

Appendix J-2 - Winter Harbor Water Quality Data

Lake	Site	Date	Secchi Disk Siting (meters)	Epilimnetic Composite Chlorophyll α ($\mu\text{g/l}$)	Epilimnetic Composite Total Phosphorus ($\mu\text{g/l}$)	Grab Sample Depth (meters)	Grab Sample Total Phosphorus ($\mu\text{g/l}$)	<4 TP >8 Rain within past four days** (inches)
Winter Hbr.	Deep	7/31/09	9.9	1.4	5.3			
Winter Hbr.	Deep	8/7/09	8.0	1.6	5.5			
Winter Hbr.	Deep	8/14/09	7.4	1.0	8.2			0.44
Winter Hbr.	Deep	8/21/09	7.1	1.1	4.1			
Winter Hbr.	Deep	8/28/09	7.1	1.3	6.7			
Winter Hbr.	Deep	8/25/16				8	5.2	
Winter Hbr.	Deep	8/25/16	10.1			21	17.6	
Winter Hbr.	Deep	6/30/17	7.6	0.9	4.4			
Winter Hbr.	Deep	7/16/17	9.3	2.1	6.0			
Winter Hbr.	Nary Shore	7/16/17		1.7	5.5			
Winter Hbr.	Whitegate	7/16/17		1.3	4.7			
Winter Hbr.	Deep	7/22/17	9.4	1.3	7.8			
Winter Hbr.	Nary Shore	7/22/17		1.1	4.6			
Winter Hbr.	Whitegate	7/22/17		1.3	5.0			
Winter Hbr.	Deep	7/28/17	10.0	1.4	5.0			
Winter Hbr.	Carry Beach	7/31/17		1.2	3.2			0.01
Winter Hbr.	Nary Shore	7/31/17		1.1	4.3			
Winter Hbr.	Port Wedeln	7/31/17		0.8				
Winter Hbr.	Whitegate	7/31/17		1.1	4.1			
Winter Hbr.	Carry Beach	8/12/17		1.1	3.5			0.06
Winter Hbr.	Deep	8/12/17	9.8	1.8	4.7			
Winter Hbr.	Nary Shore	8/12/17		1.2	3.6			0.06
Winter Hbr.	Port Wedeln	8/12/17		1.7	3.9			0.06
Winter Hbr.	Whitegate	8/12/17		0.9	3.6			0.06
Winter Hbr.	Whitegate	8/21/17		0.9				
Winter Hbr.	Carry Beach	8/27/17		0.7	3.9			0.00
Winter Hbr.	Deep	8/27/17	9.6	0.8	4.3			
Winter Hbr.	Nary Shore	8/27/17		0.9	3.9			0.00
Winter Hbr.	Port Wedeln	8/27/17		0.9	3.7			
Winter Hbr.	Whitegate	8/27/17		0.9	5.2			
Winter Hbr.	Carry Beach	10/5/17		1.4	4.5			
Winter Hbr.	Deep	10/5/17	9.9	1.1	5.1			
Winter Hbr.	Nary Shore	10/5/17		1.1	4.7			
Winter Hbr.	Port Wedeln	10/5/17		1.1	4.8			
Winter Hbr.	Whitegate	10/5/17		1.0	5.3			
Winter Hbr.	Carry Beach	7/4/18		0.9	3.5			0.00
Winter Hbr.	Deep	7/4/18	10.1	0.7	3.9			0.00

Winter Hbr.	Nary Shore	7/4/18		0.6	4.4			
Winter Hbr.	Port Wedeln	7/4/18		0.5	4.0			
Winter Hbr.	Whitegate	7/4/18		0.7	3.3			0.00

