

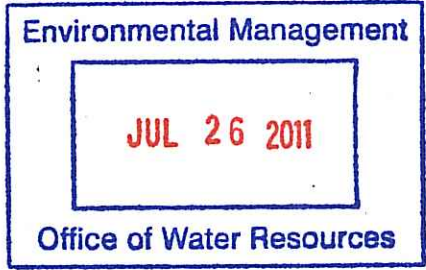
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES

Name: HOPE VALLEY FRESHWATER WETLANDS PROJECT Location: 041° 35' 03.0" N 071° 40' 33.3" W
 Date: 1/29/2010 Caption: Boone Lake - Exeter, RI
 Scale: 1 inch equals 2000 feet

APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED AUG 17 2011
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Environmental Management
 Office of Water Resources
 JUL 26 2011
 Figure 1

Nancy L. Treiman



25 July 2011

Boone Lake, Exeter, RI
Project Proposal, Scope, Impact Avoidance, Engineering:

The site (Boone Lake) consists of a 47 acre fresh water pond, which is replenished by a number of springs and brooks. The gate structure which maintains the water level consists of a 4-foot diameter inflow pipe, nineteen feet deep in the lake. Once water enters the inflow pipe it travels through a 7 1/2 ft high x 3 1/2 ft wide section of the gate structure, then through a 1 ft x 1 ft gate opening, and finally through a 3ft x 3ft stone box opening on the downstream face of the dam, which discharges the water.

Proposal is to lower the pond water elevation for approximately 14 weeks beginning on October 1st and completed by October 31st, until the 3rd week in March to help control the and eradicate invasive aquatic plants that are currently found in Boone Lake. The pond will be lowered slowly about 2 or 3 inches over at least a 2 to 3 week period when there is no threat of a storm and only after due notice to all concerned, including separate notice to DEM at least seven days before drawdown or refilling.

The drawdown will take approximately 2 to 3 weeks and will be lowered 5 feet below the spillway crest. The time to refill the pond is approximately 10 days but will be done in such a way as to maintain downstream flow levels as close to seasonal volumes as possible..

During the drawdown, the gate mechanism shall be opened on 1" - 1 1/2" so there is not threat of flooding. During the refilling process, sufficient water shall be supplied to downstream owners by way of the by-pass flow through the dam structure itself, or the gate may be opened a small amount (1/2" if required). The flow or Roaring Brook will be carefully monitored by residents.

This draw-down will occur annually unless directed otherwise by DEM.

Audrey Lochiatto 7/25/11
Audrey Lochiatto
Boone Lake Dam Committee Member

Gary Casaly 7/25/11
Gary Casaly
Boone Lake Dam Mngt District

BOONE LAKE DAM MANAGEMENT DISTRICT
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DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 17 2011 FILE # 10-0228
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Nancy L. Freeman