

## Lake Water Quality 2015 Annual Report

**Silver Lake**

Waukesha County

Waterbody Number: 779800

Lake Type: SEEPAGE

DNR Region: SE

GEO Region:SE

Site Name	Storet #
Silver Lake - Deep Hole	683145

Date	SD (ft)	SD (m)	Hit Bottom	CHL	TP	TSI (SD)	TSI (CHL)	TSI (TP)	Lake Level	Clarity	Color	Perception
04/11/2015	29	8.8	NO		11.4	29		47	LOW	CLEAR	BLUE	1-Beautiful, could not be nicer
04/26/2015	20.5	6.2	NO			34			LOW	CLEAR	BLUE	1-Beautiful, could not be nicer
06/17/2015	37	11.3	NO	.637	10.6	25	31	46	NORMAL	CLEAR	BLUE	1-Beautiful, could not be nicer
07/09/2015	7.5	2.3	NO			48			NORMAL	CLEAR	BLUE	2-Very minor aesthetic problems
07/23/2015	6.5	2	NO	2.68	11.9	50	42	47	NORMAL	CLEAR	BLUE	3-Enjoyment somewhat impaired (algae)
08/17/2015	10	3	NO	2.21	11.8	44	41	47	LOW	MURKY	BLUE	3-Enjoyment somewhat impaired (algae)

04/11/2015		
Depth FEET	Temp. DEGREES C	D.O. MG/L
3	9.3	12.26
5	8.5	12.54
10	8.3	12.55
15	8.2	12.55
18	8.1	12.56
20	8.1	12.56
21	8	12.56
24	8	12.55
25	8	12.53
30	7.9	12.48
35	7.8	12.4
40	7.6	12.45

04/26/2015		
Depth FEET	Temp. DEGREES C	D.O. MG/L
3	11.1	12.25
5	10.9	12.29
10	10.9	12.35
15	10.3	12.33
18	10.1	12.31
20	9.9	12.32
21	9.9	12.33
24	9.8	12.31
25	9.8	12.31
30	9.8	12.29
35	9.5	12.04
40	9.3	12.84

06/17/2015		
Depth FEET	Temp. DEGREES C	D.O. MG/L
3	23	9.95
5	22.5	10.13
10	22.1	9.84
15	21.2	9.73
18	20.6	9.66
20	20.1	9.51
21	19.6	9.5
24	17.8	8.71
25	16.6	8.22
30	14.6	7.58
35	13.2	4.17
40	12.9	1.01

07/09/2015		
Depth FEET	Temp. DEGREES C	D.O. MG/L
3	23.3	11.27
5	23.2	11.35
10	23.1	11.38
15	22.9	11.29
18	22.1	10.71
20	21.5	9.73
21	21.1	9.25

07/23/2015		
Depth FEET	Temp. DEGREES C	D.O. MG/L
3	26.2	10.95
5	25.9	11.12
10	25.6	11.03
15	25	10.49
18	23.8	10.28
20	22.7	8.85
21	21.5	6.63

08/17/2015		
Depth FEET	Temp. DEGREES C	D.O. MG/L
3	27.1	10.06
5	27	10.13
10	26.8	9.99
15	25.8	10.19
18	25	9.52
20	24.4	8.41
21	23.6	6.38

24	18.7	6.28	24	19.4	2.15	24	21	.88
25	17.9	5.2	25	18.9	1.48	25	20.3	.59
30	15.7	2.47	30	16.1	.22	30	17.2	.47
35	14.1	.23	35	14.9	.16	35	14.7	.15
40	13.4	.17	40	13.8	.12	40	13.7	.11

Date	Collector Comments
04/11/2015	One common loon- a pair of red-breasted mergansers- a pair of mallards- and a few geese cruising the open water in the a.m. Chorus frogs and spring peepers calling from wetlands to the north. N. Rice assisted with data collection. One common loon- a pair of red-breasted mergansers- a pair of mallards- and a few geese were cruising the open water this morning. Chorus frogs and spring peepers calling from wetlands to the north. N. Rice assisted with data collection.
04/26/2015	Great egret seen by west shore at kettle wetlands. Five red-breasted mergansers- two buffleheads- gulls and Canada geese present. Blue sky with a few clouds to the east. Slight ripple at lake surface from gentle north west breeze. N. Rice assisted with data collection.
06/17/2015	Pileated woodpecker seen on north shore this past weekend. Oriole babies- goslings and duckings just a few of the fun spring sightings. First swallowtail butterfly seen as well. The lake is calm; heavy rains fell earlier in week. Cottonwood blossoms dot lake surface. N. Rice assisted with data collection.
07/09/2015	Lake is aqua marine and sparkling. As we anchored- great blue heron did low fly over- followed by the swoop of a barn swallow. Call of northern bobwhite from shore. Marsh milkweed blooming on north shore. N. Rice assisted with data collection.
07/23/2015	Calm conditions- bright blue sky with a few clouds. Gulls arrived this week- 20 present by west side of lake. Algae bloom present- water has bright green hue. Yesterday the following butterflies were seen on the north shore: 1 swallowtail- 2 monarchs- 1 red admiral and 1 purple admiral. N. Rice assisted with data collection. (satellite day)
07/23/2015	Satellite day. Calm conditions- bright blue sky with a few clouds. Gulls arrived this week- currently 20 present near west side kettle wetlands. Algae bloom present. Yesterday- a number of butterflies visited north shore- including: a swallowtail- 2 monarchs- 1 red admiral. N. Rice assisted with data collection.
08/17/2015	Gentle breeze from west. Flock of geese cruising north shore. Hot weather weekend- algae present on north shore. Cicadas calling- and Orioles are back. N. Rice assisted with data collection. (satellite day)

Date	Data Collectors	Project
04/11/2015	Jessica Rice	Citizen Lake Monitoring - Water Quality - Silver Lake; Deep Hole
04/26/2015	Jessica Rice	Citizen Lake Monitoring - Water Quality - Silver Lake; Deep Hole
06/17/2015	Jessica Rice	Citizen Lake Monitoring - Water Quality - Silver Lake; Deep Hole
07/09/2015	Jessica Rice	Citizen Lake Monitoring - Water Quality - Silver Lake; Deep Hole
07/23/2015	Jessica Rice	Citizen Lake Monitoring - Water Quality - Silver Lake; Deep Hole
08/17/2015	Jessica Rice	Citizen Lake Monitoring - Water Quality - Silver Lake; Deep Hole

SD = Secchi depth measured in feet converted to meters; Chl = Chlorophyll a in micrograms per liter(ug/l); TP = Total phosphorus in ug/l, surface sample only; TSI(SD), TSI(CHL), TSI(TP) = Trophic state index based on SD, CHL, TP respectively; Depth measured in feet.

Wisconsin Department of Natural Resources

Wisconsin Lakes Partnership

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