

SILVER LAKE IMPROVEMENT ASSOCIATION

2016 Annual Membership Meeting

Welcome & Introductions

2015 Board Members

- President: Mark Kotz
- Vice Pres: Paul Anderson
- Secretary: Kristen Rieser
- Treasurer: Mary Anderson
- Member: Joyce Germscheid
- Member: John Muller
- Member: Jason Ziemer

2015 Liaisons

- North St. Paul: Paul Anderson
- Maplewood: Anne McComb
- VBWD: John Muller
- MN DNR: Jason Ziemer
- Ramsey Co: Mark Kotz
- Treatment: Jason Ziemer
- Newsletter: Joyce Germscheid
- Cleanup/Splash: Sharyn Long

Agenda

- Welcome and Introductions
- Approve Agenda
- Election of Board Members
- Financial Report
- 2015 Recap
- 2016 Treatment Plans
- Open Forum & Questions
- Adjourn

Election of Board Members

- How do elections work? - Bylaws
- President: Mark Kotz (ends 2017)
- Vice Pres: Paul Anderson (ends 2017)
- Secretary: Kristen Rieser (ends 2016)
- Treasurer: Mary Anderson (ends 2016)
- Member: Joyce Germscheid (ends 2016)
- Member: John Muller (ends 2018)
- Member: Jason Ziemer (ends 2018)

Ballot

- _____ Rick Gelbmann
- _____ Joyce Germscheid
- _____ Kristen Rieser
- _____
- _____
- _____

2015 Financial Statement

Description	Amount
2015 Starting Balance	\$7,292.57
Member Contributions	\$575.00
DNR Grants for Treatment	\$1,050.00
Payment to Contractor for Treatment	-\$4,092.50
Expenses (web site)	-\$148.87
Ending Balance	\$4,676.20



2015 Recap



2015 Recap

□ Winter

- Membership votes to continue voluntary no wake when water above 989.35 ft.
- Goal: Increase native plants, reduce invasives

□ Spring

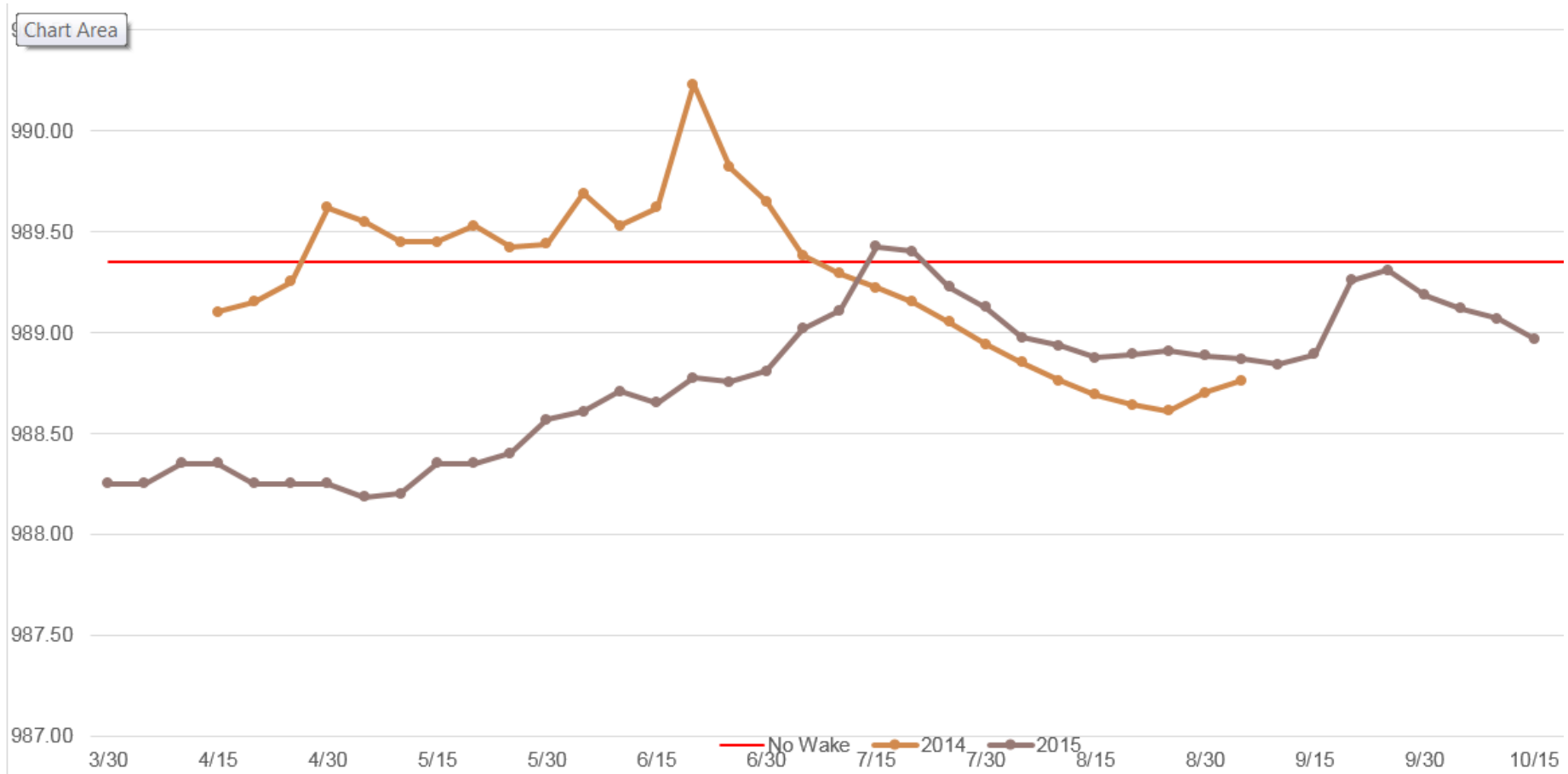
- Milfoil visible in bays
- Board agrees to treat bays and coordinate shoreline treatments

