

# Cyanobacteria Monitoring on Lake Champlain Summer 2014

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*Final Report for the Lake Champlain Basin Program*

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## **Executive Summary**

Cyanobacteria monitoring on Lake Champlain in 2014 continued to integrate qualitative observations, photographic documentation, quantitative analysis of algae populations, and microcystin concentrations into guidance for Lake Champlain users. Additional monitoring on four Vermont lakes (Carmi, Elmore, Iroquois and Memphremagog) was made possible by a CDC Climate Change grant awarded to the Vermont Department of Health.

### **Objectives**

- monitor cyanobacteria at locations on Lake Champlain through the established partnership between state and local officials, the Lake Champlain Committee and citizen volunteers;
- provide consistent quantitative data at selected locations around Lake Champlain;
- test for the presence of microcystin and anatoxin when algal density and composition triggers are reached;
- facilitate communication about lake conditions through weekly updates to stakeholders via email and to the general public through the Vermont Department of Health webpage;
- continue to provide outreach and assistance to beach managers, lakeshore property owners and the general public so they can learn to recognize and respond appropriately to the presence of cyanobacteria blooms

More than 1400 site-specific reports were submitted during 2014 from 115 locations on Lake Champlain and the four inland lakes. Eighty-seven Champlain locations were monitored by citizen volunteers trained by the Lake Champlain Committee. Blooms, defined as category 3 of the visual protocol and alert level 2 of the tiered alert protocol, were reported 38 times in 2014 from Lake Champlain and Lake Carmi during the monitoring period. The highest concentration of microcystin detected was 2.29 µg/L, at the Shipyard in Highgate Springs VT on August 24. No anatoxin was detected on Lake Champlain in 2014, but anatoxin was detected once on Lake Elmore (0.9 µg/L on July 29).

The data continue to support the observation that potentially toxic cyanobacteria, though present throughout Champlain, are typically at levels considered safe for recreation. This was also the case for the four inland lakes monitored in 2014. More than 90% of the reports from Lake Champlain and the monitored inland lakes returned an assessment of generally safe. No reports of illness in people or animals were received during 2014.

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## **Introduction**

Lake Champlain is one of the largest lakes in the United States and an important water resource for the states of Vermont and New York, and the province of Quebec. It is primarily a recreational lake, but also serves as an important drinking water source for all three jurisdictions. Cyanobacteria blooms have been documented in the lake since the 1970s, with some areas experiencing extensive annual blooms. In 1999, several dog deaths were attributed to cyanobacteria toxins, raising health and safety concerns regarding drinking water supplies and recreational activities such as swimming, boating and fishing.

Between 2002 and 2012, the Lake Champlain Basin Program (LCBP) funded an annual cyanobacteria monitoring program which utilized cell density and toxin data to evaluate recreational conditions around the lake. Results were communicated to stakeholders around the region through weekly updates. The University of Vermont (UVM) developed and implemented the program, in cooperation with the Lake Champlain Committee (LCC) and the Vermont Departments of Health (VDH) and Environmental Conservation (VT DEC). The addition of a qualitative protocol in 2012 complemented the historical quantitative approach, expanded the area of coverage, and engaged citizen volunteers in the monitoring process. Beginning in 2012, oversight of the program became the responsibility of the state of Vermont.

Cyanobacteria monitoring on Lake Champlain in 2014 continued to integrate qualitative observations, photographic documentation and quantitative analysis of algae populations into guidance for lake users. Analysis of water for the presence of microcystin and anatoxin, when warranted, provided additional data to inform public health decisions in response to the presence of cyanobacteria.

## **Objectives**

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- test for the presence of microcystin and anatoxin when algal density and composition triggers are reached;
- facilitate communication about lake conditions through weekly updates to stakeholders via email and to the general public through the Vermont Department of Health webpage;
- provide outreach and assistance to beach managers, lakeshore property owners and the general public so they can learn to recognize and respond appropriately to the presence of cyanobacteria blooms

## **Methods**

The 2014 Champlain cyanobacteria monitoring program was coordinated by the VT DEC (Watershed Management Division), and implemented in conjunction with the VDH and LCC. Quantitative samples were collected following the tiered alert protocol at selected open water stations historically monitored by the program. Additional water samples for quantitative assessment were collected at selected shoreline locations. Qualitative data were gathered following the protocol developed in 2012 by the LCC. Technical staff at the VDH continued to develop a web-based data entry process intended to facilitate management of the large amounts of data generated each week.

## Sampling Locations

Reports were received from a total of 115 locations during the summer of 2014 (Figure 1). Table 1 provides a summary of stations by region, evaluation protocol, and proximity to shore. Full documentation of the sampling locations is located in Appendix A.

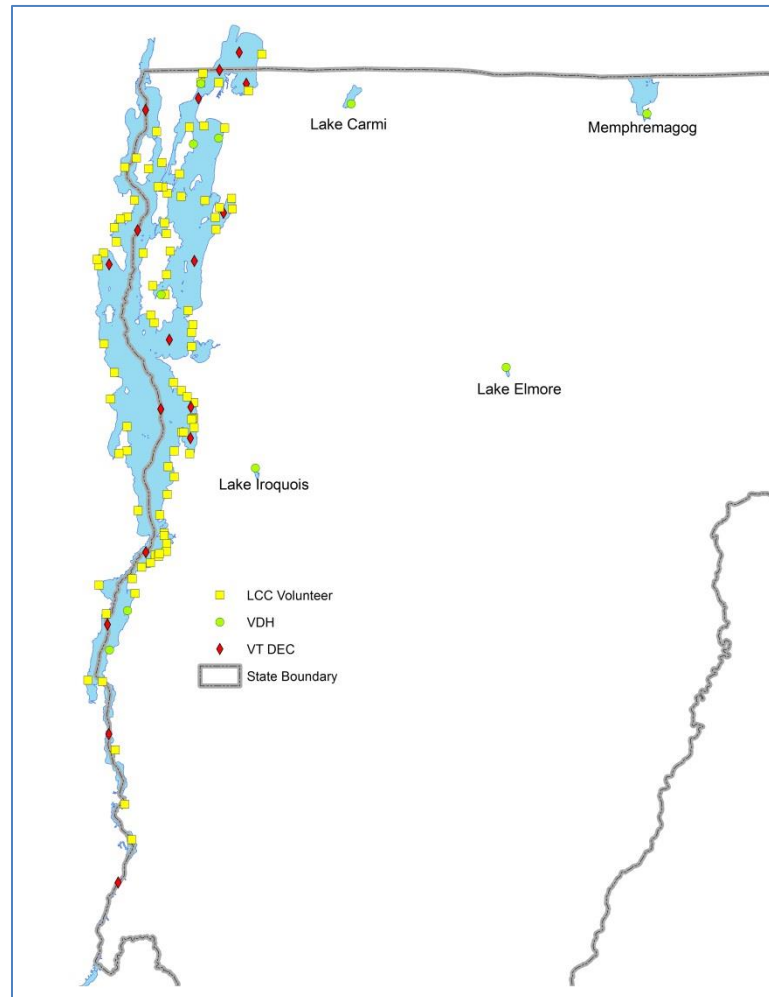


Figure 1. Cyanobacteria monitoring stations on Lake Champlain in 2014

Table 1. Stations monitored on Lake Champlain and selected Vermont lakes during 2014. Note that the number of regions increased in 2014 to better align with popular geographic usage.

Lake	Region	Assessment Type	Open Water	Shoreline
Champlain	Inland Sea	Tiered Alert	1	
		Tiered Alert/Visual		4
		Visual		14
	Main Lake - Central	Tiered Alert	4	
		Tiered Alert/Visual		2
		Visual		25
	Main Lake - North	Tiered Alert	2	
		Tiered Alert/Visual		
		Visual		12
	Main Lake - South	Tiered Alert	2	
		Tiered Alert/Visual		2
		Visual		19
	Malletts Bay	Tiered Alert	1	
		Tiered Alert/Visual		
		Visual		3
	Missisquoi Bay	Tiered Alert	3	
		Tiered Alert/Visual		2
		Visual		4
	South Lake	Tiered Alert	2	
		Tiered Alert/Visual		
		Visual		3
	St. Albans Bay	Tiered Alert	2	
		Tiered Alert/Visual		
		Visual		4
Carmi		Tiered Alert/Visual		1
Elmore		Tiered Alert/Visual		1
Iroquois		Tiered Alert/Visual		1
Memphremagog		Tiered Alert/Visual		1

## Monitoring Protocols

### The Tiered Alert Protocol

Quantitative data on taxonomic distribution, cell density and the presence of toxins were collected following the Tiered Alert protocol (Table 2). Monitoring began the week of June 2<sup>nd</sup> and continued through the end of September. The DEC utilized this protocol at selected open water stations around Lake Champlain (Figure 1). Samples were collected at biweekly intervals, following the cell density triggers outlined in the protocol or the presence of visible extensive accumulations of cyanobacteria, in conjunction with the monitoring conducted for the Lake Champlain Long-term Water Quality and Biological Monitoring Program. Whole water samples collected weekly at selected shoreline locations by experienced monitors were also evaluated for the presence of cyanobacteria using the tiered alert cell count protocol.

Table 2. Outline of the Tiered Alert sampling protocol. \*The presence of a visible scum automatically qualifies as Alert Level 2, regardless of previous conditions.

Framework Level	Frequency	Activity	Response
Qualitative*	2/month	3m vertical plankton tow (63µm mesh), screened within 72 hrs.	If potentially toxic taxa observed, proceed to <i>Quantitative Level</i> for next sampling visit
Quantitative*	2/month	3m vertical plankton tow (63µm mesh), enumeration within 72 hrs.	If potentially toxic taxa densities >2000 cells/mL, proceed to <i>Vigilance Level</i> for next sampling visit
Vigilance*	2/month	3m vertical plankton tow (63µm mesh), Full enumeration within 48 hrs.	If potentially toxic taxa densities >4000 cells/mL, proceed to <i>Alert Level 1</i> for next sampling visit. Return to Quantitative Level if densities <2000 cells/mL.
Alert Level 1*	2/month	Collect whole water samples for phytoplankton and toxin analysis. Full enumeration and microcystin analysis with 48 hrs.	If microcystin >6µg/L (VT recreational standard) proceed to <i>Alert Level 2</i> . Return to Vigilance Level if densities <4000 cells/mL.
Alert Level 2	2/month	As for Alert Level 1	If microcystin >6µg/L, the VT recreational standard, remain at <i>Alert Level 2</i> . Return to Alert Level 1 if microcystin concentrations <6µg/L.  VT, NY and QE public health officials follow their respective response plans.

### Field Methods

Plankton and toxin samples were collected as whole water surface grabs or an integrated 63 µm mesh plankton net concentrate. When scums and blooms were observed, a single whole water sample was collected by placing a bucket carefully at the surface and tipping to fill. The sample was mixed thoroughly and decanted into sample bottles for subsequent enumeration or toxin analysis. Net concentrates were obtained by lowering the plankton net opening to 3m and drawing it steadily back to the surface. The total volume of the concentrate was noted before mixing and dividing into aliquots for analysis. Net plankton samples for toxin analysis were filtered by the DEC in the field. All samples were kept on ice in coolers until they reached the lab.

### Plankton Enumeration

Plankton samples were analyzed using an inverted compound microscope at 200x in a Sedgewick Rafter cell. One mL aliquots were allowed to settle for 10 – 15 minutes before analysis. During qualitative analysis, SR cells were scanned rapidly for the presence of potentially toxic cyanobacteria, generating presence/absence data only. For quantitative analysis, estimates of cell density were obtained for all observed cyanobacteria and selected other taxa using the size categories noted in Table 3. Observed individuals or colonies were assigned to a unit category, or several categories, as needed. The number of units in each category is then multiplied by the cell factor to obtain an estimate of cell density/mL in the sample. During the analysis, all cyanobacteria were identified to the lowest possible taxonomic level while most other algae were identified simply at the division level, e.g. green algae or diatoms.



Identical counting protocols were used for whole water and plankton concentrates. Plankton samples were counted by staff at the VT DEC and uploaded to the VDH data interface, typically by midday on Thursdays. Bloom and alert level samples were posted as soon as possible after counts were completed.

Table 3. Size categories and cell factors used to estimate field densities of colonial algae.

Taxon	Unit Category	Estimated cells/unit	Cell factor
<i>Anabaena</i> <i>Aulocoseira</i> <i>Fragilaria</i>	Fragment	< 20	10
	Small	20 – 100	60
	Medium	100 – 1000	500
	Large	>1000	1000
<i>Microcystis</i> <i>Coelosphaerium</i> <i>Woronichinia</i>	Small	<100	50
	Medium	100 – 1000	500
	Large	>1000	1000
<i>Gloeotrichia</i>	Fragment	Single trichome	20
	Small	Quarter of a colony	2500
	Medium	Half of colony	5000
	Large	Entire colony	10,000
<i>Aphanizomenon</i>	Fragment	Single trichome	Measured
	Small	Small flake	200
	Medium	Medium flake	500
	Large	Large flake	1000
<i>Limnithrix</i> <i>Lyngbya/Scytonema</i>	fragment	Single trichome	Measured

## The Visual Monitoring Protocol

### ***Volunteer Recruitment and Training***

Volunteers were asked to commit to monitoring at one location for the duration of the monitoring period (mid-June to early September). While the LCC did recruit to gain as wide a geographic distribution as possible, no volunteer was turned away. In a few areas of the lake, this did lead to a cluster of observation points. All volunteers attended a mandatory training session to learn to recognize cyanobacteria, become familiar with the assessment protocol, and learn how to submit their weekly reports. LCC staff met with or interacted with each volunteer in the weeks following the training to ensure consistency among volunteers and their assessment skills. Not all volunteers were able to use the internet-based reporting system and instead submitted their reports by telephone or email.

### ***Weekly Observation Process***

The LCC trained 268 volunteer monitors in 20 training sessions during 2014. Over the course of the summer, monitors reported from 87 different locations, up from 54 in 2013 (Figure 1 and Appendix A). Protocols for the observation process, supporting documentation and the submittal process are located in Appendix B. Volunteers were asked to provide a single observation each week, preferably between 10am and 3pm, Sunday through Wednesday. Supplemental reports could also be provided. Volunteers evaluated algal conditions at their location using the prompts, photographs, and descriptions provided by the LCC, and assigned it one of the three categories:

- Category 1 – few or no cyanobacteria observed, recreational enjoyment not impaired by cyanobacteria
- Category 2 – cyanobacteria present at less than bloom levels
- Category 3 – cyanobacteria bloom in progress

The description ‘bloom’ is not a well-defined scientific defined term. For the purposes of the visual monitoring protocol, blooms refer to very dense algal accumulations resulting in highly colored water and/or visible surface scums.

Each volunteer was asked to provide 3 photographs whenever category 2 or category 3 conditions were observed. All routine reports were submitted to the LCC by Wednesday each week. LCC staff reviewed all reports and photos, conferring with volunteers and the VT DEC as needed to verify the presence of cyanobacteria and appropriate status. The LCC collated reports and uploaded the information to the VDH data interface as quickly as possible. Staff also followed up with volunteers when no reports were received. Category 2 and 3 reports were given priority, shared with partners at the VDH and DEC immediately, and posted immediately after any necessary verification.

In addition to the photos, four sites visited by volunteers were also assessed quantitatively (North Beach - Burlington VT, North Hero State Park - North Hero VT, Red Rocks Park – South Burlington VT, and the Shipyard - Highgate VT). Each week, these volunteers made a visual assessment and collected water samples from the shore. These unfiltered samples were analyzed for microcystin, anatoxin and cyanobacteria density.

## **Toxin Analysis**

Toxin analyses were conducted by the VDH laboratory in Burlington VT. Filtered plankton concentrates were placed in 50% methanol. Filters were frozen and thawed three times to lyse cells, centrifuged, diluted if necessary, and then prepared for ELISA analysis following the manufacturer’s instructions. Whole water samples were analyzed as received, without filtration, unless algal biomass was high enough to interfere with analytical procedures. In that event, aliquots were filtered using glass fiber filters and both filtrate and filter were analyzed for the presence of microcystin by ELISA.

Filtered plankton samples for anatoxin analysis were extracted with methanol and acetonitrile and centrifuged. The supernatant was transferred to a clean vial, evaporated to dryness and reconstituted with MilliQ-grade water. The extracts were concentrated using solid phase extraction cartridges and analyzed by liquid chromatography-tandem mass spectrometry (LC/MS/MS). Whole water samples were concentrated using solid phase extraction cartridges before analysis unless large amounts of algae were present. In that event, aliquots were filtered using glass fiber filters, and both filtrate and filter were analyzed by LC/MS/MS.

## **Communication and Outreach**

Members of the partner institutions LCC, VT DEC and VT VDH comprised an internal communication group which shared all bloom reports upon receipt and provided updates on response activities as needed. The group also shared literature and other pertinent information. The LCBP, NY DEC, and the

Quebec Ministère de Développement durable, Environnement, et Lutte Contre les Changements Climatiques (MDDELCC) were also kept apprised of algal conditions. The MDDELCC shared their observations and analytical results from northern Missisquoi Bay over the summer.

Weekly email updates summarizing reports, algae counts, species composition and toxin data were provided to a group of stakeholders responsible for public health. These were primarily state and town health officials, state and town waterfront managers, Champlain water suppliers, and researchers. Updates were released typically on Thursday afternoons but stakeholders also received email notification of extensive blooms as they occurred.

### **Notification of the Public**

The Vermont Department of Health reported current cyanobacteria status on Lake Champlain on-line at [http://healthvermont.gov/enviro/bg\\_algae/weekly\\_status.aspx](http://healthvermont.gov/enviro/bg_algae/weekly_status.aspx). Status was presented as text and on an interactive web map that allowed viewers to find information by location around the lake. Results of the assessments translated to one of three map status categories:

<b>VDH Map Status</b>	<b>Tiered Alert Protocol</b>	<b>Visual</b>
Generally Safe (green)	Qualitative, Quantitative, Vigilance	Category 1
Low Alert (yellow)	Alert Level 1	Category 2
High Alert (red)	Alert Level 2	Category 3

Map status was based on the primary report type for each station, visual or tiered alert. At the VDH climate change sites and the four quantitative sites monitored by LCC volunteers, water samples for toxin and phytoplankton analysis were collected concurrently with the visual assessment. At these locations, the visual assessment was used to generate the map status unless subsequent toxin analysis results indicated that this should change.

### **Response to Monitoring Reports**

Three jurisdictions were covered by the monitoring program efforts (New York, Vermont and Quebec). While the monitoring program provided a lake-wide system of assessing and reporting algal conditions, and shared that information via email and the VDH webpage, response to specific events was coordinated and implemented by the appropriate jurisdiction following their respective response protocols.

### **Outreach**

Partners maintain individual websites highlighting monitoring activities, the interactive map and annual data. Partners also hold trainings, make presentations upon request, and respond to inquiries from the general public, lake users and the media.

## Results

### Overall effort

More than 1400 site-specific reports were made by project partners and volunteers during 2014 (Table 4 and Appendix C). The majority of these were from the main lake of Lake Champlain but regular reports were also received from four inland lakes through the VDH climate grant. Reports based on the visual assessment protocol represented 79% of the total. Reports from stations using both the tiered alert and visual assessment protocols represented 14%. The remaining reports were obtained using the tiered alert protocol.

Table 4. Summary of the 2014 cyanobacteria monitoring station reports distributed through the email update and on-line status map. () indicates supplemental reports from locations other than regularly monitored sites or between regular reporting times.

Lake	Location	Monitor	Monitoring Method		
			Tiered Alert	Visual	Visual/Tiered Alert
Champlain	Inland Sea	LCC		160 (23)	11 (1)
		VDH			45
		VT DEC	6		
	Main Lake Central	LCC		267 (65)	31
		VDH			
		VT DEC	16		
	Main Lake North	LCC		140 (17)	
		VDH			
		VT DEC	11		
	Main Lake South	LCC			
		VDH		185 (58)	30 (2)
		VT DEC	10	(1)	
	Malletts Bay	LCC		27 (17)	
		VDH			
		VT DEC	7		
	Missisquoi Bay	LCC		55 (3)	16
		VDH			15
		VT DEC	20 (1)	(6)	
	South Lake	LCC		32 (4)	
		VDH			
		VT DEC	10		
	St. Albans Bay	LCC		50 (11)	
		VDH			
		VT DEC	9		
Carmi	Carmi State Park beach and Lake road	VDH		(2)	15(5)
Elmore	Elmore State Park beach	VDH			11
Iroquois	Hinesburg Town beach	VDH			11
Memphre-magog	Prouty Beach, Newport VT	VDH			11
	northern lake	other		(1)	
<b>Total Reports</b>			<b>89 (1)</b>	<b>916 (208)</b>	<b>196 (8)</b>

The number of samples analyzed in 2014 is summarized in Table 5. Two hundred ninety-three water samples were analyzed for phytoplankton density and 432 for toxins. More than half of the toxin analyses were conducted as part of the routine climate change monitoring grant received by the VDH and were not triggered by density of potential toxin producers. Eight supplemental samples for phytoplankton analysis and 6 for toxin analysis were by provided by project partners after observing blooms.

Table 5. Number of water and phytoplankton samples collected and analyzed in 2014

	Phytoplankton		Microcystin		Anatoxin	
	Net	Whole water	Plankton filters	Whole water	Plankton filter	whole water
VDH Climate change sites	-	140	-	140	-	140
LCC Quality Control sites	-	56	-	57	-	57
DEC Tiered Alert Sites	76	13	2	11	2	11
Supplemental Samples	-	8	-	6	-	6
<b>Total</b>	<b>293</b>		<b>216</b>		<b>216</b>	

## Assessment Results

A summary of the assessment results from regularly monitored stations in 2014 is presented in Table 6. The highest monitoring category reached at each is noted in Table 7. Supplemental reports (n = 97) from locations not monitored regularly or outside of the regular monitoring period for LCC volunteers are summarized in Table 8. There were no reports of cyanobacteria mats in 2014. The full list of records is located in Appendix C. No reports of human or animal illness due to cyanobacteria were received in 2014.

More than 90% of the reports from regularly monitored stations indicated that few or no cyanobacteria were present (category 1 of the visual protocol and qualitative/quantitative/vigilance levels of the tiered alert protocol). Blooms, identified as category 3 of the visual protocol or alert level 2 of the tiered alert protocol, were reported 21 times at regularly monitored stations. Seventeen supplemental reports of blooms were also received, for a total of 35 reports during the summer of 2014. The highest density of potentially toxic cyanobacteria was observed at the Shipyard in Highgate Springs VT on August 24 (2,205,200 cells/mL).

Table 6. Summary of assessment reports received from regularly monitored stations in 2014.

Lake	Region	Tiered Alert Protocol			Visual Protocol		
		Vigilance or Lower	Alert 1	Alert 2	Category 1	Category 2	Category 3
Champlain	Inland Sea	6			213	3	
	Main Lake Central	16			298		
	Main Lake North	11			133	7	
	Main Lake South	10			211	3	1
	Malletts Bay	7			27		
	Missisquoi Bay	16	2	2	73	5	7
	South Lake	10			32		
	St. Albans Bay	4	3	2	37	4	9
Carmi					14	1	
Elmore					11		
Iroquois					11		
Memphre- magog					11		
	<b>Total reports</b>	<b>80</b>	<b>5</b>	<b>4</b>	<b>1071</b>	<b>23</b>	<b>17</b>

Table 7. Highest status reached at each monitored station in 2014. \*indicates locations where LCC volunteers made visual assessments and collected quantitative samples to evaluate effectiveness of the visual system. \*\* indicates VDH climate change grant stations, which also have both visual assessment and quantitative samples. Shaded boxes indicate analyses that are not applicable to the sample.

Waterbody	Region	Station	Method	Status	Date Achieved	Highest Microcystin Achieved (µg/L as microcystin-LR equivalents)	Highest Anatoxin Achieved (µg/L)	Maximum Density of Potentially Toxic Cyanobacteria (cells/mL)	Cyanobacteria Present when Max Density Achieved
Champlain	Inland Sea	Cedar Ledge	Visual	1d	8/19/2014				
		City Bay - Rt 2	Visual	1d	8/19/2014				
		Grand Isle State Park	Visual	1d	7/8/2014				
		Keeler Bay Boat Launch	Visual	1	all				
		Keeler Bay East	Visual	1	all				
		**Keeler Bay, South Hero	Visual/Tiered Alert	1	all	0.28 (7/28/2014)	<0.5	0	no potentially toxic cyanobacteria observed
		Knight Island	Visual	1	all				
		Knight Point State Park	Visual	1	all				
		LTM 34	Tiered Alert	Quantitative	6/27/14	not tested	not tested	208 (8/19/2014)	<i>Anabaena, Aphanizomenon</i>
		Maquam Bay	Visual	1d	8/19/2014				
		Maquam Beach	Visual	1d	7/14/2014				
		**Maquam Shore Road, Swanton	Visual/Tiered Alert	1	all	<0.16	<0.5	1170 (8/18/2014)	<i>Anabaena, Aphanothece</i>
		Marycrest Beach	Visual	1d	6/16/2014				
		*North Hero State Park	Visual/Tiered Alert	1d	8/18/2014	<0.16	<0.5	7140 (8/11/2014)	<i>Anabaena, Aphanothece</i>
		Pelots Bay	Visual	2	8/25/2014				
		Sand Bar State Park	Visual	1	all				
		**Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	1d	9/29/2014	<0.16	<0.5	35300 (7/28/2014)	<i>Oscillatoria</i>
		The Gut	Visual	1	all				
		Woods Island	Visual	1	all				
	Main Lake Central	Ausable Beach State Park	Visual	1	all				
		Buena Vista Park, Willsboro NY	Visual	1	all				
		Charlotte Town Beach	Visual	1	all				

Waterbody	Region	Station	Method	Status	Date Achieved	Highest Microcystin Achieved (µg/L as microcystin-LR equivalents)	Highest Anatoxin Achieved (µg/L)	Maximum Density of Potentially Toxic Cyanobacteria (cells/mL)	Cyanobacteria Present when Max Density Achieved
Champlain	Main Lake Central	Community Sailing Center	Visual	1	all				
		Corlear Bay, Port Douglas Boat Launch	Visual	1	all				
		LaPlatte River mouth, Shelburne Bay	Visual	1	all				
		Leddy Park	Visual	1	all				
		LTM 16	Tiered Alert	Quantitative	7/9/14	not tested	not tested	136 (8/11/2014)	<i>Anabaena, Aphanothece, Woronichinia/ Coelosphaerium</i>
		LTM 19	Tiered Alert	Quantitative	7/30/14	not tested	not tested	104 (8/11/2014)	<i>Anabaena, Aphanothece</i>
		LTM 21	Tiered Alert	Quantitative	7/9/14	not tested	not tested	229 (8/11/2014)	<i>Anabaena, Aphanizomenon, Aphanothece</i>
		LTM 33	Tiered Alert	Quantitative	7/3/14	not tested	not tested	69 (8/15/2014)	<i>Anabaena, Aphanizomenon, Aphanothece, Woronichinia/ Coelosphaerium</i>
		*North Beach	Visual/Tiered Alert	1	all	0.19 (7/8/2014)	<0.5	3970 (8/20/2014)	<i>Anabaena</i>
		Oakledge Park Blanchard Beach	Visual	1	all				
		Oakledge Park rocky shoreline	Visual	1d	8/11/2014				
		Oakledge Park South Cove	Visual	1	all				
		Plattsburgh Boat Launch	Visual	1	all				
		Plattsburgh City Beach	Visual	1	all				
		Port Kent Beach	Visual	1	all				
		Quaker Smith Point	Visual	1d	6/28/2014				
		*Red Rocks Beach	Visual/Tiered Alert	1	all	<0.16	<0.5	4920 (8/20/2014)	<i>Anabaena</i>
		Shelburne Beach	Visual	1	all				
		Shelburne Farms	Visual	1	all				
		Shelburne Point	Visual	1	all				
		Shelburne Shipyard	Visual	1	all				
		Starr Farm Beach	Visual	1	all				



Waterbody	Region	Station	Method	Status	Date Achieved	Highest Microcystin Achieved (µg/L as microcystin-LR equivalents)	Highest Anatoxin Achieved (µg/L)	Maximum Density of Potentially Toxic Cyanobacteria (cells/mL)	Cyanobacteria Present when Max Density Achieved
Champlain	Main Lake Central	Sunset/Crescent Beach	Visual	1	all				
		Teddy Bear Point Cove, Willsboro NY	Visual	1	all				
		White's Beach in Crescent Bay	Visual	1	all				
		Wilcox Dock, Plattsburgh	Visual	1	all				
		Willsboro Boat Launch	Visual	1	all				
	Main Lake North	Alburgh Dunes State Park	Visual	1	all				
		Eagle Acres Rd, Chazy NY	Visual	1	all				
		Holcomb Boat Launch	Visual	1d	9/2/2014				
		Horicans Fish and Wildlife Access	Visual	2	8/19/2014				
		LTM 36	Tiered Alert	Quantitative	7/3/14	not tested	not tested	117 (8/7/2014)	<i>Anabaena</i>
		LTM 46	Tiered Alert	Quantitative	6/23/14	not tested	not tested	90 (8/7/2014)	<i>Anabaena, Aphanothece</i>
		Oliver Bay	Visual	1	all				
		Pelots Point West	Visual	2	9/1/2014				
		Pt. Au Roche Boat Launch	Visual	1	all				
		Pt. Au Roche S.P. Deep Bay	Visual	2	8/11/2014				
		Pt. Au Roche State Park Beach	Visual	1	all				
		Stoney Point, Isle la Motte	Visual	1	all				
		Treadswell Bay, Beekmantown NY	Visual	1	all				
		Vantines Boat Launch	Visual	1	all				
	Main Lake South	**Arnold Bay, Panton	Visual/Tiered Alert	1	all	<0.16	<0.5	3550 (9/2/2014)	<i>Anabaena</i>
		Beggs Park Beach, Essex NY	Visual	1	all				
		Bulwagga Bay/Port Henry	Visual	3	8/12/2014				
		Button Bay Boat Launch	Visual	1	all				

Waterbody	Region	Station	Method	Status	Date Achieved	Highest Microcystin Achieved (µg/L as microcystin-LR equivalents)	Highest Anatoxin Achieved (µg/L)	Maximum Density of Potentially Toxic Cyanobacteria (cells/mL)	Cyanobacteria Present when Max Density Achieved
Champlain	Main Lake South	Button Bay South	Visual		9/1/2014				
		Camp Dudley, Westport NY	Visual	1d	8/11/2014				
		Chimney Point	Visual	1	all				
		Ferrisburgh Stone Beach	Visual	1d	7/1/2014				
		Ferrisburgh Town Beach	Visual	1d	8/4/2014				
		Hawkins Bay	Visual	1d	7/1/2014				
		Kingsland Bay State Park	Visual	1	all				
		Lane's Lane Landing	Visual	1	all				
		LTM 07	Tiered Alert	Quantitative	6/26/14	not tested	not tested	326 (6/26/2014)	<i>Anabaena</i>
		LTM 09	Tiered Alert	Quantitative	6/26/14	not tested	not tested	158 (8/25/2014)	<i>Anabaena, Aphanizomenon, Microcystis, Woronichinia/ Coelosphaerium</i>
		McKenna Dock, Essex NY	Visual	1	all				
		McNeil Cove	Visual	1	all				
		North Harbor	Visual	2	7/14/2014				
		Porter Bay	Visual	1	all				
		Summer Point	Visual	2	8/5/2014				
		Town Farm Bay	Visual	1	all				
		**Tri-Town Road, West Addison	Visual/Tiered Alert	1d	8/4/2014	<0.16	<0.5	12800 (8/18/2014)	unidentified Oscillatoriaceae
		Westport Boat Launch	Visual	1	all				
	Malletts Bay	Camp Kiniya	Visual	1	all				
		Clay Point	Visual	1d	8/24/2014				
		LTM 25	Tiered Alert	Quantitative	6/9/14	not tested	not tested	173 (8/15/2014)	<i>Anabaena, Aphanizomenon, Aphanothece, Woronichinia/ Coelosphaerium</i>
		Marble Island Marina	Visual	1	all				
	Missisquoi Bay	Alburgh Springs	Visual	2	9/2/2014				
		**Alburgh VT - shoreline	Visual/Tiered Alert	1d	9/2/2014	0.16 (6/23/2014)	<0.5	7090 (9/2/2014)	<i>Anabaena, Microcystis</i>
		Chapman Bay	Visual	1	all				

Waterbody	Region	Station	Method	Status	Date Achieved	Highest Microcystin Achieved (µg/L as microcystin-LR equivalents)	Highest Anatoxin Achieved (µg/L)	Maximum Density of Potentially Toxic Cyanobacteria (cells/mL)	Cyanobacteria Present when Max Density Achieved
Champlain	Missisquoi Bay	Donaldson Point	Visual	2	8/25/2014				
		Highgate Springs	Tiered Alert	Alert 1	8/5/14	0.29 (8/5/2014)	< 0.5	79600 (8/5/2014)	Anabaena, Aphanizomenon, Aphanothece, Microcystis
		LTM 50	Tiered Alert	Alert 2	8/20/14	0.25 (8/19/2014)	<0.5	1072400 (8/20/2014)	Anabaena, Microcystis
		LTM 51	Tiered Alert	Alert 2	8/20/14	0.33 (8/20/2014)	<0.5	80600 (8/20/2014)	Anabaena, Microcystis
		Phillipsburg, QC	Visual	3	8/3/2014				
		*Shipyard, Highgate Springs	Visual/Tiered Alert	3	8/10/2014	2.29 (8/24/2014)	<0.5	2205200 (8/24/2014)	Anabaena, Aphanizomenon, Microcystis
	South Lake	Allen Bay	Visual	1	all				
		Lapham Bay	Visual	1	all				
		LTM 02	Tiered Alert	Quantitative	6/20/14	not tested	not tested	13 (7/8/2014)	Anabaena, Aphanizomenon
		LTM 04	Tiered Alert	Quantitative	6/20/14	not tested	not tested	294 (7/31/2014)	Anabaena, Aphanizomenon
		Marlena Bay	Visual	1	all				
	St. Albans Bay	Ferrand Rd. St. Albans	Visual	3	8/11/2014				
		Georgia Shore	Visual	3	8/19/2014				
		Kill Kare State Park	Visual	1	all				
		LTM 40	Tiered Alert	Alert 2	8/19/14	0.2 (8/19/2014)	<0.5	853600 (8/19/2014)	Anabaena
		St. Albans Bay Park	Visual	3	8/4/2014				
		St. Albans Boat Launch	Tiered Alert	Alert 1	8/6/14	<0.16	<0.5	21700 (9/8/2014)	Anabaena, Aphanizomenon, Aphanothece
Carmi	**Lake Carmi State Park	Visual/Tiered Alert	2	8/19/2014	0.38 (8/26/2014)	<0.5	304200 (9/15/2015)	Anabaena, Aphanizomenon, Aphanothece, Microcystis,	
Elmore	**Lake Elmore State Park	Visual/Tiered Alert	1	all	0.18 (7/8/2014)	0.9 (7/29/2014)	19700 (8/19/2014)	Aphanothece, Radiocystis	
Iroquois	**Hinesburg Town Beach	Visual/Tiered Alert	1	all	< 0.16	<0.5	67900 (8/19/2014)	Anabaena, Aphanizomenon	
Memphremagog	**Prouty Beach	Visual/Tiered Alert	1	all	<0.16	<0.5	44100 (7/22/2014)	Aphanizomenon, Aphanothece	

Table 8. Summary of supplemental reports received in 2014. These represented areas that reported fewer than 6 times, were provided outside of the normal Sunday – Wednesday reporting period for the LCC monitors, or were provided outside of the monitoring window of June 15 to September 13. Shaded boxes indicate analyses that are not applicable to the sample.

