

## **Assessment of Goshen Warm Springs as a Potential Hatchery Site for June suckers (*Chasmistes liorus*) Focusing on Selenium Bioaccumulation and Fish Growth Rates**

### **Appendix**

Final Report

To

Maureen Wilson  
Utah Reclamation Mitigation and Conservation Commission  
102 West 500 South #315  
Salt Lake City, Utah 84101

By

Ann L. Allert, J.F. Fairchild, T.W. May, L.C. Sappington, L.E. Johnson and C.C. Witte  
U.S. Geological Survey  
Columbia Environmental Research Center  
4200 New Haven Road  
Columbia, Missouri 65201

Contact

Ann L. Allert  
P 573.876.1903  
F 573.876.1896  
Email [ann\\_allert@usgs.gov](mailto:ann_allert@usgs.gov)

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## **Selenium and Metal Analysis Quality Assurance Samples**

Where preparation and analysis was conducted by CERC, samples were split into eleven groups or batches for processing through the chemical preparation and instrumental analysis flow scheme for the determination of selenium, and a metals scan plus mercury in an individual fish sample and fish composites. Typical quality control incorporated in a batch at the digestion level included blanks, sample replicates, sample spikes, and reference materials. Hydride and Cold-Vapor AA instrumental quality control included calibration checks, analytical duplicates, reference solutions, and analysis spikes. Quality control parameters for sample analysis by ICP-MS semi-quantitative scan included running the single calibration standard as a sample, a measurement of precision by repeated runs of a reference solution, and the analysis of an independent-source laboratory control sample. Quality control in each sample batch varied slightly depending upon digestion and instrumental specifics. Quality control included by University of Missouri Research Reactor (MURR) included both blind and MURR-incorporated reference materials. All quality control results were tabulated to provide an overview of quality assurance and to facilitate interpretation.

### Calibration

For the determination of Se and Hg in samples, independent standard calibration checks were performed at the beginning and end of each instrumental determination to verify calibration (Table 6). Periodic runs of a laboratory control solution served to monitor calibration throughout the ICP-MS semi-quantitative scan for the fish composites (Table 7). In addition, separate calibration solutions were also analyzed at the beginning of the fish semi-quantitative determination, which exhibited recoveries ranging from 90% to 145% (Table 8).

### *Control Materials*

Results from the analysis of control materials are indicated in Tables 9-12. Reference solutions and materials digested and analyzed by quantitative analysis atomic absorption spectroscopy for Se with water, sediment, and fish samples and Hg for fish composites and an individual fish sample exhibited recoveries within the specified limits, except for Se in one solution being ~2% high (Table 9). Accuracy and precision of the INAA technique were estimated from MURR's own internal quality control. MURR conducted its own accuracy and method precision check by the irradiation of 18 samples of NIST Bovine Liver SRM 1577. Results for these analyses are depicted in Tables 10a and b, indicating values within the certified limits for all but one result, which was 2% high (1.22 µg/g). Reference materials submitted to MURR by CERC exhibited recoveries ranging from 79% to 103% (Tables 11a and b). Recoveries of elements in digested reference tissues analyzed with fish samples by semi-quantitative ICP-MS ranged from 90% to 132% (Table 12), except for Cr and Fe in CERC striped bass material (187% and 153%), and Fe and Cu in NRCC DORM-2 material (244% and 150%).

### *Analytical and Method Precision*

Instrumental precision for the ICP-MS semi-quantitative scan on digestates of fish composites was determined by repeated runs of a reference solution, which exhibited percent relative standard deviation (%RSD) values of < 21% (Table 7). Instrumental precision for the quantitative determination of Se and Hg, determined by repeated analysis of a standard throughout the run, was < 4% RSD (Table 13).

Replicates of water, fish food, zooplankton, sediment, and fish prepared in triplicate and analyzed for Se and fish for Hg exhibited percent relative standard deviations ranging from 0.4% to 30% (Table 14). Replicates of fish determined by ICP-MS semi-quantitative scan

indicated %RSDs < 30% for most elements for which there was a measurable value (Tables 15-16). However, occasional poorer agreement was observed for some elements in some replicates (e.g., Cu and As, Table 15; Al, Cr, and MO, Table 16). Relative percent differences (RPDs) from the duplicate collection, preparation, and analysis of a water and sediment sample were ≤ 4% (Table 17). Where biomass was available, certain zooplankton samples were analyzed by INAA and Hydride AA, with the results indicated in Table 18. RPDs were highly variable, with three samples being < 6%, six samples from 28% to 50%, and the remaining four from 60% to 106%. There was no clear trend of one method producing higher results, as five results exhibited higher Se concentrations by hydride AA and eight results were higher by INAA. A review of MURR and CERC QC results indicated no methodological problems or discrepancies that would explain the poorer RPDs. However, one factor is the smaller sample mass measured by the INAA method. One explanation is sample inhomogeneity, possibly exacerbated by the inclusion of heavy mineral salts collected with zooplankton. Washing the samples with deionized water may have improved the reliability of the measurements for smaller mass samples. Another is the silicon content of the zooplankton. In INAA, high silicon levels can produce an excessive Al interference due to a n,p reaction on the silicon, which results in poorer counting statistics and thus reduced accuracy.

