

***Appendix D***

***Lake Holiday, Wing Lake, and Lake Rose  
2008 Water Quality Data***

## Lake Holiday 2008

Date	Max. Depth (M)	Sample Depth (M)	Secchi Depth (M)	Chl. a (µg/L)	D.O. (mg/L)	Temp. (°C)	Sp. Cond. (µmho/cm @ 25°C)	Total P (mg/L)	pH	Turbidity (NTU's)	Comments
5/1/2008	1.8	0-1.5	1.2	12.0	--	--	--	0.073		3.6	
		0.0			12.3	11.8	398	--	8.4		
		1.0			12.4	11.7	399	--	8.5		
		1.5			13.1	10.6	405	--	8.4		
6/17/2008	1.8	0-1.5	1.3	1.3	--	--	--	0.320		5.8	See aquatic plant survey map June, 2008, photos: June-08
		0.0			3.0	22.3	426	--	7.7		
		1.0			0.8	21.7	427	--	7.5		
		1.5			0.5	21.5	429	--	7.3		
7/17/2008	1.8	0-1.5	0.8	23.0	--	--	--	0.150		6.5	
		0.0			11.4	26.4	362	--	9.4		
		1.0			10.0	25.7	358	--	9.1		
		1.5			1.5	23.6	386	--	7.6		
8/5/2008	1.5	0-1	0.15	150.0	--	--	--	0.430		119.0	See aquatic plant survey map August, 2008, photos: August-08
		0.0			12.2	24.5	386	--	9.8		
		1.0			0.3	23.6	393	--	8.3		
8/19/2008	1.5	0-1	0.15	590.0	--	--	--	0.420		121.0	
		0.0			5.5	24.3	407	--	9.7		
		1.0			0.4	22.3	417	0.43	8.4		
9/4/2008	1.7	0-1	0.25	210.0	--	--	--	0.370		51.4	
		0.0			5.7	20.0	402	--			
		1.0			4.9	20.1	401	--			
		1.5			4.3	20.1	401	--			

### Wing Lake

Date	Max Depth (m)	Sample Depth (m)	Secchi Depth (m)	Chl. a (ug/L)	Turbidity (NTU's)	D. O. (mg/L)	Temp (°C)	Sp. Cond. (µmho/cm @ 25°C)	Total Phosphorus as P (mg/L)	Ortho Phosphate as P, Dissolved (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	pH (S.U.)	ORP (mv)	
4/30/08	2.1	0-1.5	2.1*	13.0	1.6	--	--	--	0.041	<0.0060	0.56	<0.020	--	--	
		0.0				10.6	11.3	350	--	--	--	8.6	234		
		1.0				10.6	11.0	349	--	--	--	8.6	234		
		1.5				10.5	10.5	350	--	--	--	8.6	234		
			*sd on bottom Water Level: 939.38'												
5/30/08				Water Level: 939.20'											
6/6/08				Water Level: 939.26'											
6/16/08	1.8	0-1.5	1.5*	4.0	2.4	--	--	--	0.046	<0.0060	0.92	<0.020	--	--	
		0.0				8.0	20.4	375	--	--	--	8.4	78		
		1.0				7.9	20.4	374	--	--	--	8.3	80		
		1.5				8.1	20.3	373	--	--	--	8.2	84		
			*Top of plants Water Level: 939.40'												
7/1/08				Water Level: 939.05'											
7/11/08				Water Level: 939.20'											
7/17/08	2.1	0-1.5	1.7	40.0	5.1	--	--	--	0.100	0.0068	0.91	<0.040	--	--	
		0.0				7.4	24.7	356	--	--	--	7.6	86		
		1.0				0.7	21.9	360	--	--	--	7.1	72		
		1.5				0.3	20.8	348	--	--	--	6.8	25		
			Water Level: 939.42'												

### Wing Lake

Date	Max Depth (m)	Sample Depth (m)	Secchi Depth (m)	Chl. a (ug/L)	Turbidity (NTU's)	D. O. (mg/L)	Temp (°C)	Sp. Cond. (µmho/cm @ 25°C)	Total Phosphorus as P (mg/L)	Ortho Phosphate as P, Dissovled (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrate + Nitrite Nitrogen (mg/L)	pH (S.U.)	ORP (mv)
8/5/08	1.8	0-1.5	0.8	44.0	5.4	--	--	--	0.110	.00060	1.10	<0.020	--	--
		0.0				3.5	22.3	372	--	--	--	7.7	142	
		1.0				0.6	21.7	382	--	--	--	7.0	85	
		1.5				0.5	20.0	436	0.130	--	--	6.5	18	
<b>Water Level: 939.03'</b>														
8/14/08	<b>Water Level: 938.83'</b>													
8/19/08	1.8	0-1.5	0.8	55.0	7.7	--	--	--	0.150	0.0088	1.40	<0.020	--	--
		0.0				3.2	22.3	402	--	--	--	7.8	210	
		1.0				0.4	21.1	407	--	--	--	7.2	182	
		1.5				0.2	19.9	429	--	--	--	6.7	134	
<b>Water Level: 938.75'</b>														
8/29/08	<b>Water Level: 938.78'</b>													
9/4/08	<b>Water Level: 938.66'</b>													
9/26/08	<b>Water Level: 938.56'</b>													
9/5/08	1.8	0-1.5	0.6	45.0	7.6	--	--	--	0.160	<0.0060	1.60	<0.020	--	--
		0.0				1.2	17.9	400	--	--	--	7.9	102	
		1.0				0.3	17.8	400	--	--	--	7.5	102	
		1.5				0.2	17.8	400	--	--	--	7.4	89	