Waterbody	Region	Report Date	Station	Status	Method	Potentially Toxic Cyano (cells/mL)	Cyanobacteria Taxa	Microcystin (µg/L as microcystin-LR equivalents)	Anatoxin (µg/L)
Champlain	Inland Sea	8/8/2014	Burton Island	2	Visual				
		9/22/2014	Cedar Ledge	1	Visual				
		6/29/2014	Keeler Bay Boat Launch	1	Visual				
		7/9/2014		1	Visual				
		7/20/2014		1	Visual				
		8/6/2014		1	Visual				
		8/20/2014		1	Visual				
		8/24/2014		1	Visual				
		9/10/2014		1	Visual				
		9/14/2014		1	Visual				
		9/24/2014		1	Visual				
		7/15/2014		1	Visual				
		8/13/2014		1	Visual				
		9/16/2014		1	Visual				
		9/15/2014	Keeler Bay East	1	Visual				
		9/22/2014		1	Visual				
		9/15/2014	Knight Island	1	Visual				
		8/23/2014	Knight Point State Park	1d	Visual				
		9/16/2014	Marycrest Beach	1	Visual				
		9/24/2014		1	Visual				
		7/11/2014	North Hero State Park	1	Visual				
		9/29/2014	Pelots Bay	1	Visual				
		6/15/2014	South Hero Fish and Wildlife Boat Access	1	Visual				
		7/3/2014		1	Visual				
	Main Lake Central	6/14/2014	Ausable Beach State Park	1	Visual				
		9/16/2014	Charlotte Town Beach	1	Visual				

Waterbody	Region	Report Date	Station	Status	Method	Potentially Toxic Cyano (cells/mL)	Cyanobacteria Taxa	Microcystin (µg/L as microcystin-LR equivalents)	Anatoxin (µg/L)
Champlain	Main Lake Central	7/2/2014	Corlear Bay, Port Douglas Boat Launch	1	Visual				
		7/5/2014		1	Visual				
		7/8/2014		1	Visual				
		7/12/2014		1	Visual				
		7/15/2014		1	Visual				
		7/23/2014		1	Visual				
		7/26/2014		1	Visual				
		8/16/2014		1	Visual				
		9/16/2014		1	Visual				
		9/23/2014		1	Visual				
		8/30/2014		1	Visual				
		7/8/2014	LaPlatte River mouth, Shelburne Bay	1	Visual				
		7/16/2014		1	Visual				
		7/23/2014		1	Visual				
		6/29/2014		1	Visual				
		7/4/2014		1	Visual				
		7/5/2014		1	Visual				
		7/12/2014		1	Visual				
		7/14/2014		1	Visual				
		8/2/2014		1	Visual				
		7/19/2014		1d	Visual				
		7/26/2014	Leddy Park	1	Visual				
		9/14/2014		1	Visual				
		9/21/2014		1	Visual				
		9/28/2014		1	Visual				
		9/27/2014		2	Visual				
		9/29/2014	Oakledge Park Blanchard Beach	1	Visual				
		9/29/2014	Oakledge Park rocky shoreline	1	Visual				
		9/29/2014	Oakledge Park South Cove	1	Visual				

Waterbody	Region	Report Date	Station	Status	Method	Potentially Toxic Cyano (cells/mL)	Cyanobacteria Taxa	Microcystin (µg/L as microcystin-LR equivalents)	Anatoxin (µg/L)
Champlain	Main Lake Central	6/21/2014	Peru Boat Launch	1	Visual				
		6/30/2014		1	Visual				
		7/6/2014		1	Visual				
		7/7/2014		1	Visual				
		7/11/2014		1	Visual				
		7/13/2014		1	Visual				
		7/24/2014		1	Visual				
		6/15/2014	Plattsburgh Boat Launch	1	Visual				
		6/30/2014		1	Visual				
		7/8/2014		1	Visual				
		7/22/2014		1	Visual				
		8/4/2014	Plattsburgh City Beach	1	Visual				
		9/25/2014	Point Bay Marina	2	Visual				
		9/29/2014		2	Visual				
		10/2/2014		3	Visual				
		7/8/2014	Port Kent Beach	1	Visual				
		9/23/2014		1	Visual				
		6/13/2014	Quaker Smith Point	1	Visual				
		9/30/2014	Red Rocks Beach	1	Visual/Tiered Alert	133	<i>Anabaena</i>	< 0.16	< 0.5
		9/28/2014	Shelburne Farms	1	Visual				
		8/4/2014		1d	Visual				
		9/27/2014		3	Visual				
		9/14/2014	Shelburne Point	1	Visual				
		6/14/2014		1	Visual				
		9/14/2014	Shelburne Shipyard	1	Visual				
		8/5/2014		1	Visual/Tiered Alert	0	no cyanobacteria observed	not tested	not tested
		9/19/2014	Starr Farm Beach	1	Visual				
		7/25/2014		1	Visual				
		6/20/2014	Sunset/Crescent Beach	1	Visual				

Waterbody	Region	Report Date	Station	Status	Method	Potentially Toxic Cyano (cells/mL)	Cyanobacteria Taxa	Microcystin (µg/L as microcystin-LR equivalents)	Anatoxin (µg/L)
Champlain	Main Lake Central	6/13/2014	White's Beach in Crescent Bay	1	Visual				
		9/16/2014		1	Visual				
		9/23/2014		1	Visual				
		9/26/2014		2	Visual				
	Main Lake North	9/16/2014	Holcomb Boat Launch	1	Visual				
		9/23/2014		1	Visual				
		6/13/2014		1	Visual				
		6/13/2014	Horicans Fish and Wildlife Access	1	Visual				
		9/16/2014		1	Visual				
		9/25/2014		1	Visual				
		8/4/2014	Pelots Point West	1	Visual				
		8/8/2014		1	Visual				
		8/21/2014		1	Visual				
		8/24/2014		1d	Visual				
		8/19/2014		2	Visual				
		8/15/2014	Pt. Au Roche S.P. Deep Bay	2	Visual				
		6/13/2014	Stoney Point, Isle la Motte	1	Visual				
		9/16/2014		1	Visual				
		9/23/2014		1	Visual				
		9/16/2014	Vantines Boat Launch	1	Visual				
		9/24/2014		1	Visual				
	Main Lake South	6/23/2014	Arnold Bay, Panton	2	Visual/Tiered Alert	482200	<i>Anabaena</i>	<0.16	<0.5
		8/4/2014		2	Visual/Tiered Alert	932900	<i>Anabaena, Aphanizomenon, Woronichinia/Coelosphaerium</i>	<0.16	<0.5
		9/15/2014	Bulwagga Bay/Port Henry	1	Visual				
		9/23/2014		1	Visual				
		8/6/2014	Button Bay South	1	Visual				
		8/13/2014		1	Visual				
		9/3/2014		1	Visual				
		9/10/2014		1	Visual				
		9/17/2014	Button Bay South	1	Visual				

Waterbody	Region	Report Date	Station	Status	Method	Potentially Toxic Cyano (cells/mL)	Cyanobacteria Taxa	Microcystin (µg/L as microcystin-LR equivalents)	Anatoxin (µg/L)
Champlain	Main Lake South	9/19/2014	Button Bay South	1	Visual				
		9/20/2014		1	Visual				
		9/25/2014		1	Visual				
		9/28/2014		1	Visual				
		10/1/2014		1	Visual				
		7/14/2014		1d	Visual				
		9/26/2014		1d	Visual				
		9/30/2014		1d	Visual				
		8/10/2014		2	Visual				
		8/19/2014		2	Visual				
		8/25/2014		2	Visual				
		9/17/2014		2	Visual				
		9/24/2014		2	Visual				
		9/27/2014		2	Visual				
		6/26/2014	Camp Dudley, Westport NY	2	Visual				
		7/9/2014	Camp Greylock	1	Visual				
		6/18/2014		1	Visual				
		7/2/2014		1	Visual				
		7/16/2014		1	Visual				
		7/23/2014		1	Visual				
		8/17/2014	Converse Bay	1	Visual				
		9/16/2014	Hawkins Bay	1	Visual				
		9/23/2014		1	Visual				
		9/18/2014	Kingsland Bay State Park	1	Visual				
		9/17/2014		3	Visual				
		10/2/2014	Long Pt, (Wood) Ferrisburgh	3	Visual				
		8/25/2014	LTM 07	2	Visual/Tiered Alert	1327100	<i>Anabaena, Aphanizomenon, Microcystis, Woronichinia. /Coelosphaerium</i>	0.51	<0.5
		7/17/2014	North Harbor	1	Visual				
		9/22/2014		1	Visual				
		7/9/2014	Panton Shore North	1	Visual				



Waterbody	Region	Report Date	Station	Status	Method	Potentially Toxic Cyano (cells/mL)	Cyanobacteria Taxa	Microcystin (µg/L as microcystin-LR equivalents)	Anatoxin (µg/L)
Champlain	Main Lake South	7/14/2014	Panton Shore North	1	Visual				
		7/30/2014		1	Visual				
		8/6/2014		1	Visual				
		9/10/2014		1	Visual				
		9/17/2014		1	Visual				
		6/28/2014	Port Henry Boat Launch	1	Visual				
		7/26/2014		1	Visual				
		8/16/2014		1	Visual				
		7/12/2014		1	Visual				
		7/19/2014	Westport Boat Launch	1	Visual				
		9/16/2014		1	Visual				
		6/21/2014		1	Visual				
		6/29/2014		1	Visual				
		7/12/2014		1	Visual				
		7/19/2014		1	Visual				
		8/8/2014		1	Visual				
		8/24/2014		1	Visual				
		9/22/2014		1	Visual				
		7/5/2014		1	Visual				
		6/28/2014		2	Visual				
		6/18/2014	Whallons Bay	1	Visual				
	Malletts Bay	8/30/2014	Clay Point	1	Visual				
		9/14/2014		1	Visual				
		6/13/2014	Malletts Bay Boat Launch	1	Visual				
		6/15/2014		1	Visual				
		6/16/2014		1	Visual				
		6/20/2014		1	Visual				
		7/18/2014		1	Visual				
		6/22/2014		1	Visual				
		6/16/2014	Niquette Bay State Park	1	Visual				
		6/23/2014		1	Visual				
		6/30/2014		1	Visual				

Waterbody	Region	Report Date	Station	Status	Method	Potentially Toxic Cyano (cells/mL)	Cyanobacteria Taxa	Microcystin (µg/L as microcystin-LR equivalents)	Anatoxin (µg/L)
Champlain	Malletts Bay	7/14/2014	Niquette Bay State Park	1	Visual				
		7/21/2014		1	Visual				
		6/1/2014	Rosetti Park	1	Visual				
		6/24/2014		1	Visual				
		7/1/2014		1	Visual				
		7/8/2014		1	Visual				
	Missisquoi Bay	8/21/2014	Alburgh Springs	2	Visual				
		7/8/2014	Chapman Bay	1	Visual				
		8/5/2014	Highgate Cliffs	Alert 1	Tiered Alert	65100	<i>Anabaena, Aphanizomenon, Aphanothece, Microcystis</i>	0.28	<0.5
		8/26/2014	Larry Greene Fish and Wildlife Access	1d	Visual				
		7/24/2014	North of Phillipsburg, QC	3	Visual				
		7/29/2014		3	Visual				
		7/29/2014	northeastern Missisquoi Bay	3	Visual				
		8/26/2014		3	Visual				
		8/26/2014	southeastern Missisquoi bay	2	Visual				
		7/29/2014	Venise, Quebec	3	Visual				
	South Lake	9/14/2014	Lapham Bay	1	Visual				
		9/21/2014		1	Visual				
		9/23/2014	Marlena Bay	1	Visual				
		6/25/2014	Ticonderoga Boat Launch	1	Visual				
	St. Albans Bay	9/3/2014	Ferrand Rd. St. Albans	1	Visual				
		9/1/2014	Georgia Beach	3	Visual				
		9/17/2014	Georgia Shore	1	Visual				
		8/19/2014		3	Visual				
		8/6/2014	St. Albans Bay Park	3	Visual				
		8/8/2014		3	Visual				
		8/8/2014		3	Visual				
		9/3/2014	St. Albans Bay Park	3	Visual				
		7/11/2014		1d	Visual				

Waterbody	Region	Report Date	Station	Status	Method	Potentially Toxic Cyano (cells/mL)	Cyanobacteria Taxa	Microcystin (µg/L as microcystin-LR equivalents)	Anatoxin (µg/L)
Champlain	St. Albans Bay	8/1/2014	St. Albans Boat Launch	2	Visual				
		8/11/2014		3	Visual				
Lake Carmi		9/3/2014	Lake Carmi North	1	Visual				
		8/12/2014		1	Visual/Tiered Alert	579400	<i>Anabaena, Aphanizomenon, Aphanothece, unidentified Oscillatoriaceae</i>	<0.16	< 0.5
		8/26/2014		2	Visual		0.39	< 0.5	
		9/8/2014		2	Visual				
		9/15/2014		2	Visual				
		8/19/2014	Lake Carmi State Park Area "A"	2	Visual/Tiered Alert	1066800	<i>Anabaena, Aphanizomenon, Gloeotrichia, Scytonema</i> spp, unidentified Oscillatoriaceae, <i>Woronichinia/Coelosphaerium</i>	0.38	< 0.5
		8/19/2014	Lake Carmi State Park Area "B"	2	Visual/Tiered Alert	112500	<i>Anabaena, Aphanothece, Scytonema</i> spp, unidentified Oscillatoriaceae	<0.16	< 0.5
Lake Memphremagog		9/29/2014	South End of Lake Memphremagog	2	Visual				
Other	Rock River	8/11/2014	Rock River on St. Armand Rd	3	Visual				

A total of 216 samples were analyzed for the presence of microcystin in 2014 (Table 9). Microcystin was detected in 29 samples (13% of the samples). None of these exceeded the Vermont recreational guidance level of 6µg/L. The highest concentration was 2.29µg/L and observed in Missisquoi Bay. Anatoxin was detected once, at Lake Elmore, in the 216 samples analyzed for this toxin in 2014 and was well below the Vermont recreational guidance values of 10µg/L.

Table 9. Number of cyanotoxin samples tested and maximum concentrations measured in 2014.

Waterbody	Region	Station	Microcystin			Anatoxin		
			Samples tested (N)	Above detection (N)	Maximum (µg/L as LR equivalents)	Samples tested (N)	Above detection (N)	Maximum (µg/L)
Champlain	Inland Sea	Keeler Bay, South Hero	15	1	0.28	15	0	not detected
		Maquam Shore Road, Swanton	15	0	not detected	15	0	not detected
		North Hero State Park	11	0	not detected	11	0	not detected
		Stephensen Point Fish and Wildlife Access	15	0	not detected	15	0	not detected
	Main Lake Central	North Beach	15	1	0.19	15	0	not detected
		Red Rocks Beach	16	0	not detected	16	0	not detected
	Main Lake South	Arnold Bay, Panton	17	0	not detected	17	0	not detected
		LTM 07	1	1	0.51	1	0	not detected
		Tri-Town Road, West Addison	15	0	not detected	15	0	not detected
	Missisquoi Bay	Alburgh VT - shoreline	15	1	0.16	15	0	not detected
		Highgate Cliffs	1	1	0.28	1	0	not detected
		Highgate Springs	2	2	0.29	2	0	not detected
		LTM 50	2	2	0.25	2	0	not detected
		LTM 51	3	2	0.33	3	0	not detected
		Shipyard, Highgate Springs	15	9	<b>2.29</b>	15	0	not detected
	St. Albans Bay	LTM 40	3	1	0.2	3	0	not detected
		St. Albans Boat Launch	2	0	not detected	2	0	not detected
Carmi		Lake Carmi Area "A"	1	1	0.38	1	0	not detected
		Lake Carmi Area "B"	1	0	not detected	1	0	not detected
		Lake Carmi North	2	1	0.39	2	0	not detected
		Lake Carmi State Park	15	3	0.38	15	0	not detected
Elmore		Lake Elmore State Park	11	2	0.18	11	1	<b>0.9</b>
Iroquois		Hineburg Town Beach	11	0	not detected	11	0	not detected
Memphremagog		Prouty Beach	11	0	not detected	11	0	not detected
other		Mouth of the Rock River	1	1	0.24	1	0	not detected
<b>Total samples</b>			<b>216</b>	<b>29</b>		<b>216</b>	<b>1</b>	

Twenty-two cyanobacteria taxa were observed in Lake Champlain or the four inland lakes during the 2014 monitoring period (Table 10). The majority have been identified as potential toxin producers in the scientific literature. *Scytonema crispum*, the benthic cyanobacterium first observed near Rouses Point in 2012, was present in several samples from Lake Carmi as well as single samples from Malletts Bay and Red Rocks Beach.

Table 10. Cyanobacteria taxa observed in Lake Champlain cyanobacteria monitoring samples. Year of first report refers only to the cyanobacteria monitoring program. \*Prior to 2012, cyanobacteria were noted to genus only.

Name	Toxin producer	Present in 2014	Year of first report
<i>Anabaena circinalis</i>	yes	yes	2003*
<i>Anabaena planctonica</i>	yes	yes	2003*
<i>Anabaena</i> spp	yes	yes	2003*
<i>Aphanizomenon</i> spp. (likely <i>A. gracile</i> )	yes	yes	2012
<i>Aphanizomenon flos-aquae</i>	yes	yes	2003*
<i>Aphanocapsa</i> spp.	no	yes	2004
<i>Aphanothece</i> spp.	yes	yes	2012
<i>Arthrospira</i> spp.	no	yes	2012
<i>Chroococcus</i> spp.	no	yes	2003
<i>Coelosphaerium</i> spp.	Yes	yes	2003
<i>Gloeotrichia</i> spp.	yes	yes	2003
<i>Gloeocapsa</i> spp.	yes	yes	2004
* <i>Limnothrix</i> spp.	possible	yes	2012
<i>Merismospedia</i> spp.	no	yes	2003
<i>Microcystis</i> spp.	yes	yes	2003*
<i>Microcystis wesenbergii</i>	yes	yes	2012
<i>Oscillatoria</i> spp.	yes	yes	2005
* <i>Pseudanabaena</i> spp	yes	yes	2012
* <i>Radiocystis</i> spp.	possible	yes	2012
* <i>Scytonema crispum</i> (synonym <i>Lyngbya cinnicinata</i> )	yes	yes	2012
<i>Snowella</i> spp	no	yes	2012
<i>Woronichinia</i> spp (formerly <i>Gomphosphaeria</i> spp.)	yes	yes	2012

## Reproducibility of Assessment Results

### *Environmental variability*

Phytoplankton composition and density is highly variable in natural environments such as Lake Champlain. Cyanobacteria, in particular, exhibit considerable variation in population density within very short distances and time intervals. The effectiveness of the tiered alert protocol in light of this variability was documented by Rogalus and Watzin (2008). In 2014, consistency between field and laboratory duplicates was good (Table 11). The three field duplicates returned the same assessment level for each of the paired samples. Laboratory duplicates (a second aliquot analyzed from a single sample) also had good consistency.

Table 11. Comparability of phytoplankton quality control samples.

Test	N	Status Identical
Field duplicates	3	3
Laboratory duplicates	13	11
Recount of a single aliquot	1	-

### **Volunteer training**

Volunteer trainings were conducted by LCC staff at locations around the Lake Champlain Basin. Twenty formal sessions trained 268 potential volunteers. The largest session, for Burlington Parks and Recreation staff, had 79 participants. Numerous media interviews and appearances alerted the public to the opportunity to become a volunteer monitor.

Training sessions provided information about cyanobacteria – causes, conditions that favor the development of blooms, appearance, associated health concerns, and management efforts aimed at reducing bloom frequency. Monitors were taught to distinguish cyanobacteria from other phenomena they might see in the lake such as green algae and pollen. Training sessions also introduced volunteers to the on-line LCC cyanobacteria resources and reporting form.

The volunteer monitor program has an impact beyond the recruitment of volunteers and collection of data. As awareness of the possible health effects associated with cyanobacteria spreads, the interest in learning more about these organisms increases. While not all trained volunteers go on to report, all became familiar with cyanobacteria, potential health risks associated with them, and the water quality conditions that increase the likelihood of blooms. Follow-up with workshop attendees indicated that many shared that knowledge with neighbors and took personal action to reduce blooms.

### **Outreach and Assistance**

Project partners provided outreach and assistance in many ways. Primarily, they fielded phone calls and emails from individuals requesting information about bloom locations and appearance. They provided guidance and assistance to town health officers and beach managers during bloom events. LCC staff incorporated cyanobacteria information into their outreach and education efforts. All partners maintained webpages with resources and contacts for anyone seeking information about cyanobacteria.

The VT DEC and VDH worked with water suppliers and homeowners whenever drinking water concerns arose. After news of an event at Toledo Ohio drinking water facility in early August, when microcystin concentrations exceeding 1 µg/L in finish water were detected there, project partners responded to numerous inquiries from media outlets, conservation groups and local residents regarding the safety of drinking water on Lake Champlain.

Cyanobacteria monitoring continues to be a priority topic at the regional and national level. The interest increased significantly after the drinking water concerns raised in Toledo. Project partners continued to be active at the local, regional and national level. Several partners participated in the NEIWPCC regional cyanobacteria workgroup, which is now in its second year of activity to share regional expertise and

develop consistency in response across New England and New York. The DEC field staff also participated in a summer project with EPA Region 1 to develop a field screening method for cyanobacteria based on phycocyanin, a photosynthetic pigment found in cyanobacteria but few other algae.

## Communication with the Stakeholders and the General Public

Results of the weekly assessments were communicated via email to a variety of stakeholders. The 102 recipients were largely associated with the states of Vermont and New York (n = 62). Other recipients included staff at EPA (3), provincial officials in QE (4), the Missisquoi Wildlife Refuge, city government or public works departments (11), and university researchers (2).

Information was shared with the general public via the VDH cyanobacteria webpages - [http://healthvermont.gov/enviro/bg\\_algae/bgalgae.aspx](http://healthvermont.gov/enviro/bg_algae/bgalgae.aspx). Between June and November 2014, these webpages received over 14,000 visits while the interactive map alone received more than 6000 (Table 12). Activity was greatest in July and August, corresponding to peak months of recreational activity. The monitoring data was also accessible through the VDH's Environmental Public Health tracking portal at <http://healthvermont.gov/tracking/index.aspx>.

Table 12. Viewer data for the Vermont Department of Health cyanobacteria webpages in 2014. Data do not distinguish between internal and external viewers.

	<a href="#">VDH website Page Views</a>	VDH website Unique Page Views	<a href="#">Interactive Map (Blue- green Algae Tracker) Page Views</a>	Interactive Map (Blue-green Algae Tracker) Unique Page Views
June (16-30) 2014	2185	1889	12	8
July	3156	2772	1423	1062
August	5288	4624	3222	2439
September	1989	1759	1032	791
October	1082	1365	487	251
November	1032	921	202	160
<b>Total</b>	<b>14732</b>	<b>13330</b>	<b>6378</b>	<b>4711</b>

Typically, the VDH distributes a press release in early July that reminds parents, boaters, swimmers and pet owners to watch for cyanobacteria when enjoying the water. This year, the press release went out on July 3 ([http://healthvermont.gov/news/2014/070314\\_swim\\_safety.aspx](http://healthvermont.gov/news/2014/070314_swim_safety.aspx)).

## Discussion

Interest in cyanobacteria remains high in Vermont, New England and the nation. Currently, there remain no federal guidance values for potentially toxic cyanobacteria and cyanotoxins. It is anticipated, however, that the EPA and Health Canada will complete a review of available cyanotoxin data and issue guidance values for selected cyanotoxins in 2015. In the interim, the Champlain monitoring project continued to provide data on the presence of potentially toxic cyanobacteria on the lake and selected inland lakes based on Vermont recreational guidelines.

## Effectiveness of the monitoring protocols

### Visual Assessment Protocols

Quantitative data collected in conjunction with visual assessments at selected sites continue to support the effectiveness of the visual assessment protocols. In 2014, volunteers at Red Rocks and North Beaches in the Burlington area, the Shipyard at Highgate Springs and North Hero State Park collected water samples when they made their assessments. VDH staff did the same at the 10 Climate Change sites on Champlain and the inland lakes.

The majority of reports reflected Category 1 (generally safe conditions), with correspondingly low concentrations of potentially toxic cyanobacteria (Appendix C). Low concentrations of microcystin were present in some instances, but in most cases Category 1 assessments had no detectable microcystin. Three instances of low microcystin ( $<0.3\mu\text{g/L}$ ) were observed when no cyanobacteria were present in the corresponding water sample. At two of these locations, Alburgh and the Shipyard in Missisquoi Bay, cyanobacteria have been common historically and it is likely that they were present in the water sample submitted in for toxin analysis. At the third site, Keeler Bay in South Hero, no potentially toxic cyanobacteria were observed in samples collected during 2014 though they were present at the site in 2013. In all cases, concentrations of microcystin were well below the VDH recreational guidance value of  $6\mu\text{g/L}$  and consistent with the generally safe designation.

### Addition of Category 1d

In 2014, a fourth option - 1d - Little BGA present - recreation not impaired - was added to visual assessment Category 1 to distinguish small amounts of cyanobacteria that would not deter recreational use of the site from the other phenomenon captured by this category. Fifty-two assessments used the new option in 2014, primarily in the Inland Sea on Lake Champlain (Table 13).

Table 13. Use of the new Category 1 assessment option 1d by region in 2014.

Region	Category 1d
Champlain - Inland Sea	16
Champlain - Main Lake Central	4
Champlain - Main Lake North	3
Champlain - Main Lake South	10
Champlain - Malletts Bay	1
Champlain - Missisquoi Bay	9
Champlain - St. Albans Bay	7
Lake Carmi	2
<b>Total Reports in 2014</b>	<b>52</b>

### Use of Scum to Designate High Alert for the Tiered Alert Protocol

Beginning in 2014, the presence of a cyanobacteria scum automatically resulted in an assessment of Alert 2 (high alert) for sites assessed using the tiered alert protocol, regardless of the cell density of potentially toxic cyanobacteria or microcystin concentrations. This better aligned the protocol with the visual assessment protocol and the VDH recreational guidance where the presence of visible scum represent conditions of highest concern with respect to human health. Previously, the presence of a



scum did raise the status to low alert but microcystin  $\geq 6$   $\mu\text{g/L}$  was necessary to trigger a high alert. Prior to 2014, the 6 scum-forming blooms sampled by the VT DEC routine monitoring visits in 2014 would have been assigned low alert status because microcystin did not exceed VDH recreational guidance (Table 14).

Table 14. Scum-forming blooms assigned high alert status in 2014 following the revised protocols

Report Date	Station	Bloom Intensity	Region	Potentially Toxic Cyano (cells/mL)	Microcystin as LR-equivalents ( $\mu\text{g/L}$ )
8/5/2014	Highgate Cliffs	3 - BGA bloom in progress (include photos)	Champlain - Missisquoi Bay	65100	0.28
8/19/2014	LTM 40	3 - BGA bloom in progress (include photos)	Champlain - St. Albans Bay	853600	0.2
8/20/2014	LTM 50	3 - BGA bloom in progress (include photos)	Champlain - Missisquoi Bay	1072400	0.24
	LTM 51	3 - BGA bloom in progress (include photos)	Champlain - Missisquoi Bay	80600	0.33
	Mouth of the Rock River	3 - BGA bloom in progress (include photos)	Champlain - Missisquoi Bay	351600	0.24
9/8/2014	LTM 40	3 - BGA bloom in progress (include photos)	Champlain - St. Albans Bay	18400	< 0.16

## Cyanobacteria conditions on the four inland lakes

Monitoring at the four inland lakes continued to employ the visual assessment protocol combined with samples for phytoplankton density, microcystin and anatoxin. Though median densities of potentially toxic cyanobacteria were higher in all four lakes during 2014 than in the previous year, particularly for Iroquois and Carmi, the monitored sites had generally safe conditions during much of the summer (Figure 2). Table 15 summarizes microcystin concentrations observed during the last two years.