2015 Recap

□ Summer

- Bays and shorelines treated
- Received DNR grant for \$1050
- Treatments appeared to be effective
- High water no wake in July
- DNR plant survey
- Reduced water clarity

Water Level



DNR Plant Survey

- Report on web site – lots of good info about lake

	Total # Points Sampled	Max Depth of Growth in feet [95%] [†]	# Point in Max Depth Range	% Points w/ Native Submersed Taxa	Mean Native Submersed Taxa/ Point	# Native Submersed Taxa	# Invasive Submersed Taxa
2006	149	10	141	100	2.1	10	2
2007	150	10	140	96	1.4	6	2
2008	149	-	-	27	-	9	0
2009	149	-	-	52	-	7	2
2010	119	10	99	57	0.8	5	2
2011	121	10	77	31	0.5	8	2
2012	119	12	99	31	0.4	6	2
2013	120	8	94	42	0.7	10	2
2014	120	9	82	47	0.7	8	2
2015	115	8	84	49	0.9	11	2

DNR Plant Survey

Table 4-Plant Frequency Occurrence. Percent frequency of occurrence for submersed taxa (most identified to species) within the littoral zone (0-15 feet) in Silver Lake, Ramsey County (Dow # 62000100).

Year	Month	Number of Sample Points in Littoral	Surveyor	Invasive Submersed Aquatic Vegetation	Eurasian watermilfoil	Curly- leaf pondweed	Native Submersed Aquatic Vegetation	Coontail	Canadian waterweed	Water stargrass	Northern watermilfoil	Naiad	Large-leaf pondweed	Macroalgae	Muskgrass & Stonewort
2006	27-Jul	145	BARR		56	1		97	41	14	10	30	10		4
2007	13-Aug	146	Fortin		8	1		92	32	0	0	7	5		2
2008	24-Aug	-	U of M		0	0		11	12	2	0	1	1		3
2009	9-Aug	-	U of M		1	1		1	44	6	0	1	0		40
2010	17-Jun	115	MnDNR		5	55		0	19	0	1	0	0		50
2011	1-Aug	116	MnDNR		38	5		2	11	3	3	0	0		20
2012	12-Jul	116	MnDNR		65	8		0	4	0	9	0	0		23
2013	11-Sep	118	MnDNR		11	3		10	2	0	19	2	0		30
2014	5-Aug	116	MnDNR		51	31		18	2	1	0	3	0		35
2015	20-Aug	109	MnDNR		6	2		29	2	6	1	4	0		36

Water Clarity

Date	Feet
6/11/2015	10.5
6/14/2015	9.75
6/19/2015	7
6/26/2015	5.7
6/26/2015	5.1
6/27/2015	6.1
6/28/2015	4.2
7/1/2015	3.7
7/3/2015	3.4
7/5/2015	2.9
7/11/2015	2.8
8/1/2015	3.8
8/9/2015	2.3
8/15/2015	2.2
8/22/2015	2.1

