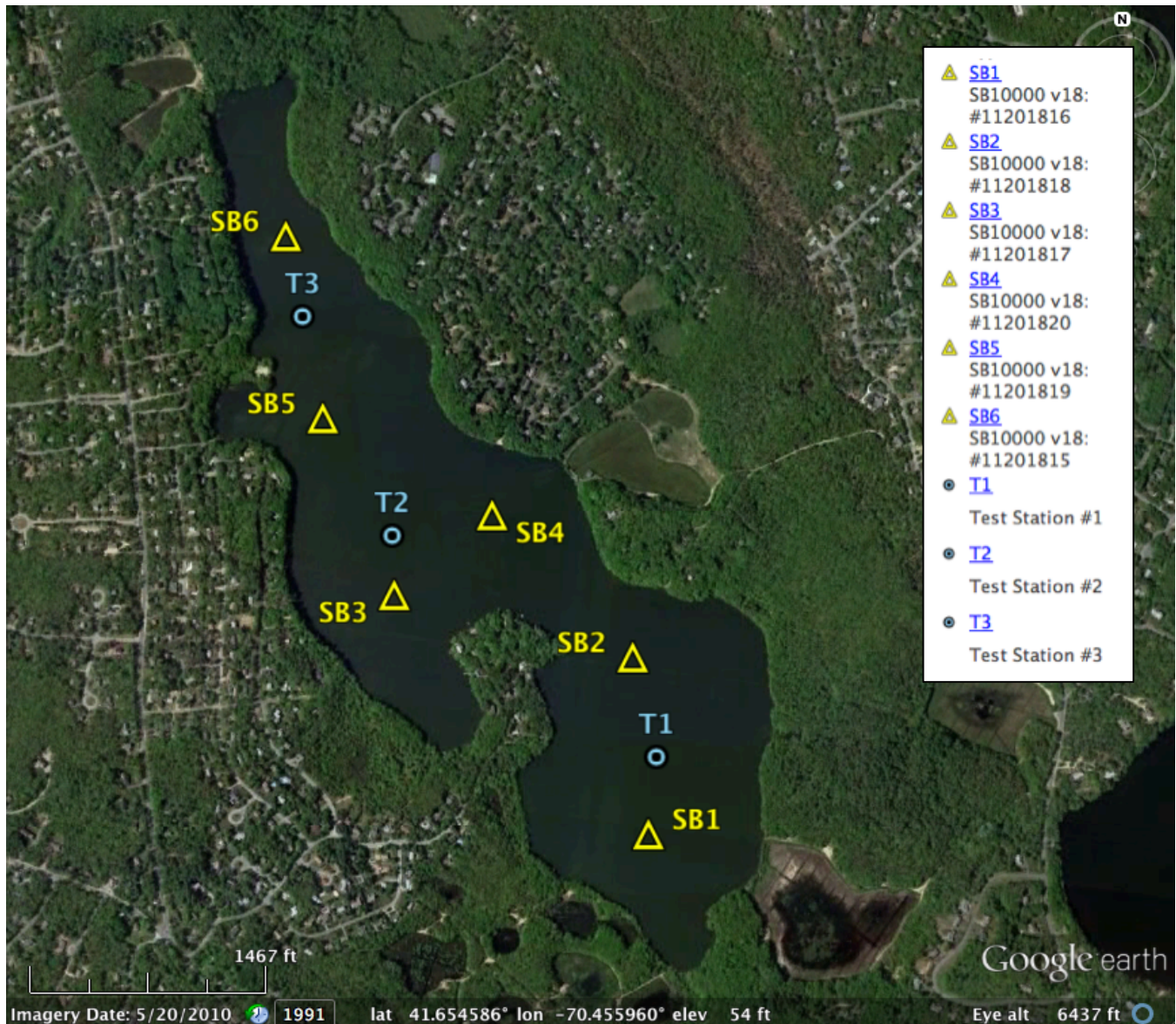


Town of Mashpee, MA
Santuit Pond



For questions about this report, machine service, or water quality issues, please contact
SolarBee Customer Service at 866-437-8076 or customerservice@solarbee.com

SolarBee Water Quality Testing is intended to provide general indications of water quality and slurry / sludge / sediment profiles at the time of testing. In most cases, there are not enough test points for statistical significance. This information should not be considered a substitute for larger, more comprehensive system studies that SolarBee, Inc. and other companies can provide at additional cost.