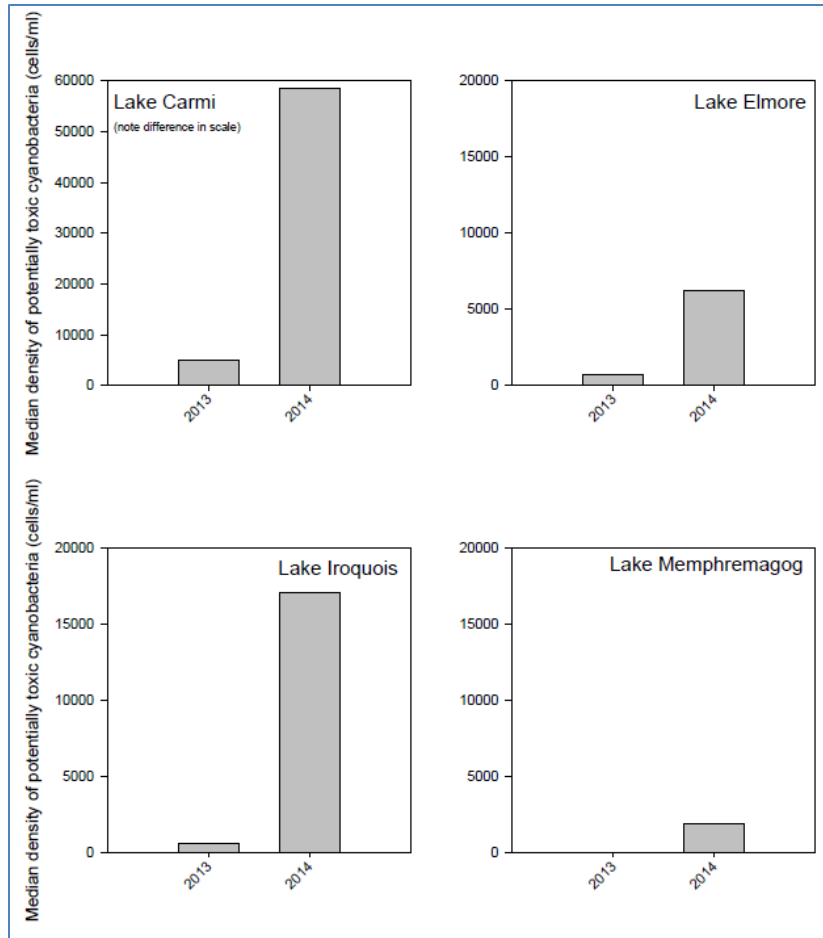


Figure 2. Median density of potentially toxic cyanobacteria in VDH Climate Grant samples collected on four selected inland lakes, 2014.

Lakes Elmore and Iroquois reported no blooms during 2014. Blooms were reported from the south end of Lake Memphremagog by the Memphremagog Watershed Association in late September. Lake Carmi began experiencing extensive blooms, reported by residents and the Carmi Watershed Association, in mid-August at locations other than the monitored site. These continued into the fall, with the last being recorded on October 31. Low levels of microcystin ( $<0.40\mu\text{g/L}$ ) were detected in 2014 at Lakes Elmore and Carmi. The sole detection of anatoxin in 2014 occurred on Lake Elmore. Potentially toxic taxa were present at low densities during each visit to this lake.

Table 15. Microcystin concentrations in selected Vermont lakes, 2013 - 2014. Stations were monitored weekly. Supplemental bloom samples are also included. ND = not detected.

Lake		2013	2014
Lake Carmi	median	<0.16	<0.16
	range	ND - 0.21	ND - 0.39
	#samples	10	19
	#stations	1	4
Lake Elmore	median	<0.16	<0.16
	range	ND	ND - 0.18
	#samples	11	11
	#stations	1	1
Lake Iroquois	median	<0.16	<0.16
	range	ND	ND
	#samples	11	11
	#stations	1	1
Lake Memphremagog	median	<0.16	<0.16
	range	ND	ND
	#samples	11	11
	#stations	1	1

Monitoring will continue at the four inland lakes during 2015. The Memphremagog Watershed Association supports the effort with local volunteer monitors and coordinates with local health officials. On Lake Carmi, residents and the watershed association are working with the VDH and LCC to expand monitoring efforts outside of the state park for 2015. The Lake Iroquois Association will also assist with monitoring in 2015.

### Assessing Change over Time

Conditions on Champlain's Missisquoi and St. Albans Bay, as well as Lake Carmi, led many to conclude that blooms were worse in 2014 than they have been in the past. While data for Lake Carmi prior to 2013 are limited, status reports have been generated at many locations around Lake Champlain since the monitoring program's inception in 2003. Despite modifications to the program structure over the years, the reported recreational status (e.g. generally safe, low alert, or high alert) has been used consistently and provides a mechanism to evaluate change over time on Lake Champlain in general and at several specific locations.

The implementation of the visual assessment protocol in 2012 has significantly increased the number of reports received each year from Lake Champlain. The number of sites monitored by volunteers increased again in 2014, with a correspondingly larger number of reports provided. The majority of reports are received from areas that are less prone to cyanobacteria blooms. More than 90% of the reports from 2014 indicated generally safe conditions, continuing a trend that began in 2007. Alert-level conditions were reported 89 times in 2014 (Figure 3), representing 6.5% of the reports submitted

(Figure 4). This is exceeded only by 2006, when monitoring focused on bloom-prone areas (134 alert-level reports, 28% of total reports). There were 38 high alert reports during 2014, the highest since the program began, primarily from Missisquoi and St. Albans Bays.

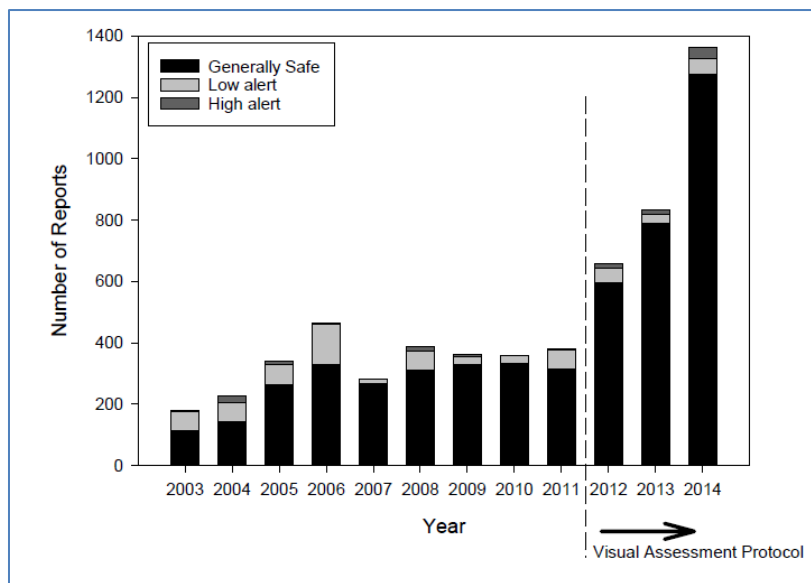


Figure 3. Number of yearly cyanobacteria status reports for Lake Champlain by category. Records prior to 2012 were determined using historical cell count and toxin data. Beginning in 2012, summaries include records obtained using the visual assessment protocol. The status generated by the visual assessment protocol is used at locations where both types of assessment were employed. Supplemental reports are included.

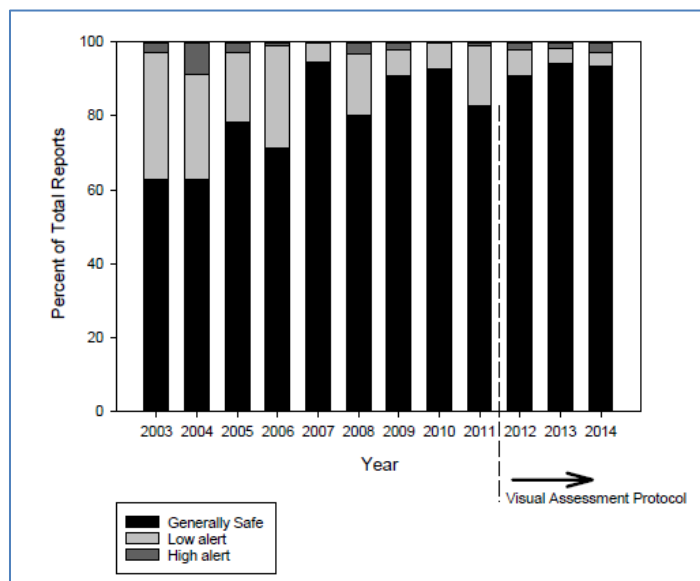


Figure 4. Cyanobacteria status reports Lake Champlain by category, percent of total reports received. Records prior to 2012 were determined using historical cell count and toxin data. Beginning in 2012, summaries include records obtained using the visual assessment protocol. The status generated by the visual assessment protocol is used at locations where both types of assessment were employed. Supplemental reports are included.

### **Conditions on St. Albans and Missisquoi Bays in 2014**

In St. Albans Bay, three stations have been monitored consistently since the program began in 2003 and provide an opportunity to consider the frequency and intensity of cyanobacteria blooms on the Bay over time. Monitoring and reporting methods have changed since the program's inception, however, requiring some caution in interpretation. Prior to 2014, high alerts would have been issued only when the density of potentially toxic cyanobacteria reached or exceeded 4000 cells/mL and microcystin met or exceeded the VDH guidance value of 6 µg/L. In 2014, high alerts were also issued when an extensive visible scum was present at the report site. Figure 5 summarizes the routine monitoring reports submitted for these stations. Supplemental reports were not included because they are provided inconsistently, typically in greater number during bloom events.

VT DEC has monitored at LTM 40, located mid-bay in the vicinity of Lazy Lady Island, biweekly using the tiered alert protocol since 2003 (Appendix A). Though alert-level reports have been recorded in the past at LTM 40, they represented a small percentage of the reports recorded each year before 2013. Prior to 2014, high alerts had never been reported at this station though scums had been present in the past (VT DEC, personal observations). The cumulative data from this site indicate that the incidence of alert-level conditions observed during routine monitoring visits has increased in the last two years compared to previous summers.

St. Albans Bay Park, the northern shore of the inner bay, has been monitored weekly by UVM and volunteers (Appendix A). Prior to 2012, water samples were analyzed for phytoplankton and microcystin following the tiered alert protocol. Since 2012, the visual assessment protocol has been used and resulted in an increase in the high alert reports documenting the presence of visible extensive scum. This location has historically been prone to cyanobacteria blooms as indicated by the large percentage of alert-level reports made during routine monitoring visits since 2006. While the percentage of alert-level reports did increase at this location in 2014 as compared to 2012 and 2013, conditions in 2014 were consistent with observations from previous years.

UVM monitored the St. Albans Bay Boat Launch on Hathaway Point Road weekly using the tiered alert protocol through 2011 (Appendix A). VT DEC has monitored this location biweekly using the tiered alert protocol since 2012. Volunteer monitors have also submitted weekly reports using the visual assessment protocol. At this location, the percentage of high alert reports has increased since the visual assessment protocol was implemented in 2012 and the change regarding visible scums in 2014. The percentage of alert-level reports also increased each year from 2012 to 2014, but is comparable to previous summers. The cumulative data indicate that this location experiences high densities of potentially toxic cyanobacteria each year though the magnitude of the events is highly variable from year to year. Prevailing environmental conditions each summer appear to influence how algae collect in this location along the western shore of the bay (VT DEC, personal observations).

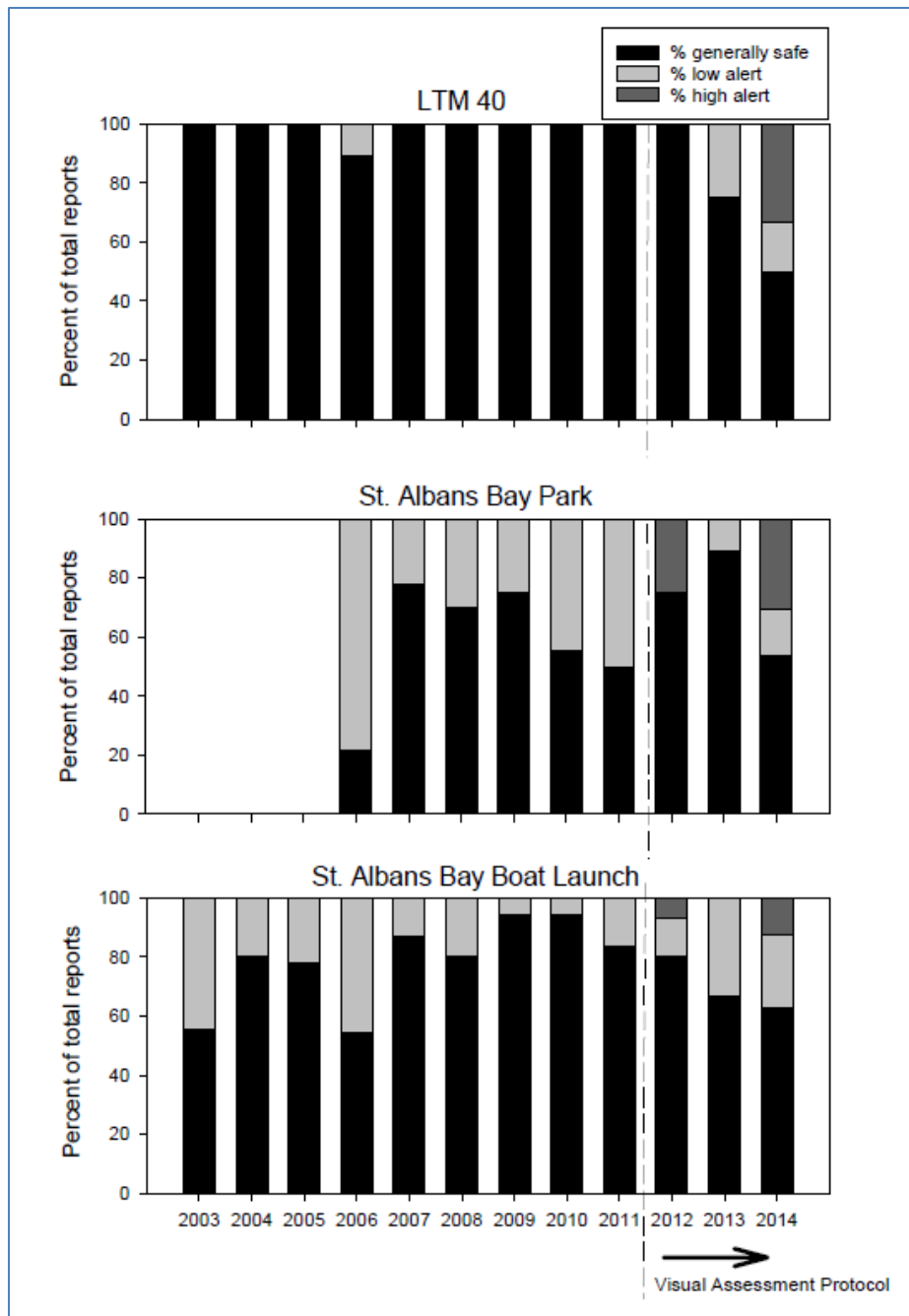


Figure 5. Summary of Assessment Status for Selected Stations in St. Albans Bay, 2003 – 2014. No supplemental reports are included.

In Missisquoi Bay, three stations also have been monitored consistently since the program began in 2003 (Figure 6). As in St. Albans, these stations provide an opportunity to consider the frequency and intensity of cyanobacteria blooms on Missisquoi Bay over time though monitoring and reporting methods have changed since the program's inception.

LTM 50 has been monitored biweekly by the VT DEC since 2003, utilizing the tiered alert protocol (Appendix A). Prior to 2014, high alerts had never been reported at this station though scums had been

present in the past (VT DEC, personal observations). Alert-level reports at this location during routine monitoring visits have been infrequent, likely a reflection of its mid-bay open water location. The percentage of alert-level reports in 2013 and 2014 were consistent with years prior to 2007 but reflect an increase since 2012.

The Highgate Springs site is located offshore on the eastern side of the bay (Appendix A). Prior to 2013, it was monitored weekly by UVM following the tiered alert protocol. Since 2013, VT DEC has monitored it biweekly following the tiered alert protocol. This location is prone to cyanobacteria blooms as indicated by the large percentage of alert-level reports made during routine monitoring visits since 2003. The percentage of alert-level reports decreased in the last two years compared to 2011 and 2012, but reflects variability that has been observed at this location in the past. The decrease in high alert reports may be an artifact of the change from a weekly to biweekly sampling schedule.

The Shipyard location in Highgate Springs has been monitored by the same individual on a weekly basis since 2003 (Appendix A). Prior to 2012, the tiered alert protocol was followed. Currently, the station is monitored using the visual assessment protocol. This location is also subject to frequent cyanobacteria blooms, with high alerts occurring frequently. The percentage of high alerts in 2014 is similar to years past, but the overall percentage of alert-level reports made during routine monitoring visits was lower than most previous years. The cumulative data suggest that the frequency of alert-level reports has been decreasing at this location.

The median density of potentially toxic cyanobacteria from all locations in Missisquoi and St. Albans Bay over the program's history is shown in Figure 7. Both routine monitoring and bloom event data are included. Data from Missisquoi Bay document a substantial decrease in median cell densities since 2007, a year when no cyanobacteria blooms were documented at all. Blooms have occurred annually on the bay since 2007, but typical cell densities documented at the monitoring locations have decreased. On St. Albans Bay, the typical cell densities in the summer of 2006 were unusually high compared to other years. Blooms continue to occur annually here as well, with the lower median cell densities after 2012 perhaps due to the present use of the visual assessment protocol at the St. Albans Bay Park rather than the quantitative tiered alert system.

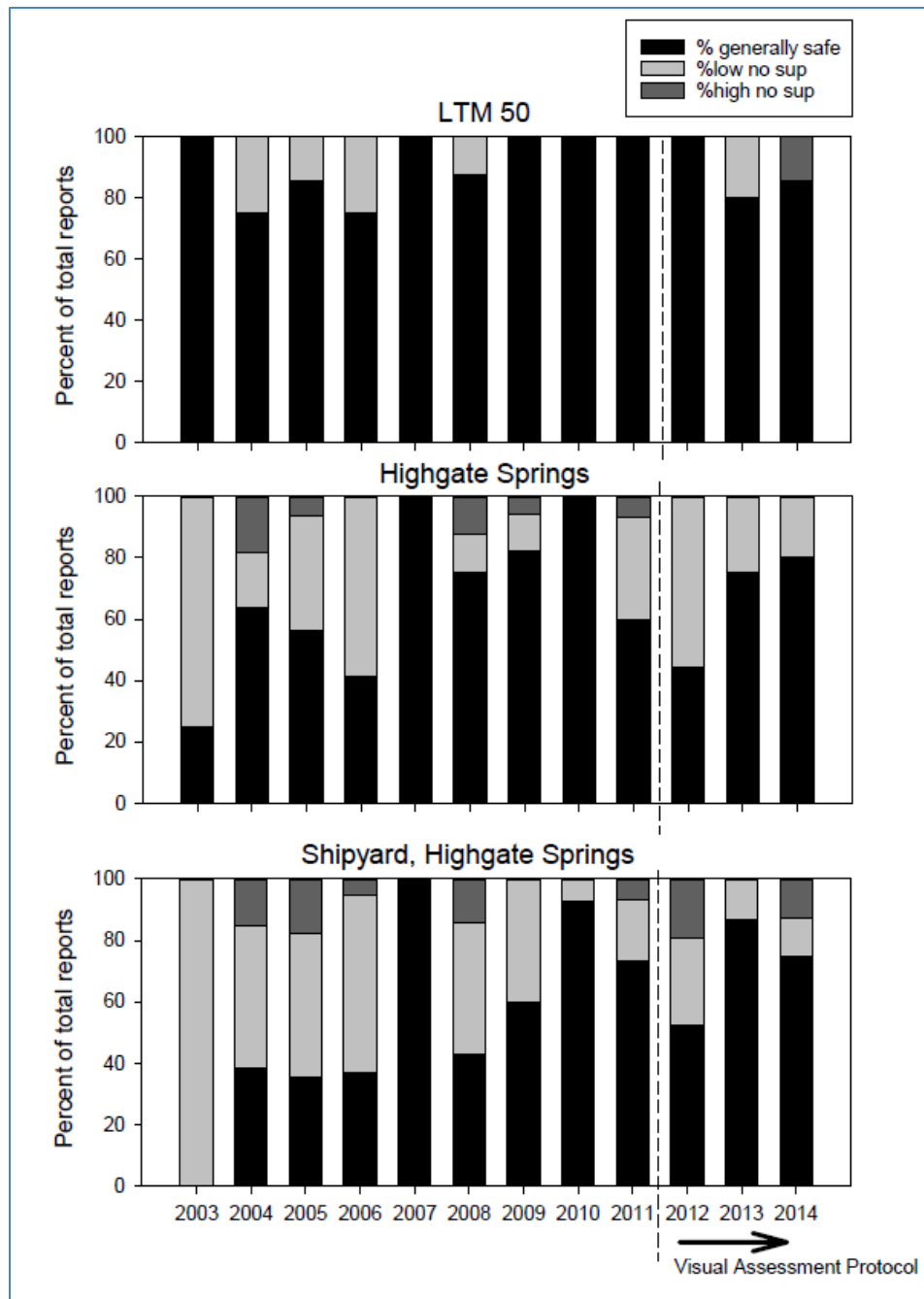


Figure 6. Summary of Assessment Status for Selected Stations in Missisquoi Bay, 2003 – 2014. No supplemental reports are included.



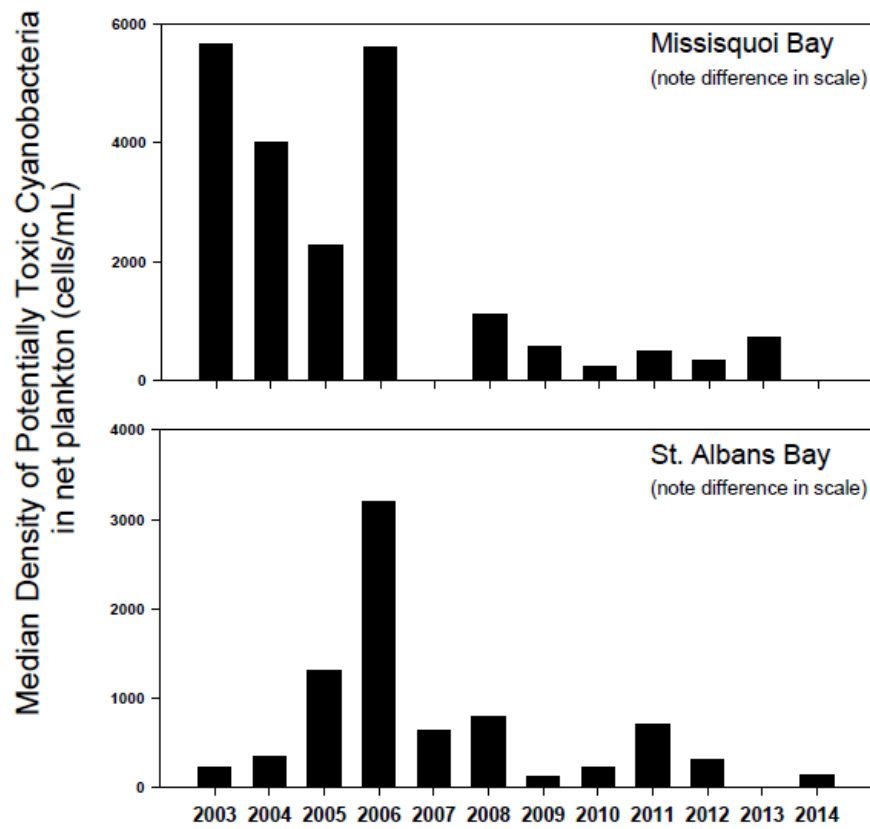


Figure 7. Median density of potentially toxic cyanobacteria cells from samples by the Champlain Cyanobacteria Monitoring program, 2003 – 2014. Data include supplemental bloom samples.

The number of microcystin samples obtained on Lake Champlain has decreased in recent years, however visible surface scums were sampled whenever they were encountered on the lake by DEC field staff. VDH staff also obtained samples for toxin analysis from visible scums reported by the public whenever possible. Because microcystin concentrations are expected to be highest in these situations, this targeted sampling increases the opportunity to capture high microcystin events. Despite targeted sampling efforts, over the last five summers, microcystin concentrations exceeding Vermont's recreational guideline of 6µg/L have been documented only in Missisquoi Bay (Table 16).

Table 16. Microcystin concentrations in major lake segments, 2003 – 2014. Data are from routine monitoring locations and bloom events. Data do not distinguish between net plankton and whole water samples. ND = not detected. Shaded boxes = not applicable.

Lake Segment		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Inland Sea	median	0.05	0.41	0.08	0.27	0.05	1.10	0.07	0.03	0.08	NA	<0.16	<0.16
	range	0.05 - 0.18	0.08-17.56	0.01-0.19	0.04-42.14	0.04-0.07	0.03-22.50	0.06-0.08	0.03-0.13	0.01-0.82	NA	ND - 0.43	ND - 0.28
	#samples	6	8	8	16	4	11	2	3	9	0	45	56
	#stations	1	3	3	7	3	4	2	2	4	NA	4	4
Main Lake Central	median	0.05	NA	7.42	NA	2.82	0.25	0.03	0.10	0.02	0.13	<0.16	<0.16
	range	0.01-0.12	NA	6.04-8.80	NA	0.02-5.61	0.03-0.47	0.03-23.36	0.02-0.14	0.01-0.03	0.13-0.64	<0.16 - 0.17	<0.16-0.19
	#samples	19	0	2	0	2	2	6	8	4	3	23	31
	#stations	4	NA	1	NA	2	2	3	5	4	1	2	2
Main Lake North	median	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	range	NA	NA	NA	NA	NA	1.56	0.03	NA	0.01	NA	NA	NA
	#samples	0	0	0	0	0	1	1	0	1	0	0	0
	#stations	NA	NA	NA	NA	NA	1	1	NA	1	NA	NA	NA
Main Lake South	median	NA	NA	0.04	NA	NA	NA	NA	NA	0.01	NA	<0.16	<0.16
	range	0.07	NA	ND - 0.07	3.47	NA	NA	NA	NA	0.01	NA	ND - 0.16	ND-0.51
	#samples	1	0	2	1	0	0	0	0	2	0	22	33
	#stations	1	NA	1	1	NA	NA	NA	NA	2	NA	2	3
St. Albans Bay	median	0.05	0.05	0.30	0.06	0.05	0.04	0.02	0.05	0.04	0.03	0.032	<0.16
	range	0.01-0.41	ND - 22.48	0.06-0.82	0.01-0.43	0.02-0.54	0.02-0.12	0.01-0.17	0.01-0.80	0.02-0.14	0.03-0.04	0.002-0.062	ND - 0.2
	#samples	32	29	18	36	20	10	4	10	12	5	2	4
	#stations	1	2	1	2	4	3	2	3	2	1	2	2
Malletts Bay	median	NA	NA	NA	0.04	NA	NA	NA	NA	NA	NA	NA	NA
	range	NA	NA	NA	0.04-0.08	NA	NA	NA	NA	0.04	NA	NA	NA
	#samples	0	0	0	7	0	0	0	0	1	0	0	0
	#stations	NA	NA	NA	2	NA	NA	NA	NA	1	NA	NA	NA
South Lake	median	0.96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	range	0.53-1.38	NA	0.01	NA	NA	NA	NA	NA	0.02	NA	NA	NA
	#samples	2	0	1	0	0	0	0	0	1	0	0	0
	#stations	2	NA	1	NA	NA	NA	NA	NA	1	NA	NA	NA

Lake Segment		2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Missisquoi Bay	median	0.09	0.84	0.66	0.52	NA	2.56	0.54	0.03	0.65	0.99	<0.16	<0.16
	range	ND - 23.91	0.01-6490.06	ND - 22.11	0.01-21.29	NA	0.06-94.58	0.03-54.16	0.01-0.12	0.02-180.2	0.26-54.76	ND - 1.3	ND -2.29
	#samples	341	228	146	152	0	81	29	10	59	36	30	40
	#stations	14	11	10	12	NA	10	8	7	8	3	6	7

### Were Cyanobacteria Unusually Abundant in 2014?

Changes to the monitoring program since its inception in 2003, particularly the addition of the visual assessment protocol in 2012 and the change to the tiered alert protocol regarding the presence of visible scum in 2014, have expanded geographical coverage and facilitated bloom reporting in recent years. Lake users, overall, are also more aware of health and water quality concerns associated with cyanobacteria. These changes have made it easier to capture extensive visible scum events which accumulate and dissipate rapidly, both for the program's dedicated volunteers and for the general public active at the water's edge. Overall, the number of alert-level assessments in 2014 was higher than any previous year except for 2006, but strongly influenced by higher awareness and ease of reporting compared to previous years.

Environmental conditions are responsible for the location, density, and visual appearance of cyanobacteria, creating very patchy distribution in space and time. Available data may not characterize conditions at every location around the lake, but can provide insight regarding over all trends. Routine monitoring data from selected locations on the Vermont side of Missisquoi Bay highlight the annual and spatial variability around the bay. Conditions in 2014 at these stations were similar to conditions documented in years past and did not indicate that the severity of blooms had increased at these locations. Median densities of potentially toxic cyanobacteria in net plankton tows from Missisquoi Bay indicate that overall cyanobacteria abundance currently is less than what had been documented prior to 2007. Similar patterns occurred in St. Albans Bay, where data from 2014 indicated that conditions at the Bay Park on the inner bay were more severe than during the two prior years but comparable to conditions that had been observed there historically. Data from two other stations on St. Albans Bay also indicated that conditions in 2014 were worse than the two previous years, but comparable to conditions observed historically. Median cell densities of potentially toxic cyanobacteria in St. Albans Bay for 2014 also did not reflect an increase.

## **Conclusions**

Cyanobacteria are routinely documented in phytoplankton samples collected from Lake Champlain and lakes in the region by this program and others, including taxa that have the ability to produce a variety of cyanotoxins. They are a natural component of the ecosystem, albeit one that has the potential to affect human and animal health. The goal of this monitoring effort is to provide public health officials and the general public with information they need to make decisions regarding recreational activities on the monitored lakes and the condition of raw drinking water sources on Champlain, in a fiscally sustainable program.

It is not possible to 'know' the algal conditions occurring around a lake at every location and point in time. Nor can the program test for every possible cyanotoxin that might be present in a particular algal population. It does, however, provide valuable data to inform the decision-making process used by public health officials when cyanobacteria blooms occur and water quality management efforts by Agency of Natural Resources and its partners. It also provides the public with tools they can use to assess water conditions wherever they happen to be.

In August 2014, the drinking water facility for the city of Toledo OH issued a 'do not use' order for 500,000 people that continued for several days, leading the governor to declare a state of emergency. This single incident resulted in heightened awareness of the vulnerability of surface drinking water sources and the direct connection between activities on land and the quality of our waters. The monitoring program partners are participating in national, regional and local discussions around drinking water source protection, monitoring, and cyanotoxin detection while continuing to improve management of land-based activities that have a direct influence on the quality of our surface waters.

