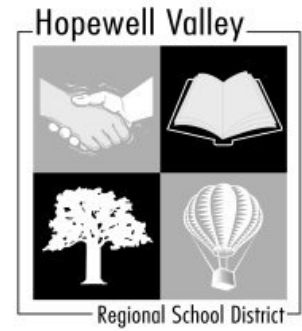


Hopewell Valley Regional School District

NORMAN TOR KELSON
Director of Facilities
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TO: Principals
Vice Principals
Head Custodians
Kiki Enderle - Athletic Director

February 28, 2009
March 12, 2009 nwt rev.

FROM: John Lewless Head Groundskeeper outside IPM Supervisor
Eric Muentener Assistant Director of Facilities outside IPM Supervisor
Norman Torkelson Director of Facilities

CC: Robert Colavita Business Administrator
Paul Pogorzelski Hopewell Township Administrator
Debbie Pall Outside Use of Buildings Coordinator
JoAnn Meyer Community Information Liaison
Doug Brower HVRSD Website Master
Robert Germond Custodial Supervisor
Kurt Pedersen HVRSD Grounds Consultant
Michael Moore PARS Environmental Inc.
Tom Fisher T Fisher Landscaping

Enclosed: **2009 IPM Plan for Sports Turf & Lawns - Fertilizer & Pesticide Application Schedule**

- This package **must** be kept for your building records
- Additionally, this package provides the information that is necessary to help plan and schedule school events and minimize rumors that result from the lack of adequate knowledge and/or communication

Introduction:

- The purpose of this IPM Turf Plan is to provide all buildings with an overview of our tentative IPM schedule for the year
 - The NJ School IPM Act requires a minimum 72 hour pre-notification of a pesticide application
 - A minimum seven (7) hour no re-entry period is required, or as specified on the MSDS sheet
 - A 72 hour flagging requirement after the application is, also, required
- Copies of the Material Safety Data Sheets (MSDS) for all materials described in this plan are attached
 - Remember that fertilizer IS NOT a pesticide
 - Copies of MSDS for all hazardous chemicals to which employees are exposed, or are potentially exposed, will be kept in each main office and a central file in the Facilities Office
 - HVRSD Haz Com Written Program Draft 11/26/07

Vision • Values • Discovery

(introduction continued:)

- The goal of an IPM program is to promote a 'common-sense approach' that provides for the least toxic solutions wherever possible to help control pests & weeds. Our District Grounds Crew utilizes IPM 'Best Practices' whenever possible. For example:
 - Soil analysis (STEP 1) & periodic field inspections (ongoing) help to identify only those areas that actually require treatment and helps to tailor the appropriate amounts of material needed to produce the desired result without the unnecessary use of pesticides & herbicides
 - The district practice of heavily mulching plant beds helps to improve the soil and is also very effective at weed management
 - Cutting grass at taller heights during the off season also helps with weed management

- Step **4B** is another excellent example of an IPM 'common sense approach'.
 - HVRSD does NOT utilize a universal broadcast application of Preventative Maintenance grub control pesticide (whether the fields need it or not)
 - Spot treatment of DYLOX for grub control is performed ONLY in response to periodic visual inspections of the turf grass root systems
 - Tolerances for treatment are:
 - 0 to 2 grubs in a 1-ft² sample → no action
 - 3 → cause for increased inspections & concern
 - 4 to 5 → time to initiate spot treatment
 - Spot treatment of DYLOX is then applied ONLY under very specific, controlled applications with the closest scrutiny:
 - Coordinated with weather conditions
 - At no time will any grub control be applied to any bodies of water including standing or moving water
 - All applications will be made in accordance with manufacturer's instructions
 - Under the observation of an HVRSD IPM Supervisor
 - All required pre-notifications & post flagging requirements to be followed

- Dylox Spot treatment has been applied to only two fields in the last three years
 - Out of a total of 18 sports turf fields maintained in the IPM program
 - This translates to ~ 100,000 ft² of turf that was spot treated
 - As Compared to ~ 1.8 million ft² of sports turf fields maintained in the 2009 IPM Plan for Sports Turf & Lawns program
 - This further translates into thousands of pounds of unneeded PM chemicals that otherwise would have been applied to our sports turf fields unnecessarily

