### NUTRIENT MANAGEMENT REGULATION

Questions, call: (204) 914-1701

# Nutrient Management Plan – Municipal Wastewater Manitoba

Operations in Manitoba applying nutrients such as municipal wastewater sludge or biosolids may be required to register a Nutrient Management Plan to Manitoba Agriculture and Resource Development. The plan must be submitted by July 10<sup>th</sup> for fertilization programs beginning in the fall, or by February 10<sup>th</sup> for fertilization programs beginning in the spring.

# **Section A – Operation Information**

Name of Operation				
Mailing Address				
Legal Land Description		P	ostal Code	
	Qtr. Sec	. Twp. Rge. E/WP	PM; River Lot/F	Parish
	Rural Municipality		GPS Coordinator	Longitude: s in Decimal Degrees (if available)
Name of Contact			GFS Cooldinates	s in Decimal Degrees (il available)
Contact Numbers				
	Business	Residence	Cellular	Facsimile
Email Address				
Owner (legal name)				Com File # if applicable
Mailing Address				Corp. File # if applicable
			Posta	l Code
Contact Numbers				
	Business	Residence	Cellular	Facsimile
Email Address				
Affiliate (legal name)				
Did your operation exist prior to Noven	nber 8, 2006?	Yes 🗌		No 🗌
If this Nutrient Management Plan is a requirement number:	ent of a Director's C	Order or an Environn	nent Officer Or	der, please indicate Order
FOR DEPARTMENT USE ONLY Received by:		Date Received:		
Follow-up required Yes  Nature of follow-up	No 🗌			
Proprietary (confidential) information will be prounder the authority of The Water Protection Ac surveys, administration and enforcement purpor Freedom of Information and Protection of Priva and Resource Development, 360-1395 Ellice A Please complete this form (all sections) and	t, the Nutrient Man oses. Information co acy Act. If you have wenue, Winnipeg, I	agement Regulation ollected is protected any questions, con Manitoba, Canada, I	n, and will be u by the privacy tact the FIPPA R3G 3P2, (204	sed to issue receipts, for provisions of The Analyst, Agriculture 4)945-4823.
Resource Development, 200 Saulteaux Cr (be	ox 14),Winnipeg M	B, R3J 3W3; Fax: (	(204) 948-2357	7 Email: nmr@gov.mb.ca

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### Section B – Fertilizer and Wastewater Sludge or Biosolids Storage Facilities

Are nutrients such as fertilizers or wastewater sludge or biosolids being stored for a period beyond a single cropping season?

Yes 🗆 No 🗆

# Section C – Volume to be Land Applied

Volume of municipal wastewater sludge or biosolids to be land applied (include units)

# Section D – Nutrient Buffer Zones

# SECTION 3(3) OF THE NUTRIENT MANAGEMENT REGULATION UNDER *THE WATER PROTECTION ACT* STATES THAT 'THE NUTRIENT BUFFER ZONE<sup>'</sup>, CONSISTS OF THE FOLLOWING:

Water Body	Setback if applicable area IS covered with permanent vegetation	Setback if applicable area IS NOT covered with permanent vegetation
<ul> <li>a roadside ditch or an Order 1 or 2 drain<sup>†</sup></li> </ul>	No direct applicat	ion to ditches and
		nd 2 drains
a groundwater feature	15 m (49 feet)	20 m (66 feet)
<ul> <li>a wetland, bog, marsh or swamp other than a major wetland, bog, marsh or swamp<sup>‡</sup></li> </ul>	Distance betweer	n the water's edge n water mark
• a lake or reservoir designated as vulnerable*	30 m (98 feet)	35 m (115 feet)
<ul> <li>a lake or reservoir (not including a constructed stormwater retention pond) not designated as vulnerable<sup>**</sup></li> <li>a river, creek or stream designated as vulnerable<sup>**</sup></li> </ul>	15 m (49 feet)	20 m (66 feet)
<ul> <li>a river, creek or stream not designated as vulnerable<sup>**</sup></li> <li>an Order 3 or higher drain<sup>†</sup></li> <li>a major wetland, bog, marsh or swamp<sup>‡</sup></li> <li>a constructed stormwater retention pond</li> </ul>	3 m (10 feet)	8 m (26 feet)
ARE THE ABOVE SETBACKS B	EING ADHERED TO?	
☐ Yes	🗌 No	
The Nutrient Buffer Zone is measured out from the water body's high wate ater body, whichever is further from the water.	er mark or the top of the outerm	ost bank on that side of the
Designated on a Government of Manitoba plan that shows the designatio	n of drains.	
As defined in section 1/2) in the Nutriant Management Regulation under t		