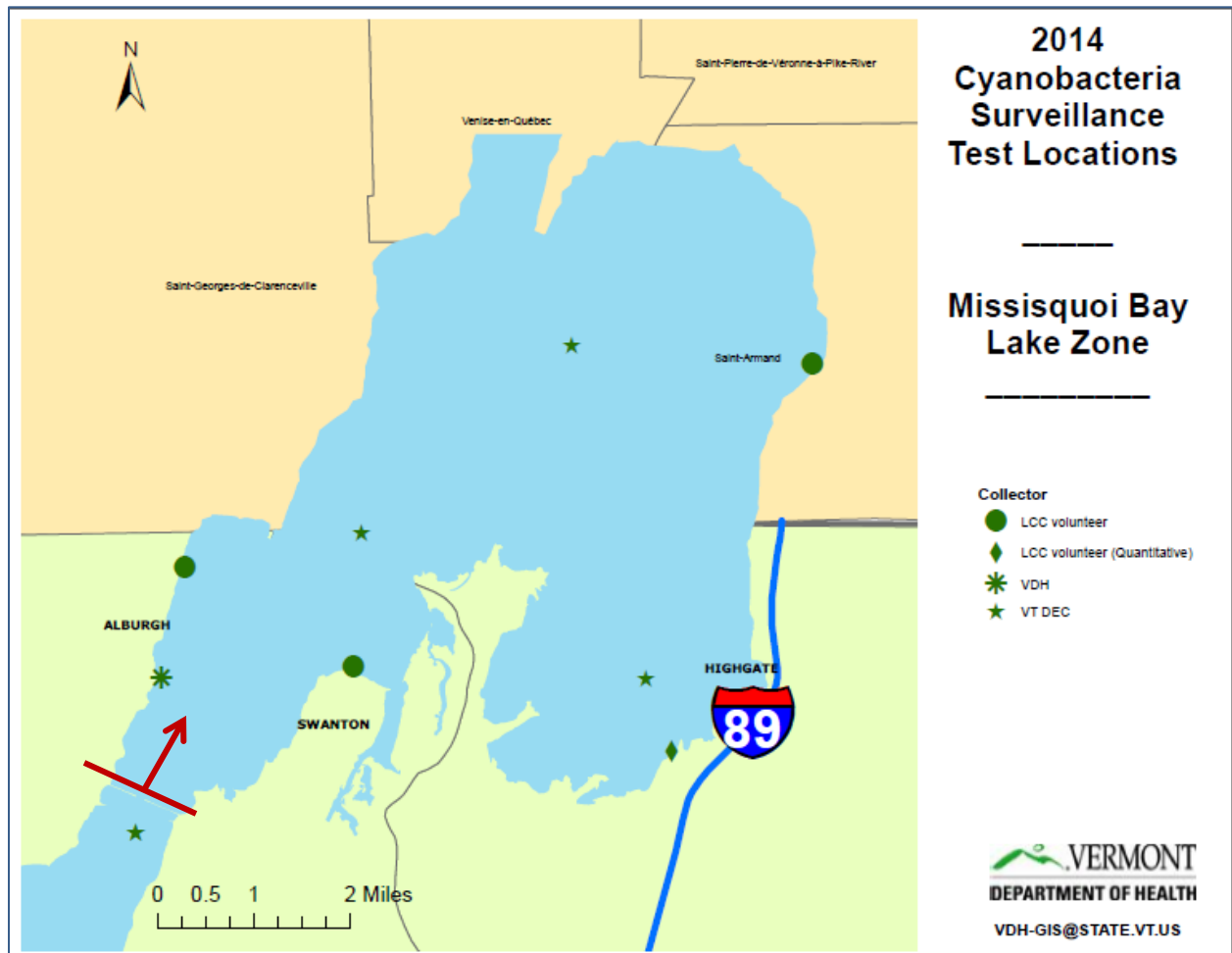
## **Acknowledgements**

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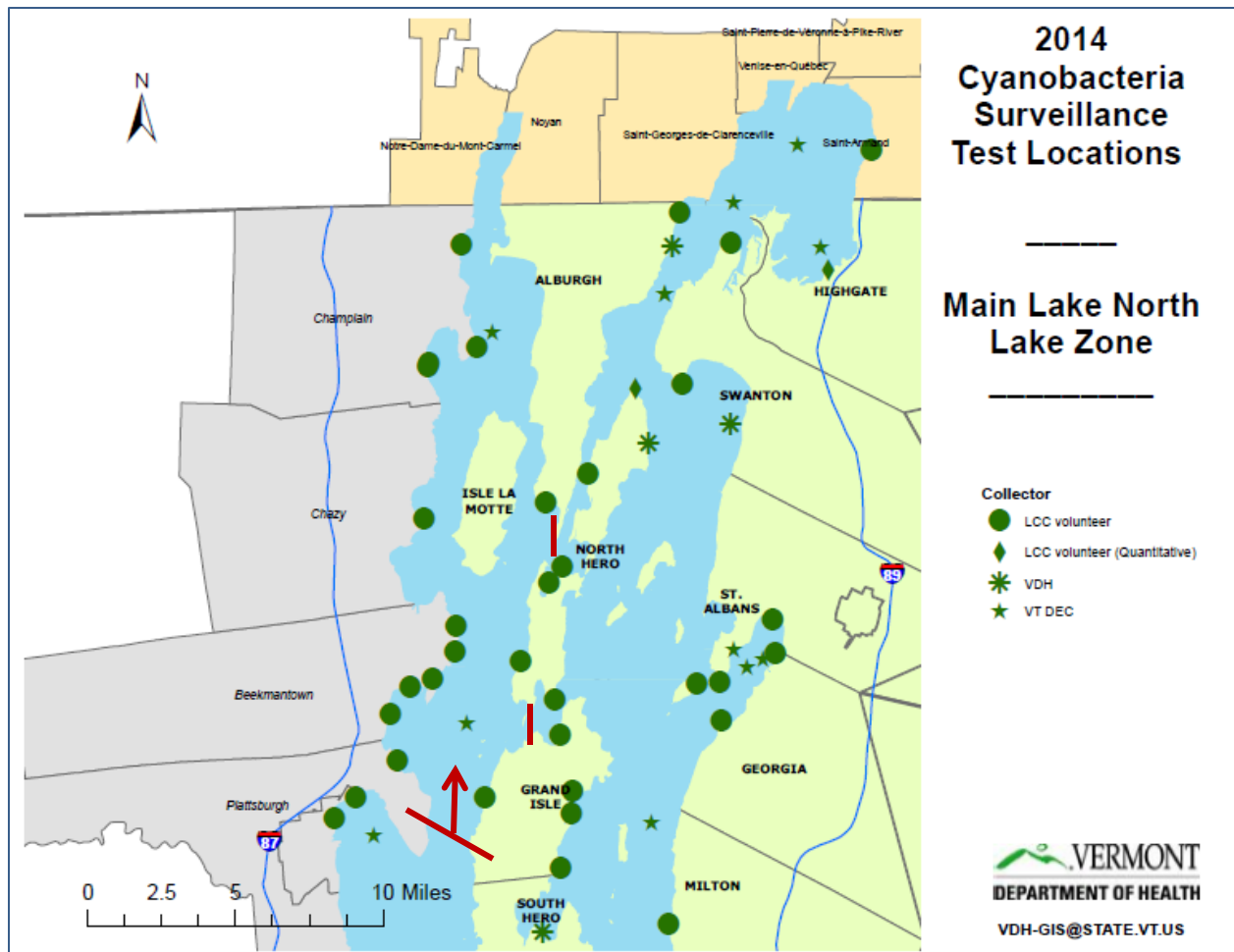
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Rogalus, M. and M. Watzin. 2008. Evaluation of Sampling and Screening Techniques for Tiered Monitoring of Toxic Cyanobacteria in Lakes. *Harmful Algae* 7(4):504-514.

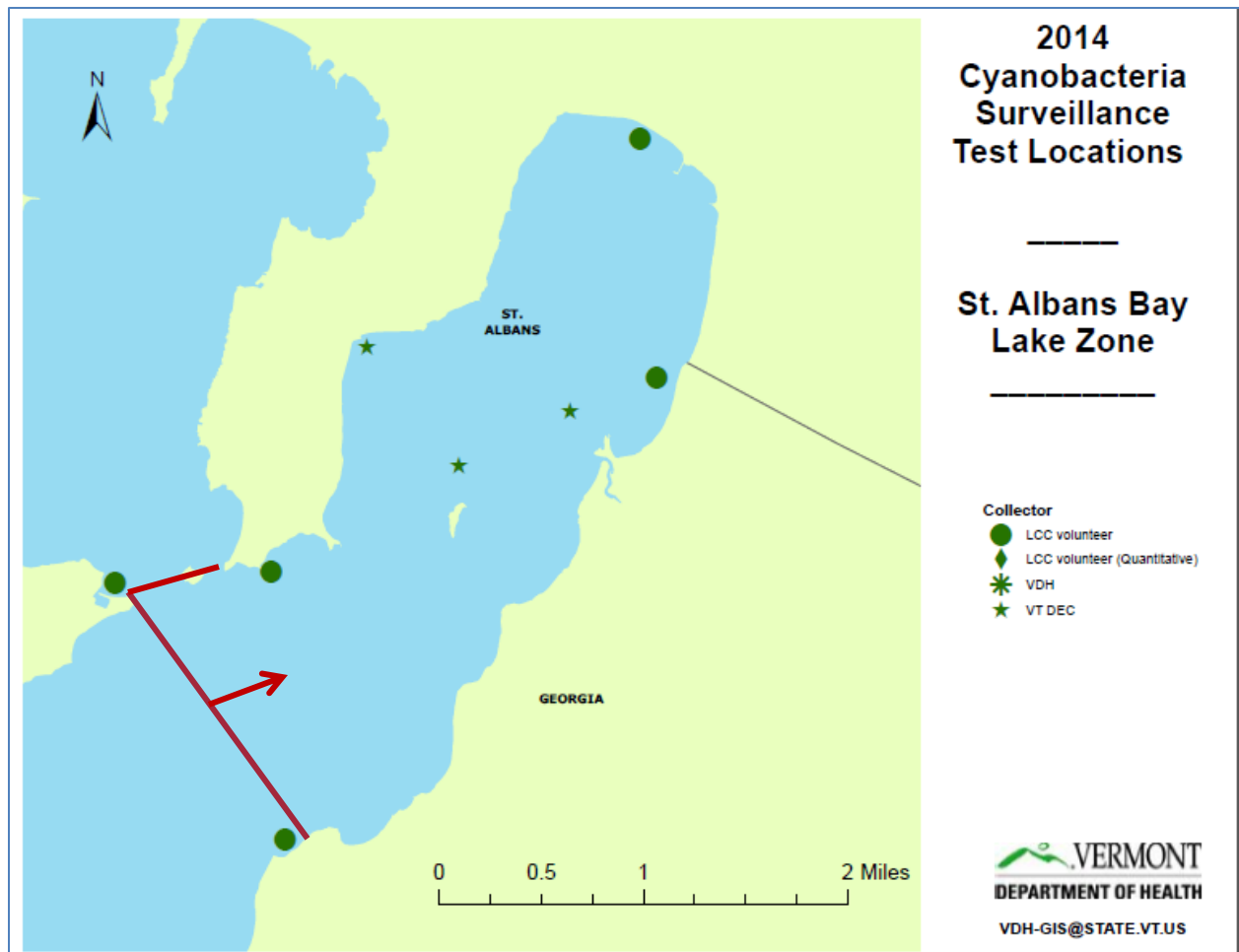
## Appendix A – 2014 Sampling locations

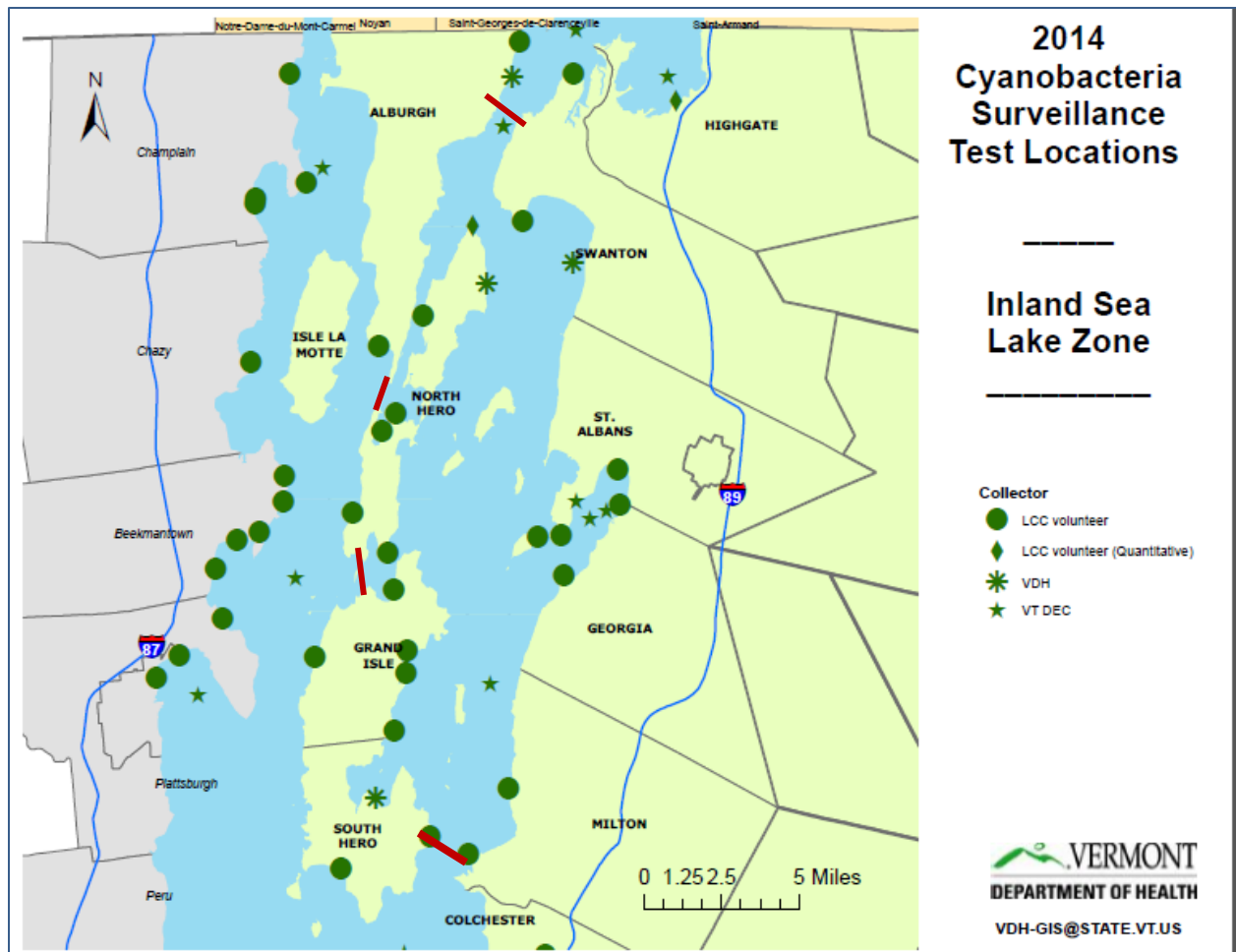


The Missisquoi Bay zone extends north of the Rt 78 Bridge.



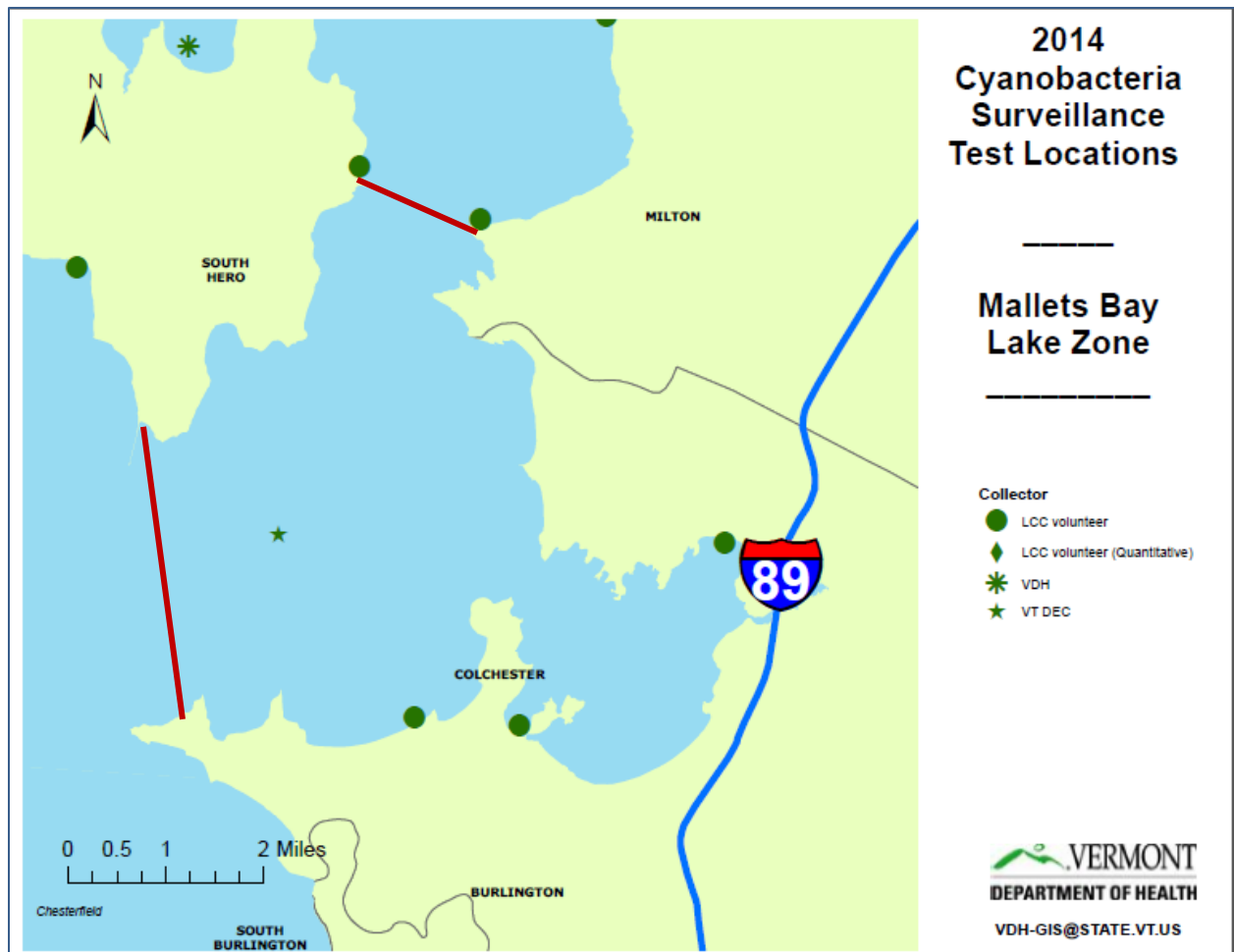
The Main Lake North zone extends north from the Grand Isle Ferry route, and west from the causeways at Carry Bay and the Gut.



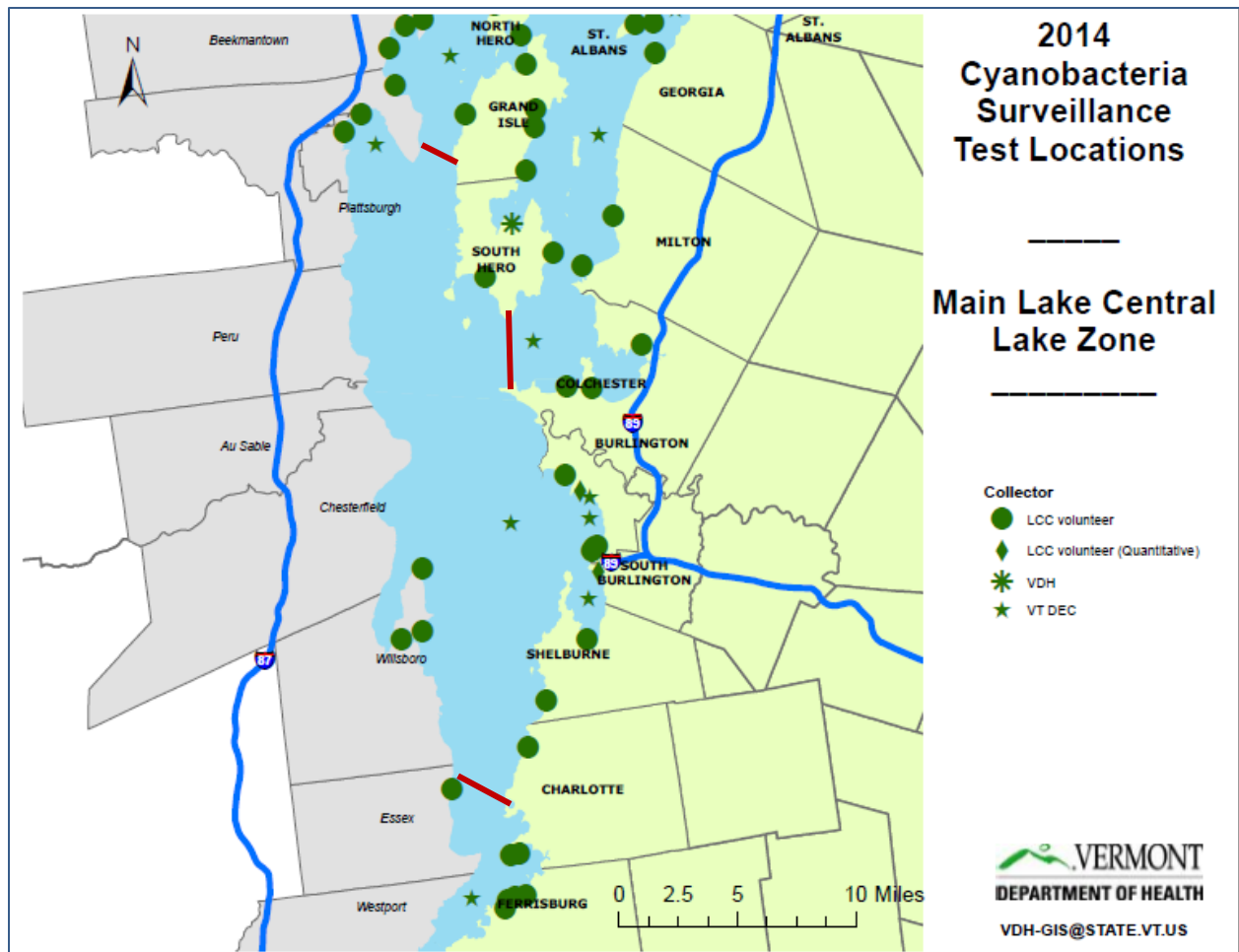


The inland lake zone extends north from the Sandbar Causeway north to the Rt 78 bridge, and east to the Carry Bay and Gut causeways.

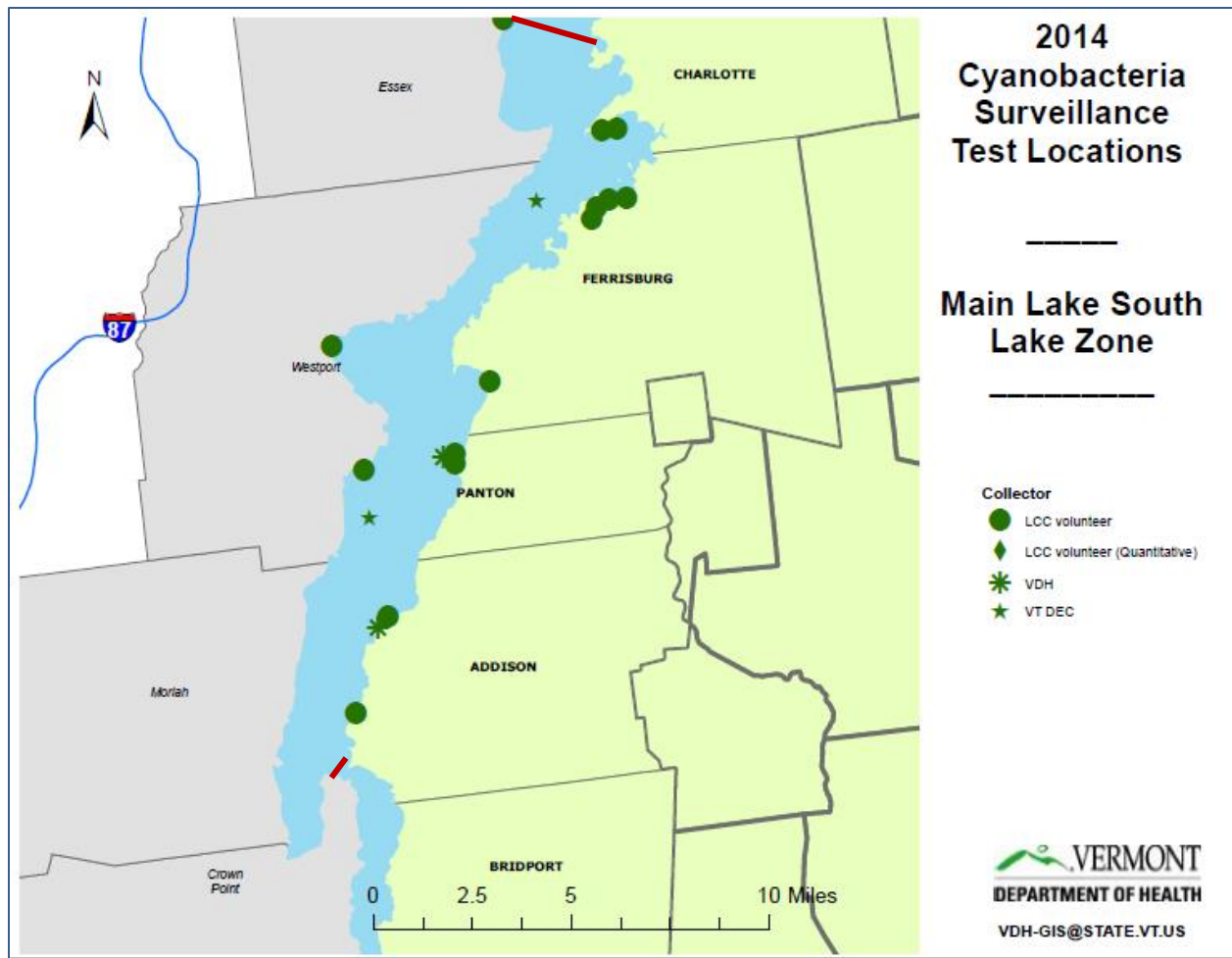




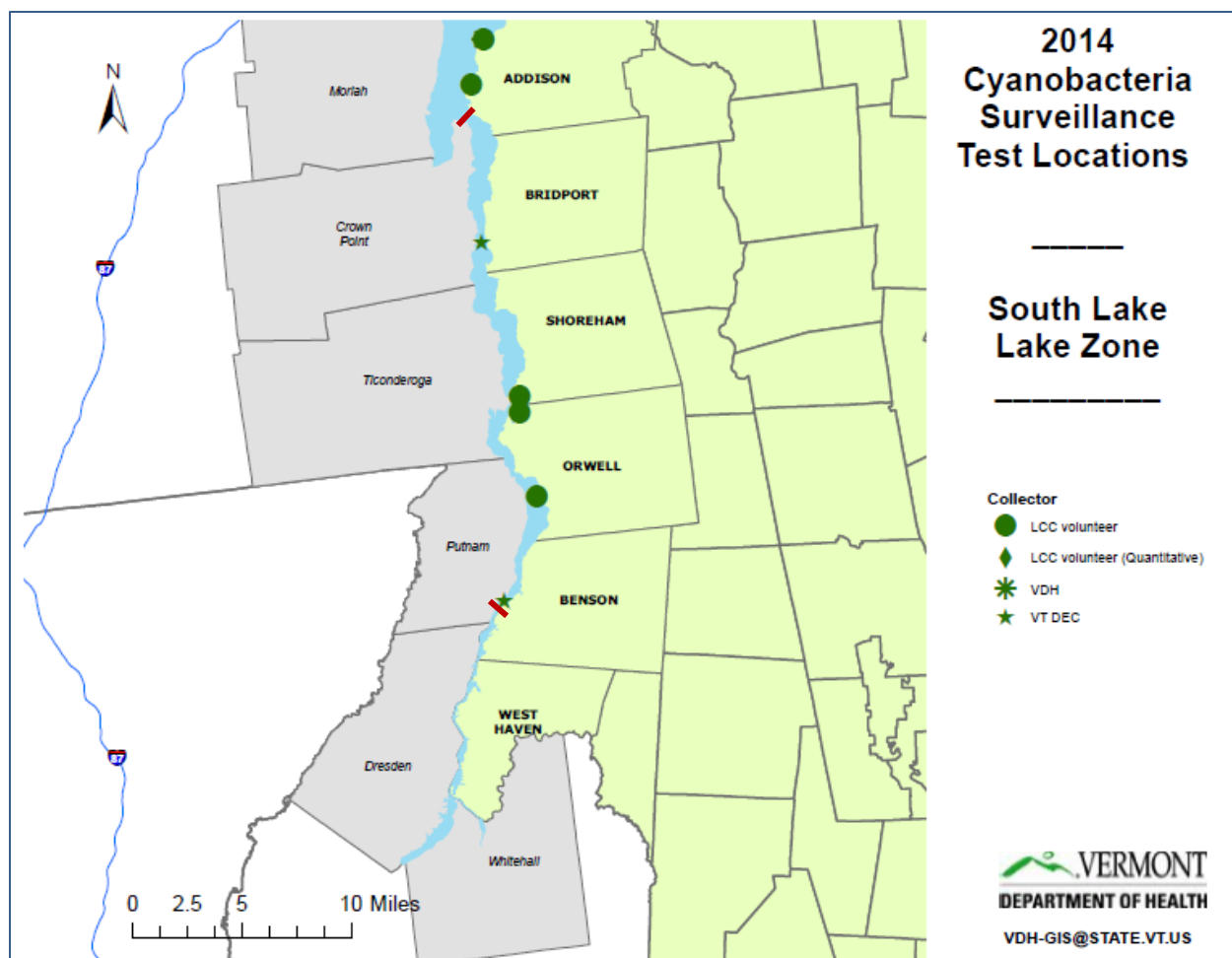
The Malletts Bay zone extends east from the outer bay causeway and north to the Sandbar causeway.



