

**Fluridone Water Quality Monitoring Schedule and Results - Summer 2012**

**Cayuga Lake and inlet, Ithaca NY**

New York State Department of Health (NYSDOH) Maximum Contaminant Level (MCL) for fluridone in drinking water: MCL = 50 ppb. Results below are in ppb. Fluridone application initiated 7/12/12		Back-ground	24 hrs	48hrs	72 hrs	Day 4	Day 11	Week 3	Week 4	Week 5	Week 6
Site	Location	7/12/2012	7/13/2012 (Fri)	7/14/2012 (Sat)	7/15/2012 (Sun)	7/16/2012 (Mon)	7/23/2012 (Mon)	7/30/2012 (Mon)	8/6/2012	8/13/2012	8/20/2012
<b>NYSDEC Required Sampling - bottom of water column</b>											
S12-CC	Shoreline - 0.5 mile upstream on Cascadilla Creek		<0.5	<0.5	<0.5		<0.5	<0.5	<0.5		
S12-I	Shoreline - 0.5 mile upstream on East Side of Inlet		<0.5	<0.5	<0.5		<0.5	<0.5	0.5		
S12-BB	Shoreline - 0.5 mile upstream on West Side of Inlet		12.2	13	13		3.77	1.51	<0.5		
S12-89W	Shoreline - 0.5 mile on west lakeshore close to Rt 89		<0.5	<0.5	<0.5		<0.5	<0.5	<0.5		
S12-SM	Shoreline - 0.5 mile upstream on Sixmile Creek		<0.5	<0.5	<0.5		<0.5	<0.5	<0.5		
S12-SP	Shoreline - 0.5 mile on east lakeshore at Stewart Park		<0.5	<0.5	<0.5		<0.5	<0.5	<0.5		
<b>SePRO FasTest Samples</b>											
BP-I <sup>1</sup>	Bolton Point intake ~70' below lake surface	<1.0					<1.0			<1.0	
BP-ID*	Bolton Point intake - CSI duplicate	<0.5					<0.5			<0.5	
<b>Within the application area</b>											
CI-1						5.3	3.4	3.5	5.8	5.7	4.3
CI-2						5.3	3.9	4.1	4.5	4.5	4.5
CI-3	Fairgrounds Memorial Parkway					17.4	9.5	5.2	4.2	1.4	2.4
CI-3D	CSI duplicate						9.37	4.3		1.56	
CI-4						5.4	4.2	4.4	5	4.3	10.9
CI-5						6.3	3.8	3.7	3.6	4.1	5
CI-6						10.2	8.3	6.7	6.6	4.8	10.9
CI-7						3.9	3.9	3.4	2.7	3.4	5.6
CI-8						1.9	2.7	2.8	3.3	2.3	4.6
CI-9						3.5	1.9	1.1	0.5	1.5	2.5
CI-9D	CSI duplicate - replaces CI-11D									1.59	
CI-10 <sup>1</sup>	Inlet mouth - West					2.3	<1.00	0.5	0.5	1.1	0.5
CI-10D	CSI duplicate						0.97	<0.5		1.07	
CI-11 <sup>1</sup>	Inlet mouth - East					0.5	<1.00	0.5	0.5		Sampling location rep
CI-11D	CSI duplicate						0.84	<0.5			Sampling location rep
CI-12	New Sampling Point								2.6	1.8	5.7
CI-13											
CI-14	New Sampling Points to acquire more information on fluridone concentrations at the entry to the lake										
CI-15											
CI-16											

**Notes:**

- Additional samples may be required depending on concentrations detected.
- Concentrations must be below 1 ppb for irrigation and hydroponic use.

<sup>1</sup>Required by TCHD

<sup>2</sup>S12-BB cannot be located 0.5 mile upstream due to hydraulic constraints. The sampling point is in the application area.

rev November 1, 2012

**Additional Notes:**

**NYSDEC**

- Sampling to continue for a minimum of one month and then until results are less than the detectable limit of 5 ppb outside the treatment area.
- If concentrations found above detectable limit at any NYSDEC site, an increased sampling protocol of 0.25 mile intervals, as well as notification of the riparian owners and users will be required as determined by the Department until concentrations are below detectable limits.
- Samples must be collected at the end of the application period to establish concentrations <1ppb.
- Concentrations must be below 1 ppb for irrigation and hydroponic use.

**TCHD**

*Bolton Point Intake:* After the first 2 weeks, sampling continues monthly while the application continues.

If results exceed 10 ppb at the intake, a sample must be collected from the entry point to the distribution system.

*CI-3, CI-10, and CI-11:* Samples to be analyzed weekly for the first month, then biweekly for the duration of the application period.

In the event that concentrations are detected > 10 ppb, the Tompkins County Health shall be notified and the monitoring plan revised.

Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 20
8/27/2012	9/4/2012	9/10/2012	9/17/2012	9/24/2012	10/1/2012	10/8/2012	10/15/2012	10/22/2012	10/29/2012	11/7/2012	11/14/2012	11/26/2012
	<0.5					<0.5				1.33	<1.00	
	<0.5					<0.5				1.92	<1.00	
	1.89					<0.5				<0.5		
	<0.5					<0.5				1.87	<1.00	
	<0.5					<0.5				<0.5		
	0.69		0.62			<0.5				4.29	<1.00	
	<1.0				<1.0	<1.0			<1.0			
	<0.5				<0.5	<0.5			2.74			
5.0	6.7	7.0	7	7.5	7.9	6.7	9.7	9	5.5	1.65	2.9	<1.00
6.6	Sampling discontinued											
2.9	2.2	4.4	4.6	2.7	3.6	4.2	6.1					
6.7	8.8	8.3	5.2	7.7	8.9	7.6	8.9	5.7	7.1	2.31	<1.00	
5.5	Sampling discontinued											
15.2	10.9	7.7	8.8	5.9	6.9	6.1	7.6	6.9	8.9	<0.5		
5.5	7.1	7.9	6.5	5.1	5.9	6.4	6.6					
5.6	5.4	6.2	6.5	4.8	4.7	6.3	6.9		6.4			
4.3	2.4	6.4	4.8	3.6	2.3	5.1	<1.0	3.7	3.0			
						6.7						
0.5	<1.0	9.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0				
						1.9						
laced by CI-12												
laced by CI-9D												
4.5	5.3	6.9	5.8	4.5	5.0	5.8	6.2		1.8			
1.1		6.5	2.7	1.2	<1.0	<1.0	1.5	<1.0				
2.2		6.0	2.2	1.7	<1.0	<1.0	1.5	<1.0				
1.8	<1.0	7.6	1.0	<1.0	<1.0	<1.0	<1.0	<1.0				
1.1	<1.0	6.1	2.2	<1.0	<1.0	<1.0	1.1	<1.0				