

New York State Department of Environmental Conservation
Division of Water

Bureau of Flood Protection and Dam Safety, 4th Floor
625 Broadway, Albany, New York 12233-3504
Phone: (518) 402-8185 • **FAX:** (518) 402-8082
Website: www.dec.state.ny.us



Alexander B. Grannis
Commissioner

August 1, 2007

Alvin Benjamin, Benjamin Companies
Dover Knolls Development II
377 Oak Street, Suite 110
Garden City, New York 11530

Re: Harlem Valley State Hospital Res Dam
DEC Dam ID#: 230-0677
Town of Dover, Dutchess County

Dear Mr. Benjamin:

I conducted a routine visual inspection of the Harlem Valley State Hospital Res Dam on June 28, 2007 as part of the Department of Environmental Conservation's (Department) ongoing Dam Safety program. I was accompanied on the inspection by Ron Zelinski from your company. A copy of the inspection report is enclosed for your reference.

The dam appeared in essentially the same condition as during the last inspection. The inspection revealed the following:

1. Concrete deterioration is continuing.
2. There is seepage near the left toe and through the right spillway wall at the toe.
3. Vegetation is growing in concrete joints and cracks on downstream face.

As you know, this dam is currently classified as a "Class C - High Hazard" dam. This means that failure of the dam could cause loss of human life and other serious damage. If the dam is to remain in service as a safe structure, the owner should repair the deterioration and develop and implement a comprehensive operation and maintenance plan.

All Class C - High Hazard Dams should have an Emergency Action Plan (EAP), and the EAP should be updated annually. Our records indicate that we currently have an EAP for this dam dated May 1, 2000. Please provide an updated copy to this office for review.

Please keep in mind that any repair or construction activities related to the dam may require permits from the Department. Well in advance of beginning work on the dam, please check with the Regional Permit Administrator at the Department's New Paltz office (845-256-3059) to see if any permits are needed.

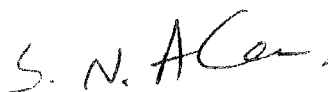
In addition, it should be noted that the dam safety regulations are currently being revised, and that in the preliminary draft, the owners of Class C - High Hazard Dams will be required to:

1. Maintain in good order all available records regarding the dam;
2. Develop and implement an Inspection, Operations and Maintenance Plan for each structure;
3. Develop and submit an Emergency Action Plan for each structure;
4. Provide for and demonstrate financial assurance necessary to protect life, property or natural resources during the life of each structure;
5. Have the dam inspected by a professional engineer every two years;
6. Submit annual certification of ownership, and that the Operations and Maintenance Plans are current and being implemented and that the EAPs are current, for each structure.

The preliminary draft of these regulations can be downloaded from the following website:
<ftp://ftp.dec.state.ny.us/dow/damsafety/>.

Please contact me at (518) 402-0628 if you have any questions or comments.

Sincerely,



Syed Alam, P.E.
Dam Safety Section
Environmental Engineer 2

cc w/enc: Jill A. Way, Supervisor, Town of Dover ✓
Berhanu Gonfa, NYSDEC, DOW, Region 3
cc w/o enc: Director, Office of Emergency Services, Dutchess

New York State Department of Environmental Conservation
Flood Protection Structural Programs Section-Dam Safety Section
625 Broadway, 4th Floor, Albany, New York 12233-3504

Visual Observations

DAM NAME HARLEM VALLEY STATE HOSPITAL RES DAM
STATE ID 230-0677 Section B Hazard Code C
COUNTY DUTCHESS Inspection Date: 6/28/2007
NEAREST CITY/TOWN WINGDALE Inspector(s): SA/JP/BG
OWNER'S NAME DOVER KNOLLS DEVELOPMENT COMPANY II, LLC
DOWNSTREAM HAZARD HIGH
WATER LEVEL BEHIND DAM ~ 8 INCHES BELOW CREST OF SPILLWAY
DRAIN OPERATION Unknown

DEFICIENCIES

- | | | |
|---|--|---|
| <input checked="" type="checkbox"/> 1) Seepage | <input checked="" type="checkbox"/> 4) Maintenance | <input type="checkbox"/> 7) Cracking |
| <input type="checkbox"/> 2) Slope Stability | <input checked="" type="checkbox"/> 5) Surficial Deterioration | <input type="checkbox"/> 8) Movement/Misalignment |
| <input checked="" type="checkbox"/> 3) Undesirable Growth | <input type="checkbox"/> 6) Voids | <input type="checkbox"/> 9) Data |

General: Inspected with Ron Zelinski (Owner's representative). Vegetative growth in concrete joints and cracks. Overall condition of the dam is similar to that noticed in prior inspection.

Crest:

Spillway: Spalling and cracks of the concrete overlay.

Upstream/Downstream Slopes: Downstream toe (left) has same seepage observed in previous inspection.

PHOTOGRAPH #'S _____



Photo 1 ID# 230-0677 Harlem Valley State Hospital Res Dam 6/28/07
Concrete spalling on right spillway wall



Photo 2 ID# 230-0677 Harlem Valley State Hospital Res Dam 6/28/07
Downstream face of the spillway



Photo 3 ID# 230-0677 Harlem Valley State Hospital Res Dam 6/28/07
Horizontal cracks - downstream face of dam



Photo 4 ID# 230-0677 Harlem Valley State Hospital Res Dam 6/28/07
Seepage through right wall



Photo 5 ID# 230-0677 Harlem Valley State Hospital Res Dam 6/28/07
Wet area downstream - left of spillway