

**Appendix Table - 2004-2013 Water Quality Data by Sampling Date**  
**2004**

Sampling Date	Temperature - in Degrees F.	Depth ft.	Surface	Temperature - in Degrees F.											
				3	6	9	12	15	18	21	24	27	30	33	36
5/2/2004	1000	Reading	46	46	46	46.0	46	46	45	45	44	44	-	-	-
6/5/2004	1300	Reading	68	66	66	62.0	58	55	-	-	-	-	-	-	-
7/20/2004	1300	Reading	78	76	72	68.0	64	59	55	-	-	-	-	-	-
8/23/2004	1130	Reading	65	65	65	64.0	64	64	58	55	-	-	-	-	-
10/12/2004	1130	Reading	57	57	57	56.0	56	-	-	-	-	-	-	-	-
<b>Dissolved Oxygen - in mg/l</b>															
5/2/2004	1000	Reading	-	8	-	-	8	8	8	8	-	-	-	-	7
6/5/2004	1300	Reading	8	8	8	8.0	8	8	-	-	-	-	-	-	-
7/20/2004	1300	Reading	10	10	10	8.0	5	4	3	-	-	-	-	-	-
8/23/2004	1130	Reading	8	8	8	8.0	8	8	4	-	-	-	-	-	-
10/12/2004	1130	Reading	8	8	8	8.0	10	-	-	-	-	-	-	-	-
							<u>5/2</u>	<u>6/5</u>	<u>6/29</u>	<u>7/20</u>	<u>8/23</u>	<u>8/30</u>	<u>10/12</u>		
<b>Lake Stage - feet</b>							1.3	1.2	0.8	0.8	0.8	-	0.8		
<b>Seicchi Disk - feet</b>							7.0	7.0	9.0	8.5	8.0	9.5	6.5		
<b>Total Phosphorus - ug/l</b>							21.0	16	-	11	15	-	19		
<b>Chlorophyll - ug/l</b>							-	7.2	-	2.9	2.1	-	15.4		
<b>Trophic State Calculations</b>															
<b>Secchi Disk Readings</b>							49	49	-	45	47	-	50		
<b>Chlorophyll Readings</b>							-	50	-	43	40	-	55		
<b>Total Phosphorus Reading:</b>							52	50	-	47	49	-	51		

**2005**

Sampling Date	Temperature - in Degrees F.	Depth ft.	Surface	Temperature - in Degrees F.											
				3	6	9	12	15	18	21	24	27	30	33	36
5/7/2005	1000	Reading	50	50	49	49.2	49	49	49	-	48	-	-	-	-
6/19/2005	1400	Reading	72	72	72	71.2	70	67	58	-	58	-	-	-	-
7/17/2005	1130	Reading	82	82	82	75.0	70	67	55	-	53	-	-	-	-
8/14/2005	1130	Reading	74	74	73	72.8	73	73	72	65	58	54	-	-	53
10/9/2005	1130	Reading	59	57	57	56.6	57	57	57	56	56	56	-	-	56
<b>Dissolved Oxygen - in mg/l</b>															
5/7/2005	1000	Reading	-	6	-	-	6	6	6	-	6	-	-	-	-
6/19/2005	1400	Reading	-	10	-	-	8	8	6	-	4	-	-	-	-
7/17/2005	1130	Reading	-	8	-	8.0	6	-	5	-	5	-	-	-	-
8/14/2005	1130	Reading	-	8	-	-	8	-	-	6	2	2	-	-	-
10/9/2005	1130	Reading	8	8	8	8.0	8	8	8	8	8	8	-	-	-
							<u>5/7</u>	<u>6/19</u>	<u>7/17</u>	<u>8/14</u>	<u>8/23</u>	<u>9/8</u>	<u>10/09</u>		
<b>Lake Stage - feet</b>							1.0	1.2	0.5	0.4	0.4	0.3	1.7		
<b>Seicchi Disk - feet</b>							6.5	9.0	8.5	8.0	8.0	7.5	8.5		
<b>Total Phosphorus - ug/l</b>							21.0	10	29	21	-	-	11		
<b>Chlorophyll - ug/l</b>							-	2.1	3.1	4.4	-	-	6.3		
<b>Trophic State Calculations</b>															
<b>Secchi Disk Readings</b>							50	45	46	47	-	-	46		
<b>Chlorophyll Readings</b>							-	40	43	46	-	-	49		
<b>Total Phosphorus Reading:</b>							52	46	54	52	-	-	47		