- Integrated Pest Management (IPM) Plan for Sports Turf & Fields
- 2009 Fertilizer & Pesticide Application Schedule

- SIX STEP PROGRAM - ALL SCHOOLS

- STEP 1

- Soil Testing - Early February

- STEP 2

- Fertilizer Application - Early Spring
 - Material: Lesco - 24 - 0 - 11 - or equal
 - Active Ingredient: Nitrogen 24%, Phosphate 0 %, Soluble 11%, Potash
 - MSDS Sheet: MSDS sheet attached
 - Tentative Dates: April 1 - 15, 2009
 - Applicator: Outside Contract Services
 - NOTE: Current BID award is renewable yearly through 2011
 - The current outside contractor is Fisher Landscaping
 - Licensed Pesticide Applicators:
 - HVRSD IPM Supervisors:
 - John Lewless - Head Groundskeeper
 - Eric Muentener - Assistant Director of Facilities
- **Notes:**
 - Balanced Spring fertilizer
 - Fields can be used immediately after application (one hour)

- STEP 3

- Post-Emergent Herbicide with Fertilizer - Late Spring
 - Material: Dimension 19 - 0 - 6 - or equal
 - Active Ingredient: TLV/TWA
 - Material: Lesco Momentum broadleaf control or equal
 - Active Ingredient: Dicamba 2, 4, D
 - MSDS Sheets: MSDS Sheets attached
 - Tentative Dates: May 1 - 15, 2009
 - Applicator: Outside Contract Services
 - Tom Fisher Landscaping Contract Services
 - Licensed Pesticide Applicators:
 - HVRSD IPM Supervisors:
 - John Lewless - Head Groundskeeper
 - Eric Muentener - Assistant Director of Facilities
- **Notes:**
 - Dimension is a slow release fertilizer & crab grass preventer
 - Momentum is a spot spray application ONLY for broadleaf weed control as required
 - Fields can be used 7 hours after application.

➤ **STEP 4A**

- Insecticide Control with Fertilizer - Summer
 - Material: Talstar with Plus Fertilizer - or equal
 - Active Ingredient: Bifenthrin 0.069%
 - MSDS Sheet: Attached
 - Tentative Dates: June 15 - 30, 2009
 - Applicator: Outside Contract Services
 - Tom Fisher Landscaping Contract Services
 - Licensed Pesticide Applicators:
 - HVRSD IPM Supervisors:
 - John Lewless - Head Groundskeeper
 - Eric Muentener - Assistant Director of Facilities
- **Notes:**
 - Re-entry time on this product is 7 hours
 - All areas will be monitored for grubs, application will be done as a preventative measure and all areas will be monitored closely
 - C.H.S. graduation: June 22nd

➤ **STEP 4B**

- IPM - Grub Control
 - Material: Bayer Dylox - or equally effective, but less toxic alternate
 - Active Ingredient: Dimethyl Phosphonate
 - MSDS Sheet: Attached
 - Tentative Dates: August 1 - Sept 30, 2009
 - Applicator: Outside Contract Services
 - Tom Fisher Landscaping Contract Services
 - Licensed Pesticide Applicators:
 - HVRSD IPM Supervisors:
 - John Lewless - Head Groundskeeper
 - Eric Muentener - Assistant Director of Facilities
- **Notes:**
 - See comments in the introduction about this product & its limited use
 - Daily inspections during the dates identified above
 - Spot treatment as required
 - Posting requirements apply

➤ **STEP 5**

- Balanced Fall Fertilizer & Spot Broadleaf Control - Early Fall
 - Material: Lesco 24 - 0 - 11 or equal & Lesco Momentum broadleaf control or equal
 - Active Ingredient: Dicamba 2, 4, D
 - MSDS Sheets: Attached
 - Tentative Dates: September 15 - 30 2009
 - Applicator: Outside Contract Services
 - Tom Fisher Landscaping Contract Services
 - Licensed Pesticide Applicators:
 - HVRSD IPM Supervisors:
 - John Lewless - Head Groundskeeper
 - Eric Muentener - Assistant Director of Facilities