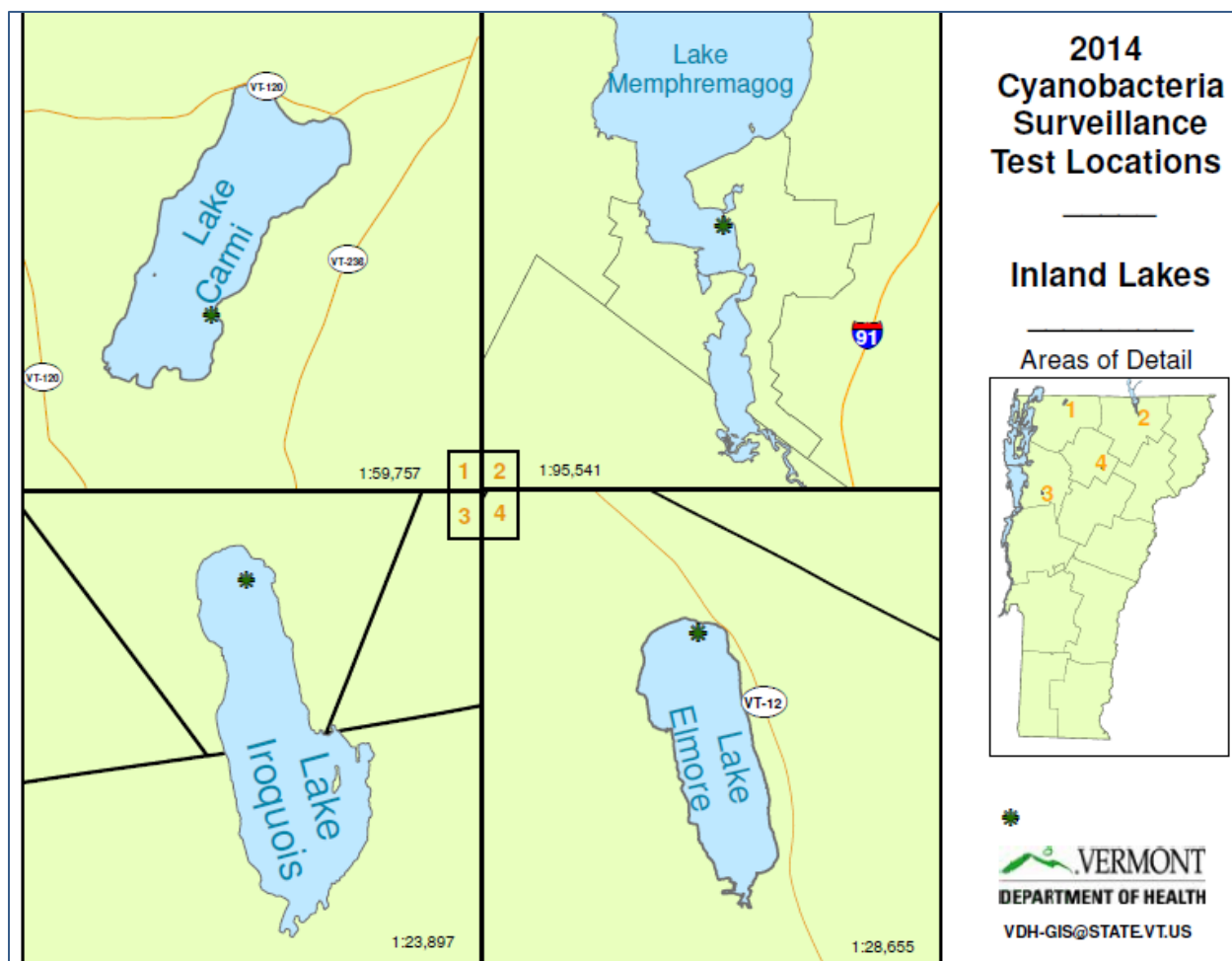
The Main Lake Central region extends north from the Charlotte VT- Essex NY ferry route to the Grand Isle VT – Plattsburgh NY ferry route and east to the Malletts Bay causeway.



The Main Lake South region extends north from the Champlain Bridge at Chimney Point to the Charlotte VT – Essex NY ferry route.



The South Lake zone extends from the Champlain Bridge at Chimney Point south to LTM station 2.



Lake	Region	Station	Collector	Latitude	Longitude
Champlain	Inland Sea	Burton Island	LCC Volunteer	44.77686	-73.19632
		Cedar Ledge	LCC Volunteer	44.84695	-73.26219
		City Bay - Rt 2	LCC Volunteer	44.81589	-73.28908
		Grand Isle State Park	LCC Volunteer	44.68602	-73.28912
		Keeler Bay Boat Launch	LCC Volunteer	44.66791	-73.31991
		Keeler Bay East	LCC Volunteer	44.65414	-73.29196
		Keeler Bay, South Hero	VDH	44.65390	-73.30089
		Knight Island	LCC Volunteer	44.81072	-73.25808
		Knight Point State Park	LCC Volunteer	44.76867	-73.29446
		LTM 34	VT DEC	44.70817	-73.22683
		Maquam Bay	LCC Volunteer	44.92389	-73.20803
		Maquam Beach	LCC Volunteer	44.92081	-73.16136
		Maquam Shore Road, Swanton	VDH	44.90451	-73.17483
		Marycrest Beach	LCC Volunteer	44.72336	-73.28155
		North Hero State Park	LCC Volunteer	44.92175	-73.24078
		Pelots Bay	LCC Volunteer	44.82537	-73.29915
		Sand Bar State Park	LCC Volunteer	44.62876	-73.23994
		South Hero Fish and Wildlife Boat Access	LCC Volunteer	44.63641	-73.26523
		Stephensen Point Fish and Wildlife Access	VDH	44.89486	-73.23152
		The Gut	LCC Volunteer	44.75137	-73.29026
		Woods Island	LCC Volunteer	44.80487	-73.20453
	Main Lake Central	Ausable Beach State Park	LCC Volunteer	44.57424	-73.42768
		Buena Vista Park, Willsboro NY	LCC Volunteer	44.40395	-73.37346
		Charlotte Town Beach	LCC Volunteer	44.33473	-73.28290
		Community Sailing Center	LCC Volunteer	44.48206	-73.22552
		Corlear Bay, Port Douglas Boat Launch	LCC Volunteer	44.48612	-73.41174
		LaPlatte River mouth, Shelburne Bay	LCC Volunteer	44.40034	-73.23345
		Leddy Park	LCC Volunteer	44.50083	-73.25341
		LTM 16	VT DEC	44.42500	-73.23200
		LTM 19	VT DEC	44.47100	-73.29900
		LTM 21	VT DEC	44.47483	-73.23167
		LTM 33	VT DEC	44.70117	-73.41817
		North Beach	LCC Volunteer	44.49106	-73.24037
		Oakledge Park Blanchard Beach	LCC Staff	44.45744	-73.22551
		Oakledge Park rocky shoreline	LCC Staff	44.45671	-73.22803

Lake	Region	Station	Collector	Latitude	Longitude
Champlain	Main Lake Central	Oakledge Park South Cove	LCC Staff	44.45496	-73.23004
		Peru Boat Launch	LCC Volunteer	44.61884	-73.44043
		Plattsburgh Boat Launch	LCC Volunteer	44.69916	-73.44167
		Plattsburgh City Beach	LCC Volunteer	44.71949	-73.43075
		Point Bay Marina	LCC Volunteer	44.27460	-73.28473
		Port Kent Beach	LCC Volunteer	44.52866	-73.40346
		Pt. Au Roche S.P. Deep Bay	LCC Volunteer	44.77751	-73.37886
		Quaker Smith Point	LCC Volunteer	44.37918	-73.28114
		Red Rocks Beach	LCC Staff	44.44200	-73.22413
		Shelburne Beach	LCC Volunteer	44.36306	-73.26761
		Shelburne Farms	LCC Volunteer	44.40445	-73.26831
		Shelburne Point	LCC Volunteer	44.43447	-73.25144
		Shelburne Shipyard	LCC Staff	44.43458	-73.24699
		Starr Farm Beach	LCC Volunteer	44.51376	-73.27140
		Sunset/Crescent Beach	LCC Volunteer	44.60888	-73.31585
		Teddy Bear Point Cove, Willsboro NY	LCC Volunteer	44.44272	-73.37428
		White's Beach in Crescent Bay	LCC Volunteer	44.62114	-73.32344
		Wilcox Dock, Plattsburgh	LCC Volunteer	44.70887	-73.44538
		Willsboro Boat Launch	LCC Volunteer	44.39945	-73.39155
	Main Lake North	Alburgh Dunes State Park	LCC Volunteer	44.86462	-73.30196
		Eagle Acres Rd, Chazy NY	LCC Volunteer	44.85660	-73.38572
		Holcomb Boat Launch	LCC Volunteer	44.85468	-73.33162
		Horicans Fish and Wildlife Access	LCC Volunteer	44.91408	-73.31449
		LTM 36	VT DEC	44.75617	-73.35500
		LTM 46	VT DEC	44.94833	-73.34000
		Oliver Bay	LCC Volunteer	44.73745	-73.40234
		Pelots Point West	LCC Volunteer	44.82608	-73.31012
		Pt. Au Roche Boat Launch	LCC Volunteer	44.80440	-73.36297
		Pt. Au Roche S.P. Deep Bay	LCC Volunteer	44.77751	-73.37886
		Pt. Au Roche State Park Beach	LCC Volunteer	44.77414	-73.39380
		Stoney Point, Isle la Motte	LCC Volunteer	44.87148	-73.35944
		Treadswell Bay, Beekmantown NY	LCC Volunteer	44.76008	-73.40752
		Vantines Boat Launch	LCC Volunteer	44.71981	-73.34189
	Main Lake South	Arnold Bay, Panton	VDH	44.14857	-73.36859
		Beggs Park Beach, Essex NY	LCC Volunteer	44.30846	-73.34732

Lake	Region	Station	Collector	Latitude	Longitude
Champlain	Main Lake South	Bulwagga Bay/Port Henry	LCC Volunteer	44.03688	-73.45475
		Button Bay Boat Launch	LCC Volunteer	44.17616	-73.35225
		Button Bay South	LCC Volunteer	44.17616	-73.35225
		Camp Dudley, Westport NY	LCC Volunteer	44.14322	-73.41567
		Camp Greylock	LCC Volunteer	44.24315	-73.29249
		Chimney Point	LCC Volunteer	44.03481	-73.42260
		Converse Bay	LCC Volunteer	44.29493	-73.28998
		Ferrisburgh Stone Beach	LCC Volunteer	44.23790	-73.30828
		Ferrisburgh Town Beach	LCC Volunteer	44.23594	-73.30098
		Hawkins Bay	LCC Volunteer	44.24376	-73.28336
		Kingsland Bay State Park	LCC Staff	44.24030	-73.29873
		Lane's Lane Landing	LCC Volunteer	44.27340	-73.28889
		Long Pt, (Wood) Ferrisburgh	LCC Volunteer	44.25662	-73.28307
		LTM 07	VT DEC	44.12600	-73.41283
		LTM 09	VT DEC	44.24217	-73.32917
		McKenna Dock, Essex NY	LCC Volunteer	44.30846	-73.34732
		McNeil Cove	LCC Volunteer	44.30205	-73.29917
		North Harbor	LCC Volunteer	44.19972	-73.35882
		Panton Shore North	LCC Volunteer	44.15354	-73.36426
		Port Henry Boat Launch	LCC Volunteer	44.05278	-73.45059
		Porter Bay	LCC Volunteer	44.22548	-73.31894
		Summer Point	LCC Volunteer	44.21825	-73.33801
		Town Farm Bay	LCC Volunteer	44.26916	-73.28875
		Tri-Town Road, West Addison	VDH	44.08538	-73.40791
		Westport Boat Launch	LCC Volunteer	44.18873	-73.43284
		Whallons Bay	LCC Volunteer	44.27326	-73.34614
	Malletts Bay	Camp Kiniya	LCC Volunteer	44.60644	-73.22908
		Clay Point	LCC Volunteer	44.59393	-73.23178
		LTM 25	VT DEC	44.58200	-73.28117
		Malletts Bay Boat Launch	LCC Volunteer	44.55416	-73.23100
		Marble Island Marina	LCC Volunteer	44.57144	-73.23112
		Niquette Bay State Park	LCC Volunteer	44.58129	-73.18889
		Rosetti Park	LCC Volunteer	44.55501	-73.25280
	Missisquoi Bay	Alburgh Springs	LCC Volunteer	44.99302	-73.21592
		Alburgh VT - shoreline	VDH	44.99135	-73.21596



Lake	Region	Station	Collector	Latitude	Longitude
Champlain	Missisquoi Bay	Chapman Bay	LCC Volunteer	45.00785	-73.21122
		Donaldson Point	LCC Volunteer	44.99320	-73.17530
		Highgate Cliffs	VT DEC	45.00823	-73.09962
		Highgate Springs	VT DEC	44.99177	-73.11338
		Larry Greene Fish and Wildlife Access	VT DEC	44.96945	-73.21646
		LTM 50	VT DEC	45.01333	-73.17383
		LTM 51	VT DEC	45.04167	-73.12967
		Mouth of the Rock River	VT DEC	44.99177	-73.11338
		North of Phillipsburg, QC	VT DEC	45.04496	-73.07968
		northeastern Missisquoi Bay	VT DEC	45.05939	-73.09341
		Phillipsburg, QC	LCC Volunteer	45.03906	-73.07869
		Rock River on St. Armand Rd	VT DEC	44.99710	-73.07264
		Shipyard, Highgate Springs	LCC Volunteer	44.98076	-73.10788
		southeastern Missisquoi bay	VT DEC	44.98416	-73.11761
		Venise, Quebec	VT DEC	45.06958	-73.13512
	South Lake	Allen Bay	LCC Volunteer	43.78301	-73.35396
		Lapham Bay	LCC Volunteer	43.92598	-73.39269
		LTM 02	VT DEC	43.71400	-73.38300
		LTM 04	VT DEC	43.95100	-73.40700
		Marlena Bay	LCC Volunteer	43.83921	-73.37053
		Ticonderoga Boat Launch	LCC Volunteer	43.85536	-73.38511
	St. Albans Bay	Ferrand Rd. St. Albans	LCC Volunteer	44.79171	-73.14254
		Georgia Beach	LCC Volunteer	44.76815	-73.16364
		Georgia Shore	LCC Staff, LCC volunteer	44.75883	-73.17935
		Kill Kare State Park	LCC Volunteer	44.77770	-73.18080
		LTM 40	VT DEC	44.78533	-73.16217
		St. Albans Bay Park	LCC Volunteer	44.80866	-73.14436
		St. Albans Boat Launch	LCC Volunteer, VT DEC	44.79372	-73.17143
Lake Carmi	Lake Carmi	Lake Carmi Area "A"	VDH	44.96081	-72.87674
		Lake Carmi Area "B"	VDH	44.96081	-72.87674
		Lake Carmi North	VDH	44.99046	-72.86978
		Lake Carmi State Park	VDH	44.96081	-72.87674
Lake Elmore	Lake Elmore	Lake Elmore State Park	VDH	44.54040	-72.52729
Lake Iroquois	Lake Iroquois	Lake Iroquois	VDH	44.37807	-73.08674
Lake Memphremagog	Lake Memphremagog	Lake Memphremagog	VDH	44.94501	-72.20998

## Appendix B. Visual assessment protocols

### B.1. On-line reporting form

Please use this form to report on water quality conditions with regard to algae on Lake Champlain.

Blue-green algae blooms can be easily confused with other natural phenomena. Please consult our guide to [Recognizing Blue Green Algae in Lake Champlain](#) before reporting a bloom. If there is a well developed bloom, avoid direct contact ([see VDOH link](#)).

Also, our [guide to categories of algae bloom intensity](#) and our [instructions for photographing algae blooms](#) will be helpful in filling out the form below.

The first six items in the form (up to 'Please choose the category') and your contact information (bottom of form) are the most important items. Other questions provide details for our information but are less critical.

#### Algae Report Form

Type of report ☒ Regular weekly ☐ Supplemental

Water body or section of Lake Champlain

Municipality of observation

Date of observation

Time of observation

Please choose the category (see links above) that best describes the intensity of any bloom present

- ☒ 1a - Little or no blue-green algae present - clear water
- ☐ 1b - Little or no blue-green algae present - brown or turbid water
- ☐ 1c - Little or no blue-green algae present - other material present
- ☐ 2 - Blue-green algae present -less than bloom levels (include photos)
- ☐ 3 - Blue-green algae bloom in process (include photos)

Photo - water surface close-up

Photo - water surface broad view

Photo - water sample in clear container

Extent of algae bloom on open water (Evaluate the area within 100 yards of where you are).

- ☐ Coverage greater than 75%
- ☐ Between 50 and 75% cover
- ☐ <50% cover
- ☐ Very limited
- ☐ No bloom
- ☐ Unknown
- ☐ Not Applicable

Algae Color

- ☐ Green
- ☐ Turquoise
- ☐ Reddish
- ☐ Yellow
- ☐ None
- ☐ Other (add details below)

Has the bloom disappeared since the observation noted above?

- ☐ Yes
- ☐ No
- ☐ I don't know

If known, date of disappearance

Other details

▲

▼

◀

▶

Please provide the most accurate location information you can - e.g. GPS coordinates, precise street address, name

of the bay, etc.



Water temperature

Wind direction

Into shore



Water Surface

Calm



Name

Email

Address



Telephone

## B.2. Determining Algae Bloom Intensity

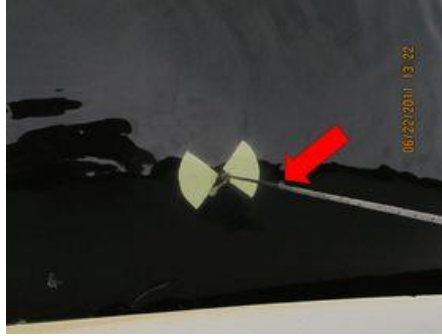
### General Instructions

Observations should be made at the same location once per week. Observations must be made between 10:00 AM and 3:00 PM. At that time the algae have had a chance to rise from lower in the water column, but cells are not yet likely to have ruptured from the heat of mid-day. Only observations [submitted online by noon on Wednesday](#) will be included in the weekly report. Anyone providing reports should include information on the extent and type of algae and plant growth, the color of the water, and rate the algae intensity. The rating scale runs from one (a, b, or c) to three, with one being clear water with little to no blue-green algae present and three being a blue-green algae bloom in progress.

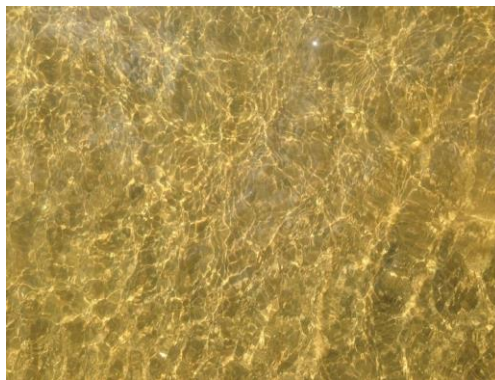
For [category 2](#) and [3](#) conditions, three digital photographs should be submitted via the [online form](#). Remember to avoid direct contact if the bloom is well developed.

### Category 1a: Little to no blue-green algae present - clear water

Any organisms floating in water column are clear (e.g. insect 'skins') rather than green. Leafy or grass-like plants (including duckweed) may be present. Foam may be present.



**Objects sitting lower in the water column are clearly visible (red arrow indicates water surface)**



**Overall appearance of water is clear**

**Category 1b - Little to no blue-green algae present - brown and turbid**

Brown turbid low visibility through water column



**Category 1c - Little to no blue-green algae present - other material**

Other material that doesn't count as blue-green algae might include:

- Long strands that tangle around paddles or boat hooks
- Small bright mustard yellow (pollen) or grass green (duckweed) particles
- Algae attached to rocks or the lake bottom.



**Green dots are duckweed; stringy algae are not blue-green algae**



**From a distance duckweed can look like algae**



**Stringy algae attached to the bottom are not blue-greens**



Duckweed up close

#### Category 1d - Little blue-green algae present - enjoyment of water not impaired

Green floating balls may be visible, but only on close inspection and in densities so low that they do not impair recreational enjoyment of the water. There are no surface or near shore accumulations of blue-green algae.



Water appears perfectly clear

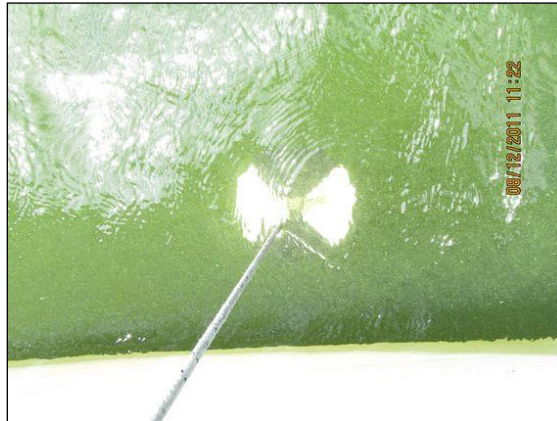


But close inspection shows some blue-green algae present



**Category 2: Blue-green algae present, but at less than 'bloom' levels**

Numerous green balls (pinhead size or larger) floating in water column, but not accumulated at water surface. Possible small (smaller than a softball) patches of algae accumulation. Open water color **not** green. Possible narrow band of algae accumulation at shoreline.



**Some algae in water but not a uniform layer**



**Open water not green.**





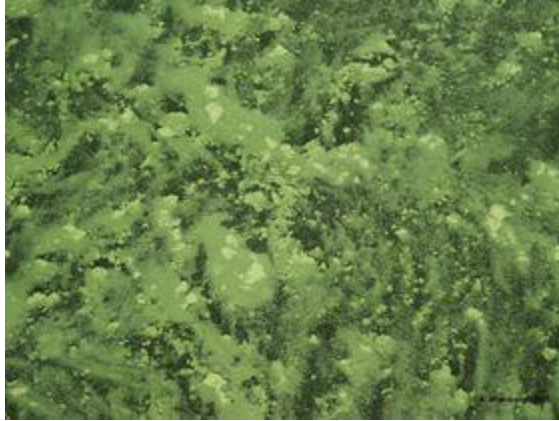
**Possible narrow band of algae at shoreline**

**Category 3: Blue-green algae bloom in progress**

Extensive surface scum on water – color may range from green to electric blue (not yellow/pollen). Usually accompanied by a thick accumulation at shoreline. Open water appears green.



**Continuous layer of algae at the surface - not stringy**



**Thick surface scum present**



**Open water surface green to turquoise**

### **B.3. Guidelines for Photographic Documentation**

#### **Instructions for Photographing Algae Blooms**

Please take digital photographs of the water when [category 2 or 3 bloom conditions](#) are observed.

We need three photographs:

1. A close-up of the water surface,
2. A broad view of water in the vicinity, and

3. A close-up of a water sample in a clear container and placed against a background that provides contrast such as a sheet of paper or a light-colored wall. Darker colors provide more contrast.



**1. Use your camera's date stamp, or hold up a card in the photo with time, date, and location.**



**2. Photograph both a close-up and a broad view.**



**3. For close-ups, take a sample of water in a clear container and photograph against a contrasting background. Over about 1/2 hour algae will rise toward the surface; detritus will sink.**

When collecting a water sample to photograph take care to avoid exposure to blue-green algae. Wear gloves, don't wade or immerse yourself in the water and wash any exposed portions of your body immediately after collecting the sample.

All photographs should include the time, date, and location. This information can be added by using the date stamp in your camera or by holding a piece of paper with the

relevant information in the picture. Name the photograph file using the year, month, day-photographer's name-location-photo type.

Example file name: 2012-07-15\_MWinslow\_DonaldsonPt\_Closeup

## Appendix C. 2014 Assessment Data

Data are available on-line through the VT Department of Health's Environmental Tracking Portal - [https://apps.health.vermont.gov/gis/VTTracking/BlueGreenAlgae/2014Summary/BGA2014\\_SeasonSummary.xls](https://apps.health.vermont.gov/gis/VTTracking/BlueGreenAlgae/2014Summary/BGA2014_SeasonSummary.xls)

Shaded areas indicate analyses that are not relevant to the record.

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	8/8/2014	Burton Island	Visual	Supplemental	2				
		6/17/2014	Cedar Ledge	Visual	Routine - Weekly	1a				
		6/24/2014	Cedar Ledge	Visual	Routine - Weekly	1a				
		7/1/2014	Cedar Ledge	Visual	Routine - Weekly	1a				
		7/7/2014	Cedar Ledge	Visual	Routine - Weekly	1a				
		7/21/2014	Cedar Ledge	Visual	Routine - Weekly	1a				
		7/29/2014	Cedar Ledge	Visual	Routine - Weekly	1a				
		8/5/2014	Cedar Ledge	Visual	Routine - Weekly	1a				
		8/19/2014	Cedar Ledge	Visual	Routine - Weekly	1d				
		8/26/2014	Cedar Ledge	Visual	Routine - Weekly	1a				
		9/8/2014	Cedar Ledge	Visual	Routine - Weekly	1a				
		9/22/2014	Cedar Ledge	Visual	Supplemental	1a				
		6/17/2014	City Bay - Rt 2	Visual	Routine - Weekly	1a				
		6/24/2014	City Bay - Rt 2	Visual	Routine - Weekly	1a				
		7/1/2014	City Bay - Rt 2	Visual	Routine - Weekly	1a				
		7/7/2014	City Bay - Rt 2	Visual	Routine - Weekly	1a				
		7/21/2014	City Bay - Rt 2	Visual	Routine - Weekly	1a				
		7/29/2014	City Bay - Rt 2	Visual	Routine - Weekly	1a				
		8/5/2014	City Bay - Rt 2	Visual	Routine - Weekly	1a				
		8/19/2014	City Bay - Rt 2	Visual	Routine - Weekly	1d				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	8/26/2014	City Bay - Rt 2	Visual	Routine - Weekly	1a				
		9/8/2014	City Bay - Rt 2	Visual	Routine - Weekly	1a				
		9/22/2014	City Bay - Rt 2	Visual	Routine - Weekly	1a				
		6/23/2014	Grand Isle State Park	Visual	Routine - Weekly	1a				
		7/1/2014	Grand Isle State Park	Visual	Routine - Weekly	1a				
		7/8/2014	Grand Isle State Park	Visual	Routine - Weekly	1d				
		7/15/2014	Grand Isle State Park	Visual	Routine - Weekly	1a				
		7/22/2014	Grand Isle State Park	Visual	Routine - Weekly	1a				
		7/28/2014	Grand Isle State Park	Visual	Routine - Weekly	1a				
		8/13/2014	Grand Isle State Park	Visual	Routine - Weekly	1a				
		8/18/2014	Grand Isle State Park	Visual	Routine - Weekly	1a				
		8/28/2014	Grand Isle State Park	Visual	Routine - Weekly	1a				
		6/16/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1a				
		6/25/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1a				
		6/29/2014	Keeler Bay Boat Launch	Visual	Supplemental	1a				
		7/1/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1c				
		7/6/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1a				
		7/9/2014	Keeler Bay Boat Launch	Visual	Supplemental	1a				
		7/13/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1a				
		7/15/2014	Keeler Bay Boat Launch	Visual	Supplemental	1b				
		7/20/2014	Keeler Bay Boat Launch	Visual	Supplemental	1a				
		7/20/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1b				
		7/30/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1b				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	8/3/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1a				
		8/6/2014	Keeler Bay Boat Launch	Visual	Supplemental	1a				
		8/10/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1a				
		8/13/2014	Keeler Bay Boat Launch	Visual	Supplemental	1b				
		8/17/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1a				
		8/20/2014	Keeler Bay Boat Launch	Visual	Supplemental	1a				
		8/24/2014	Keeler Bay Boat Launch	Visual	Supplemental	1a				
		8/26/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1b				
		8/31/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1a				
		9/7/2014	Keeler Bay Boat Launch	Visual	Routine - Weekly	1a				
		9/10/2014	Keeler Bay Boat Launch	Visual	Supplemental	1a				
		9/14/2014	Keeler Bay Boat Launch	Visual	Supplemental	1a				
		9/16/2014	Keeler Bay Boat Launch	Visual	Supplemental	1b				
		9/24/2014	Keeler Bay Boat Launch	Visual	Supplemental	1a				
		6/16/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		6/23/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		7/1/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		7/7/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		7/15/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		7/21/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		7/30/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		8/6/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		8/11/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		8/19/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		8/25/2014	Keeler Bay East	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	9/1/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		9/8/2014	Keeler Bay East	Visual	Routine - Weekly	1a				
		9/15/2014	Keeler Bay East	Visual	Supplemental	1a				
		9/22/2014	Keeler Bay East	Visual	Supplemental	1a				
		6/23/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		6/30/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1c	0	no cyanobacteria observed	<0.16	<0.5
		7/7/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1c	0	no cyanobacteria observed	<0.16	<0.5
		7/14/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		7/21/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1c	0	no cyanobacteria observed	<0.16	<0.5
		7/28/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1b	0		0.28	<0.5
		8/4/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1c	0		<0.16	<0.5
		8/11/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1c	0	Romeria, unidentified cyanobacteria cells	<0.16	< 0.5
		8/18/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1c	0	unidentified cyanobacteria cells and trichomes	<0.16	< 0.5
		8/25/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1c	0		<0.16	< 0.5
		9/2/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1a	0		< 0.16	< 0.5
		9/8/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1a	0		< 0.16	< 1.0
		9/15/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	< 0.5
		9/22/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	< 0.16	< 0.5
		9/29/2014	Keeler Bay, South Hero	Visual/Tiered Alert	Routine - Weekly	1c	0		<0.16	< 0.5
		6/23/2014	Knight Island	Visual	Routine - Weekly	1a				
		7/2/2014	Knight Island	Visual	Routine - Weekly	1a				
		7/6/2014	Knight Island	Visual	Routine - Weekly	1a				
		7/14/2014	Knight Island	Visual	Routine - Weekly	1a				



Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	7/21/2014	Knight Island	Visual	Routine - Biweekly	1a				
		7/29/2014	Knight Island	Visual	Routine - Weekly	1a				
		8/4/2014	Knight Island	Visual	Routine - Weekly	1a				
		8/11/2014	Knight Island	Visual	Routine - Weekly	1a				
		8/18/2014	Knight Island	Visual	Routine - Weekly	1a				
		8/25/2014	Knight Island	Visual	Routine - Weekly	1a				
		9/1/2014	Knight Island	Visual	Routine - Weekly	1a				
		9/8/2014	Knight Island	Visual	Routine - Weekly	1a				
		9/15/2014	Knight Island	Visual	Supplemental	1a				
		6/19/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		6/23/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		6/30/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		7/7/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		7/14/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		7/21/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		7/28/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		8/4/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		8/11/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		8/18/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		8/23/2014	Knight Point State Park	Visual	Supplemental	1d				
		8/25/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		9/1/2014	Knight Point State Park	Visual	Routine - Weekly	1a				
		6/6/2014	LTM 34	Tiered Alert	Routine - Biweekly	Qualitative	0	No cyanobacteria observed	not tested	not tested