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Winter Hbr.	Carry Beach	7/13/18		0.9	4.9			
Winter Hbr.	Deep	7/13/18	10.7	0.5	2.9			0.00
Winter Hbr.	Nary Shore	7/13/18		0.7	3.3			0.00
Winter Hbr.	Port Wedeln	7/13/18		0.7	3.3			0.00
Winter Hbr.	Whitegate	7/13/18		1.0	3.9			0.00
Winter Hbr.	Carry Beach	7/20/18		0.6	4.3			
Winter Hbr.	Deep	7/20/18	10.7	0.4	4.6			
Winter Hbr.	Nary Shore	7/20/18		0.5	4.4			
Winter Hbr.	Port Wedeln	7/20/18		0.6	4.7			
Winter Hbr.	Whitegate	7/20/18		1.1				
Winter Hbr.	Carry Beach	7/30/18		0.6	3.6			0.11
Winter Hbr.	Deep	7/30/18	10.3	0.7	3.9			0.11
Winter Hbr.	Nary Shore	7/30/18		0.7	4.2			
Winter Hbr.	Port Wedeln	7/30/18		0.7	4.0			
Winter Hbr.	Whitegate	7/30/18		0.6	4.4			
Winter Hbr.	Carry Beach	8/10/18		0.7	3.3			0.21
Winter Hbr.	Deep	8/10/18	10.0	0.5	3.6			0.21
Winter Hbr.	Nary Shore	8/10/18		0.5	3.5			0.21
Winter Hbr.	Port Wedeln	8/10/18		0.5	3.1			0.21
Winter Hbr.	Whitegate	8/10/18		0.7	6.5			
Winter Hbr.	Carry Beach	8/22/18		0.7	2.3			0.00
Winter Hbr.	Deep	8/22/18	9.5	0.8	3.9			0.00

Winter Hbr.	Nary Shore	8/22/18		0.7	2.2			0.00
Winter Hbr.	Port Wedeln	8/22/18		0.6	1.7			0.00
Winter Hbr.	T-40 Whitegate	8/22/18				0.2	7856.9	
Winter Hbr.	Whitegate	8/22/18		0.9	2.5			0.00
Winter Hbr.	T-20 Whitegate	8/23/18				0.2	11.9	
Winter Hbr.	Carry Beach	8/28/18		0.8	2.8			0.00
Winter Hbr.	Deep	8/28/18	9.1	0.9	2.8			0.00
Winter Hbr.	Nary Shore	8/28/18		0.7	2.6			0.00
Winter Hbr.	Port Wedeln	8/28/18		0.9	3.3			0.00
Winter Hbr.	T-40 Whitegate	8/28/18				0.2	4789.3	
Winter Hbr.	Whitegate	8/28/18		1.0	3.7			0.00
Winter Hbr.	Whitegate	8/29/18			4.4			
Winter Hbr.	Carry Beach	9/9/18		0.7	5.9			
Winter Hbr.	Deep	9/9/18	9.5	0.7	4.1			
Winter Hbr.	Nary Shore	9/9/18		0.6	4.1			
Winter Hbr.	Port Wedeln	9/9/18		0.8				
Winter Hbr.	Whitegate	9/9/18		0.9	4.1			
Winter Hbr.	Carry Beach	9/23/18		1.1	4.5			

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Lake	Site	Date	Secchi Disk Siting (meters)	Epilimnetic Composite Chlorophyll α ($\mu\text{g/l}$)	Epilimnetic Composite Total Phosphorus ($\mu\text{g/l}$)	Grab Sample Depth (meters)	Grab Sample Total Phosphorus ($\mu\text{g/l}$)	<4 TP >8 Rain within past four days** (inches)
Winter Hbr.	Deep	9/23/18	8.7	0.8				
Winter Hbr.	Nary Shore	9/23/18		1.1	5.0			
Winter Hbr.	Port Wedeln	9/23/18		0.8	4.5			
Winter Hbr.	Whitegate	9/23/18		0.9	5.5			
Winter Hbr.	T-40 Whitegate	10/2/18				0.2	107.5	
Winter Hbr.	Whitegate	10/14/18		1.1	3.3			0.92
Winter Hbr.	Whitegate	10/18/18			7.7			
Winter Hbr.	Whitegate	10/25/18				0.5	17.4	1.05
Winter Hbr.	Whitegate	11/7/18				0.5	10.3	0.85
Winter Hbr.	Whitegate	11/23/18				0.5	6.7	
Winter Hbr.	Whitegate	12/20/18				0.5	3.9	0.39
Winter Hbr.	Whitegate	1/13/19				0.2	6.2	
Winter Hbr.	Whitegate	3/24/19				0.5	5.7	
Winter Hbr.	T-40 Whitegate	4/13/19				0.1	19.8	
Winter Hbr.	Whitegate	4/19/19				0.1	8.6	0.58
Winter Hbr.	Whitegate	5/27/19				0.1	8.7	1.10
Winter Hbr.	Deep	6/15/19	8.6	2.1	6.4			
Winter Hbr.	Whitegate	6/15/19		3.0	6.1			
Winter Hbr.	Carry Beach	6/24/19		0.9	8.6			1.29
Winter Hbr.	Deep	6/24/19	9.9	1.3	7.8			