➤ **STEP 6**

- Fertilizer Application - Late Fall, Early Winter
 - Material: Lesco # 24-0-11
 - Active Ingredient: Nitrogen 24%, Phosphate 0 %, Soluble 11%, Potash
 - MSDS Sheet: Attached
 - Tentative Dates: December 1 - 15, 2009
 - Applicator: Outside Contract Services
 - Tom Fisher Landscaping Contract Services
 - Licensed Pesticide Applicators:
 - HVRSD IPM Supervisors:
 - John Lewless - Head Groundskeeper
 - Eric Muentener - Assistant Director of Facilities
- **Notes:**
 - This is **NOT** a pesticide
 - All components are considered non-hazardous
 - Fields can be used immediately after application

➤ **WEED Maintenance**

- Ornamental beds - mulching
- Physical removal whenever possible
- Chemical control of nuisance weeds as required with:
 - **General Odorless Herbicide**
 - Material: Round-Up Pro
 - Active Ingredient: Glyphosate, Glycine
 - MSDS Sheet: Attached
 - Dates: Applied only on an as needed basis
 - Applicator: Licensed Pesticide Applicators:
 - John Lewless
 - Shannon Dech
 - HVRSD IPM Supervisors:
 - John Lewless - Head Groundskeeper
 - Eric Muentener - Assistant Director of Facilities
- **Notes:**
 - This will be done 'only as needed' per prior inspections by HVRSD licensed Grounds Staff
 - fence lines
 - ornamental beds
 - curb lines
 - sidewalk joints
 - blacktop cracks
 - building perimeters
 - The treated area(s) will be 'Flagged'
 - An IPM Supervisor WILL assure "no contact time" until the application is dry

GENERAL NOTES:

- All application windows are identified above.
 - Tentative IPM schedules will be confirmed with the contractor a minimum of 72 hours prior to the application, by John Lewless &/or Eric Muentener & with:
 - the Outside Use of Buildings Rental Coordinator
 - the Athletic Director
 - the affected Building Principal(s)
 - The Pesticide Application Record Form is to be signed by the Building Principal immediately after the application has occurred
 - the Pesticide Application Record Book is maintained & kept at the HVRSD Facilities Office
 - Currently all six steps of the Integrated Pest Management (IPM) Six Step Program are applied to
 - CHS Field #s 1, 2, 3 & 4
 - TMS Field #s 1, 2, 4 & 5
 - AFT Field #s 1, 2, 3, 4 & 5
 - HW Field #s 1 & 2
 - BT Field #s 1 & 2
 - IPM Steps 2, 4, & 5 may be applied to the high visibility areas in the front of District buildings as required
 - Any changes or updates in the MSDS for all of the above applications will be forwarded to each building for their records by the Facilities Office
 - Pesticides will NOT be applied onto any District grounds when fields are occupied, per NJ statute
 - Winter applications of lime or gypsum may be applied to some fields as soil tests deem necessary
 - This is a soil augment that increases soil porosity
 - This is not a pesticide or fertilizer, but notification will be done regarding what product is used, the date of application and the building where the lime or gypsum is to be applied
 - District Certified IPM Coordinators:
 - John Lewless Head Groundskeeper Outside IPM
 - Eric Muentener Assistant Director of Facilities Outside IPM
 - Robert Germond Custodial Supervisor Inside IPM
 - Norman Torkelson Director of Facilities Inside IPM
 - HVRSD licensed applicators holding current Turf 3B Core Certificates:
 - John Lewless Pesticide License #25256B Expiration: 10/31/2009
 - Shannon Dech Pesticide License #26181B Expiration: 10/31/2009
 - Eric Muentener Pesticide License #25293A Expiration: 10/31/2009
 - Fisher Landscaping Pesticide License #93951A Expiration: 10/31/2009
- *****All licensed applicators must have the new Category 13 School IPM endorsement by August 1, 2009*******
- Questions and concerns should be directed to HVRSD (outside) IPM Supervisors:
 - John Lewless Head Groundskeeper
 - Eric Muentener Assistant Director of Facilities
 - They can be contacted at:
 - 609-737-4000, ext. #2803
 - Fax #: 609-737-6874
 - internal HVRSD e-mail addressed to emuentener@hvrds.org
 - All inquiries will be addressed promptly