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	6/27/2014	LTM 34	Tiered Alert	Routine - Biweekly	Quantitative	4	Anabaena	not tested	not tested
		7/17/2014	LTM 34	Tiered Alert	Routine - Biweekly	Quantitative	5	Anabaena	not tested	not tested
		8/6/2014	LTM 34	Tiered Alert	Routine - Biweekly	Quantitative	51	Anabaena, Microcystis	not tested	not tested
		8/19/2014	LTm 34	Tiered Alert	Routine - Biweekly	Quantitative	208	Anabaena, Aphanizomenon	not tested	not tested
		9/8/2014	LTM 34	Tiered Alert	Routine - Biweekly	Quantitative	36	Anabaena, Aphanizomenon, Microcystis	not tested	not tested
		6/16/2014	Maquam Bay	Visual	Routine - Weekly	1c				
		6/23/2014	Maquam Bay	Visual	Routine - Weekly	1a				
		6/30/2014	Maquam Bay	Visual	Routine - Weekly	1a				
		7/8/2014	Maquam Bay	Visual	Routine - Weekly	1a				
		7/16/2014	Maquam Bay	Visual	Routine - Weekly	1a				
		7/22/2014	Maquam Bay	Visual	Routine - Weekly	1c				
		7/30/2014	Maquam Bay	Visual	Routine - Weekly	1a				
		8/6/2014	Maquam Bay	Visual	Routine - Weekly	1c				
		8/12/2014	Maquam Bay	Visual	Routine - Weekly	1c				
		8/19/2014	Maquam Bay	Visual	Routine - Weekly	1d				
		8/26/2014	Maquam Bay	Visual	Routine - Weekly	1d				
		9/2/2014	Maquam Bay	Visual	Routine - Weekly	1a				
		9/9/2014	Maquam Bay	Visual	Routine - Weekly	1d				
		6/16/2014	Maquam Beach	Visual	Routine - Weekly	1a				
		6/26/2014	Maquam Beach	Visual	Routine - Weekly	1b				
		7/7/2014	Maquam Beach	Visual	Routine - Weekly	1b				
		7/14/2014	Maquam Beach	Visual	Routine - Weekly	1d				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	7/21/2014	Maquam Beach	Visual	Routine - Weekly	1d				
		7/28/2014	Maquam Beach	Visual	Routine - Weekly	1d				
		8/4/2014	Maquam Beach	Visual	Routine - Weekly	1b				
		8/11/2014	Maquam Beach	Visual	Routine - Weekly	1b				
		8/18/2014	Maquam Beach	Visual	Routine - Weekly	1d				
		8/26/2014	Maquam Beach	Visual	Routine - Weekly	1b				
		9/2/2014	Maquam Beach	Visual	Routine - Weekly	1a				
		9/8/2014	Maquam Beach	Visual	Routine - Weekly	1a				
		6/23/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		6/30/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1b	0	no cyanobacteria observed	<0.16	<0.5
		7/7/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1c	0	unidentified cyanobacteria trichome	<0.16	<0.5
		7/14/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/21/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1b	0	no cyanobacteria observed	<0.16	<0.5
		7/28/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1b	0	no cyanobacteria observed	<0.16	<0.5
		8/4/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1c	80	anabaena	<0.16	<0.5
		8/11/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1c	480	Aphanothece	<0.16	<0.5
		8/18/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1c	1170	Anabaena, Aphanothece	<0.16	<0.5
		8/25/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1a	1160	Anabaena	<0.16	<0.5
		9/2/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		9/8/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<1.0
		9/15/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1a	89	Anabaena	<0.16	<0.5
		9/22/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	9/29/2014	Maquam Shore Road, Swanton	Visual/Tiered Alert	Routine - Weekly	1a	0		< 0.16	<0.5
		6/16/2014	Marycrest Beach	Visual	Routine - Weekly	1d				
		6/25/2014	Marycrest Beach	Visual	Routine - Weekly	1a				
		7/1/2014	Marycrest Beach	Visual	Routine - Weekly	1b				
		7/9/2014	Marycrest beach	Visual	Routine - Weekly	1a				
		7/15/2014	Marycrest Beach	Visual	Routine - Weekly	1a				
		7/20/2014	Marycrest Beach	Visual	Routine - Weekly	1a				
		7/30/2014	Marycrest Beach	Visual	Routine - Weekly	1c				
		8/6/2014	Marycrest Beach	Visual	Routine - Weekly	1a				
		8/13/2014	Marycrest Beach	Visual	Routine - Weekly	1a				
		8/20/2014	Marycrest Beach	Visual	Routine - Weekly	1d				
		8/26/2014	Marycrest Beach	Visual	Routine - Weekly	1d				
		9/10/2014	Marycrest Beach	Visual	Routine - Weekly	1a				
		9/16/2014	Marycrest Beach	Visual	Supplemental	1a				
		9/24/2014	Marycrest Beach	Visual	Supplemental	1a				
		6/16/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		6/23/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1a	533	Aphanothece	<0.16	<0.5
		6/30/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1a	0	unidentified cyanobacteria cells	<0.16	<0.5
		7/7/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		7/11/2014	North Hero State Park	Visual/Tiered Alert	Supplemental	1a				
		7/14/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/21/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1a		no cyanobacteria observed	<0.16	<0.5
		7/28/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	8/4/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1a	667	aphanothece	<0.16	<0.5
		8/11/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1a	7140	Anabaena, Aphanothece	<0.16	< 0.5
		8/18/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1d	0		<0.16	<0.5
		8/25/2014	North Hero State Park	Visual/Tiered Alert	Routine - Weekly	1a	376	Anabaena	<0.16	<0.5
		7/3/2014	Pelots Bay	Visual	Routine - Weekly	1a				
		7/5/2014	Pelots Bay	Visual	Routine - Weekly	1a				
		7/22/2014	Pelots Bay	Visual	Routine - Weekly	1a				
		8/11/2014	Pelots Bay	Visual	Routine - Weekly	1a				
		8/19/2014	Pelots Bay	Visual	Routine - Weekly	1a				
		8/25/2014	Pelots Bay	Visual	Routine - Weekly	2				
		9/2/2014	Pelots Bay	Visual	Routine - Weekly	2				
		9/9/2014	Pelots Bay	Visual	Routine - Weekly	2				
		9/29/2014	Pelots Bay	Visual	Supplemental	1c				
		7/3/2014	Sand Bar State Park	Visual	Routine - Weekly	1a				
		7/9/2014	Sand Bar State Park	Visual	Routine - Weekly	1a				
		7/16/2014	Sand Bar State Park	Visual	Routine - Weekly	1a				
		7/22/2014	Sand Bar State Park	Visual	Routine - Weekly	1a				
		7/29/2014	Sand Bar State Park	Visual	Routine - Weekly	1c				
		8/5/2014	Sand Bar State Park	Visual	Routine - Weekly	1c				
		8/12/2014	Sand Bar State Park	Visual	Routine - Weekly	1c				
		8/19/2014	Sand Bar State Park	Visual	Routine - Weekly	1c				
		8/26/2014	Sand Bar State Park	Visual	Routine - Weekly	1c				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	6/15/2014	South Hero Fish and Wildlife Boat Access	Visual	Supplemental	1a				
		7/3/2014	South Hero Fish and Wildlife Boat Access	Visual	Supplemental	1a				
		6/23/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		6/30/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/7/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1c	0	no cyanobacteria observed	<0.16	<0.5
		7/14/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/21/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/28/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1b	35300	Oscillatoria	<0.16	<0.5
		8/4/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1c	53	Anabaena	<0.16	<0.5
		8/11/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1c	2670	Aphanothece	<0.16	<0.5
		8/18/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1c	0	no cyanobacteria observed	<0.16	<0.5
		8/25/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1a	1860	aphanothece	<0.16	<0.5
		9/2/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1a	355	Aphanizomenon, Aphanothece	< 0.16	<0.5
		9/8/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1a	533	unidentified Oscillatoriaceae	<0.16	<1.0
		9/15/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		9/22/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1a	267	Aphanothece	< 0.16	<0.5
		9/29/2014	Stephenson Point Fish and Wildlife Access	Visual/Tiered Alert	Routine - Weekly	1d	3150	Anabaena	<0.16	<0.5
		6/19/2014	The Gut	Visual	Routine - Weekly	1b				
		6/26/2014	The Gut	Visual	Routine - Weekly	1b				
		7/5/2014	The Gut	Visual	Routine - Weekly	1b				
		7/10/2014	The Gut	Visual	Routine - Weekly	1a				
		7/16/2014	The Gut	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Inland Sea	7/25/2014	The Gut	Visual	Routine - Weekly	1a				
		7/30/2014	The Gut	Visual	Routine - Weekly	1a				
		8/7/2014	The Gut	Visual	Routine - Weekly	1a				
		8/20/2014	The Gut	Visual	Routine - Weekly	1a				
		8/26/2014	The Gut	Visual	Routine - Weekly	1a				
		9/4/2014	The Gut	Visual	Routine - Weekly	1a				
		9/10/2014	The Gut	Visual	Routine - Weekly	1a				
		9/17/2014	The Gut	Visual	Routine - Weekly	1a				
		9/26/2014	The Gut	Visual	Routine - Weekly	1a				
		6/23/2014	Woods Island	Visual	Routine - Weekly	1c				
		7/2/2014	Woods Island	Visual	Routine - Weekly	1a				
		7/6/2014	Woods Island	Visual	Routine - Weekly	1a				
		7/14/2014	Woods Island	Visual	Routine - Weekly	1a				
		7/21/2014	Woods Island	Visual	Routine - Weekly	1a				
		7/29/2014	Woods Island	Visual	Routine - Weekly	1a				
		8/4/2014	Woods Island	Visual	Routine - Weekly	1a				
		8/11/2014	Woods Island	Visual	Routine - Weekly	1a				
		8/18/2014	Woods Island	Visual	Routine - Weekly	1b				
		8/25/2014	Woods Island	Visual	Routine - Weekly	1c				
		8/31/2014	Woods Island	Visual	Routine - Weekly	1c				
		9/8/2014	Woods Island	Visual	Routine - Weekly	1a				
	Main Lake Central	6/14/2014	Ausable Beach State Park	Visual	Supplemental	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	6/21/2014	Ausable Beach State Park	Visual	Routine - Weekly	1a				
		6/28/2014	Ausable Beach State Park	Visual	Routine - Weekly	1a				
		7/5/2014	Ausable Beach State Park	Visual	Routine - Weekly	1b				
		7/12/2014	Ausable Beach State Park	Visual	Routine - Weekly	1a				
		7/19/2014	Ausable Beach State Park	Visual	Routine - Weekly	1a				
		7/26/2014	Ausable Beach State Park	Visual	Routine - Weekly	1a				
		8/2/2014	Ausable Beach State Park	Visual	Routine - Weekly	1a				
		8/9/2014	Ausable Beach State Park	Visual	Routine - Weekly	1a				
		8/16/2014	Ausable Beach State Park	Visual	Routine - Weekly	1a				
		8/23/2014	Ausable Beach State Park	Visual	Routine - Weekly	1a				
		8/30/2014	Ausable Beach State Park	Visual	Routine - Weekly	1b				
		6/16/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				
		6/23/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				
		6/30/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				
		7/8/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				
		7/14/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				
		7/21/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				
		7/28/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				
		8/5/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				
		8/11/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				
		8/26/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				
		9/2/2014	Buena Vista Park, Willsboro NY	Visual	Routine - Weekly	1a				



Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	7/4/2014	Charlotte Town Beach	Visual	Routine - Weekly	1a				
		7/12/2014	Charlotte Town Beach	Visual	Routine - Weekly	1a				
		7/30/2014	Charlotte Town Beach	Visual	Routine - Weekly	1a				
		8/4/2014	Charlotte Town Beach	Visual	Routine - Weekly	1a				
		8/12/2014	Charlotte Town Beach	Visual	Routine - Weekly	1a				
		8/20/2014	Charlotte Town Beach	Visual	Routine - Weekly	1a				
		8/26/2014	Charlotte Town Beach	Visual	Routine - Weekly	1a				
		9/1/2014	Charlotte Town Beach	Visual	Routine - Weekly	1a				
		9/16/2014	Charlotte Town Beach	Visual	Supplemental	1a				
		6/19/2014	Community Sailing Center	Visual	Routine - Weekly	1a				
		6/24/2014	Community Sailing Center	Visual	Routine - Weekly	1a				
		7/3/2014	Community Sailing Center	Visual	Routine - Weekly	1b				
		7/9/2014	Community Sailing Center	Visual	Routine - Weekly	1a				
		7/17/2014	Community Sailing Center	Visual	Routine - Weekly	1a				
		7/23/2014	Community Sailing Center	Visual	Routine - Weekly	1a				
		8/12/2014	Community Sailing Center	Visual	Routine - Weekly	1a				
		8/19/2014	Community Sailing Center	Visual	Routine - Weekly	1a				
		6/30/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Routine - Weekly	1a				
		7/2/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1a				
		7/5/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1a				
		7/6/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Routine - Weekly	1a				
		7/8/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	7/12/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1a				
		7/15/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1a				
		7/19/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Routine - Weekly	1a				
		7/23/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1a				
		7/26/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1a				
		7/29/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Routine - Weekly	1a				
		8/4/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Routine - Weekly	1a				
		8/12/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Routine - Weekly	1a				
		8/16/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1a				
		8/19/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Routine - Weekly	1a				
		8/26/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Routine - Weekly	1a				
		8/30/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1b				
		9/2/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Routine - Weekly	1a				
		9/9/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Routine - Weekly	1a				
		9/16/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1a				
		9/23/2014	Corlear Bay, Port Douglas Boat Launch	Visual	Supplemental	1a				
		6/21/2014	LaPlatte River mouth, Shelburne Bay	Visual	Routine - Weekly	1b				
		6/29/2014	LaPlatte River mouth, Shelburne Bay	Visual	Supplemental	1b				
		7/1/2014	LaPlatte River mouth, Shelburne Bay	Visual	Routine - Weekly	1b				
		7/4/2014	LaPlatte River mouth, Shelburne Bay	Visual	Supplemental	1b				
		7/5/2014	LaPlatte River mouth, Shelburne Bay	Visual	Supplemental	1b				
		7/6/2014	LaPlatte River mouth, Shelburne Bay	Visual	Routine - Weekly	1b				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	7/8/2014	LaPlatte River mouth, Shelburne Bay	Visual	Supplemental	1a				
		7/12/2014	LaPlatte River mouth, Shelburne Bay	Visual	Supplemental	1b				
		7/13/2014	LaPlatte River mouth, Shelburne Bay	Visual	Routine - Weekly	1b				
		7/14/2014	LaPlatte River mouth, Shelburne Bay	Visual	Supplemental	1b				
		7/16/2014	LaPlatte River mouth, Shelburne Bay	Visual	Supplemental	1a				
		7/19/2014	LaPlatte River mouth, Shelburne Bay	Visual	Supplemental	1d				
		7/20/2014	LaPlatte River mouth, Shelburne Bay	Visual	Routine - Weekly	1b				
		7/23/2014	LaPlatte River mouth, Shelburne Bay	Visual	Supplemental	1a				
		7/30/2014	LaPlatte River mouth, Shelburne Bay	Visual	Routine - Weekly	1c				
		8/2/2014	LaPlatte River mouth, Shelburne Bay	Visual	Supplemental	1b				
		8/3/2014	LaPlatte River mouth, Shelburne Bay	Visual	Routine - Weekly	1b				
		8/13/2014	LaPlatte River mouth, Shelburne Bay	Visual	Routine - Weekly	1a				
		8/28/2014	LaPlatte River mouth, Shelburne Bay	Visual	Routine - Weekly	1a				
		6/15/2014	Leddy Park	Visual	Routine - Weekly	1a				
		6/26/2014	Leddy Park	Visual	Routine - Weekly	1a				
		7/1/2014	Leddy Park	Visual	Routine - Weekly	1a				
		7/8/2014	Leddy Park	Visual	Routine - Weekly	1b				
		7/13/2014	Leddy Park	Visual	Routine - Weekly	1a				
		7/20/2014	Leddy Park	Visual	Routine - Weekly	1a				
		7/26/2014	Leddy Park	Visual	Supplemental	1a				
		8/2/2014	Leddy Park	Visual	Routine - Weekly	1a				
		8/10/2014	Leddy Park	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	8/17/2014	Leddy Park	Visual	Routine - Weekly	1a				
		8/24/2014	Leddy Park	Visual	Routine - Weekly	1a				
		9/1/2014	Leddy Park	Visual	Routine - Weekly	1a				
		9/7/2014	Leddy Park	Visual	Routine - Weekly	1a				
		9/14/2014	Leddy Park	Visual	Supplemental	1a				
		9/21/2014	Leddy Park	Visual	Supplemental	1a				
		9/27/2014	Leddy Park	Visual	Supplemental	2				
		9/28/2014	Leddy Park	Visual	Supplemental	1a				
		6/16/2014	LTM 16	Tiered Alert	Routine - Biweekly	Qualitative	0	Anabaena, Aphanizomenon, Woronichinia/Coelosphaeri	not tested	not tested
		7/9/2014	LTM 16	Tiered Alert	Routine - Biweekly	Quantitative	0	Anabaena, woronichinia/ coelosphaerium		
		7/30/2014	LTM 16	Tiered Alert	Routine - Biweekly	Quantitative	14	Anabaena	not tested	not tested
		8/11/2014	LTM 16	Tiered Alert	Routine - Biweekly	Quantitative	136	Anabaena, Aphanothece, Woronichinia/Coelosphaerium	not tested	not tested
		6/16/2014	LTM 19	Tiered Alert	Routine - Biweekly	Qualitative	0	Aphanizomenon	not tested	not tested
		7/30/2014	LTM 19	Tiered Alert	Routine - Biweekly	Quantitative	8	Anabaena, Aphanizomenon	not tested	not tested
		8/11/2014	LTM 19	Tiered Alert	Routine - Biweekly	Quantitative	104	Anabaena, Aphanothece	not tested	not tested
		6/16/2014	LTM 21	Tiered Alert	Routine - Biweekly	Qualitative	0	Anabaena, Aphanizomenon	not tested	not tested
		7/9/2014	LTM 21	Tiered Alert	Routine - Biweekly	Quantitative	9	Anabaena	not tested	not tested
		7/30/2014	LTM 21	Tiered Alert	Routine - Biweekly	Quantitative	76	Anabaena	not tested	not tested
		8/11/2014	LTM 21	Tiered Alert	Routine - Biweekly	Quantitative	229	Anabaena, Aphanizomenon, Aphanothece	not tested	not tested
		6/5/2014	LTM 33	Tiered Alert	Routine - Biweekly	Qualitative	0	Aphanizomenon	not tested	not tested
		7/3/2014	LTM 33	Tiered Alert	Routine - Biweekly	Quantitative	32	Anabaena	not tested	not tested
		7/25/2014	LTM 33	Tiered Alert	Routine - Biweekly	Quantitative	26	Anabaena, Woronichinia/Coelosphaerium	not tested	not tested
		8/15/2014	LTM 33	Tiered Alert	Routine - Biweekly	Quantitative	69	Anabaena, Aphanizomenon, Aphanothece, Woronichinia	not tested	not tested

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	8/29/2014	LTM 33	Tiered Alert	Routine - Biweekly	Quantitative	12	Anabaena, Woronichinia/Coelosphaerium	not tested	not tested
		6/17/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1c	not sampled		not tested	not tested
		6/24/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	0	No Cyanobacteria Observed	<0.16	<0.5
		7/1/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	40	anabaena	<0.16	<0.5
		7/8/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	613	Anabaena	0.19	<0.5
		7/15/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	333	Anabaena	<0.16	<0.5
		7/22/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1c	80	Anabaena	<0.16	<0.5
		7/29/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		8/5/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	2880	Anabaena	<0.16	<0.5
		8/12/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	1010	Anabaena, Oscillatoria	<0.16	< 0.5
		8/20/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	3970	Anabaena	<0.16	<0.5
		8/26/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	2480	Anabaena	< 0.16	<0.5
		9/2/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		9/9/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	2110	Anabaena, Aphanizomenon, Aphanothece	< 0.16	<0.5
		9/16/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	1200	Anabaena	<0.16	<0.5
		9/23/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		9/30/2014	North Beach	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		6/12/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		6/17/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		6/24/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		7/2/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		7/7/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	7/16/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		7/22/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		7/28/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		8/5/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		8/11/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		8/20/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		8/25/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		9/2/2014	Oakledge Park Blanchard Beach	Visual	Routine - Weekly	1a				
		9/29/2014	Oakledge Park Blanchard Beach	Visual	Supplemental	1a				
		6/12/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		6/17/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		6/26/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		7/2/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		7/7/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		7/16/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		7/22/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		7/28/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		8/5/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		8/11/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1d				
		8/20/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		8/25/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				
		9/2/2014	Oakledge Park rocky shoreline	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	9/29/2014	Oakledge Park rocky shoreline	Visual	Supplemental	1a				
		6/12/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		6/17/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		6/24/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		7/2/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		7/7/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		7/16/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		7/22/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		7/28/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		8/5/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		8/11/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		8/20/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		8/25/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		9/2/2014	Oakledge Park South Cove	Visual	Routine - Weekly	1a				
		9/29/2014	Oakledge Park South Cove	Visual	Supplemental	1a				
		6/21/2014	Peru Boat Launch	Visual	Supplemental	1a				
		6/30/2014	Peru Boat Launch	Visual	Supplemental	1a				
		7/6/2014	Peru Boat Launch	Visual	Supplemental	1a				
		7/7/2014	Peru Boat Launch	Visual	Supplemental	1a				
		7/11/2014	Peru Boat Launch	Visual	Supplemental	1a				
		7/13/2014	Peru Boat Launch	Visual	Supplemental	1a				
		7/24/2014	Peru Boat Launch	Visual	Supplemental	1a				
		6/15/2014	Plattsburgh Boat Launch	Visual	Supplemental	1c				
		6/29/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1b				
		7/6/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1c				
		7/13/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1b				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	7/20/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1b				
		7/26/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1a				
		8/3/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1a				
		8/10/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1c				
		8/17/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1b				
		8/23/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1c				
		9/9/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1a				
		9/17/2014	Plattsburgh Boat Launch	Visual	Routine - Weekly	1a				
		6/23/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1a				
		6/29/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1a				
		6/30/2014	Plattsburgh City Beach	Visual	Supplemental	1a				
		7/6/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1b				
		7/8/2014	Plattsburgh City Beach	Visual	Supplemental	1a				
		7/13/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1a				
		7/20/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1a				
		7/22/2014	Plattsburgh City Beach	Visual	Supplemental	1a				
		7/26/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1a				
		8/3/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1a				
		8/4/2014	Plattsburgh City Beach	Visual	Supplemental	1a				
		8/10/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1b				
		8/17/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1b				
		8/24/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1a				
		8/30/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1a				



Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	9/9/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1b				
		9/17/2014	Plattsburgh City Beach	Visual	Routine - Weekly	1b				
		9/25/2014	Point Bay Marina	Visual	Supplemental	2				
		9/29/2014	Point Bay Marina	Visual	Supplemental	2				
		10/2/2014	Point Bay Marina	Visual	Supplemental	3				
		7/8/2014	Port Kent Beach	Visual	Supplemental	1a				
		7/15/2014	Port Kent Beach	Visual	Routine - Weekly	1a				
		7/23/2014	Port Kent Beach	Visual	Routine - Weekly	1a				
		7/29/2014	Port Kent Beach	Visual	Routine - Weekly	1a				
		8/4/2014	Port Kent Beach	Visual	Routine - Weekly	1a				
		8/12/2014	Port Kent Beach	Visual	Routine - Weekly	1a				
		8/19/2014	Port Kent Beach	Visual	Routine - Weekly	1a				
		8/26/2014	Port Kent Beach	Visual	Routine - Weekly	1a				
		9/2/2014	Port Kent Beach	Visual	Routine - Weekly	1a				
		9/9/2014	Port Kent Beach	Visual	Routine - Weekly	1a				
		9/16/2014	Port Kent Beach	Visual	Routine - Weekly	1a				
		9/23/2014	Port Kent Beach	Visual	Supplemental	1a				
		6/13/2014	Quaker Smith Point	Visual	Supplemental	1a				
		6/19/2014	Quaker Smith Point	Visual	Routine - Weekly	1a				
		6/28/2014	Quaker Smith Point	Visual	Routine - Weekly	1d				
		7/9/2014	Quaker Smith Point	Visual	Routine - Weekly	1b				
		7/16/2014	Quaker Smith Point	Visual	Routine - Weekly	1a				
		7/30/2014	Quaker Smith Point	Visual	Routine - Weekly	1a				
		8/6/2014	Quaker Smith Point	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	8/12/2014	Quaker Smith Point	Visual	Routine - Weekly	1b				
		6/16/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1a	82	Anabaena	<0.16	<0.5
		6/23/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/1/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1b	0		<0.16	<0.5
		7/7/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1b	173	Anabaena	<0.16	<0.5
		7/13/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1b	0	no cyanobacteria observed	<0.16	<0.5
		7/21/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1b	0		<0.16	<0.5
		7/28/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		8/5/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1a	762	Oscillatoria	<0.16	<0.5
		8/12/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1a	2090	Anabaena	<0.16	<0.5
		8/20/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1a	4920	Anabaena	<0.16	<0.5
		8/26/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1a	2080	Anabaena, Gloeotrichia	<0.16	<0.5
		9/2/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1b	1670	Anabaena, Gloeotrichia	<0.16	<0.5
		9/9/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1b	2020	Scytonema spp, unidentified Oscillatoriaceae	<0.16	<0.5
		9/16/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1b	0	no cyanobacteria observed	<0.16	<0.5
		9/23/2014	Red Rocks Beach	Visual/Tiered Alert	Routine - Weekly	1b	480		<0.16	<0.5
		9/30/2014	Red Rocks Beach	Visual/Tiered Alert	Supplemental	1a	133	Anabaena	<0.16	<0.5
		6/16/2014	Shelburne Beach	Visual	Routine - Weekly	1c				
		6/23/2014	Shelburne Beach	Visual	Routine - Weekly	1a				
		6/30/2014	Shelburne Beach	Visual	Routine - Weekly	1a				
		7/7/2014	Shelburne Beach	Visual	Routine - Weekly	1a				
		7/14/2014	Shelburne Beach	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	7/21/2014	Shelburne Beach	Visual	Routine - Weekly	1a				
		7/29/2014	Shelburne Beach	Visual	Routine - Weekly	1c				
		8/4/2014	Shelburne Beach	Visual	Routine - Weekly	1b				
		8/11/2014	Shelburne Beach	Visual	Routine - Weekly	1b				
		8/18/2014	Shelburne Beach	Visual	Routine - Weekly	1a				
		6/17/2014	Shelburne Farms	Visual	Routine - Weekly	1a				
		6/24/2014	Shelburne Farms	Visual	Routine - Weekly	1a				
		7/1/2014	Shelburne Farms	Visual	Routine - Weekly	1a				
		7/8/2014	Shelburne Farms	Visual	Routine - Weekly	1a				
		7/15/2014	Shelburne Farms	Visual	Routine - Weekly	1a				
		7/22/2014	Shelburne Farms	Visual	Routine - Weekly	1a				
		8/4/2014	Shelburne Farms	Visual	Supplemental	1d				
		8/5/2014	Shelburne Farms	Visual	Routine - Weekly	1a				
		8/12/2014	Shelburne Farms	Visual	Routine - Weekly	1a				
		8/19/2014	Shelburne Farms	Visual	Routine - Weekly	1a				
		8/26/2014	Shelburne Farms	Visual	Routine - Weekly	1a				
		9/27/2014	Shelburne Farms	Visual	Supplemental	3				
		9/28/2014	Shelburne Farms	Visual	Supplemental	1a				
		9/28/2014	Shelburne Farms	Visual	Supplemental	1a				
		6/14/2014	Shelburne Point	Visual	Supplemental	1b				
		6/21/2014	Shelburne Point	Visual	Routine - Weekly	1c				
		6/28/2014	Shelburne Point	Visual	Routine - Weekly	1c				
		7/5/2014	Shelburne Point	Visual	Routine - Weekly	1a				
		7/12/2014	Shelburne Point	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	7/19/2014	Shelburne Point	Visual	Routine - Weekly	1b				
		7/26/2014	Shelburne Point	Visual	Routine - Weekly	1b				
		8/2/2014	Shelburne Point	Visual	Routine - Biweekly	1c				
		8/9/2014	Shelburne Point	Visual	Routine - Weekly	1a				
		8/16/2014	Shelburne Point	Visual	Routine - Weekly	1b				
		8/23/2014	Shelburne Point	Visual	Routine - Weekly	1a				
		8/31/2014	Shelburne Point	Visual	Routine - Weekly	1a				
		9/7/2014	Shelburne Point	Visual	Routine - Weekly	1a				
		9/14/2014	Shelburne Point	Visual	Supplemental	1a				
		6/14/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				
		6/21/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				
		6/28/2014	Shelburne Shipyard	Visual	Routine - Weekly	1c				
		7/5/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				
		7/12/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				
		7/19/2014	Shelburne Shipyard	Visual	Routine - Weekly	1c				
		7/26/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				
		8/2/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				
		8/5/2014	Shelburne Shipyard	Visual	Supplemental	1c	0	no cyanobacteria observed	not tested	not tested
		8/9/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				
		8/16/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				
		8/23/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				
		8/31/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	9/7/2014	Shelburne Shipyard	Visual	Routine - Weekly	1a				
		9/14/2014	Shelburne Shipyard	Visual	Supplemental	1a				
		6/18/2014	Starr Farm Beach	Visual	Routine - Weekly	1a				
		6/25/2014	Starr Farm Beach	Visual	Routine - Weekly	1a				
		7/2/2014	Starr Farm Beach	Visual	Routine - Weekly	1a				
		7/10/2014	Starr Farm Beach	Visual	Routine - Weekly	1b				
		7/17/2014	Starr Farm Beach	Visual	Routine - Weekly	1b				
		7/23/2014	Starr Farm Beach	Visual	Routine - Weekly	1b				
		7/25/2014	Starr Farm Beach	Visual	Supplemental	1b				
		7/30/2014	Starr Farm Beach	Visual	Routine - Weekly	1a				
		8/6/2014	Starr Farm Beach	Visual	Routine - Weekly	1a				
		8/12/2014	Starr Farm Beach	Visual	Routine - Weekly	1a				
		8/20/2014	Starr Farm Beach	Visual	Routine - Weekly	1a				
		8/28/2014	Starr Farm Beach	Visual	Routine - Weekly	1a				
		9/12/2014	Starr Farm Beach	Visual	Routine - Weekly	1a				
		9/19/2014	Starr Farm Beach	Visual	Supplemental	1a				
		6/15/2014	Sunset/Crescent Beach	Visual	Routine - Weekly	1c				
		6/20/2014	Sunset/Crescent Beach	Visual	Supplemental	1a				
		6/27/2014	Sunset/Crescent Beach	Visual	Routine - Weekly	1a				
		7/4/2014	Sunset/Crescent Beach	Visual	Routine - Weekly	1a				
		7/11/2014	Sunset/Crescent Beach	Visual	Routine - Weekly	1a				
		8/1/2014	Sunset/Crescent Beach	Visual	Routine - Weekly	1a				
		8/8/2014	Sunset/Crescent Beach	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	8/15/2014	Sunset/Crescent Beach	Visual	Routine - Weekly	1a				
		8/22/2014	Sunset/Crescent Beach	Visual	Routine - Weekly	1a				
		8/29/2014	Sunset/Crescent Beach	Visual	Routine - Weekly	1a				
		9/5/2014	Sunset/Crescent Beach	Visual	Routine - Weekly	1a				
		6/15/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1a				
		6/22/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1b				
		6/29/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1a				
		7/6/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1b				
		7/13/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1b				
		7/20/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1a				
		7/27/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1b				
		8/3/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1b				
		8/10/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1a				
		8/17/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1a				
		8/24/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1b				
		8/31/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1c				
		9/7/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1b				
		9/14/2014	Teddy Bear Point Cove, Willsboro NY	Visual	Routine - Weekly	1a				
		6/13/2014	White's Beach in Crescent Bay	Visual	Supplemental	1a				
		6/17/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1a				
		7/1/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1b				
		7/8/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	7/15/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1b				
		7/22/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1a				
		7/29/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1a				
		8/5/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1b				
		8/12/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1b				
		8/19/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1a				
		8/26/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1b				
		9/2/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1a				
		9/9/2014	White's Beach in Crescent Bay	Visual	Routine - Weekly	1b				
		9/16/2014	White's Beach in Crescent Bay	Visual	Supplemental	1a				
		9/23/2014	White's Beach in Crescent Bay	Visual	Supplemental	1b				
		9/26/2014	White's Beach in Crescent Bay	Visual	Supplemental	2				
		6/15/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1c				
		6/29/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1a				
		7/6/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1c				
		7/13/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1a				
		7/20/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1a				
		7/26/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1a				
		8/3/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1a				
		8/10/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1c				
		8/17/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1c				
		8/24/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1a				
		8/30/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake Central	9/9/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1a				
		9/17/2014	Wilcox Dock, Plattsburgh	Visual	Routine - Weekly	1a				
		6/16/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		6/23/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		6/30/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		7/8/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		7/14/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		7/21/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		7/28/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		8/5/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		8/11/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		8/26/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		9/2/2014	Willsboro Boat Launch	Visual	Routine - Weekly	1a				
		6/23/2014	Alburgh Dunes State Park	Visual	Routine - Weekly	1a				
		6/30/2014	Alburgh Dunes State Park	Visual	Routine - Weekly	1a				
		7/6/2014	Alburgh Dunes State Park	Visual	Routine - Weekly	1a				
		7/14/2014	Alburgh Dunes State Park	Visual	Routine - Weekly	1a				
		7/22/2014	Alburgh Dunes State Park	Visual	Routine - Weekly	1a				
		8/4/2014	Alburgh Dunes State Park	Visual	Routine - Weekly	1a				
		8/11/2014	Alburgh Dunes State Park	Visual	Routine - Weekly	1a				
		8/25/2014	Alburgh Dunes State Park	Visual	Routine - Weekly	1a				
		6/23/2014	Eagle Acres Rd, Chazy NY	Visual	Routine - Weekly	1a				



Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake North	6/30/2014	Eagle Acres Rd, Chazy NY	Visual	Routine - Weekly	1a				
		7/8/2014	Eagle Acres Rd, Chazy NY	Visual	Routine - Weekly	1a				
		7/15/2014	Eagle Acres Rd, Chazy NY	Visual	Routine - Weekly	1a				
		7/22/2014	Eagle Acres Rd, Chazy NY	Visual	Routine - Weekly	1a				
		7/29/2014	Eagle Acres Rd, Chazy NY	Visual	Routine - Weekly	1a				
		8/5/2014	Eagle Acres Rd, Chazy NY	Visual	Routine - Weekly	1a				
		8/11/2014	Eagle Acres Rd, Chazy NY	Visual	Routine - Weekly	1a				
		8/18/2014	Eagle Acres Rd, Chazy NY	Visual	Routine - Weekly	1a				
		9/2/2014	Eagle Acres Rd, Chazy NY	Visual	Routine - Weekly	1a				
		6/13/2014	Holcomb Boat Launch	Visual	Supplemental	1b				
		6/24/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1b				
		7/1/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1b				
		7/8/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1b				
		7/15/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1a				
		7/23/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1a				
		7/29/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1a				
		8/5/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1c				
		8/12/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1b				
		8/19/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1a				
		8/26/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1b				
		9/2/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1d				
		9/9/2014	Holcomb Boat Launch	Visual	Routine - Weekly	1b				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake North	9/16/2014	Holcomb Boat Launch	Visual	Supplemental	1a				
		9/23/2014	Holcomb Boat Launch	Visual	Supplemental	1a				
		6/13/2014	Horicans Fish and Wildlife Access	Visual	Supplemental	1a				
		7/1/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	1a				
		7/8/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	1a				
		7/15/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	1a				
		7/23/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	1a				
		7/29/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	1b				
		8/5/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	1a				
		8/12/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	1a				
		8/19/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	2				
		8/26/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	1a				
		9/2/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	1a				
		9/9/2014	Horicans Fish and Wildlife Access	Visual	Routine - Weekly	1b				
		9/16/2014	Horicans Fish and Wildlife Access	Visual	Supplemental	1a				
		9/25/2014	Horicans Fish and Wildlife Access	Visual	Supplemental	1a				
		6/5/2014	LTM 36	Tiered Alert	Routine - Biweekly	Qualitative	0	Aphanizomenon	not tested	not tested
		7/3/2014	LTM 36	Tiered Alert	Routine - Biweekly	Quantitative	14	Anabaena, Aphanizomenon	not tested	not tested
		7/25/2014	LTM 36	Tiered Alert	Routine - Biweekly	Quantitative	7	Anabaena, Aphanizomenon	not tested	not tested
		8/7/2014	LTM 36	Tiered Alert	Routine - Biweekly	Quantitative	117	Anabaena	not tested	not tested
		8/29/2014	LTM 36	Tiered Alert	Routine - Biweekly	Quantitative	80	Anabaena, Aphanizomenon, Microcystis, Woronichinia	not tested	not tested
		6/2/2014	LTM 46	Tiered Alert	Routine - Biweekly	Qualitative	0	Oscillatoria	not tested	not tested
		6/23/2014	LTM 46	Tiered Alert	Routine - Biweekly	Quantitative	0	No cyanobacteria observed		
		7/15/2014	LTM 46	Tiered Alert	Routine - Biweekly	Quantitative	0	Anabaena	not tested	not tested

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake North	8/7/2014	LTM 46	Tiered Alert	Routine - Biweekly	Quantitative	90	Anabaena, Aphanothece	not tested	not tested
		8/20/2014	LTm 46	Tiered Alert	Routine - Biweekly	Quantitative	5	Anabaena	not tested	not tested
		9/19/2014	LTM 46	Tiered Alert	Routine - Biweekly	Quantitative	8	Aphanizomenon, Microcystis	not tested	not tested
		6/17/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		6/24/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		7/1/2014	Oliver Bay	Visual	Routine - Weekly	1c				
		7/8/2014	Oliver Bay	Visual	Routine - Weekly	1c				
		7/15/2014	Oliver Bay	Visual	Routine - Weekly	1c				
		7/22/2014	Oliver Bay	Visual	Routine - Weekly	1c				
		7/29/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		8/5/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		8/12/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		8/19/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		8/26/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		9/2/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		9/9/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		9/17/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		9/23/2014	Oliver Bay	Visual	Routine - Weekly	1a				
		6/16/2014	Pelots Point West	Visual	Routine - Weekly	1c				
		6/23/2014	Pelots Point West	Visual	Routine - Weekly	1a				
		6/30/2014	Pelots Point West	Visual	Routine - Weekly	1a				
		7/7/2014	Pelots Point West	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake North	7/16/2014	Pelots Point West	Visual	Routine - Weekly	1c				
		7/21/2014	Pelots Point West	Visual	Routine - Weekly	1a				
		7/29/2014	Pelots Point West	Visual	Routine - Weekly	1a				
		8/3/2014	Pelots Point West	Visual	Routine - Weekly	1c				
		8/4/2014	Pelots Point West	Visual	Supplemental	1c				
		8/8/2014	Pelots Point West	Visual	Supplemental	1c				
		8/11/2014	Pelots Point West	Visual	Routine - Weekly	1b				
		8/18/2014	Pelots Point West	Visual	Routine - Weekly	1c				
		8/19/2014	Pelots Point West	Visual	Supplemental	2				
		8/21/2014	Pelots Point West	Visual	Supplemental	1c				
		8/24/2014	Pelots Point West	Visual	Supplemental	1d				
		8/25/2014	Pelots Point West	Visual	Routine - Weekly	1d				
		9/1/2014	Pelots Point West	Visual	Routine - Weekly	2				
		9/10/2014	Pelots Point West	Visual	Routine - Weekly	1b				
		6/17/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		6/24/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		7/1/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		7/8/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		7/15/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		7/22/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		7/29/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		8/5/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		8/12/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		8/19/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake North	8/26/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		9/2/2014	Pt. Au Roche Boat Launch	Visual	Routine - Weekly	1a				
		6/17/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	1a				
		6/23/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	1a				
		6/30/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	1a				
		7/8/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	1a				
		7/22/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	1a				
		7/29/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	1a				
		8/5/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	1a				
		8/11/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	2				
		8/15/2014	Pt. Au Roche S.P. Deep Bay	Visual	Supplemental	2				
		8/18/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	2				
		8/25/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	2				
		9/2/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	2				
		9/8/2014	Pt. Au Roche S.P. Deep Bay	Visual	Routine - Weekly	2				
		6/17/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		6/23/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		6/30/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		7/8/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		7/22/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		7/29/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		8/5/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake North	8/11/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		8/18/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		8/25/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		9/2/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		9/8/2014	Pt. Au Roche State Park Beach	Visual	Routine - Weekly	1a				
		6/13/2014	Stoney Point, Isle la Motte	Visual	Supplemental	1a				
		7/1/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1b				
		7/8/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1a				
		7/15/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1a				
		7/23/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1a				
		7/29/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1b				
		8/5/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1b				
		8/12/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1b				
		8/19/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1b				
		8/26/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1a				
		9/2/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1a				
		9/9/2014	Stoney Point, Isle la Motte	Visual	Routine - Weekly	1b				
		9/16/2014	Stoney Point, Isle la Motte	Visual	Supplemental	1a				
		9/23/2014	Stoney Point, Isle la Motte	Visual	Supplemental	1c				
		6/16/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		6/23/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		6/30/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		7/7/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake North	7/14/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		7/21/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		8/5/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		8/11/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		8/21/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		8/25/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		9/1/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		9/19/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		9/26/2014	Treadswell Bay, Beekmantown NY	Visual	Routine - Weekly	1a				
		6/16/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		6/25/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		7/1/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		7/9/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		7/15/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		7/20/2014	Vantines Boat Launch	Visual	Routine - Weekly	1c				
		7/30/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		8/6/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		8/13/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		8/20/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		8/26/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		9/10/2014	Vantines Boat Launch	Visual	Routine - Weekly	1a				
		9/16/2014	Vantines Boat Launch	Visual	Supplemental	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake North	9/24/2014	Vantines Boat Launch	Visual	Supplemental	1a				
	Main Lake South	6/23/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1c	53	Anabaena	<0.16	<0.5
		6/23/2014	Arnold Bay, Panton	Visual/Tiered Alert	Supplemental	2	482200	Anabaena	<0.16	<0.5
		6/30/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		7/7/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/14/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/21/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1c	0		<0.16	<0.5
		7/28/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1c	13	Microcystis	<0.16	<0.5
		8/4/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1c	1230	Aphanizomenon, Aphanothece, Pseudanabaena	<0.16	<0.5
		8/4/2014	Arnold Bay, Panton	Visual/Tiered Alert	Supplemental	2	932900	Anabaena, Aphanizomenon, Woronichinia/Coelosphaerium	<0.16	<0.5
		8/11/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Biweekly	1a	1640	Anabaena	<0.16	< 0.5
		8/18/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1c	0		<0.16	<0.5
		8/25/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1a	190	Aphanothece	<0.16	<0.5
		9/2/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1a	3550	Anabaena	< 0.16	<0.5
		9/8/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1a	412	Aphanizomenon	<0.16	<1.0
		9/15/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1a	587	Anabaena, Aphanizomenon	<0.16	<0.5
		9/22/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1b	1010	Aphanizomenon, unidentified Oscillatoriaceae	< 0.16	<0.5
		9/29/2014	Arnold Bay, Panton	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		6/16/2014	Beggs Park Beach, Essex NY	Visual	Routine - Weekly	1a				
		6/23/2014	Beggs Park Beach, Essex NY	Visual	Routine - Weekly	1a				
		7/1/2014	Beggs Park Beach, Essex NY	Visual	Routine - Weekly	1a				
		7/7/2014	Beggs Park Beach, Essex NY	Visual	Routine - Weekly	1a				



Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	7/14/2014	Beggs Park Beach, Essex NY	Visual	Routine - Weekly	1a				
		7/21/2014	Beggs Park Beach, Essex NY	Visual	Routine - Weekly	1a				
		7/28/2014	Beggs Park Beach, Essex NY	Visual	Routine - Weekly	1a				
		8/5/2014	Beggs Park Beach, Essex NY	Visual	Routine - Weekly	1a				
		8/11/2014	Beggs Park Beach, Essex NY	Visual	Routine - Weekly	1a				
		8/18/2014	Beggs Park Beach, Essex NY	Visual	Routine - Weekly	1a				
		6/16/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1a				
		6/23/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1b				
		7/2/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1a				
		7/8/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1c				
		7/15/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1c				
		7/22/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1c				
		8/4/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1c				
		8/12/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	3				
		8/20/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1a				
		8/27/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1a				
		9/2/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1b				
		9/9/2014	Bulwagga Bay/Port Henry	Visual	Routine - Weekly	1a				
		9/15/2014	Bulwagga Bay/Port Henry	Visual	Supplemental	1a				
		9/23/2014	Bulwagga Bay/Port Henry	Visual	Supplemental	1a				
		7/1/2014	Button Bay Boat Launch	Visual	Routine - Weekly	1b				
		7/8/2014	Button Bay Boat Launch	Visual	Routine - Weekly	1a				
		7/15/2014	Button Bay Boat Launch	Visual	Routine - Weekly	1b				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	7/22/2014	Button Bay Boat Launch	Visual	Routine - Weekly	1a				
		7/29/2014	Button Bay Boat Launch	Visual	Routine - Weekly	1a				
		8/5/2014	Button Bay Boat Launch	Visual	Routine - Weekly	1a				
		8/12/2014	Button Bay Boat Launch	Visual	Routine - Weekly	1c				
		9/2/2014	Button Bay Boat Launch	Visual	Routine - Weekly	1b				
		9/9/2014	Button Bay Boat Launch	Visual	Routine - Weekly	1b				
		7/2/2014	Button Bay South	Visual	Routine - Weekly	1a				
		7/9/2014	Button Bay South	Visual	Routine - Weekly	1b				
		7/14/2014	Button Bay South	Visual	Supplemental	1d				
		7/16/2014	Button Bay South	Visual	Routine - Weekly	1a				
		7/23/2014	Button Bay South	Visual	Routine - Weekly	1b				
		7/30/2014	Button Bay South	Visual	Routine - Weekly	1a				
		8/6/2014	Button Bay South	Visual	Supplemental	1a				
		8/10/2014	Button Bay South	Visual	Supplemental	2				
		8/13/2014	Button Bay South	Visual	Supplemental	1a				
		8/19/2014	Button Bay South	Visual	Supplemental	2				
		8/20/2014	Button Bay South	Visual	Routine - Weekly	1a				
		8/25/2014	Button Bay South	Visual	Supplemental	2				
		8/27/2014	Button Bay South	Visual	Routine - Weekly	1a				
		9/1/2014	Button Bay South	Visual	Routine - Weekly	2				
		9/3/2014	Button Bay South	Visual	Supplemental	1a				
		9/10/2014	Button Bay South	Visual	Supplemental	1a				
		9/17/2014	Button Bay South	Visual	Supplemental	1a				
		9/17/2014	Button Bay South	Visual	Supplemental	2				
		9/19/2014	Button Bay South	Visual	Supplemental	1a				
		9/20/2014	Button Bay South	Visual	Supplemental	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	9/24/2014	Button Bay South	Visual	Supplemental	2				
		9/25/2014	Button Bay South	Visual	Supplemental	1a				
		9/26/2014	Button Bay South	Visual	Supplemental	1d				
		9/27/2014	Button Bay South	Visual	Supplemental	2				
		9/28/2014	Button Bay South	Visual	Supplemental	1a				
		9/30/2014	Button Bay South	Visual	Supplemental	1d				
		10/1/2014	Button Bay South	Visual	Supplemental	1a				
		6/16/2014	Camp Dudley, Westport NY	Visual	Routine - Weekly	1a				
		6/24/2014	Camp Dudley, Westport NY	Visual	Routine - Weekly	1b				
		6/26/2014	Camp Dudley, Westport NY	Visual	Supplemental	2				
		6/30/2014	Camp Dudley, Westport NY	Visual	Routine - Weekly	1a				
		7/7/2014	Camp Dudley, Westport NY	Visual	Routine - Weekly	1a				
		7/14/2014	Camp Dudley, Westport NY	Visual	Routine - Weekly	1a				
		7/22/2014	Camp Dudley, Westport NY	Visual	Routine - Weekly	1a				
		7/28/2014	Camp Dudley, Westport NY	Visual	Routine - Weekly	1a				
		8/5/2014	Camp Dudley, Westport NY	Visual	Routine - Weekly	1a				
		8/11/2014	Camp Dudley, Westport NY	Visual	Routine - Weekly	1d				
		8/19/2014	Camp Dudley, Westport NY	Visual	Routine - Weekly	1a				
		6/18/2014	Camp Greylock	Visual	Supplemental	1b				
		7/2/2014	Camp Greylock	Visual	Supplemental	1b				
		7/9/2014	Camp Greylock	Visual	Supplemental	1a				
		7/16/2014	Camp Greylock	Visual	Supplemental	1b				
		7/23/2014	Camp Greylock	Visual	Supplemental	1c				
		6/16/2014	Chimney Point	Visual	Routine - Weekly	1a				
		6/23/2014	Chimney Point	Visual	Routine - Weekly	1a				
		6/30/2014	Chimney Point	Visual	Routine - Weekly	1a				
		7/7/2014	Chimney Point	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	7/14/2014	Chimney Point	Visual	Routine - Weekly	1a				
		7/21/2014	Chimney Point	Visual	Routine - Weekly	1a				
		7/28/2014	Chimney Point	Visual	Routine - Weekly	1a				
		8/3/2014	Chimney Point	Visual	Routine - Weekly	1a				
		8/11/2014	Chimney Point	Visual	Routine - Weekly	1a				
		8/11/2014	Chimney Point	Visual	Routine - Weekly	1a				
		8/20/2014	Chimney Point	Visual	Routine - Weekly	1a				
		8/26/2014	Chimney Point	Visual	Routine - Weekly	1a				
		9/1/2014	Chimney Point	Visual	Routine - Weekly	1a				
		9/9/2014	Chimney Point	Visual	Routine - Weekly	1a				
		8/17/2014	Converse Bay	Visual	Supplemental	1a				
		6/17/2014	Ferrisburgh Stone Beach	Visual	Routine - Weekly	1c				
		7/1/2014	Ferrisburgh Stone Beach	Visual	Routine - Weekly	1d				
		7/23/2014	Ferrisburgh Stone Beach	Visual	Routine - Weekly	1a				
		8/5/2014	Ferrisburgh Stone Beach	Visual	Routine - Weekly	1a				
		8/12/2014	Ferrisburgh Stone Beach	Visual	Routine - Weekly	1a				
		8/26/2014	Ferrisburgh Stone Beach	Visual	Routine - Weekly	1d				
		9/9/2014	Ferrisburgh Stone Beach	Visual	Routine - Weekly	1a				
		6/16/2014	Ferrisburgh Town Beach	Visual	Routine - Weekly	1a				
		6/25/2014	Ferrisburgh Town Beach	Visual	Routine - Weekly	1a				
		6/30/2014	Ferrisburgh Town Beach	Visual	Routine - Weekly	1a				
		8/4/2014	Ferrisburgh Town Beach	Visual	Routine - Weekly	1d				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	8/11/2014	Ferrisburgh Town Beach	Visual	Routine - Weekly	1a				
		8/18/2014	Ferrisburgh Town Beach	Visual	Routine - Weekly	1a				
		8/26/2014	Ferrisburgh Town Beach	Visual	Routine - Weekly	1a				
		9/2/2014	Ferrisburgh Town Beach	Visual	Routine - Weekly	1a				
		6/17/2014	Hawkins Bay	Visual	Routine - Weekly	1c				
		6/26/2014	Hawkins Bay	Visual	Routine - Weekly	1a				
		7/1/2014	Hawkins Bay	Visual	Routine - Weekly	1d				
		7/8/2014	Hawkins Bay	Visual	Routine - Weekly	1a				
		7/15/2014	Hawkins Bay	Visual	Routine - Weekly	1a				
		7/23/2014	Hawkins Bay	Visual	Routine - Weekly	1a				
		7/29/2014	Hawkins Bay	Visual	Routine - Weekly	1a				
		8/5/2014	Hawkins Bay	Visual	Routine - Weekly	1b				
		8/12/2014	Hawkins Bay	Visual	Routine - Weekly	1a				
		8/19/2014	Hawkins Bay	Visual	Routine - Weekly	1a				
		8/26/2014	Hawkins Bay	Visual	Routine - Weekly	1a				
		9/2/2014	Hawkins Bay	Visual	Routine - Weekly	1a				
		9/9/2014	Hawkins Bay	Visual	Routine - Weekly	1a				
		9/16/2014	Hawkins Bay	Visual	Supplemental	1a				
		9/23/2014	Hawkins Bay	Visual	Supplemental	1a				
		7/2/2014	Kingsland Bay State Park	Visual	Routine - Weekly	1a				
		7/9/2014	Kingsland Bay State Park	Visual	Routine - Weekly	1a				
		7/16/2014	Kingsland Bay State Park	Visual	Routine - Weekly	1a				
		7/23/2014	Kingsland Bay State Park	Visual	Routine - Weekly	1c				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	8/21/2014	Kingsland Bay State Park	Visual	Routine - Weekly	1b				
		9/1/2014	Kingsland Bay State Park	Visual	Routine - Weekly	1a				
		9/17/2014	Kingsland Bay State Park	Visual	Supplemental	3				
		9/18/2014	Kingsland Bay State Park	Visual	Supplemental	1b				
		6/16/2014	Lane's Lane Landing	Visual	Routine - Weekly	1b				
		6/23/2014	Lane's Lane Landing	Visual	Routine - Weekly	1b				
		6/30/2014	Lane's Lane Landing	Visual	Routine - Weekly	1a				
		7/7/2014	Lane's Lane Landing	Visual	Routine - Weekly	1b				
		7/14/2014	Lane's Lane Landing	Visual	Routine - Weekly	1b				
		7/21/2014	Lane's Lane Landing	Visual	Routine - Weekly	1b				
		7/28/2014	Lane's Lane Landing	Visual	Routine - Weekly	1a				
		8/4/2014	Lane's Lane Landing	Visual	Routine - Weekly	1b				
		8/11/2014	Lane's Lane Landing	Visual	Routine - Biweekly	1c				
		8/18/2014	Lane's Lane Landing	Visual	Routine - Weekly	1a				
		8/25/2014	Lane's Lane Landing	Visual	Routine - Weekly	1b				
		9/1/2014	Lane's Lane Landing	Visual	Routine - Weekly	1b				
		9/8/2014	Lane's Lane Landing	Visual	Routine - Weekly	1b				
		7/12/2014	Long Pt, (Wood) Ferrisburgh	Visual	Supplemental	1a				
		10/2/2014	Long Pt, (Wood) Ferrisburgh	Visual	Supplemental	3				
		6/4/2014	LTM 07	Tiered Alert	Routine - Biweekly	Qualitative	0	Aphanizomenon	not tested	not tested
		6/26/2014	LTM 07	Tiered Alert	Routine - Biweekly	Quantitative	326	Anabaena	not tested	not tested
		7/16/2014	LTM 07	Tiered Alert	Routine - Biweekly	Quantitative	12	Anabaena, Aphanizomenon	not tested	not tested
		8/4/2014	LTM 07	Tiered Alert	Routine - Biweekly	Quantitative	81	Anabaena, Aphanizomenon, Aphanothece	not tested	not tested

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	8/25/2014	LTM 07	Visual	Supplemental	2	1327100	Anabaena, Aphanizomenon, Microcystis, Woro. /Coel	0.51	<0.5
		9/16/2014	LTM 07	Tiered Alert	Routine - Biweekly	Quantitative	45	Anabaena, Aphanizomenon	not tested	not tested
		6/4/2014	LTM 09	Tiered Alert	Routine - Biweekly	Qualitative	0	Aphanizomenon	not tested	not tested
		6/26/2014	LTM 09	Tiered Alert	Routine - Biweekly	Quantitative	63	Anabaena	not tested	not tested
		7/16/2014	LTM 09	Tiered Alert	Routine - Biweekly	Quantitative	8	Anabaena	not tested	not tested
		8/4/2014	LTM 09	Tiered Alert	Routine - Biweekly	Quantitative	143	Anabaena, Aphanizomenon	not tested	not tested
		8/25/2014	LTM 09	Tiered Alert	Routine - Biweekly	Quantitative	158	Anabaena, Aphanizomenon, Microcystis, Woronichinia	not tested	not tested
		6/16/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1a				
		6/23/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1a				
		6/30/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1a				
		7/8/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1a				
		7/28/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1b				
		8/5/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1a				
		8/11/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1a				
		8/18/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1a				
		8/25/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1a				
		9/1/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1a				
		9/8/2014	McKenna Dock, Essex NY	Visual	Routine - Weekly	1a				
		6/18/2014	McNeil Cove	Visual	Routine - Weekly	1a				
		6/24/2014	McNeil Cove	Visual	Routine - Weekly	1a				
		6/29/2014	McNeil Cove	Visual	Routine - Weekly	1a				
		7/14/2014	McNeil Cove	Visual	Routine - Weekly	1b				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	7/22/2014	McNeil Cove	Visual	Routine - Weekly	1a				
		7/29/2014	McNeil Cove	Visual	Routine - Weekly	1b				
		8/6/2014	McNeil Cove	Visual	Routine - Weekly	1a				
		8/12/2014	McNeil Cove	Visual	Routine - Weekly	1a				
		8/18/2014	McNeil Cove	Visual	Routine - Biweekly	1a				
		8/26/2014	McNeil Cove	Visual	Routine - Weekly	1a				
		9/5/2014	McNeil Cove	Visual	Routine - Weekly	1a				
		6/30/2014	North Harbor	Visual	Routine - Weekly	1b				
		7/7/2014	North Harbor	Visual	Routine - Weekly	1b				
		7/14/2014	North Harbor	Visual	Routine - Weekly	2				
		7/17/2014	North Harbor	Visual	Supplemental	1b				
		7/21/2014	North Harbor	Visual	Routine - Weekly	1b				
		7/28/2014	North Harbor	Visual	Routine - Weekly	1b				
		8/4/2014	North Harbor	Visual	Routine - Weekly	1b				
		8/11/2014	North Harbor	Visual	Routine - Weekly	1b				
		8/18/2014	North Harbor	Visual	Routine - Weekly	1b				
		8/25/2014	North Harbor	Visual	Routine - Weekly	1b				
		9/2/2014	North Harbor	Visual	Routine - Weekly	1d				
		9/22/2014	North Harbor	Visual	Supplemental	1b				
		7/9/2014	Panton Shore North	Visual	Supplemental	1a				
		7/14/2014	Panton Shore North	Visual	Supplemental	1a				
		7/30/2014	Panton Shore North	Visual	Supplemental	1a				
		8/6/2014	Panton Shore North	Visual	Supplemental	1a				
		9/10/2014	Panton Shore North	Visual	Supplemental	1a				
		9/17/2014	Panton Shore North	Visual	Supplemental	1a				



Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	6/28/2014	Port Henry Boat Launch	Visual	Supplemental	1a				
		7/12/2014	Port Henry Boat Launch	Visual	Supplemental	1b				
		7/19/2014	Port Henry Boat Launch	Visual	Supplemental	1b				
		7/26/2014	Port Henry Boat Launch	Visual	Supplemental	1a				
		8/16/2014	Port Henry Boat Launch	Visual	Supplemental	1a				
		6/24/2014	Porter Bay	Visual	Routine - Weekly	1a				
		7/1/2014	Porter Bay	Visual	Routine - Weekly	1a				
		7/8/2014	Porter Bay	Visual	Routine - Weekly	1a				
		7/15/2014	Porter Bay	Visual	Routine - Weekly	1a				
		7/22/2014	Porter Bay	Visual	Routine - Weekly	1a				
		7/29/2014	Porter Bay	Visual	Routine - Weekly	1b				
		8/12/2014	Porter Bay	Visual	Routine - Weekly	1a				
		8/19/2014	Porter Bay	Visual	Routine - Weekly	1a				
		8/26/2014	Porter Bay	Visual	Routine - Weekly	1a				
		9/2/2014	Porter Bay	Visual	Routine - Weekly	1a				
		7/1/2014	Summer Point	Visual	Routine - Weekly	1a				
		7/8/2014	Summer Point	Visual	Routine - Weekly	1a				
		7/23/2014	Summer Point	Visual	Routine - Weekly	1c				
		7/29/2014	Summer Point	Visual	Routine - Weekly	1a				
		8/5/2014	Summer Point	Visual	Routine - Weekly	2				
		8/12/2014	Summer Point	Visual	Routine - Weekly	1a				
		8/19/2014	Summer Point	Visual	Routine - Weekly	1a				
		8/26/2014	Summer Point	Visual	Routine - Weekly	1c				
		6/20/2014	Town Farm Bay	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	6/23/2014	Town Farm Bay	Visual	Routine - Weekly	1b				
		6/30/2014	Town Farm Bay	Visual	Routine - Weekly	1a				
		7/7/2014	Town Farm Bay	Visual	Routine - Weekly	1a				
		7/14/2014	Town Farm Bay	Visual	Routine - Weekly	1a				
		7/21/2014	Town Farm Bay	Visual	Routine - Weekly	1a				
		7/28/2014	Town Farm Bay	Visual	Routine - Weekly	1a				
		8/4/2014	Town Farm Bay	Visual	Routine - Weekly	1a				
		8/11/2014	Town Farm Bay	Visual	Routine - Weekly	1a				
		8/18/2014	Town Farm Bay	Visual	Routine - Weekly	1a				
		8/25/2014	Town Farm Bay	Visual	Routine - Weekly	1a				
		9/1/2014	Town Farm Bay	Visual	Routine - Weekly	1a				
		6/23/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1a	880	Anabaena	<0.16	<0.5
		6/30/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/7/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/14/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		7/21/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		7/28/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1b	0		<0.16	<0.5
		8/4/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1d	267	Aphanizomenon	<0.16	<0.5
		8/11/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1c	700	Anabaena, Aphanothece	<0.16	<0.5
		8/18/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1b	12800	unidentified Oscillatoriaceae	<0.16	<0.5
		8/25/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1a	190	Aphanothece	<0.16	<0.5
		9/2/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1a	0		< 0.16	<0.5