### *Spikes*

Recoveries of elements spiked into samples prior to digestion are indicated in Tables 19-21. Water, sediment, fish food, fish, and zooplankton samples spiked with Se and fish with Hg prior to dry ashing or digestion had recoveries ranging from 97% to 119% and averaging 106% (Table 19). Recoveries of elements spiked into a blank and fish composite samples analyzed by semi-quantitative ICP-MS ranged from 77% to 151% and averaged 109% (Tables 20 and 21), excluding poorer recoveries for Ni (271%, Table 20), Be (163%, Tables 20 and 21), and V

(27%, Table 21). Analysis spikes of samples and sample digestates analyzed for Se and Hg ranged from 93% to 111% and averaged 102% (Table 22).

#### *Blank Equivalent Concentrations*

Blank equivalent concentrations (BEC) were computed for Se and Hg digestion blanks analyzed with the samples (Table 23). BEC were less than the method detection limits (MDLs) except for three cases, where BEC were slightly above MDL values. BEC for blanks digested with fish composites and analyzed by ICP-MS semi-quantitative scan are indicated in Table 24. For most elements, BEC were generally below CERC reporting limits for the semi-quantitative scan (“less than” values). None of the data was corrected for any measurable BEC values.

#### *Instrument and Method Detection Limits*

Instrument detection limits for Se and Hg are indicated in Table 25, whereas method detection limits for Se by flow injection atomic absorption spectroscopy, and Hg by cold vapor atomic spectroscopy, are indicated in Table 26.

Overall, the quality control was within acceptable limits as specified by CERC.

**Table 1.** Concentration of selenium ( $\mu\text{g/g}$  dry weight) in June sucker.

Site	Date Collected	Sample Interval	Cage	Fish	Fish Species	Se (mg/g dry wt.)	Comments
Hatchery	07/12/01	0		1	June sucker	1.06	
Hatchery	07/12/01	0		2	June sucker	0.87	
Hatchery	07/12/01	0		3	June sucker	1.21	
Hatchery	07/12/01	0		4	June sucker	1	
Hatchery	07/12/01	0		5	June sucker	1.05	
Hatchery	07/12/01	0		6	June sucker	1.04	
Hatchery	07/12/01	0		7	June sucker	1.23	
Hatchery	07/12/01	0		8	June sucker	1.03	
Hatchery	07/12/01	0		9	June sucker	1.12	
Hatchery	07/12/01	0		10	June sucker	1.23	
Hatchery	07/12/01	0		11	June sucker	1.34	
Hatchery	07/12/01	0		12	June sucker	1.15	
Hatchery	07/12/01	0			June sucker	1.33	Composite=40 fish
Lily Pond	07/26/01	0.5	C	1	June sucker	0.75	
Lily Pond	07/26/01	0.5	C	2	June sucker	1.36	
Lily Pond	07/26/01	0.5	C	3	June sucker	1.28	
Lily Pond	07/26/01	0.5	C	4	June sucker	1.25	
Lily Pond	07/26/01	0.5	B	1	June sucker	0.92	
Lily Pond	07/26/01	0.5	B	2	June sucker	1.15	
Lily Pond	07/26/01	0.5	B	3	June sucker	1.31	
Lily Pond	07/26/01	0.5	D	1	June sucker	1.34	
Lily Pond	07/26/01	0.5	D	2	June sucker	0.94	
Lily Pond	07/26/01	0.5	D	3	June sucker	1.11	
Lily Pond	07/26/01	0.5	A	1	June sucker	1.21	
Lily Pond	07/26/01	0.5	A	2	June sucker	1.18	
Lily Pond	07/26/01	0.5	A	3	June sucker	1.06	
Lily Pond	08/09/01	1	A	1	June sucker	1.16	
Lily Pond	08/09/01	1	A	2	June sucker	0.99	
Lily Pond	08/09/01	1	B	1	June sucker	1.27	
Lily Pond	08/09/01	1	B	2	June sucker	1.03	
Lily Pond	08/09/01	1	C	1	June sucker	1.18	
Lily Pond	08/09/01	1	C	2	June sucker	0.9	
Lily Pond	08/09/01	1	D	1	June sucker	0.96	
Lily Pond	08/09/01	1	D	2	June sucker	1.09	
Lily Pond	09/05/01	2	A	1	June sucker	1.33	
Lily Pond	09/05/01	2	B	1	June sucker	1.79	

