Changes to the Vermont Golf Course Permitting Process

A "Soft" Rollout



Current Pesticide Regulations

► 1991!

- Cover all aspects of Pesticide use in Vermont:
 - Licenses, Certificates, and Permits issued by the Agency (includes procedures)
 - Powers of the Secretary
 - Restrictions on the use and application of pesticides
 - Maintenance of Records
 - Certification Standards
 - Pesticide Classification
 - Community Right-to-Know, Emergency Actions, Accident Reporting
 - Transportation, Storage and Disposal of Pesticides

Section IV – Restrictions on the Use and Application of Pesticides

- 9. Golf Course Permits
 - New Requirements in Regulations

- Additions to Golf Course Integrated Pest Management Plan
 - A description of the location of pesticide storage and handling areas including a spill response plan.
 - A Nutrient Management Plan (NMP) including:
 - A description of goals of NMP
 - Identify areas where nutrient applications will be made (greens, tees, fairways, roughs, etc.)
 - Soil sample test results for each area receiving nutrients
 - Test results must be less than 3 years old
 - Soil samples Collected according to University or Industry standards

- Soil Test Results shall be analyzed for:
 - Available P using Modified Morgan
 - Reactive Aluminum
 - Soil Nitrate (?)
 - pH
 - Organic Matter
 - Potassium

 All land receiving fertilizer shall determine the potential for <u>nitrogen transport</u> using:

The Nitrogen Leaching Index



 All land receiving fertilizer shall determine the potential for <u>nitrogen transport</u> using:

The Nitrogen Leaching Index

phosphorus transport using:

The Vermont Phosphorus Index

Nutrient applications shall be based on University recommendations and/or industry practice appropriate for the geographic area.

Sid Bosworth's Golf Course Turf Recommendations (N and P) from UVM

(on website once finalized)

- Soil Sample results shall be maintained for 5 years
 - kept at the golf course and made available upon request

(during inspection for example)

Changes to the Permit Process

You all (most) have permits in place that are still in effect (no expiration date)

Changes to the Permitting Process

Permits shall be renewed annually

To renew: report pesticide usage (details to follow)

report fertilizer usage (details to follow)

requests for additional pesticides, or increase amount needed

signed affidavit (superintendent and GC officer) that GC is in compliance with all permit requirements

Renewal form mailed to the course at end of year will prompt you for required information. (See handout)

Confirm mailing address - where should renewal form go?



Pesticide Usage Reporting

Reporting **Pesticide** Usage for Previous Season

What information to report:

- USE SAME FORM AS USUAL, JUST MAKE AN <u>ADDITIONAL COPY</u> TO SEND WITH PERMIT RENEWAL.
- Send original along with your pesticide applicator renewal form, and payment, to the Licensing & Registration Section.
- Keep a copy for yourself!

mployer name		Co. license r	numberre	_ reporting year		
mployer address		tel. number				
opplicator(s) reporting						
No use (A) Ar (H) Hig (Q) Aq	hway (M) Mosquitoes uatic (R) Railroad	(C) Corn (D) Cooling tower (O) Ornamental, shade tree (S) General structural pest, food proces (V) Small fruits & vegetables	(E) Golf Course (P) Plant propag sing, indoor & perimet (W) Wood treats	ation, greenhouse, Christe er treatments (T) Tre	nwn care nas trees æ Fruits	
EPA Registration Number	Name of Product (please provide the complete name)			Total used in lbs or gals-e.g.: 1.6 lbs	Treatment/ use group code	Coun
county Codes: 01. Addison	02. Bennington 03. Cale	donia 04. Chiltenden 05. Essex	06. Franklin	07. Grand Isle	VEI	RMO



Fertilizer Usage Reporting

Reporting **Fertilizer** Usage for Previous Season

What information to report:

- 1. Total N and P used
- 2. Totals of each, broken down by site of application (greens, tees, fairways, roughs, etc.)
- 3. Average rate of N and P used per acre by site of application

Don't worry, the Daily Record and Permit Renewal form will guide you!

- Buffer strips to protect surface waters, groundwater or other environmentally sensitive areas shall be established*. Standard buffers where pesticides shall not be applied shall be established as follows:
 - I. 100 feet from all private drinking water supplies and public transient drinking water supplies
 - II. 200 feet from all public, non-transient drinking water supplies
 - III. 25 feet from all flowing surface waters and Class II wetlands
 - IV. 10 feet from impounded surface waters wholly on the golf course property.
 - V. 25 feet from impounded surface waters not wholly on the golf course property.

*unless larger buffers are already established in your current permit!

Record Keeping (Maintain at the Golf Course for 5 years)

- Record for each application of **pesticides**:
 - 1. Date and time of application
 - 2. Site of application
 - 3. Pesticide(s) used and EPA Registration Number
 - 4. Active ingredient
 - 5. Amount of pesticide product used
 - 6. Pounds of active ingredient used
 - 7. Weather conditions at the time of application

Record Keeping (Maintain at the Golf Course for 5 years)

Record for each application of fertilizer/nutrients:

 Site of application (tee, green, fairway, rough etc.)
 Area of application in acres
 Date of application
 Nitrogen recommendation
 Phosphorus recommendation
 Grade/analysis of fertilizer applied
 Amount of NO₃ - and P₂O₅ applied per acre

Record Keeping (Maintain at the Golf Course for 5 years)

Use copies of my form Fill up a binder Make timely and accurate entries! Keep it in a safe place



VT GC Daily <u>PESTICIDE</u> Records

Golf Course_____ Year_____

These records must be maintained at the Golf Course for (5) years,

and made available to the Agency upon request.

Date & Time	Site of Application(s) (greens, fairways, etc. with hole #s)	Pesticide Product Name	EPA Reg. #	Amount of Product Used (Ibs. or Gal)	Active Ingredient(s)	Lbs. Active Ingredient Used	Pest Treated For	Weather at Tim of Application

Do not submit this form to the Agency, but instead use these records to compile your pesticde usage for your end-of-year report.



Golf Course_____ Year These records must be maintained at the Golf Course for (5) years,

and made available to the Agency upon request.

Date	Site of Application(s) (greens, fairways, etc. with hole #s)	Fertilizer Grade/Analysis	# Acres Fertilized	Nitrogen recommendation	Phosphorus recommendation	Amount of NO3 applied per acre	Amount of P2Os applied per acre

Do not submit this form to the Agency, but instead use these records to compile your fertilizer usage for your end-of-year report.

How to amend your permit

- To add active ingredients, or increase amount on permit
 - Go to Golf Course Permit Website
 - To add Prescreened Current Prescreened Active Ingredient List
 - To add Non-Prescreened Vermont Golf Course Dilution Worksheet (Microsoft Excel Spreadsheet)

Permit Renewal Form

Go through example handout

Golf Course Permit

Go through example handout

Starting this Season...

- Begin soil testing parts of course to be fertilized, 1/3 of course per year.
- Write Nutrient Management Plan (NMP)
- Use forms to keep records of all pesticides and fertilizers applied.

This Fall...

- Golf Course Permit Renewal Forms mailed out around Thanksgiving (does this work?)
- Pesticide Applicator Certificate Renewal form will come separately, and will be returned separately!
- Golf Course Permit Renewal form goes to Matt!

Finally...

Please call or email me with any questions!

Matthew Wood 802-828-3482 <u>matthew.wood@vermont.gov</u>

Website will have EVERYTHING:

http://agriculture.vermont.gov/pesticide_regulation/pesticide_permitting/golf_course_permits

Just google "Vermont Golf Course Permit"