**2006**

Sampling Date	Temperature - in Degrees F.	Depth ft.	Surface	Temperature - in Degrees F.											
				3	6	9	12	15	18	21	24	27	30	33	
5/13/2006	1500	Reading	50.5	50.5	50.5	50.5	50.5	50.5	50.5	50.5	-	-	-	-	-
6/13/2006	1300	Reading	70.5	70	69.8	67.6	65.3	61.8	58.6	54.3	52.3	51.8	-	-	-
7/11/2006	1300	Reading	74.6	73.2	72.8	72.6	71.8	58.8	53.7	53.7	53.7	53	52.8	-	-
8/8/2006	1300	Reading	76.6	-	75.5	-	75.2	75.2	75.0	73.2	56.8	54.6	53.9	53.4	-
10/2/2006	1200	Reading	58.1	-	57.2	-	-	56.6	56.4	-	56.4	-	-	54.6	-

		Dissolved Oxygen - in mg/l												
5/13/2006	1400	Reading	-	8	-	8.0	-	-	8	8	-	-	-	-
6/13/2006	1200	Reading	8	-	8	8.0	-	8	-	6	-	4	-	-
7/11/2006	1300	Reading	-	-	10	-	8	8	8	4	2	2	2	-
8/8/2006	1300	Reading	-	-	8	-	-	8	-	8	6	3	-	2
10/2/2006	1200	Reading	8	-	8	-	-	8	8	-	8	-	-	8

	<u>5/13</u>	<u>6/13</u>	<u>7/11</u>	<u>8/8</u>	<u>9/7</u>	<u>10/2</u>
Lake Stage - feet	1.2	0.6	0.4	0.5	0.3	0.4
Seicchi Disk - feet	6.0	9.5	8.0	8.5	8.5	7.5
Total Phosphorus - ug/l	31.0	18	18	17	-	27
Chlorophyll - ug/l	-	4.3	4.2	3.7	-	12.5

#### Trophic State Calculations

Secchi Disk Readings	51	45	47	46	-	48
Chlorophyll Readings	-	46	46	45	-	54
Total Phosphorus Reading:	55	51	51	50	-	54

### 2007

Sampling Date	Time	Temperature - in Degrees F.	Depth ft.	Surface	3	6	9	12	15	18	21	24	27	30	33	36
5/2/2007	1300	Reading	51.8	51.6	-	51.6	-	50.7	-	47.6	-	-	-	46.0	-	-
6/25/2007	1200	Reading	74.6	74.6	74.4	74.1	74.1	73.2	70.5	64.4	59.1	57.2	54.8	52.7	-	-
7/16/2007	1200	Reading	73.2	71.3	70.1	69.6	69.2	69.2	68.0	68.1	68.0	58.4	57.0	53.6	-	-
8/18/2007	1300	Reading	72.3	72.3	72.3	72.3	72.1	71.9	71.7	71.4	66.0	60.2	57.5	56.1	56.1	-
10/3/2007	1300	Reading	60.4	-	-	-	60.2	-	-	-	60.2	-	-	-	-	55.0

#### Dissolved Oxygen - in mg/l

5/2/2007	1300	Reading	8	8	-	-	-	8	-	-	8	-	-	-	-	-
6/25/2006	1200	Reading	-	-	8	-	8	-	8	8	8	4	-	2	-	-
7/16/2007	1200	Reading	-	8	-	8.0	-	-	8	6	6	2	2	1	-	-
8/18/2007	1300	Reading	-	-	-	-	-	7	7	7	6	5	3	2	-	-
10/3/2007	1300	Reading	-	-	8	-	-	8	-	-	8	-	-	-	-	-

	<u>5/2</u>	<u>6/25</u>	<u>7/15</u>	<u>8/18</u>	<u>9/9</u>	<u>10/3</u>
Lake Stage - feet	-	0.5	0.2	<0.1	<0.1	0.3
Seicchi Disk - feet	-	7.5	8.5	6.0	8.0	8.0
Total Phosphorus - ug/l	14.0	12	17	19	-	-
Chlorophyll - ug/l	-	4.0	4.6	8.2	-	-

#### Trophic State Calculations

Secchi Disk Readings	49	48	46	51	-	47
Chlorophyll Readings	-	45	44	51	-	-
Total Phosphorus Reading:	49	47	50	51	-	-

