

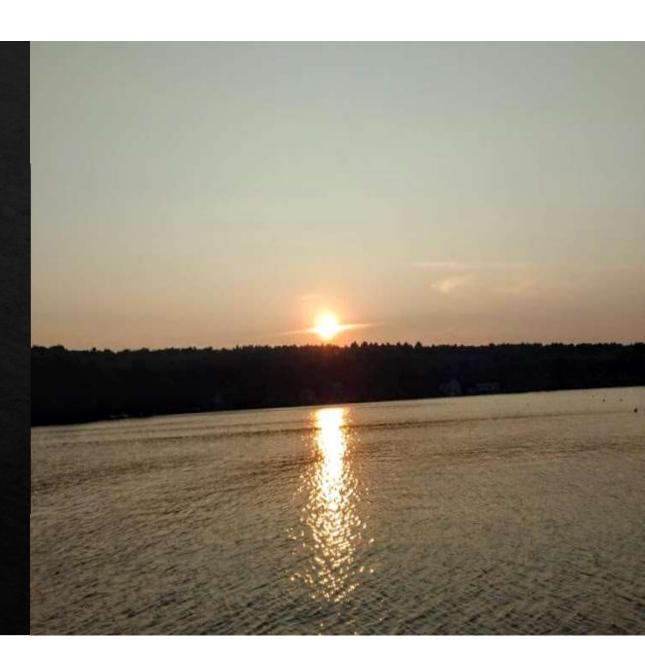


## LMPA Extended Draw Down and Weed Management Updates

- Historical perspective on weed management activities
- Where we are today
- Next Steps & Discussion

LMPA TIMELINES 16 YEARS

2003 - 2019





2003	2004 - 2006	2007	2007 (cont.)	2008
Comprehensive Biological Survey conducted of Lake Maspenock	Invasive weed problem recognized and discussed, no clear direction chosen. Decisions made to conduct another biological survey	Comprehensive biological survey conducted to use as a baseline to measure any remedial efforts undertaken to control invasive weed growth.	Town of Hopkinton purchases Lake Maspenock Dam	Town of Hopkinton Conservation Commission requested that the traditional draw down of the Lake be submitted to them as a formal plan



#### 2009 (cont.)

2010/2011

**2011** (summer)

2012

Notice of Intent submitted to Hopkinton Conservation Commission which includes the plan of normal draw down, and also includes more extensive draw down plan for invasive weed control. Conservation
Commission
approved NOI
which included
normal and
extended draw
downs, and work
on the boat ramp
and parking lot at
Sandy Beach.

First extended draw down conducted resulting in a water level reduction of approximately 7 feet Invasive weed problem markedly improved.
Comprehensive Biological Survey conducted, drastic reduction of biomass in the lake, with no negative effects on wildlife.

Reports of a "New Weed", Long Leaf Pondweed



2013 (Nov.) 2013/2014 **2014** (summer) 2013 **2014** (early fall) General Long Leaf 2<sup>nd</sup> Extended Partial draw Multiple appeals membership Pondweed is Draw Down down had no made to the meeting held, weed becoming effect, the Large attempted, membership to problem was significant. Leaf Pond Weed weather organize a weed extensively conditions progressed to the discussed and management prevented the point of making motion was made committee. some areas of the and approved that a draw down to be Committee was formal study would lake unusable. implemented formed and be pursued by the effectively, lake extensive LMPA for how this level reduced by research was could be managed only 5 feet. conducted. and controlled.



2015 2015 2015 2015 2015-2016

Membership meeting held January 8th, 64 members in attendance, vote was taken which was overwhelming in favor of the LMPA to seek permitting to conduct treatment of the lake with herbicides.

Notice of Intent was submitted to the Hopkinton Conservation Commission and filed with State DEP. Pubilc hearing was held and only 3 members of the attendees were in opposition to the use of herbicides in the lake.

Conservation
Commission
approved the
Notice of Intent
subject to an
order of
conditions issued
by Conservation
Commission.

LMPA
approached town
for funding of
herbicides.
Town Meeting
voted against this
use and required
a committee be
formed to study
and make
recommendations

3<sup>rd</sup> Extended Draw Down performed



**2016** (summer)

2017 - 2018

Town Weed Advisory

2018-2019

**2019** (summer)

2019 (fall)

Town Weed Advisory Board formed.

Extended drawdown was successful with good weed control

Board with help of a consultant, is active in performing research, analyzing best practices and conducting public forums. Selectmen approve the Lake Maspenock Aquatic

Vegetation Control & Management Plan

Town Weed
Advisory Board
recommended
extended draw
down. ConComm
denied due to risk
of a single resident
losing well water.
Committee
recommended
DPW to be
prepared to take
other actions in
the Spring

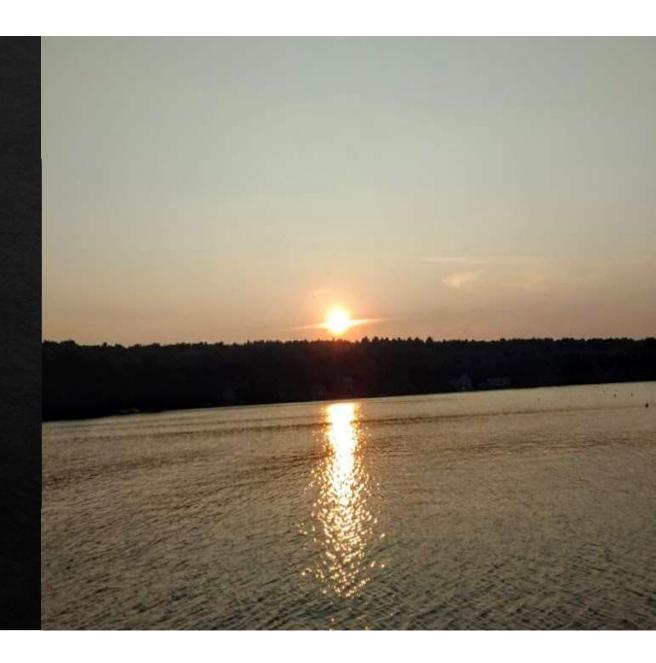
Weed surveys conducted in spring & fall.

By mid-summer, weeds in north basin were substantial.

Request made to execute extended drawdown.

Local residents submitted options for mitigation of shallow well. Where does that bring us?

What are the next steps?





## LMPA Extended Draw Down and Weed Management Updates

#### **Top Priorities**

- Conducting the extended drawdown this year
  - Going to a shallower depth or
  - Drilling the well deeper on Spindel Island
- Preparing for other treatment option(s) for next year if needed
  - Options for north basin (per approved Operational Plan): Extended drawdown, mechanical harvesting, herbicides



### LMPA Extended Draw Down and Weed Management Updates

- Weed Advisory Committee update from October 17, 2019 Meeting
  - ❖ DPW to work with ConComm on feasibility of performing a 7' extended drawdown (in place of 8')
  - All steps to be taken such that spot treatment of herbicides can be applied in early summer if needed
    - Need determined by drawdown effectiveness (if performed) and spring weed survey
    - Steps include: vendor selection, contracting, funding, permitting, holding a Public Hearing
    - Option of mechanical harvesting was eliminated based upon cost & feasibility due to topography
- LMPA Eboard update from October 16, 2019 Meeting
  - \* DPW, Geologist and Well company conducted a site review conducted on Spindel Island for potential drilling of well. Odds of success are low.
  - \* Board voted to dissolve the Weed Fund and return prorated portion to donors. Full accounting will be made available to the membership in near future.

Thank You Discussion

