



COMMONWEALTH OF MASSACHUSETTS
EXECUTIVE OFFICE OF ENERGY & ENVIRONMENTAL AFFAIRS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHEAST REGIONAL OFFICE

205B Lowell Street, Wilmington, MA 01887 • (978) 694-3200

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June 22, 2007

Frederic E. Turkington, Jr.
Town Administrator
Town Office Building
41 Cochituate Road
Wayland, MA 01778

RE: Town: **Wayland**
PWS: Wayland Water Department
PWS ID#: 3315000
Program: Source Protection

Dear Mr. Turkington:

Please find attached the following information concerning:

- a. Approval of Happy Hollow Wellfield Zone I Improvements

Please note that the signature on this cover letter indicates formal issuance of the attached document. If you have any questions regarding this letter, please contact James J. Dillon at (978)-694-3231.

Very truly yours,

James J. Dillon
Drinking Water Program
Northeast Regional Office

Very truly yours,

James H. Persky
Water Supply Section Chief
Northeast Regional Office

File Name: Y:\DWP Archive\NERO\Wayland-3315000-Source Protection -2007-06-22

CC: Joel P. Goolmonson, Chairman, Board of Water Commissioners, Town Office Building, 41 Cochituate Road, Wayland, MA 01778
Ronald Pong, Tata & Howard, Inc., 125 Turnpike Road, Westborough, MA 01581

Town: WAYLAND
PWS ID#: 3315000

Date: June 22, 2007

The Massachusetts Department of Environmental Protection ("MassDEP or the "Department") is in receipt of your response, dated May 24, 2007, to the Department's February 5, 2007 letter regarding inappropriate activities within the four hundred (400) foot Zone I radius of the Happy Hollow wellfield.

The Drinking Water Regulations of Massachusetts, 310 CMR 22.21(3)(b) state that current and/or future land uses within the Zone I are limited to those directly related to the provision of public drinking water or will have no significant adverse impact on water quality.

A Department inspection showed the following activities occur within the Zone I:

1. The drainage from the High School athletic field flows underground to a stream that flows through the Zone I.
2. Overnight parking of school buses.
3. Student parking.
4. Run off from the school parking lot flows towards the Zone I.
5. Maintenance of school buses.
6. Homecoming bonfire and related activities.
7. Portions of two (2) separate athletic fields.

You have proposed the following remedies for the above-mentioned activities:

1. By August 31, 2007 the overnight parking of the school busses along with the office trailer will be relocated outside of the Zone I to an area adjacent to the Wayland Community Pool Building. There will no longer be any maintenance conducted on the school busses within the Zone I.
2. Student parking within the Zone I will be substantially limited & parking within the Zone I will be limited to the recreational use of the athletic facilities on non-school days.
3. The use of herbicides and pesticides is prohibited and only starter fertilizer will/is used.
4. Protective measures will be taken to prevent the migration of any of the chemical products now being used to repair the cracks and heaves in the tennis courts located both in and outside the Zone I.
5. A bituminous Cape Cod berm will be constructed along the edge of the parking to direct storm water run off away from the Zone I. The storm water as well as the runoff from the Field House roof will be directed to storm drains that will flow to a precast concrete infiltration chamber. From the precasted concrete infiltration chamber, the storm water will flow by gravity to a Vortechs System model 7000 high flow hydrodynamic separator for the removal of fine sediment, free oil, etc. The storm water will then be discharged to a grass-lined swale.
6. As per the Department's Superseding Order of Conditions (DEP File #322-0661), the drainage from the athletic will discharge outside the Zone I and the existing drainage line that does discharge to the Zone I will be cut and capped.

The Department herein supports your proposal for the improvements to the Happy Hollow wellfield Zone I.

The Department recommends the following:

1. All catch basins should be labeled with a metal tag stating "NO DUMPING PUBLIC WATER SUPPLY".
2. Shut-off valves should be installed on all catch basins or at a minimum at the Vorthechs separator to prevent flow in case of an accidental release of contaminants or chemical spill in the parking lot.
3. A written maintenance manual along with a schedule should be developed for cleaning out the catch basins and Vorthechs separator. This manual should contain a periodic schedule for sweeping the parking lot.
4. A snow management policy for the parking lot should be developed that at a minimum includes storage of snow outside the Zone I.
5. Institute a no salt policy in the Zone I, or use minimum salt, or use calcium chloride.
6. Instead of having the roof runoff from the Field House flow to the catch basins, install an infiltration trench or a series of dry wells around the perimeter of the Field House.
7. Mark out on the site and label (Public Water Supply-Zone I) that portion of the parking lot that is in the 400-foot Zone I.