<sup>‡</sup> As defined in section 1(2) in the Nutrient Management Regulation under the Water Protection Act.

"For the purposes of this regulation, a wetland, bog, marsh or swamp is major if

- (a) it has an area greater than 2 ha (4.94 acres)
- (b) it is connected to one or more downstream water bodies or groundwater features; and
- (c) it contains standing water or saturated soils for periods of time sufficient to support the development of hydrophytic vegetation."

" Designated as vulnerable if listed in the Schedule in the Nutrient Management Regulation under The Water Protection Act.

Drain order maps may be accessed in Google Earth (kmz) format via the MLI website under "Soil Classification" - "SoilAID" or as shapefiles under "Hydrography" at the following link: https://mli2.gov.mb.ca// (Registration for the site is required but it is free). PDF maps can be accessed at: https://www.gov.mb.ca/sd/waste\_management/livestock\_program/ livestockmap.html .

Individuals who are unable to access the maps online and wishing a copy of a drain order map, may call 204-801-8368.

Section E – Field Information											
Legal Land Description											
GPS Coordinates (4 corners of the field) Coordinates in decimal degrees (if available)											
Field Size (provide units)											
Agriculture capability (CLI class and limitation (subclass))											
Nitrate-N (include units) 0-24" (60 cm) depth (Include soil test report)											
Olsen P (include units) 0-6" (15 cm) depth (Include soil test report)											
Date(s) of Anticipated Nutrient Application(s)											
Irrigated (Indicate by entering 'Yes' or 'No')											

electronic data in both Google Earth format (kmz) and as shapefiles (for GIS software) distributed by the Manitoba Land Initiative at: <u>http://mli2.gov.mb.ca</u> Photocopy additional pages as required.

# Section F – Certification of Nutrient Management Plan

Note: The plan must be certified or it is VOID. Mark the appropriate box.

I certify that the information contained in this plan is true and that no relevant information has been withheld.

Manitoba Institute of Agrologists #<sup>1</sup>/Certified Crop Adviser # \_\_\_\_\_\_ <sup>1</sup>if exempt from registration to Manitoba Institute of Agrologists as per Section 23 of M.R. 62/2008 enter 0000.

To report environmental emergencies call toll free
1-855-944-4888 (24 hours)

# Appendix - Nutrient Budget (Imperial Units)

To be completed for all fields that: (A) exceed 60 ppm soil test phosphorus and you cannot meet the phosphorus application rates listed in section 8(2) of the Nutrient Management Regulation OR (B) nitrogen will be applied to any field that exceeds the soil nitrate-nitrogen limits for Nutrient Management Zones referenced in Section 7 of the Nutrient Management Regulation OR (C) you intend to apply nutrients to Nutrient Management Zone N4 soils. Photocopy additional pages as necessary. Complete Appendix in either metric or imperial units.

Legal D	escripti	on:		Past	t Crop:						
Crop Year	Сгор	<ul> <li>Target Yield</li> <li>bu/ac</li> <li>ton/ac</li> <li>cwt/ac</li> </ul>	Nitrogen Balance Carry Forward	Nitrogen Additions (lb/ac)			Nitr	ogen Credits (lb/ac)	Nitrogen Removal (Ib/ac)		Nitrogen Balance (Ib/ac)
				Fertilizer	Manure (Available)	Wastewater Sludge or Biosolids	Past Legume Crops	Past Manure, Sludge or Biosolids Applications	Nutrient content/unit	Nutrient Removal (Nutrient content/unit * Target Yield)	
			N	N	N	Ν	N	N	N	N	N
(e.g. 2007)	Wheat	45 bu/ac	0	0	0	50	0	20	1.5	67.5	2.5
Total											

