

NUTRIENT MANAGEMENT REGULATION

Nutrient Management Plan - Golf Courses/Driving Ranges



All golf courses or driving ranges in Manitoba are required under Section 13(1) of the Nutrient Management Regulation under *The Water Protection Act*, to register a Nutrient Management Plan with Manitoba Water Stewardship. The Nutrient Management Plan must be registered on an annual basis and are to be submitted by July 10th for fertilization programs beginning in the fall, or by February 10th for fertilization programs beginning in the spring.

Section A – Contact Information

Name of Golf Course/Driving Range _____

Mailing Address _____
_____ Postal Code _____

Legal Land Description _____
Qtr. Sec. Twp. Rge. E/WPM; River Lot/Parish or Lot/Block/Plan
_____ Latitude: _____ Longitude: _____
Rural Municipality _____ GPS Coordinates in Decimal Degrees (if available)

Name of Contact _____

Contact Numbers _____
PRIMARY SECONDARY FACSIMILE

Email Address (optional) _____

Owner (if different than above) _____ Corp. File # if applicable

Mailing Address (if different than above) _____
_____ Postal Code _____

Contact Numbers (if different than above) _____
PRIMARY SECONDARY FACSIMILE

Email Address (if different than above) _____

Affiliate (legal name) _____

Type of Facility 9 hole 18 hole 27 hole 36 hole Driving range only

If this Nutrient Management Plan is a requirement of a Director's Order or a Water Protection Officer Order, please indicate Order number: _____

FOR DEPARTMENT USE ONLY

Received by: _____ Date Received: _____

Follow-up required Yes No

Nature of follow-up _____

Proprietary (confidential) information will be protected in accordance with Manitoba law. Personal information is collected under the authority of *The Water Protection Act*, the Nutrient Management Regulation, and will be used to issue receipts, for surveys, administration and enforcement purposes. Information collected is protected by the privacy provisions of *The Freedom of Information and Protection of Privacy Act*. If you have any questions, contact the Access & Privacy Officer, Box 95, 200 Saulteaux Crescent, Winnipeg MB R3J 3W3; (204) 945-4170.

Please complete this form (all sections) and forward to Water Quality Management Section, Manitoba Water Stewardship, 160 - 123 Main Street, Winnipeg MB R3C 1A5 Phone: (204) 945-7096 Fax: (204) 948-2357 Email: nmr@gov.mb.ca

Section B – Fertilizer Storage

Are fertilizers being stored for a period beyond a single application season?

Yes No

Section C – Nutrient Buffer Zones

SECTION 3(3) OF THE NUTRIENT MANAGEMENT REGULATION UNDER *THE WATER PROTECTION ACT* STATES THAT “THE NUTRIENT BUFFER ZONE’ CONSISTS OF THE FOLLOWING:

Water Body	Setback if Nutrient Buffer Zone IS covered with permanent vegetation	Setback if Nutrient Buffer Zone IS NOT covered with permanent vegetation
<ul style="list-style-type: none"> • a roadside ditch or an Order 1 or 2 drain[†] 	No direct application to ditches and Order 1 and 2 drains	
<ul style="list-style-type: none"> • a groundwater feature 	15 m (49 feet)	20 m (66 feet)
<ul style="list-style-type: none"> • a wetland, bog, marsh or swamp other than a major wetland, bog, marsh or swamp[‡] 	Distance between the water’s edge and the high water mark	
<ul style="list-style-type: none"> • a lake or reservoir designated as vulnerable^{**} 	30 m (98 feet)	35 m (115 feet)
<ul style="list-style-type: none"> • a lake or reservoir (not including a constructed stormwater retention pond) not designated as vulnerable^{**} • a river, creek or stream designated as vulnerable^{**} 	15 m (49 feet)	20 m (66 feet)
<ul style="list-style-type: none"> • a river, creek or stream not designated as vulnerable^{**} • an Order 3 or higher drain[†] • a major wetland, bog, marsh or swamp[‡] • a constructed stormwater retention pond 	3 m (10 feet)	8 m (26 feet)

ARE THE ABOVE SETBACKS BEING ADHERED TO?

YES NO

^{*} The Nutrient Buffer Zone is measured out from the water body’s high water mark or the top of the outermost bank on that side of the water body, whichever is further from the water. No person shall apply a substance containing nitrogen or phosphorus to land within the Nutrient Buffer Zone.

[†] Designated on a Manitoba Water Stewardship plan that shows the designation of drains.

[‡] 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 via Agri-Maps at the following link: <http://geoapp2.gov.mb.ca/website/mafri/index3.html>
Individuals wishing a copy of a drain order map, may contact Manitoba Water Stewardship at: (204) 726-6306 (Western Manitoba) or (204) 467-4452 (Eastern Manitoba).

Section D – Nutrient Application Summary (Metric Units)

Photocopy additional pages if necessary.