2015 Recap

- Summer/Fall
 - ▣ DNR Grant funds reduce to 30% of previous years
 - ▣ City adopts new shoreline property regulations – later amends
 - ▣ Fall high water and weir issue
 - ▣ Bank balance getting lower
 - ▣ Decision: no more shoreline treatment coordination for non SLIA members

Invasive Plant Treatment Review

The Permitting Process

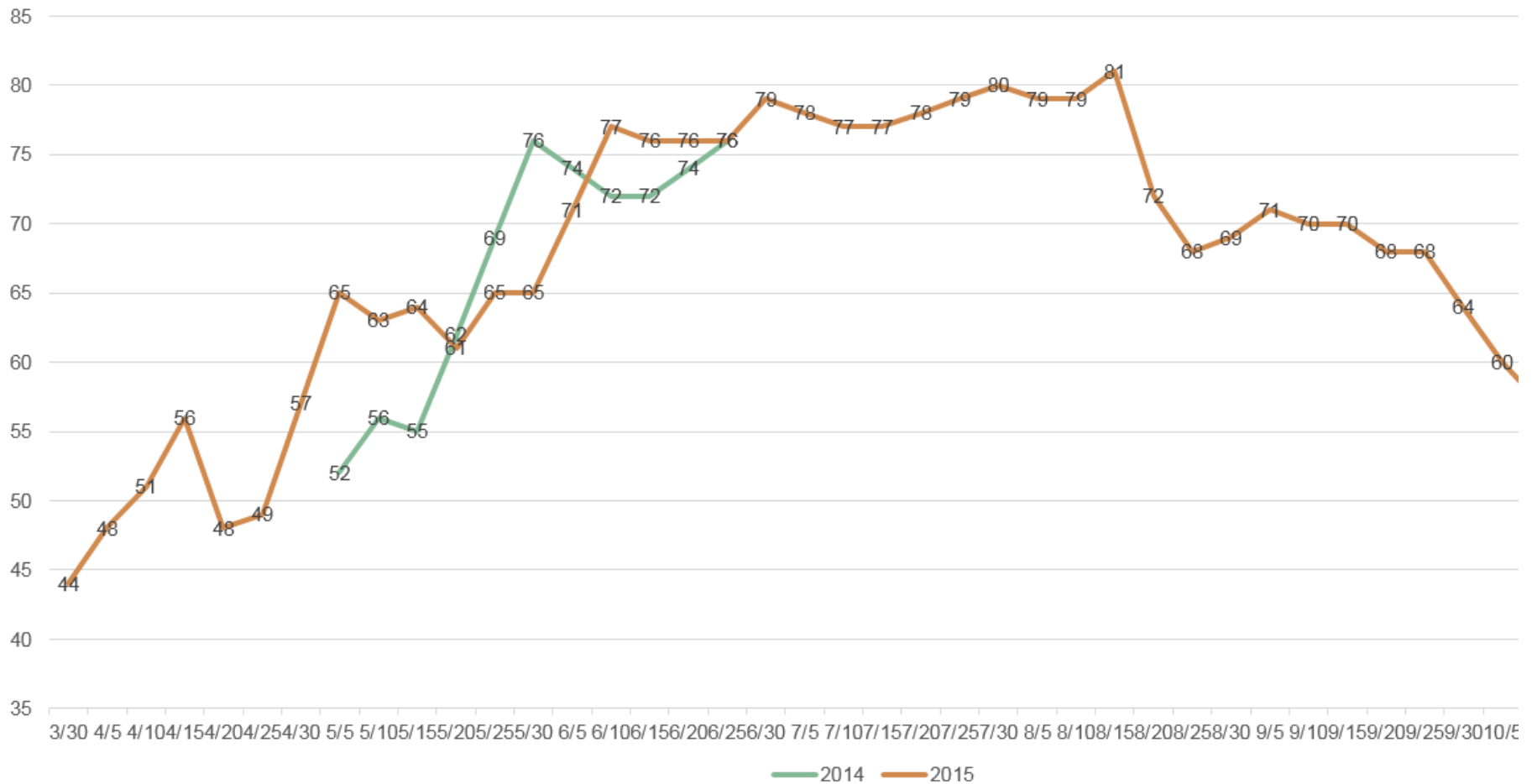
What happened in 2015

Plans for 2016

The Permitting Process

- Paperwork submittal in winter
- Map the invasives after ice-out
- Submit a proposal with maps to DNR
- Limited to 10.65 acres total
- DNR confirms via onsite inspection
- DNR grants approval
- Contractor treats lake
- Timing (water temp) is critical for effectiveness