Crop Year	Crop	Average Yield	P₂O₅ Balance Carry Forward	F	P₂O₅ Additio (Ib/ac)	ons	P₂O₅ R (Ib/	P₂O₅ Balance (Ib/ac)	
		□ bu/ac □ ton/ac □cwt/ac		Fertilizer	Manure (Available)	Wastewater Sludge or Biosolids	Nutrient content/unit	Nutrient Removal (Nutrient content/unit * Average yield)	
			$P_2O_5$	$P_2O_5$	$P_2O_5$	P <sub>2</sub> O <sub>5</sub>	P <sub>2</sub> O <sub>5</sub>	P <sub>2</sub> O <sub>5</sub>	P <sub>2</sub> O <sub>5</sub>
(e.g. 2007)	Wheat	40 bu/ac	0	0	0	40	0.6	24	16
Total									

#### NOTE:

State reason(s) why soil test results exceed soil nitrate-nitrogen limits in Section 7 or why you cannot meet the phosphorus application rates listed in Section 8(2) of the Nutrient Management Regulation (*e.g.* previous manure applications, drought, frost, weeds, insects or disease) and how results will be brought into compliance over time:

Legume crops include peas, soybeans, dry beans, chickpeas, lupins, clover, vetch, alfalfa, birdsfoot trefoil, sainfoin and lentils.

# Appendix - Nutrient Budget (Metric Units)

To be completed for all fields that: (A) exceed 60 ppm soil test phosphorus and you cannot meet the phosphorus application rates listed in section 8(2) of the Nutrient Management Regulation OR (B) nitrogen will be applied to any field that exceeds the soil nitrate-nitrogen limits for Nutrient Management Zones referenced in Section 7 of the Nutrient Management Regulation OR (C) you intend to apply nutrients to Nutrient Management Zone N4 soils. Photocopy additional pages as necessary. Complete Appendix in either metric or imperial units.

Legal D	escripti	on:		Past	t Crop:						
Crop Year	Сгор	D Target Yield □ kg/ha □ t/ha	Nitrogen Balance Carry Forward	Nitrogen Additions (kg/ha)			Nitrogen Credits (kg/ha)		Nitrogen Removal (kg/ha)		Nitrogen Balance (kg/ha)
				Fertilizer	Manure (Available)	Wastewater Sludge or Biosolids	Past Legume Crops	Past Manure, Sludge or Biosolids Applications	Nutrient content/unit	Nutrient Removal (Nutrient content/unit * Target Yield)	
			N	N	N	N	N	N	N	N	N
(e.g. 2007)	Wheat	3.03 t/ha	0	0	0	56	0	22.5	28.2	85.5	7
Total											

Crop Year	Crop	Average Yield	P₂O₅ Balance Carry Forward	P₂O₅ Additions (kg/ha)			P₂O₅ R (kg	P₂O₅ Balance (kg/ha)	
		□ kg/ha □ t/ha		Fertilizer	Manure (Available)	Wastewater Sludge or Biosolids	Nutrient content/unit	Nutrient Removal (Nutrient content/unit * Average yield)	
			$P_2O_5$	$P_2O_5$	$P_2O_5$	P <sub>2</sub> O <sub>5</sub>	P <sub>2</sub> O <sub>5</sub>	P <sub>2</sub> O <sub>5</sub>	$P_2O_5$
(e.g. 2007)	Wheat	2.69 t/ha	0	0	0	45	9.8 kg/t	26.4	18.6
Total									

### NOTE:

State reason(s) why soil test results exceed soil nitrate-nitrogen limits in Section 7 or why you cannot meet the phosphorus application rates listed in Section 8(2) of the Nutrient Management Regulation (*e.g.* previous manure applications, drought, frost, weeds, insects or disease) and how results will be brought into compliance over time:

Legume crops include peas, soybeans, dry beans, chickpeas, lupins, clover, vetch, alfalfa, birdsfoot trefoil, sainfoin and lentils.