State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES
6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-3503 FAX (603) 271-2867

Mr. William Dickerman, Headmaster
Hampshire Country School
Rindge, NH 03461

September 7, 2000
Letter of Deficiency
DAM #203.10

RE: Island Pond Dam, Rindge

Dear Mr. Dickerman:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on June 15, 2000. During this visual inspection and/or file review, the following deficiencies were observed:

1. There was heavy brush within 10 feet of the toe of the dam impeding inspection along the entire toe of the dam. Seepage was noted at the toe of the dam in previous inspection reports;

2. The north dike adjacent to Timbertop Road was overgrown with trees on both the upstream and downstream embankments. This overgrowth was noted in a December 10, 1990 Administrative Order and appears to have not been removed since that time;

3. There was a metal bar with chains attached to the low-level penstock placed on the crest of the dam for emergency draining of the pond. It was indicated to the undersigned that the low level outlet is operable with the aid of a hydraulic backhoe;

4. The hydraulic analysis indicated that the Island Pond Dam would have 0.2 feet of freeboard during the peak of the 100-year, 24-hour design storm with no operations;

5. In December of 1996 Mr. Robert Hitchcock, PE of Clough, Harbour & Associates indicated, in a letter, that the low-level outlet pipe was in poor shape and that the interior of the pipe flaked off as their inspector climbed within the pipe. In subsequent telephone conversations Mr. Hitchcock indicated that the owner (Hampshire Country School) would be slip-lining the old pipe with an HDPE liner. It appears that this was never completed;

6. There was no operation and maintenance plan on file with the DES; and

7. The emergency action plan (EAP) has been overdue since Clough, Harbour & Associates, first submitted a draft in January of 1993.

DES believes that the above deficiencies can be corrected by performing the following items prior to the indicated date:

<u>November 1, 2000</u>:

1. Remove the trees/brush from within 10 feet of the toe of the downstream block wall to facilitate inspection of this area. Upon completion of removal of the trees/brush inform this office to schedule a follow-up inspection;

2. Remove the trees/brush from both the upstream and downstream embankments of the dike adjacent to Timbertop Road and within 10 feet of each abutment of the dike;

3. Due to the previously stated hydraulic analysis and the dam's inability to pass the anticipated design storm, reconfigure the low level outlet so that it may be operated by hand during emergencies as may be necessary;

4. Complete a plan for the replacement of the low level outlet pipe or possibly slip-lining the pipe as indicated by Clough, Harbour and Associates;

5. Prepare and submit to the DES a written operational procedure plan. The plan should describe the control of impoundment levels, monitoring and maintenance procedures, and identify emergency contact personnel; and

6. Complete the EAP.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

COPY

Dale F. Gunn
Dam Safety Engineer

Attachments Guideline for an O&M plan, DB8, DB13
cc: Gretchen Rule
Town of Rindge
Certified # 7099 3400 0002 9772 7635
DFG/was/h:/safety/wendy/lod/203-10lod.doc