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	9/8/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<1.0
		9/15/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1a	9170	Anabaena, Aphanizomenon	<0.16	<0.5
		9/22/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1b	0		< 0.16	<0.5
		9/29/2014	Tri-Town Road, West Addison	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		6/17/2014	Westport Boat Launch	Visual	Routine - Weekly	1b				
		6/21/2014	Westport Boat Launch	Visual	Supplemental	1b				
		6/24/2014	Westport Boat Launch	Visual	Routine - Weekly	1b				
		6/28/2014	Westport Boat Launch	Visual	Supplemental	2				
		6/28/2014	Westport Boat Launch	Visual	Supplemental	2				
		6/29/2014	Westport Boat Launch	Visual	Supplemental	1b				
		7/2/2014	Westport Boat Launch	Visual	Routine - Weekly	1b				
		7/5/2014	Westport Boat Launch	Visual	Supplemental	1c				
		7/8/2014	Westport Boat Launch	Visual	Routine - Weekly	1b				
		7/12/2014	Westport Boat Launch	Visual	Supplemental	1b				
		7/15/2014	Westport Boat Launch	Visual	Routine - Weekly	1a				
		7/19/2014	Westport Boat Launch	Visual	Supplemental	1b				
		7/29/2014	Westport Boat Launch	Visual	Routine - Weekly	1a				
		8/5/2014	Westport Boat Launch	Visual	Routine - Weekly	1a				
		8/8/2014	Westport Boat Launch	Visual	Supplemental	1b				
		8/11/2014	Westport Boat Launch	Visual	Routine - Weekly	1b				
		8/20/2014	Westport Boat Launch	Visual	Routine - Weekly	1a				
		8/24/2014	Westport Boat Launch	Visual	Supplemental	1b				
		8/26/2014	Westport Boat Launch	Visual	Routine - Weekly	1b				
		9/2/2014	Westport Boat Launch	Visual	Routine - Weekly	1b				
		9/9/2014	Westport Boat Launch	Visual	Routine - Weekly	1b				
		9/16/2014	Westport Boat Launch	Visual	Supplemental	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Main Lake South	9/22/2014	Westport Boat Launch	Visual	Supplemental	1b				
		6/18/2014	Whallons Bay	Visual	Supplemental	1c				
	Malletts Bay	6/19/2014	Camp Kiniya	Visual	Routine - Weekly	1a				
		6/27/2014	Camp Kiniya	Visual	Routine - Weekly	1a				
		7/3/2014	Camp Kiniya	Visual	Routine - Weekly	1a				
		7/10/2014	Camp Kiniya	Visual	Routine - Weekly	1a				
		7/17/2014	Camp Kiniya	Visual	Routine - Weekly	1a				
		7/25/2014	Camp Kiniya	Visual	Routine - Weekly	1b				
		7/31/2014	Camp Kiniya	Visual	Routine - Weekly	1b				
		8/7/2014	Camp Kiniya	Visual	Routine - Weekly	1a				
		8/14/2014	Camp Kiniya	Visual	Routine - Weekly	1b				
		8/20/2014	Camp Kiniya	Visual	Routine - Weekly	1a				
		6/15/2014	Clay Point	Visual	Routine - Weekly	1a				
		6/22/2014	Clay Point	Visual	Routine - Weekly	1b				
		7/6/2014	Clay Point	Visual	Routine - Weekly	1a				
		7/13/2014	Clay Point	Visual	Routine - Weekly	1a				
		7/20/2014	Clay Point	Visual	Routine - Weekly	1a				
		7/27/2014	Clay Point	Visual	Routine - Weekly	1a				
		8/3/2014	Clay Point	Visual	Routine - Weekly	1a				
		8/12/2014	Clay Point	Visual	Routine - Weekly	1a				
		8/17/2014	Clay Point	Visual	Routine - Weekly	1a				
		8/24/2014	Clay Point	Visual	Routine - Weekly	1d				
		8/30/2014	Clay Point	Visual	Supplemental	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Malletts Bay	9/14/2014	Clay Point	Visual	Supplemental	1a				
		6/9/2014	LTM 25	Tiered Alert	Routine - Biweekly	Quantitative	55	Anabaena	not tested	not tested
		7/1/2014	LTM 25	Tiered Alert	Routine - Biweekly	Quantitative	13	Anabaena, Aphanizomenon	Not tested	Not tested
		7/14/2014	LTM 25	Tiered Alert	Routine - Biweekly	Quantitative	10	Anabaena, Aphanizomenon, Aphanothece	not tested	not tested
		8/1/2014	LTM 25	Tiered Alert	Routine - Biweekly	Quantitative	41	Anabaena, Aphanizomenon, Aphanothece	not tested	not tested
		8/15/2014	LTM 25	Tiered Alert	Routine - Biweekly	Quantitative	173	Anabaena, Aphanizomenon, Aphanothece, Woronichinia	not tested	not tested
		9/2/2014	LTM 25	Tiered Alert	Routine - Biweekly	Quantitative	43	Anabaena, Aphanothece, Microcystis, Woronichinia/C	not tested	not tested
		9/26/2014	LTM 25	Tiered Alert	Routine - Biweekly	Quantitative	29	Anabaena, Aphanizomenon, Scytonema spp, Woronichin	not tested	not tested
		6/13/2014	Malletts Bay Boat Launch	Visual	Supplemental	1a				
		6/15/2014	Malletts Bay Boat Launch	Visual	Supplemental	1a				
		6/16/2014	Malletts Bay Boat Launch	Visual	Supplemental	1a				
		6/20/2014	Malletts Bay Boat Launch	Visual	Supplemental	1a				
		6/22/2014	Malletts Bay Boat Launch	Visual	Supplemental	1c				
		7/18/2014	Malletts Bay Boat Launch	Visual	Supplemental	1a				
		7/14/2014	Marble Island Marina	Visual	Routine - Weekly	1a				
		7/22/2014	Marble Island Marina	Visual	Routine - Weekly	1a				
		7/29/2014	Marble Island Marina	Visual	Routine - Weekly	1a				
		8/4/2014	Marble Island Marina	Visual	Routine - Weekly	1a				
		8/12/2014	Marble Island Marina	Visual	Routine - Weekly	1a				
		8/19/2014	Marble Island Marina	Visual	Routine - Weekly	1a				
		8/26/2014	Marble Island Marina	Visual	Routine - Weekly	1a				
		6/16/2014	Niquette Bay State Park	Visual	Supplemental	1a				
		6/23/2014	Niquette Bay State Park	Visual	Supplemental	1a				
		6/30/2014	Niquette Bay State Park	Visual	Supplemental	1b				
		7/14/2014	Niquette Bay State Park	Visual	Supplemental	1b				
		7/21/2014	Niquette Bay State Park	Visual	Supplemental	1b				
		6/1/2014	Rosetti Park	Visual	Supplemental	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Malletts Bay	6/24/2014	Rosetti Park	Visual	Supplemental	1a				
		7/1/2014	Rosetti Park	Visual	Supplemental	1a				
		7/8/2014	Rosetti Park	Visual	Supplemental	1a				
	Missisquoi Bay	6/16/2014	Alburgh Springs	Visual	Routine - Weekly	1c				
		6/23/2014	Alburgh Springs	Visual	Routine - Weekly	1b				
		6/30/2014	Alburgh Springs	Visual	Routine - Weekly	1c				
		7/8/2014	Alburgh Springs	Visual	Routine - Weekly	1a				
		7/16/2014	Alburgh Springs	Visual	Routine - Weekly	1a				
		7/22/2014	Alburgh Springs	Visual	Routine - Weekly	1c				
		7/30/2014	Alburgh Springs	Visual	Routine - Weekly	1b				
		8/6/2014	Alburgh Springs	Visual	Routine - Weekly	1a				
		8/12/2014	Alburgh Springs	Visual	Routine - Weekly	1a				
		8/19/2014	Alburgh Springs	Visual	Routine - Weekly	1d				
		8/21/2014	Alburgh Springs	Visual	Supplemental	2				
		8/26/2014	Alburgh Springs	Visual	Routine - Weekly	1d				
		9/2/2014	Alburgh Springs	Visual	Routine - Weekly	2				
		9/9/2014	Alburgh Springs	Visual	Routine - Weekly	1c				
		6/23/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	0.16	<0.5
		6/30/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/7/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/14/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		7/21/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1c	5780	Aphanothece	<0.16	<0.5
		7/28/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1b	2130	Oscillatoria	<0.16	<0.5

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Missisquoi Bay	8/4/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1a	1530	Aphanothece, Oscillatoria	<0.16	<0.5
		8/11/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1c	2670	Aphanothece	<0.16	<0.5
		8/18/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1a	103	Aphanothece	<0.16	<0.5
		8/25/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1a	3560	Anabaena, Aphanothece, Microcystis	<0.16	<0.5
		9/2/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1d	7090	Anabaena, Microcystis	< 0.16	<0.5
		9/8/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<1.0
		9/15/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5
		9/22/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1a	0		< 0.16	<0.5
		9/29/2014	Alburgh VT - shoreline	Visual/Tiered Alert	Routine - Weekly	1c	480	Aphanizomenon	<0.16	<0.5
		6/15/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		6/26/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		6/29/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		7/6/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		7/8/2014	Chapman Bay	Visual	Supplemental	1a				
		7/11/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		7/14/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		7/21/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		7/29/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		8/3/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		8/10/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		8/17/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		8/25/2014	Chapman Bay	Visual	Routine - Weekly	1c				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Missisquoi Bay	8/31/2014	Chapman Bay	Visual	Routine - Weekly	1b				
		9/7/2014	Chapman Bay	Visual	Routine - Weekly	1a				
		9/15/2014	Chapman Bay	Visual	Routine - Weekly	1b				
		9/21/2014	Chapman Bay	Visual	Routine - Weekly	1b				
		6/17/2014	Donaldson Point	Visual	Routine - Weekly	1a				
		6/21/2014	Donaldson Point	Visual	Routine - Weekly	1a				
		6/23/2014	Donaldson Point	Visual	Routine - Weekly	1a				
		7/20/2014	Donaldson Point	Visual	Routine - Weekly	1a				
		7/28/2014	Donaldson Point	Visual	Routine - Weekly	1b				
		8/4/2014	Donaldson Point	Visual	Routine - Weekly	1b				
		8/12/2014	Donaldson Point	Visual	Routine - Weekly	1a				
		8/18/2014	Donaldson Point	Visual	Routine - Weekly	1a				
		8/25/2014	Donaldson Point	Visual	Routine - Weekly	2				
		9/2/2014	Donaldson Point	Visual	Routine - Weekly	1a				
		9/8/2014	Donaldson Point	Visual	Routine - Weekly	1a				
		9/15/2014	Donaldson Point	Visual	Routine - Weekly	1a				
		9/22/2014	Donaldson Point	Visual	Routine - Weekly	1a				
		8/5/2014	Highgate Cliffs	Tiered Alert	Supplemental	Alert 1	65100	Anabaena, Aphanizomenon, Aphanothece, Microcystis	0.28	<0.5
		6/2/2014	Highgate Springs	Tiered Alert	Routine - Biweekly	Qualitative	0	No cyanobacteria observed	not tested	not tested
		6/23/2014	Highgate Springs	Tiered Alert	Routine - Biweekly	Qualitative	0	No cyanobacteria observed	not tested	not tested
		7/15/2014	Highgate Springs	Tiered Alert	Routine - Biweekly	Quantitative	0	Aphanizomenon, Aphanothece	not tested	not tested
		8/5/2014	Highgate Springs	Tiered Alert	Routine - Biweekly	Alert 1	79600	Anabaena, Aphanizomenon, Aphanothece, Microcystis	0.29	< 0.5



Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Missisquoi Bay	9/19/2014	Highgate Springs	Tiered Alert	Routine - Biweekly	Vigilance	3120	Anabaena	0.24	<0.5
		7/15/2014	Larry Greene Fish and Wildlife Access	Visual	Supplemental	1d				
		7/24/2014	Larry Greene Fish and Wildlife Access	Visual	Supplemental	2				
		8/20/2014	Larry Greene Fish and Wildlife Access	Tiered Alert	Supplemental	Quantitative	76900	Anabaena, Aphanizomenon, Microcystis	not tested	not tested
		8/26/2014	Larry Greene Fish and Wildlife Access	Visual	Supplemental	1d			not tested	not tested
		6/2/2014	LTM 50	Tiered Alert	Routine - Biweekly	Qualitative	0	Aphanizomenon	not tested	not tested
		6/23/2014	LTM 50	Tiered Alert	Routine - Biweekly	Quantitative	0	No cyanobacteria observed	not tested	not tested
		7/15/2014	LTM 50	Tiered Alert	Routine - Biweekly	Quantitative	0	Aphanizomenon, Aphanothece, Microcystis	not tested	not tested
		7/24/2014	LTM 50	Tiered Alert	Routine - Biweekly	Quantitative	730	Anabaena, Aphanizomenon, Microcystis	not tested	not tested
		8/5/2014	LTM 50	Tiered Alert	Routine - Biweekly	Quantitative	366	Anabaena, Aphanizomenon, Aphanothece, Microcystis,	not tested	not tested
		8/20/2014	LTM 50	Tiered Alert	Routine - Biweekly	Alert 2 (visible scum)	1072400	Anabaena, Microcystis	0.24	<0.5
		9/19/2014	LTM 50	Tiered Alert	Routine - Biweekly	Quantitative	0	no cyanobacteria present in sample	0.25	<0.5
		6/2/2014	LTM 51	Tiered Alert	Routine - Biweekly	Qualitative	0	Aphanothece, Microcystis	not tested	not tested
		6/23/2014	LTM 51	Tiered Alert	Routine - Biweekly	Quantitative	0	No cyanobacteria observed	not tested	not tested
		7/15/2014	LTM 51	Tiered Alert	Routine - Biweekly	Quantitative	78	Aphanizomenon, Microcystis	not tested	not tested
		7/24/2014	LTM 51	Tiered Alert	Routine - Biweekly	Quantitative	1200	Anabaena, Aphanizomenon, Microcystis	not tested	not tested
		8/5/2014	LTM 51	Tiered Alert	Routine - Biweekly	Alert 1	9990	Anabaena, Aphanizomenon, Aphanothece, Microcystis	<0.16	<0.5
		8/20/2014	LTM 51	Tiered Alert	Routine - Biweekly	Alert 2 (visible scum)	80600	Anabaena, Microcystis	0.33	<0.5
		9/19/2014	LTM 51	Tiered Alert	Routine - Biweekly	Vigilance	2350	Anabaena, Aphanizomenon, Microcystis, unidentified cyanobacteria cells	0.22	<0.5
		8/20/2014	Mouth of the Rock River	Tiered Alert	Routine - Biweekly	Alert 1 (visible scum)	351600	Anabaena, Aphanothece, Microcystis	0.24	<0.5

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Missisquoi Bay	7/24/2014	North of Phillipsburg, QC	Visual	Supplemental	3			not tested	not tested
		7/29/2014	north of Phillipsburg, QC	Visual	Supplemental	3			not tested	not tested
		7/29/2014	northeastern Missisquoi Bay	Visual	Supplemental	3			not tested	not tested
		8/26/2014	northeastern Missisquoi Bay	Visual	Supplemental	3			not tested	not tested
		6/15/2014	Phillipsburg, QC	Visual	Routine - Weekly	1b				
		6/24/2014	Phillipsburg, QC	Visual	Routine - Weekly	1b				
		6/30/2014	Phillipsburg, QC	Visual	Routine - Weekly	1a				
		7/7/2014	Phillipsburg, QC	Visual	Routine - Weekly	1b				
		7/13/2014	Phillipsburg, QC	Visual	Routine - Weekly	1d				
		8/3/2014	Phillipsburg, QC	Visual	Routine - Weekly	3				
		8/10/2014	Phillipsburg, QC	Visual	Routine - Weekly	3				
		8/17/2014	Phillipsburg, QC	Visual	Routine - Weekly	3				
		8/24/2014	Phillipsburg, QC	Visual	Routine - Weekly	3				
		8/31/2014	Phillipsburg, QC	Visual	Routine - Weekly	3				
		6/15/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1a	not sampled		not tested	not tested
		6/22/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1b	0	no cyanobacteria observed	<0.16	<0.5
		6/29/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1b	0		<0.16	<0.5
		7/6/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1b	187	Microcystis	<0.16	<0.5
		7/13/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1a	0	no cyanobacteria observed	<0.16	<0.5
		7/20/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1b	4200	Aphanizomenon, Aphanothece	<0.16	<0.5
		7/27/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1d	18700	Anabaena, Aphanizomenon, Microcystis	0.24	<0.5
		8/3/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1d	1480	Microcystis	0.19	<0.5

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	Missisquoi Bay	8/10/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	3	363800	Anabaena, Microcystis	0.2	<0.5
		8/17/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	2	40400	Anabaena, Aphanothece, Microcystis	2.15	<0.5
		8/24/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	3	2205200	Anabaena, Aphanizomenon, Microcystis	2.29	<0.5
		9/1/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	2	21300	Anabaena, Aphanothece, Microcystis	0.82	<0.5
		9/7/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1d	4130	Anabaena	0.4	<1.0
		9/14/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1b	613	Aphanizomenon	<0.16	<0.5
		9/21/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1b	2590	Aphanizomenon, Aphanothece, Microcystis	0.26	<0.5
		9/28/2014	Shipyard, Highgate Springs	Visual/Tiered Alert	Routine - Weekly	1a	0		0.24	<0.5
		8/26/2014	southeastern Missisquoi bay	Visual	Supplemental	2			not tested	not tested
		7/29/2014	Venise, Quebec	Visual	Supplemental	3			not tested	not tested
	South Lake	6/28/2014	Allen Bay	Visual	Routine - Weekly	1b				
		7/11/2014	Allen Bay	Visual	Routine - Weekly	1a				
		7/19/2014	Allen Bay	Visual	Routine - Weekly	1a				
		7/30/2014	Allen Bay	Visual	Routine - Weekly	1a				
		8/5/2014	Allen Bay	Visual	Routine - Weekly	1a				
		8/11/2014	Allen Bay	Visual	Routine - Weekly	1a				
		8/18/2014	Allen Bay	Visual	Routine - Weekly	1a				
		8/25/2014	Allen Bay	Visual	Routine - Weekly	1a				
		8/30/2014	Allen Bay	Visual	Routine - Weekly	1a				
		6/15/2014	Lapham Bay	Visual	Routine - Weekly	1b				
		6/22/2014	Lapham Bay	Visual	Routine - Weekly	1a				
		6/29/2014	Lapham Bay	Visual	Routine - Weekly	1b				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	South Lake	7/6/2014	Lapham Bay	Visual	Routine - Weekly	1b				
		7/13/2014	Lapham Bay	Visual	Routine - Weekly	1b				
		7/21/2014	Lapham Bay	Visual	Routine - Weekly	1b				
		7/27/2014	Lapham Bay	Visual	Routine - Weekly	1b				
		8/3/2014	Lapham Bay	Visual	Routine - Weekly	1a				
		8/10/2014	Lapham Bay	Visual	Routine - Weekly	1b				
		8/17/2014	Lapham Bay	Visual	Routine - Weekly	1a				
		8/24/2014	Lapham Bay	Visual	Routine - Weekly	1b				
		8/31/2014	Lapham Bay	Visual	Routine - Weekly	1b				
		9/7/2014	Lapham Bay	Visual	Routine - Weekly	1b				
		9/14/2014	Lapham Bay	Visual	Supplemental	1b				
		9/21/2014	Lapham Bay	Visual	Supplemental	1b				
		6/20/2014	LTM 02	Tiered Alert	Routine - Biweekly	Quantitative	0	Aphanizomenon	not tested	not tested
		7/8/2014	LTM 02	Tiered Alert	Routine - Biweekly	Quantitative	13	Anabaena, Aphanizomenon	not tested	not tested
		7/31/2014	LTM 02	Tiered Alert	Routine - Biweekly	Quantitative	7	Anabaena, Aphanizomenon	not tested	not tested
		8/18/2014	LTM 02	Tiered Alert	Routine - Biweekly	Quantitative	0		not tested	not tested
		9/5/2014	LTM 02	Tiered Alert	Routine - Biweekly	Quantitative	0		not tested	not tested
		6/20/2014	LTM 04	Tiered Alert	Routine - Biweekly	Quantitative	7	Anabaena	not tested	not tested
		7/8/2014	LTM 04	Tiered Alert	Routine - Biweekly	Quantitative	6	Anabaena, Aphanizomenon	not tested	not tested
		7/31/2014	LTM 04	Tiered Alert	Routine - Biweekly	Quantitative	294	Anabaena, Aphanizomenon	not tested	not tested
		8/18/2014	LTM 04	Tiered Alert	Routine - Biweekly	Quantitative	95	Aphanizomenon	not tested	not tested
		9/5/2014	LTM 04	Tiered Alert	Routine - Biweekly	Quantitative	84	Anabaena, Aphanizomenon	not tested	not tested
		6/17/2014	Marlena Bay	Visual	Routine - Weekly	1b				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	South Lake	6/23/2014	Marlena Bay	Visual	Routine - Weekly	1b				
		7/2/2014	Marlena Bay	Visual	Routine - Weekly	1b				
		7/9/2014	Marlena Bay	Visual	Routine - Weekly	1b				
		7/15/2014	Marlena Bay	Visual	Routine - Weekly	1a				
		7/22/2014	Marlena Bay	Visual	Routine - Weekly	1b				
		7/28/2014	Marlena Bay	Visual	Routine - Weekly	1a				
		8/12/2014	Marlena Bay	Visual	Routine - Weekly	1a				
		8/26/2014	Marlena Bay	Visual	Routine - Weekly	1a				
		9/10/2014	Marlena Bay	Visual	Routine - Weekly	1a				
		9/23/2014	Marlena Bay	Visual	Supplemental	1b				
		6/25/2014	Ticonderoga Boat Launch	Visual	Supplemental	1c				
	St. Albans Bay	6/23/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	1d				
		6/30/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	1b				
		7/7/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	1a				
		7/14/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	1a				
		7/21/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	1a				
		7/29/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	2				
		8/4/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	1a				
		8/11/2014	Ferrand Rd. St. Albans	Visual	Routine - Biweekly	3				
		8/18/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	2				
		8/25/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	3				
		9/1/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	3				
		9/3/2014	Ferrand Rd. St. Albans	Visual	Supplemental	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	St. Albans Bay	9/8/2014	Ferrand Rd. St. Albans	Visual	Routine - Weekly	1a				
		9/1/2014	Georgia Beach	Visual	Supplemental	3				
		6/17/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		6/25/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		6/30/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		7/9/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		7/15/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		7/22/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		7/30/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		8/6/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		8/12/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		8/19/2014	Georgia Shore	Visual	Routine - Weekly	3				
		8/19/2014	Georgia Shore	Visual	Supplemental	3				
		8/26/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		9/2/2014	Georgia Shore	Visual	Routine - Weekly	1a				
		9/17/2014	Georgia Shore	Visual	Supplemental	1a				
		7/7/2014	Kill Kare State Park	Visual	Routine - Weekly	1a				
		7/14/2014	Kill Kare State Park	Visual	Routine - Weekly	1a				
		7/21/2014	Kill Kare State Park	Visual	Routine - Weekly	1a				
		7/28/2014	Kill Kare State Park	Visual	Routine - Weekly	1a				
		8/4/2014	Kill Kare State Park	Visual	Routine - Weekly	1a				
		8/11/2014	Kill Kare State Park	Visual	Routine - Weekly	1b				
		8/18/2014	Kill Kare State Park	Visual	Routine - Weekly	1a				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	St. Albans Bay	8/25/2014	Kill Kare State Park	Visual	Routine - Weekly	1a				
		6/6/2014	LTM 40	Tiered Alert	Routine - Biweekly	Qualitative	0	No cyanobacteria observed	not tested	not tested
		6/27/2014	LTM 40	Tiered Alert	Routine - Biweekly	Qualitative	0	Anabaena	not tested	not tested
		7/16/2014	LTM 40	Tiered Alert	Routine - Biweekly	Qualitative	145	Anabaena, Microcystis	not tested	not tested
		8/6/2014	LTM 40	Tiered Alert	Routine - Biweekly	Alert 1	42800	Anabaena, Aphanothece	<0.16	<0.5
		8/19/2014	LTM 40	Tiered Alert	Routine - Biweekly	Alert 2 (visible scum)	853600	anabaena	0.2	<0.5
		9/8/2014	LTM 40	Tiered Alert	Routine - Biweekly	3	18400	Anabaena, Aphanizomenon, Aphanothece, Microcystis	< 0.16	< 1.0
		6/16/2014	St. Albans Bay Park	Visual	Routine - Weekly	1a				
		6/23/2014	St. Albans Bay Park	Visual	Routine - Weekly	1a				
		6/30/2014	St. Albans Bay Park	Visual	Routine - Weekly	1a				
		7/7/2014	St. Albans Bay Park	Visual	Routine - Weekly	1b				
		7/14/2014	St. Albans Bay Park	Visual	Routine - Weekly	1d				
		7/21/2014	St. Albans Bay Park	Visual	Routine - Weekly	1d				
		7/29/2014	St. Albans Bay Park	Visual	Routine - Weekly	1d				
		8/4/2014	St. Albans Bay Park	Visual	Routine - Weekly	3				
		8/6/2014	St. Albans Bay Park	Visual	Supplemental	3				
		8/8/2014	St. Albans Bay Park	Visual	Supplemental	3				
		8/8/2014	St. Albans Bay Park	Visual	Supplemental	3				
		8/11/2014	St. Albans Bay Park	Visual	Routine - Biweekly	3				
		8/18/2014	St. Albans Bay Park	Visual	Routine - Weekly	2				
		8/25/2014	St. Albans Bay Park	Visual	Routine - Weekly	3				
		9/1/2014	St. Albans Bay Park	Visual	Routine - Weekly	2				
		9/3/2014	St. Albans Bay Park	Visual	Supplemental	3				

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Champlain	St. Albans Bay	9/8/2014	St. Albans Bay Park	Visual	Routine - Weekly	3				
		6/23/2014	St. Albans Boat Launch	Visual	Routine - Weekly	1d				
		6/30/2014	St. Albans Boat Launch	Visual	Routine - Weekly	1a				
		7/7/2014	St. Albans Boat Launch	Visual	Routine - Weekly	1a				
		7/11/2014	St. Albans Boat Launch	Visual	Supplemental	1d				
		7/21/2014	St. Albans Boat Launch	Visual	Routine - Weekly	1d				
		8/1/2014	St. Albans Boat Launch	Visual	Supplemental	2				
		8/4/2014	St. Albans Boat Launch	Visual	Routine - Weekly	3				
		8/6/2014	St. Albans Boat Launch	Tiered Alert	Routine - Biweekly	Alert 1	5800	Anabaena, Aphanizomenon	<0.16	<0.5
		8/11/2014	St. Albans Boat Launch	Visual	Supplemental	3				
		8/19/2014	St. Albans Boat Launch	Tiered Alert	Routine - Biweekly	Quantitative	1890	Anabaena, Aphanizomenon, Microcystis	not tested	not tested
		9/8/2014	St. Albans Boat Launch	Tiered Alert	Routine - Biweekly	Alert 1	21700	Anabaena, Aphanizomenon, Aphanothece	< 0.16	< 1.0
Lake Carmi		8/19/2014	Lake Carmi Area "A"	Visual	Supplemental	2	1066800	Anabaena, Aphanizomenon, Gloeotrichia, Scytonema spp, unidentified Oscillatoriaceae, Woronichinia/Coelosphaerium	0.38	< 0.5
		8/19/2014	Lake Carmi Area "B"	Visual	Supplemental	2	112500	Anabaena, Aphanothece, Scytonema spp, unidentified Oscillatoriaceae	<0.16	< 0.5
		8/12/2014	Lake Carmi North	Visual	Supplemental	1c	579400	Anabaena, Aphanizomenon, Aphanothece, unidentified Oscillatoriaceae	<0.16	< 0.5
		8/26/2014	Lake Carmi North	Visual	Supplemental	2			0.39	< 0.5
		9/3/2014	Lake Carmi North	Visual	Supplemental	1a				
		9/8/2014	Lake Carmi North	Visual	Supplemental	2				
		9/15/2014	Lake Carmi North	Visual	Supplemental	2				
		6/24/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1c	8110	Anabaena, Aphanothece	<0.16	<0.5
		7/1/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1c	82700	Anabaena, Aphanothece	<0.16	<0.5
		7/8/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1c	34700	Anabaena, Aphanizomenon, Aphanothece, Pseudanabaena	<0.16	<0.5
		7/15/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1a	35500	Aphanothece	<0.16	<0.5



Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Carmi		7/22/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1c	3140	Anabaena, Aphanizomenon, Aphanothece	<0.16	<0.5
		7/29/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1c	65000	Anabaena, Aphanizomenon, Aphanothece, Gloeotrichia	<0.16	<0.5
		8/5/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1c	10100	Anabaena, Aphanizomenon, Aphanothece, Gloeotrichia	<0.16	<0.5
		8/12/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1c	83000	Anabaena, Aphanizomenon, Aphanothece, Oscillatoria	<0.16	< 0.5
		8/19/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	2	182400	Anabaena, Aphanizomenon, Microcystis, Oscillatoria	<0.16	< 0.5
		8/26/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1d	52000	possible Phormidium, Anabaena, Aphanizomenon, Apha	0.38	< 0.5
		9/3/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1a	23400	Anabaena, Aphanizomenon, Aphanothece, unidentified Oscillatoriaceae	<0.16	< 0.5
		9/8/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1a	169700	Anabaena, Aphanizomenon, Aphanothece, Microcystis,	<0.16	<1.0
		9/15/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1d	304200	Anabaena, Aphanizomenon, Aphanothece, Microcystis,	0.35	< 0.5
		9/22/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1a	22700	Aphanizomenon, Aphanothece, Microcystis, unidentif	< 0.16	< 0.5
		9/29/2014	Lake Carmi State Park	Visual/Tiered Alert	Routine - Weekly	1c	9250	Anabaena, Aphanizomenon, Aphanothece	0.32	< 0.5
Lake Elmore		6/24/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1b	7410	Microcystis	0.16	<0.5
		7/1/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1b	3120	Anabaena, Coelosphaerium	<0.16	<0.5
		7/8/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1a	2690	Aphanothece, Microcystis	0.18	<0.5
		7/15/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1a	4040	Anabaena, Aphanizomenon, Aphanothece, Microcystis	<0.16	<0.5
		7/22/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1c	119	Anabaena	<0.16	<0.5
		7/29/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1c	7180	Aphanothece	<0.16	0.9
		8/5/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1c	6200	Anabaena, Aphanothece, Microcystis	<0.16	<0.5
		8/12/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1b	4680	Anabaena, Aphanothece	<0.16	< 0.5
		8/19/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1c	19700	Aphanothece, Radiocystis	<0.16	<0.5
		8/26/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1a	15000	Aphanothece, Radiocystis	< 0.16	<0.5

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Elmore		9/3/2014	Lake Elmore State Park	Visual/Tiered Alert	Routine - Weekly	1a	6500	Aphanothece	<0.16	<0.5
Lake Iroquois		6/24/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1c	3370	Anabaena, Aphanizomenon	<0.16	<0.5
		7/1/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1c	3640	Anabaena, Aphanizomenon	<0.16	<0.5
		7/8/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1c	32800	Anabaena, Aphanizomenon, Aphanothece, Microcystis,	<0.16	<0.5
		7/15/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1c	21100	Anabaena, Aphanizomenon, Aphanothece	<0.16	<0.5
		7/22/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1c	17100	Anabaena, Aphanizomenon, Aphanothece	<0.16	<0.5
		7/29/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1c	5330	Anabaena, Aphanizomenon, Aphanothece	<0.16	<0.5
		8/5/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1c	18300	Anabaena, Aphanizomenon, Aphanothece	<0.16	<0.5
		8/12/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1c	17100	Anabaena, Aphanizomenon, Aphanothece	<0.16	<0.5
		8/19/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1c	67900	Anabaena, Aphanizomenon	<0.16	<0.5
		8/26/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1a	29100	Anabaena, Aphanizomenon	< 0.16	<0.5
		9/3/2014	Hinesburg Town Beach	Visual/Tiered Alert	Routine - Weekly	1a	10300	Anabaena, Aphanizomenon	<0.16	<0.5
Lake Memphremagog		6/24/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1c	0		<0.16	<0.5
		7/1/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1c	1930	Aphanizomenon, Aphanothece	<0.16	<0.5
		7/8/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1a	18000	Aphanizomenon, Aphanothece	<0.16	<0.5
		7/15/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1a	14300	Aphanizomenon, Aphanothece, Oscillatoria	<0.16	<0.5
		7/22/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1c	44100	Aphanizomenon, Aphanothece	<0.16	<0.5
		7/29/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1c	960	Aphanizomenon	<0.16	<0.5
		8/5/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1c	167	Aphanothece	<0.16	<0.5
		8/12/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1c	2360	Anabaena, Aphanothece, Woronichinia/Coelosphaerium	<0.16	<0.5
		8/19/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1c	0		<0.16	<0.5
		8/26/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1c	3750	Aphanothece	< 0.16	<0.5

Waterbody	Region	Report Date	Station	Method	Report Frequency	Assessment	Potentially Toxic Cyano (cells/mL)	Taxa Present	Microcystin as LR equivalents (µg/L)	Anatoxin (µg/L)
Lake Memphremagog		9/3/2014	Prouty Beach	Visual/Tiered Alert	Routine - Weekly	1a	0		<0.16	<0.5