### 2008

Sampling Date	Time	Temperature - in Degrees F.	Depth ft.	Surface	3	6	9	12	15	18	21	24	27	30	33	36
5/11/2008	1300	Reading	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	-	-
6/1/2008	1300	Reading	62.2	60.2	59.9	59.5	59.3	58.2	58	53.9	50.3	49.8	49.4	49.4	49.4	-
7/27/2008	1200	Reading	73.9	73.7	72.6	72.5	71.9	66.9	65.1	63.5	58.8	55.2	53.8	52.6	51.9	-
8/10/2008	1130	Reading	74.4	73.7	73.4	73.0	72.3	70.5	66.5	62.2	54.3	53.7	53.4	53.0	52.8	-
10/14/2008	1230	Reading	56.2	56.2	56.1	55.9	-	55.9	-	55.9	-	55.4	55.4	-	-	-

	<u>5/11</u>	<u>6/1</u>	<u>7/27</u>	<u>8/10</u>	<u>10/14</u>
Lake Stage - feet	0.5	0.2	<0.1	<0.1	0.3
Seicchi Disk - feet	7.5	8.5	6.0	8.0	8.0
Total Phosphorus - ug/l	17.0	20	17	18	-
Chlorophyll - ug/l	-	0.9	3.0	6.1	-

#### Trophic State Calculations

Secchi Disk Readings	53	47	49	50	45
Chlorophyll Readings	-	34	43	48	-
Total Phosphorus Reading:	50	51	50	51	-

**2009**

Sampling Date	Temperature - in Degrees F.	Temperature - in Degrees F.													
		Depth ft.	Surface	3	6	9	12	15	18	21	24	27	30	33	36
5/4/2009	1200	Reading	49.2	48.2	48.0	48.0	48.0	48.0	47.8	47.8	47.4	47.4	47.4	-	-
6/14/2009	1230	Reading	67.2	65.4	63.6	63.1	59.7	58.6	57.9	57.5	57.2	57.0	57.0	56.6	56.4
7/18/2009	1200	Reading	66.0	65.8	65.8	65.8	65.6	65.6	65.6	64.2	58.4	56.6	56.1	54.6	54.6
8/16/2009	1230	Reading	76.2	76.2	76.2	75.7	74.6	68.7	68.0	67.4	67.4	63.2	59.1	56.3	56.1
10/9/2009	1400	Reading	56.3	56.2	56.1	-	-	55.9	55.7	-	-	-	55.5	-	-
						<u>5/04</u>	<u>6/14</u>	<u>7/18</u>	<u>8/16</u>	<u>9/19</u>	<u>10/9</u>				
		Lake Stage - feet				1.3	0.7	0.6	0.7	0.4	0.6				
		Seicchi Disk - feet				7.0	7.0	9.0	8.0	9.0	7.0				
		Total Phosphorus - ug/l				24	17	16	17	-	-				
		Chlorophyll - ug/l				-	4.8	5.7	9.8	-	-				
		Trophic State Calculations													
		Secchi Disk Readings				49	49	45	47	-	45				
		Chlorophyll Readings				-	47	48	52	-	-				
		Total Phosphorus Reading:				53	50	50	50	-	-				

**2010**

Sampling Date	Temperature - in Degrees F.	Temperature - in Degrees F.													
		Depth ft.	Surface	3	6	9	12	15	18	21	24	27	30	33	36
5/4/2010	1200	Reading	-	53.2	-	-	53.0	-	52.8	52.7	-	52.3	-	-	-
6/14/2010	1230	Reading	70.3	70.1	69.5	66.9	64.9	63.9	59.7	56.4	53.9	53.0	52.3	51.9	51.6
7/12/2010	1200	Reading	76.4	76.4	75.9	75.5	72.8	67.4	59.0	56.8	53.6	53.4	52.5	52.1	51.8
8/23/2010	1230	Reading	73.4	72.6	71.9	71.4	70.5	69.8	69.2	67.8	65.6	55.2	53.4	52.5	52.3
10/15/2010	1400	Reading	56.6	56.6	56.1	-	56.1	-	56.1	-	56.1	56.1	-	-	-
						<u>5/4</u>	<u>6/26</u>	<u>7/12</u>	<u>8/23</u>	<u>10/15</u>					
		Lake Stage - feet				0.9	1.6	1.4	2.3	1.0					
		Seicchi Disk - feet				7.5	8.0	7.0	6.0	6.0					
		Total Phosphorus - ug/l				-	47	48	52	-					
		Chlorophyll - ug/l				-	7.2	9.3	7.4	-					
		Trophic State Calculations													
		Secchi Disk Readings				-	47	49	51	-					
		Chlorophyll Readings				-	50	52	50	-					
		Total Phosphorus Reading:				51	50	50	51	-					

