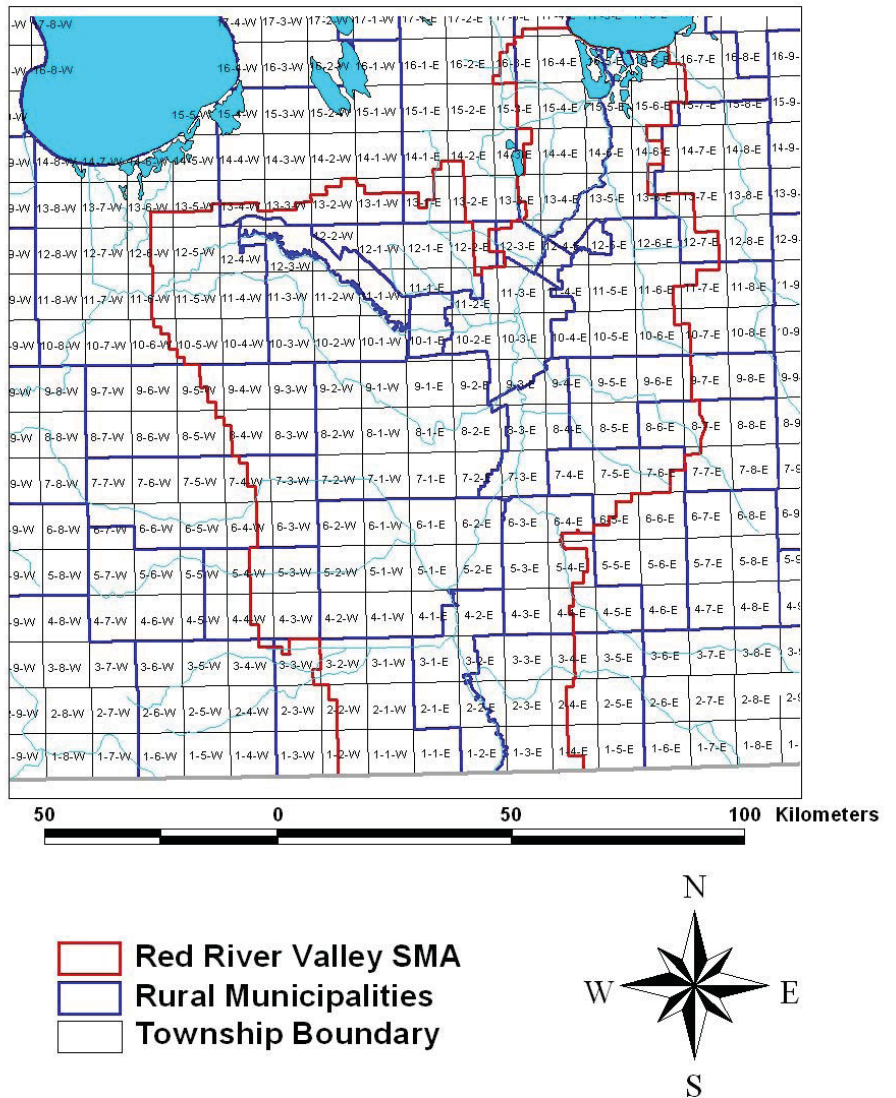


Figure 1. Red River Valley Special Management Area.

The amendment is available from statutory publications or your regional Manitoba Conservation office and can be downloaded at:

<http://web2.gov.mb.ca/laws/regs/2006/pdf/219-e125.06.pdf>

Phosphorus: Questions and Answers

Qu: Where is the Red River Valley Special Management Area?

Ans: The RRVSMA is shown in Figure 1.

Qu: What are the regulatory phosphorus thresholds?

Ans: The amendment includes a limitation on manure application to agricultural land on the basis of phosphorus regulatory thresholds. It would require that in fields ranging from 60 ppm to 119 ppm soil test Olsen P, the rate of livestock manure application must not exceed two times the annual crop removal rate of P₂O₅. Where soil test Olsen P ranges from 120 ppm to 179 ppm, it would require that manure

application must not exceed annual crop removal rate of P_2O_5 . Where soil test Olsen P is equal to or greater than 180 ppm, manure application would be prohibited. Note: nitrate limitations still apply.



Qu:
What if the equipment does not allow for manure application at the low rates proposed?

Ans:
If the soil test phosphorus ranges from 60 ppm to 179 ppm, the manure may be applied at a rate of no more than 5 times the annual crop removal rate of P_2O_5 provided that the next application of manure does not occur until the number of years equivalent to the multiple of the rate of application have passed since the time of application or until the phosphorus levels in the soil do not exceed the values that existed prior to that manure application event. Note: nitrate limitations still apply.