## Lake Rose 2008

Date	Max. Depth (M)	Sample Depth (M)	Secchi Depth (M)	Chl. a (µg/L)	D.O. (mg/L)	Temp. (°C)	Sp. Cond. (µmho/cm @ 25°C)	Total P (mg/L)	pH	Turbidity (NTU's)	Comments
5/1/2008	4.2	0-2	1.6	8.0	--	--	--	0.057	--	3.0	Water Level: 924.41'
		0.0			11.7	10.8	357	--	8.2		
		1.0			11.1	10.7	358	--	8		
		2.0			11.1	10.7	357	--	7.9		
		3.0			11.3	8.0	355	0.070	7.7		
		3.7			1.6	6.7	539	0.180	6.9		
5/30/2008	--	--	--	--	--	--	--	--	--	--	Water Level: 924.28'
6/6/2008	--	--	--	--	--	--	--	--	--	--	Water Level: 924.29'
6/17/2008	4.2	0-2	1.8	4.0	--	--	--	0.030	--	2.6	Water Level: 924.48' See aquatic plant survey, June-08, June photo-08
		0.0			12.3	22.1	352	--	9.3		
		1.0			12.3	22.0	352	--	9.4		
		2.0			9.4	21.3	352	--	9.2		
		3.0			4.9	17.1	408	0.045	8.3		
		3.7			0.6	12.7	665	0.390	7.2		
7/1/2008	--	--	--	--	--	--	--	--	--	--	Water Level: 924.04'
7/11/2008	--	--	--	--	--	--	--	--	--	--	Water Level: 924.09'
7/17/2008	--	--	--	--	--	--	--	--	--	--	Water Level: 923.95'
7/17/2008	4.0	0-2	1.7	5.3	--	--	--	0.054	--	3.1	
		0.0			9.8	26.5	333	--	9.4		
		1.0			7.7	26.0	330	--	9.2		
		2.0			0.47	23.3	341	--	8.2		
		3.0			0.2	19.9	468	0.150	7.1		
		3.7			0.17	16.9	700	0.390	6.6		
7/17/2008	--	--	--	--	--	--	--	--	--	--	Water Level: 923.68'
8/5/2008	--	--	--	--	--	--	--	--	--	--	Water Level: 923.55'

## Lake Rose 2008

Date	Max. Depth (M)	Sample Depth (M)	Secchi Depth (M)	Chl. a (µg/L)	D.O. (mg/L)	Temp. (°C)	Sp. Cond. (µmho/cm @ 25°C)	Total P (mg/L)	pH	Turbidity (NTU's)	Comments
8/5/2008	3.9	0-2	1.1	24.0	--	--	--	0.070	--	5.3	See aquatic plant survey, August-08, August photos-08
		0.0			5.4	24.5	349	--	8.4		
		1.0			3.8	24.5	351	--	8.2		
		2.0			0.41	23.0	394	--	7.1		
		3.0			0.2	20.8	495	0.27	6.8		
		3.5			--	--	--	0.93	--		
8/14/2008	--	--	--	--	--	--	--	--	--	Water Level: 923.35'	
8/19/2008	4.1	0-2	1.2	260.0	--	--	--	0.240	--	14.7	
		0.0			6.4	23.9	382	--	8.6		
		1.0			6.1	23.9	381	--	8.6		
		2.0			0.33	21.9	420	--	7.3		
		3.0			0.2	18.7	631	0.3	6.8		
		3.6			0.17	16.5	883	0.85	6.7		
8/29/2008	--	--	--	--	--	--	--	--	--	Water Level: 923.21'	
9/4/2008	3.6	0-2	1.0	35.0	--	--	--	0.084	--	5.6	
		0.0			3.7	20.0	410	--	7.6		
		1.0			3.5	20.0	411	--	7.6		
		2.0			3.4	20.0	412	--	7.5		
		3.0			0.2	18.2	710	0.36	6.7		
9/4/2008	--	--	--	--	--	--	--	--	--	Water Level: 923.14'	
9/26/2008	--	--	--	--	--	--	--	--	--	Water Level: 922.95'	