Winter Hbr.	Johnsons Cove	6/24/19	7.1	1.4	8.2			1.29
Winter Hbr.	Nary Shore	6/24/19		2.0				
Winter Hbr.	Port Wedeln	6/24/19		0.5	5.4			
Winter Hbr.	Whitegate	6/24/19		2.1	8.7			1.29
Winter Hbr.	Johnsons Cove	6/28/19	7.0		5.5			
Winter Hbr.	Deep	7/4/19	8.2	0.5	7.4	15.0	10.9	
Winter Hbr.	Deep	7/5/19						
Winter Hbr.	Whitegate	7/13/19		0.9	11.7			1.85
Winter Hbr.	Carry Beach	7/16/19		0.7	6.0			
Winter Hbr.	Deep	7/16/19	9.1	0.7	5.0			
Winter Hbr.	Johnsons Cove	7/16/19	9.2	0.9	8.3			1.85
Winter Hbr.	Nary Shore	7/16/19		0.9	7.8			
Winter Hbr.	Port Wedeln	7/16/19		0.9	5.1			
Winter Hbr.	Deep	7/18/19				20.0	12.0	
Winter Hbr.	Deep	8/5/19				20.0	10.0	
Winter Hbr.	Carry Beach	8/6/19		0.9	7.7			
Winter Hbr.	Deep	8/6/19	8.0	0.7	5.1			
Winter Hbr.	Johnsons Cove	8/6/19	7.9	0.9	5.7			
Winter Hbr.	Nary Shore	8/6/19		0.9	4.5			

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Winter Hbr.	Port Wedeln	8/6/19		0.9	5.3			
Winni, Winter Hbr.	Whitegate	8/6/19		0.9	4.8			
Winni, Winter Hbr.	Deep	8/13/19						
Winni, Winter Hbr.	T-40 Whitegate	8/19/19				0.1	27.6	
Winni, Winter Hbr.	Deep	8/24/19				18.0	10.4	
Winni, Winter Hbr.	Johnsons Cove	8/26/19						
Winni, Winter Hbr.	Carry Beach	8/27/19		0.7	3.5			
Winni, Winter Hbr.	Deep	8/27/19	11.1	0.9	4.4			
Winni, Winter Hbr.	Johnsons Cove	8/27/19	8.5	0.5	4.4			
Winni, Winter Hbr.	Nary Shore	8/27/19		0.9	4.6			
Winni, Winter Hbr.	Port Wedeln	8/27/19		0.7	4.9			
Winni, Winter Hbr.	Whitegate	8/27/19		1.3	3.8			
Winni, Winter Hbr.	Deep	9/12/19				20.0	27.6	
Winni, Winter Hbr.	Carry Beach	9/15/19		1.2	3.8			

Winni, Winter Hbr.	Deep	9/15/19	11.3	1.8	4.8			
Winni, Winter Hbr.	Johnsons Cove	9/15/19		1.5	4.6			
Winni, Winter Hbr.	Nary Shore	9/15/19		0.7	4.9			
Winni, Winter Hbr.	Port Wedeln	9/15/19		1.3	4.7			
Winni, Winter Hbr.	Whitegate	9/15/19		1.3	4.7			
Winni, Winter Hbr.	Carry Beach	9/22/19		1.2	4.2			
Winni, Winter Hbr.	Deep	9/22/19	8.1	1.8	5.6			
Winni, Winter Hbr.	Johnsons Cove	9/22/19	8.5	1.0	5.0			
Winni, Winter Hbr.	Nary Shore	9/22/19		0.9	4.4			
Winni, Winter Hbr.	Port Wedeln	9/22/19		1.2	7.1			
Winni, Winter Hbr.	Whitegate	9/22/19		1.0	5.8			
Winni, Winter Hbr.	Deep	10/8/19	7.5	1.8	5.4	20.0	33.5	
Winni, Winter Hbr.	Whitegate	10/9/19		1.5	5.1			
Winni, Winter Hbr.	Deep	10/19/19	7.7	2.2	6.7			
Winni, Winter Hbr.	Whitegate	10/19/19		2.3	7.6			
Winni, Winter Hbr.	Whitegate	11/4/2019		1.5	5.6			

Winni, Winter Hbr.	Whitegate	11/26/2019		1.3	6.8			
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Streams

Anoxic depth

Total phosphorous 8 ug/L or chlorophyll a 3.0 or above