**2011**

Sampling Date	Temperature - in Degrees F.	Temperature - in Degrees F.													
		Depth ft.	Surface	3	6	9	12	15	18	21	24	27	30	33	36
4/25/2011	1000	Reading	43.3	43.1	43.1	42.9	42.8	42.6	42.6	42.2	42.0	42.0	-	-	-
6/21/2011	1130	Reading	65.3	65.1	64.7	64.5	63.5	60.0	57.0	56.1	55.2	53.0	50.5	50.5	-
7/17/2011	1000	Reading	78.2	78.0	77.7	76.8	73.2	66.5	62.0	59.1	55.7	53.2	51.8	51.2	5.1
8/23/2011	1300	Reading	77.5	75.9	74.1	73.4	73.0	71.9	68.3	59.7	56.1	53.7	52.8	52.3	52.1
10/04/2011	-	Reading	-	-	-	-	-	-	-	-	-	-	-	-	-
						<u>4/25</u>	<u>6/21</u>	<u>7/17</u>	<u>8/14</u>	<u>10/4</u>					
		Lake Stage - feet				1.6	1.2	1.2	1.9	0.7					
		Seicchi Disk - feet				6.0	6.0	5.5	5	5.5					
		Total Phosphorus - ug/l				28	19	24	26	-					
		Chlorophyll - ug/l				-	8.1	10.6	7.9	-					
		Trophic State Calculations													
		Secchi Disk Readings				51	-	-	-	53					
		Chlorophyll Readings				-	51	53	50	-					
		Total Phosphorus Reading:				54	51	53	53	-					

**2012**

Sampling Date	Depth ft.	Temperature - in Degrees F.													
		Surface	3	6	9	12	15	18	21	24	27	30	33	36	
4/25/2012	1230	Reading	51.5	-	-	-	48.2	-	-	-	-	-	46.4	-	-
6/24/2012	1100	Reading	69.3	69.6	69.2	69.0	66.3	64.5	62.4	61.5	58.4	56.1	54.6	54.3	54.3
7/15/2012	1000	Reading	82.4	80.9	79.3	78.2	74.6	67.2	63.3	60.8	57.2	55.2	54.6	53.7	53.7
8/11/2012	1300	Reading	74.4	74.1	72.8	72.3	71.9	70.8	68.1	61.1	57.7	56.0	55.0	54.3	53.9
10/12/2012	1030	Reading	51.0	-	-	51.0	-	50.9	-	50.9	50.7	-	50.7	-	-
						<u>4/25</u>	<u>6/24</u>	<u>7/15</u>	<u>8/11</u>	<u>9/7</u>	<u>10/12</u>				
		Lake Stage - feet				1.3	2.1	1.2	0.6	1.0	0.4				
		Seicchi Disk - feet				5.5	6.0	6.5	5.5	7.5	5.5				
		Total Phosphorus - ug/l				31	37	33	21	-	-				
		Chlorophyll - ug/l				-	14.8	5.6	6.1	-	-				
		Trophic State Calculations													
		Secchi Disk Readings				53	51	50	48	-	53				
		Chlorophyll Readings				-	55	48	48	-	-				
		Total Phosphorus Reading:				55	56	55	52	-	-				

**2013**

Sampling Date	Depth ft.	Temperature - in Degrees F.													
		Surface	3	6	9	12	15	18	21	24	27	30	33	36	
5/23/2013	1100	Reading	50.4	-	50.0	-	46.8	-	-	-	45.6	-	45.6	-	-
6/18/2013	1100	Reading	66.0	65.6	64.2	62.9	56.4	50.7	48.0	47.6	47.3	46.5	45.6	45.6	-
7/15/2013	1000	Reading	78.6	78.1	73.4	72.6	71.6	65.1	55.4	48.1	47.1	46.0	45.8	45.6	-
8/11/2013	1300	Reading	72.1	71.9	71.4	69.4	68.9	65.9	59.3	51.0	47.3	46.5	46.2	46.2	-
10/12/2013	1030	Reading	56.4	56.4		56.6				56.4		56.1	55.7	55.7	-
						<u>5/4</u>	<u>5/23</u>	<u>6/18</u>	<u>7/15</u>	<u>8/12</u>	<u>9/18</u>	<u>10/12</u>			
		Lake Stage - feet				2.5	2.7	1.5	1.2	0.3	0.8	0.8			
		Seicchi Disk - feet				-	5.5	4.5	5.0	7.0	6.0	6.0			
		Total Phosphorus - ug/l				-	26.1	15.1	12.4	13.2	-	-			
		Chlorophyll - ug/l				-	-	7.6	6.4	8.0	-	-			
		Trophic State Calculations													
		Secchi Disk Readings				53	55	54	-	51	-	-			
		Chlorophyll Readings				-	50	49	-	-	-	-			
		Total Phosphorus Reading:				-	53	49	48	48	-	-			