*GPS positions are recorded for all test stations and SolarBee machines.
Depending on conditions, there can be a positioning discrepancy of +/-60 feet at any given time.*

Objective(s)

Circulation is being proposed to control and minimize the formation of algal blooms caused in the pond from high phosphorus concentrations.

Machine Intake Setting Information

#	Serial Number	Machine Model	Intake Setting (ft)	Weight Bearing (ft)	Description
1	111201816	SB10000 v18	6.67	8.67	SB1
2	111201818	SB10000 v18	7.83	8.83	SB2
3	111201817	SB10000 v18	6.33	8.33	SB3
4	111201820	SB10000 v18	7.50	8.92	SB4
5	111201819	SB10000 v18	6.50	8.00	SB5
6	111201815	SB10000 v18	5.00	6.08	SB6

Service Call Summary

Reason For Service Call:

BeeKeeper Service Program: Scheduled maintenance and water quality testing.

Service Call Summary:

Our crew performed general maintenance and cleaning on all units. They noted at departure that all machines were operating properly and in good condition.

Water quality testing was performed at designated sites. Average secchi was 2.64 ft, average DO was 8.94 mg/L, and average pH was 8.39.

Crew: Dereck Short, Jon Piehl

Water Quality Testing

Test Station #T1	
<i>Start Time:</i>	10:14 AM
<i>GPS Location:</i>	41.65038,-70.45446
<i>Secchi Depth (ft.):</i>	2.58
<i>Weight Bearing (ft.):</i>	8.25
<i>Water Color:</i>	Light Brown

Test Station #T2	
<i>Start Time:</i>	10:46 AM
<i>GPS Location:</i>	41.65426,-70.46053
<i>Secchi Depth (ft.):</i>	2.67
<i>Weight Bearing (ft.):</i>	8.83
<i>Water Color:</i>	Light Brown

Depth (meters, feet)
(surface) 0
(0.30 m) 1
(0.61 m) 2
(0.91 m) 3
(1.22 m) 4
(1.52 m) 5
(1.83 m) 6
(2.13 m) 7
(2.44 m) 8

Temp. (deg. C)	D.O. (mg/L)	pH	Spec. Cond. (mS/cm)
18.87	9.91	8.02	0.132
18.90	9.87	8.11	0.132
18.86	9.75	8.24	0.132
18.87	9.67	8.31	0.132
18.83	9.54	8.41	0.132
18.82	9.41	8.48	0.132
18.74	9.23	8.50	0.132
18.60	8.28	8.26	0.133
18.44	2.84	7.84	0.134

Temp. (deg. C)	D.O. (mg/L)	pH	Spec. Cond. (mS/cm)
19.38	9.91	8.23	0.133
19.43	9.86	8.54	0.133
19.36	9.67	8.63	0.133
19.16	9.56	8.67	0.133
18.88	9.03	8.46	0.133
18.80	8.92	8.38	0.133
18.47	8.73	8.30	0.133
18.06	5.77	7.92	0.136
17.73	3.54	7.64	0.139

Test Station #T3	
<i>Start Time:</i>	11:05 AM
<i>GPS Location:</i>	41.6581,-70.46259
<i>Secchi Depth (ft.):</i>	2.67
<i>Weight Bearing (ft.):</i>	6.67
<i>Water Color:</i>	Light Brown

Depth (meters, feet)
(surface) 0
(0.30 m) 1
(0.61 m) 2
(0.91 m) 3
(1.22 m) 4
(1.52 m) 5
(1.83 m) 6

Temp. (deg. C)	D.O. (mg/L)	pH	Spec. Cond. (mS/cm)
19.57	10.31	8.48	0.133
19.58	10.26	8.62	0.133
19.56	10.23	8.73	0.133
19.57	10.05	8.77	0.133
19.54	9.99	8.81	0.133
19.26	9.60	8.71	0.133
19.15	9.45	8.63	0.133