Qu:
What is the restriction on fall manure application for operations located in regularly inundated areas and the Red River Valley Special Management Area?

Ans:
In these areas manure applied to an annual cropping system between September 10 and November 10 of one year must be injected or incorporated into the soil within 48 hours of application.

If the manure is applied to perennial forages or no-till systems, where the soil is only disturbed for seed planting or commercial fertilizer application and there is adequate crop residue on the land to control erosion, the operator will not be required to inject or incorporate manure within 48 hours.

This restriction applies immediately.

Qu:
What is a regularly inundated area?

Ans:
It includes an area subject to flooding on an average basis at least once every five years. (Flooding may include, for example, flooding due to snow melt, heavy rains, flooding from

a watercourse, etc.). The area defined in the regulation as the Red River Valley Special Management Area is also a regularly inundated area.

Qu:
What is the restriction on winter manure application for operations located in regularly inundated areas? What is the restriction in the Red River Valley Special Management Area?

Ans:
Winter manure application is the application of manure between the dates of November 10th of one year and April 10th of the following year. Operations existing prior to November 8, 2006, which are located in regularly inundated areas and are smaller than 300 animal units will be restricted from winter manure application by November 10, 2013. The regulation defines regularly inundated areas, they include the Red River Valley Special Management Area as well as other areas as noted in the above definition.

Note: Winter manure application by producers with 400 or more animal units (AUs) is already prohibited despite the date that the operation was established and despite the location of the operation. Producers with between 300 and 400 AUs that were established prior to March 30, 2004, have until November 10, 2010 until they are prohibited from winter manure application. All operations that were established after March 30, 2004 are prohibited from winter manure application. Operations that were established before March 30, 2004, but have since that day expanded beyond 300 AUs are also prohibited from winter manure application.



Qu:
How does the amendment affect the manner in which manure is applied near Special Management Areas?

Ans:
 Currently manure application in watercourses and water bodies is prohibited. Producers must not allow manure to escape the boundary of their property. In addition, Schedule C of the regulation includes setback requirements for livestock manure application on land adjacent to surface water or a surface watercourse.



Qu:
What is a Special Management Area?

Ans:
 Special Management Areas are areas which are at greater risk of transporting or releasing nutrients to surface waters and special measures will be required in them to minimize the risks. These include areas adjacent to surface water or surface water courses.

Registration of Manure Storage Facilities that do not have a Permit

With some delays arising from staffing issues, Manitoba Conservation is now following up on the applications for registration received since 2004. Staff have contacted livestock operators and begun visiting a number of earthen manure storage facilities built before 1994 and steel or concrete tanks erected before 1998. The purpose of the site visit is to complement the information received from you and the information on the site available to Manitoba Conservation. The information will be reviewed internally and the operators will be contacted to inform them as to whether the operation does not pose an environmental risk as it is, in which case it would be registered without delays, or whether minor repairs, or else, major upgrading or repairs are necessary to address environmental concerns at the site. In the case of minor repairs, the operator will be notified as to whether or not he needs to apply for a permit from Manitoba Conservation. An engineering assessment and the preparation of an application for a permit will be required for any major repairs or upgrades to these older manure storage facilities. To this date, a couple operations voluntarily applied for a permit to upgrade semi-solid manure storage facilities. In such cases, the registration process is accelerated.

Noteworthy to mention, in excess of 300 applications for registration have been received to date. We are welcoming any applications submitted voluntarily at any point in time. However, since there are likely many more storage facilities built prior to the initiation of the permit program, producers must recall that the

deadline for applying for registration was April 29, 2004 and that failure to apply for registration is a prosecutable offense to the regulation.

Important Dates

December 31st – Source Water Monitoring submissions are due for operations with 300 animal units or greater.

February – Deadline for MMPs for upcoming crop year if ONLY spreading in spring and summer.

Who are you going to call?

Manure management plan questions should be directed to Headquarters. Matters regarding all other aspects of the *Livestock Manure and Mortalities Regulation* should be directed to the Regional contacts. For reporting a spill, emergency spreading, or any emergencies, call your Regional contact. After hours, use the emergency response number.

Emergency Response 944-4888	
MMP	Headquarters Operations Ph: 945-3078 Winnipeg Or 945-3789 Fax: 948-2420
Regional Contacts Manitoba Conservation	Interlake Ph: 642-6095 Gimli Eastern Ph: 345-1447 Lac Du Bonnet Red River Ph: 346-6068 Steinbach Ph: 945-5305 Winnipeg Western Ph: 726-6064 Brandon