Year referenced under Nutrient Management Plan (specify year): _____

Parcel ID	Tees	Greens	Aprons/ Surrounds	Fairways	Rough	Driving Ranges/Practice Areas
Other ID (not required) (e.g. Back 9)						
Area [†] (ha or m ²) Specify units used						
Predominant grass or turf species						
Soil sampling depth (cm)						
Soil nitrate (NO ₃ -N) in ppm [‡]						
Olsen soil test phosphorus (P) in ppm [‡]						
Nitrogen recommendation [†] (kg N/100 m ²)						
P ₂ O ₅ recommendation [†] (kg P ₂ O ₅ /100 m ²)						
Number of applications per year	Granular					
	Liquid					
	Total					
Nitrogen applied/ year (kg N/100 m ²)	Granular					
	Liquid					
	Total					
P ₂ O ₅ applied per year (kg P ₂ O ₅ /100 m ²)	Granular					
	Liquid					
	Total					
If not applied in-house state name, address, telephone number and licence number						

[†] Indicate only the available acres for nutrient application (exclusive of setbacks from surface water courses, etc.).

[‡] As shown on the soil analysis report appended to this form.

Soil sampling depths should be performed to a depth of 15 cm (6") on all turf except greens and tees. For greens and tees remove cores to a depth of 7.5 cm (3").

Conversion Factors:

$$1 \text{ kg}/100 \text{ m}^2 = 2.04 \text{ lb}/1000 \text{ ft}^2$$

$$1 \text{ lb}/1000 \text{ ft}^2 = 0.49 \text{ kg}/100 \text{ m}^2$$

$$1 \text{ kg}/100 \text{ m}^2 = 88.9 \text{ lb}/\text{ac}$$

$$1 \text{ lb}/1000 \text{ ft}^2 = 43.6 \text{ lb}/\text{ac}$$

$$1 \text{ lb}/\text{ac} = 1.12 \text{ kg}/\text{ha}$$

$$1 \text{ kg}/\text{ha} = 0.89 \text{ lb}/\text{ac}$$

$$1 \text{ kg}/100 \text{ m}^2 = 100 \text{ kg}/\text{ha}$$

$$1 \text{ lb}/1000 \text{ ft}^2 = 48.8 \text{ kg}/\text{ha}$$

State how grass clippings are handled?

If removed, where are they removed to? _____

Section D – Nutrient Application Summary (Imperial Units)

Photocopy additional pages if necessary.

Year referenced under Nutrient Management Plan (specify year): _____

Parcel ID	Tees	Greens	Aprons/ Surrounds	Fairways	Rough	Driving Ranges/Practice Areas
Other ID (not required) (e.g. Back 9)						
Area [†] (ac or ft ²) Specify units used						
Predominant grass or turf species						
Soil sampling depth (inches)						
Soil nitrate (NO ₃ -N) in ppm [‡]						
Olsen soil test phosphorus (P) in ppm [‡]						
Nitrogen recommendation [†] (lb N/1000 ft ²)						
P ₂ O ₅ recommendation [†] (lb P ₂ O ₅ /1000 ft ²)						
Number of applications per year	Granular					
	Liquid					
	Total					
Nitrogen applied/ year (lb N/1000 ft ²)	Granular					
	Liquid					
	Total					
P ₂ O ₅ applied per year (lb P ₂ O ₅ /1000 ft ²)	Granular					
	Liquid					
	Total					
If not applied in-house state name, address, telephone number and licence number						

[†] Indicate only the available acres for nutrient application (exclusive of setbacks from surface water courses, etc.).

[‡] As shown on the soil analysis report appended to this form.

Soil sampling depths should be performed to a depth of 15 cm (6") on all turf except greens and tees. For greens and tees remove cores to a depth of 7.5 cm (3").

Conversion Factors:

$$1 \text{ kg}/100 \text{ m}^2 = 2.04 \text{ lb}/1000 \text{ ft}^2$$

$$1 \text{ lb}/1000 \text{ ft}^2 = 0.49 \text{ kg}/100 \text{ m}^2$$

$$1 \text{ lb}/\text{ac} = 1.12 \text{ kg}/\text{ha}$$

$$1 \text{ kg}/\text{ha} = 0.89 \text{ lb}/\text{ac}$$

$$1 \text{ kg}/100 \text{ m}^2 = 88.9 \text{ lb}/\text{ac}$$

$$1 \text{ lb}/1000 \text{ ft}^2 = 43.6 \text{ lb}/\text{ac}$$

$$1 \text{ kg}/100 \text{ m}^2 = 100 \text{ kg}/\text{ha}$$

$$1 \text{ lb}/1000 \text{ ft}^2 = 48.8 \text{ kg}/\text{ha}$$

State how grass clippings are handled?

If removed, where are they removed to?

Section E - Certification of Nutrient Management Plan

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

Year referenced under Nutrient Management Plan (specify year): _____

Plan Prepared by: Golf Course/Driving Range Third Party (P.Ag. or Certified Crop Adviser (CCA))

Complete only if Golf Course/Driving Range has prepared Nutrient Management Plan

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

Date _____

Signature on behalf of Golf Course/Driving Range

Complete only if Third Party (P.Ag. or Certified Crop Adviser) has prepared Nutrient Management Plan

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

Date _____

Signature of P.Ag./CCA on behalf of Golf Course/Driving Range

Address and phone number of person preparing plan: _____

Manitoba Institute of Agrologists #¹/Certified Crop Adviser # _____

¹if exempt from registration to Manitoba Institute of Agrologists as per Section 23 of M.R. 62/2008 enter 0000.

**To report environmental emergencies call (204) 944-4888 (24 hours)
Collect calls accepted from within Manitoba.**