Water Temperature



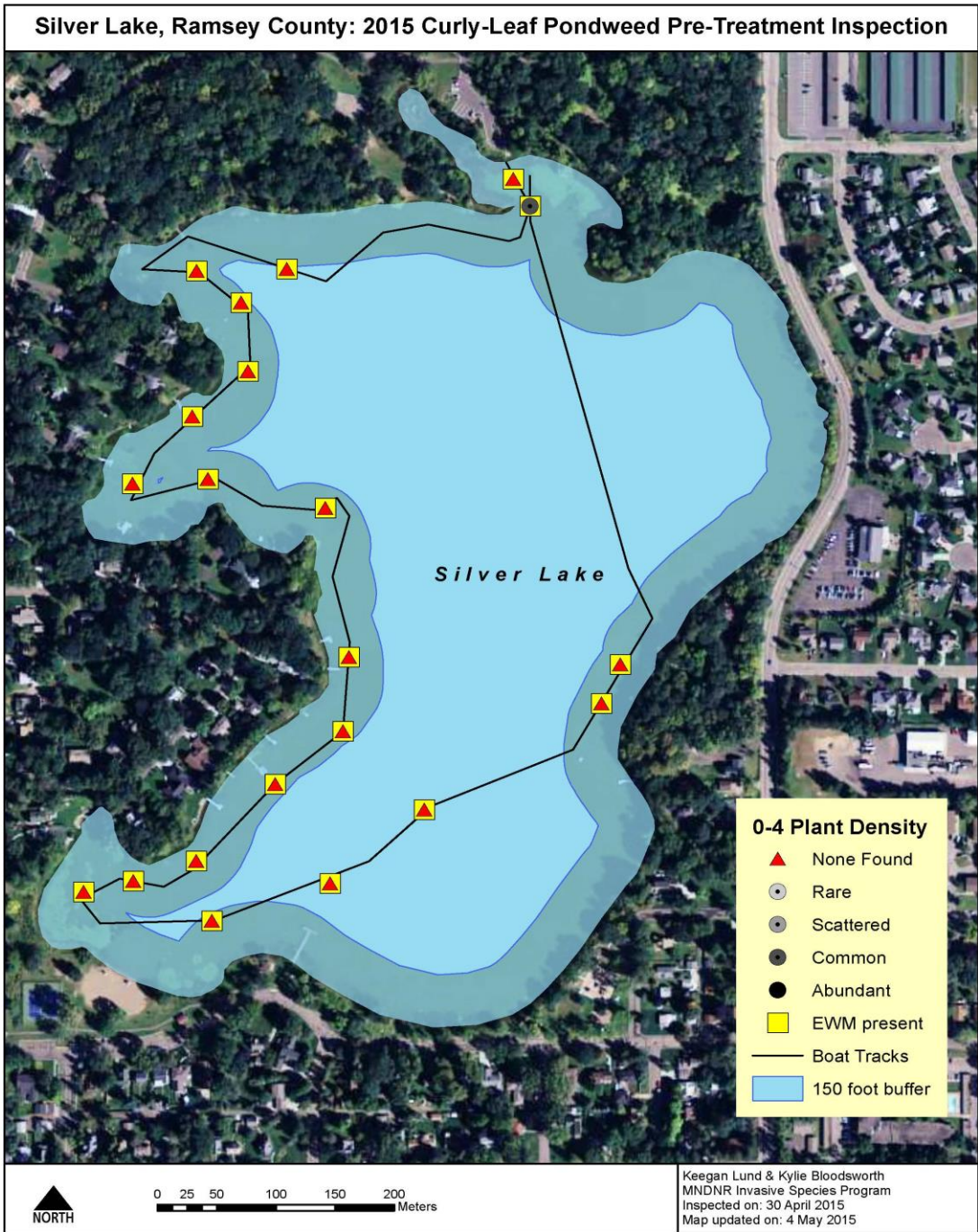
2015 Treatment Review

- Inspected lake after ice out
- Found mature Eurasian Watermilfoil – survived winter
- Submitted proposal
- DNR inspected & approved
- Treated while the water was cool

2015
Proposed
Area



DNR Inspection



2015 Treatment Review

- Treatment approved by DNR
- Treatment completed by Lake Improvement Consulting
- Individual shoreline treatments too
- Treatment was effective

2016 and Beyond

- Goal: Improve the health of the lake
 - Increase native plants
 - Decrease invasive plants
 - Improve water quality (clarity and nutrients)
- Treating same areas as 2015
 - Perennial problem areas
 - Streamlined approval process if no change
- DNR grants filled in 1 week. We are in.
- Increase funding (city partners)



- Open Forum, Questions?

- Adjourn