Site	Date Collected	Sample Interval	Cage	Fish	Fish Species	Se (mg/g dry wt.)	Comments
Lily Pond	09/05/01	2	C	1	June sucker	1.4	
Lily Pond	09/05/01	2	D	1	June sucker	1.61	
Lily Pond	10/07/01	3	A	1	June sucker	1.4	
Lily Pond	10/07/01	3	B	1	June sucker	1.5	
Lily Pond	10/07/01	3	C	1	June sucker	1.77	
Lily Pond	10/07/01	3	C	2	June sucker	1.82	
Lily Pond	10/11/01	3			June sucker	1.31	Composite = 2 fish
Lily Pond	11/05/01	4	A	1	June sucker	1.3	
Lily Pond	11/05/01	4	B	1	June sucker	1.43	
Lily Pond	11/05/01	4	C	1	June sucker	1.4	
Lily Pond	12/03/01	5	B	1	June sucker	1.66	
Lily Pond	12/03/01	5	B	2	June sucker	1.35	
North Pond	07/26/01	0.5	G	1	June sucker	1.47	
North Pond	07/26/01	0.5	G	2	June sucker	1.44	
North Pond	07/26/01	0.5	G	3	June sucker	1.15	
North Pond	07/26/01	0.5	F	1	June sucker	1.11	
North Pond	07/26/01	0.5	F	2	June sucker	1.41	
North Pond	07/26/01	0.5	F	3	June sucker	1.55	
North Pond	07/26/01	0.5	H	1	June sucker	1.6	
North Pond	07/26/01	0.5	H	2	June sucker	1.69	
North Pond	07/26/01	0.5	H	3	June sucker	1.23	
North Pond	07/26/01	0.5	E	1	June sucker	1.33	
North Pond	07/26/01	0.5	E	2	June sucker	1.53	
North Pond	07/26/01	0.5	E	3	June sucker	1.3	
North Pond	08/09/01	1	E	1	June sucker	1.6	
North Pond	08/09/01	1	E	2	June sucker	1.36	
North Pond	08/09/01	1	F	1	June sucker	0.97	
North Pond	08/09/01	1	G	1	June sucker	0.94	
North Pond	08/09/01	1	G	2	June sucker	1.23	
North Pond	08/09/01	1	H	1	June sucker	1.15	
North Pond	08/09/01	1	H	2	June sucker	1.48	
North Pond	09/05/01	2	E	1	June sucker	2.09	
North Pond	09/05/01	2	F	1	June sucker	2.14	
North Pond	09/05/01	2	G	1	June sucker	1.58	
North Pond	10/07/01	3	E	1	June sucker	1.51	
North Pond	10/07/01	3	F	2	June sucker	1.88	
North Pond	10/07/01	3	G	1	June sucker	1.7	
North Pond	10/07/01	3	G	2	June sucker	2.51	
North Pond	10/11/01	3	G		June sucker	1.41	Composite = 2 fish

Site	Date Collected	Sample Interval	Cage	Fish	Fish Species	Se (mg/g dry wt.)	Comments
North Pond	11/05/01	4	E	1	June sucker	1.32	
North Pond	11/05/01	4	F	1	June sucker	1.66	
North Pond	11/05/01	4	G	1	June sucker	1.44	
North Pond	12/03/01	5	E	1	June sucker	1.2	
North Pond	12/03/01	5	E	2	June sucker	1.33	
North Pond	12/03/01	5	G	1	June sucker	1.02	
North Pond	12/03/01	5	G	2	June sucker	1.19	
Utah Lake	07/26/01	0.5	K	1	June sucker	1.47	
Utah Lake	07/26/01	0.5	K	2	June sucker	1.15	
Utah Lake	07/26/01	0.5	K	3	June sucker	1.41	
Utah Lake	07/26/01	0.5	J	1	June sucker	1.32	
Utah Lake	07/26/01	0.5	J	2	June sucker	1.43	
Utah Lake	07/26/01	0.5	J	3	June sucker	1.24	
Utah Lake	07/26/01	0.5	L	1	June sucker	1.31	
Utah Lake	07/26/01	0.5	L	2	June sucker	1.31	
Utah Lake	07/26/01	0.5	L	3	June sucker	0.85	
Utah Lake	07/26/01	0.5	I	1	June sucker	1.6	
Utah Lake	07/26/01	0.5	I	2	June sucker	1.48	
Utah Lake	07/26/01	0.5	I	3	June sucker	1.16	
Utah Lake	08/13/01	1	I	1	June sucker	1.11	
Utah Lake	08/13/01	1	J	1	June sucker	1.74	
Utah Lake	08/13/01	1	J	2	June sucker	1.01	
Utah Lake	08/13/01	1	K	1	June sucker	1.06	
Utah Lake	08/13/01	1	L	1	June sucker	1.15	
Utah Lake	09/05/01	2	I	1	June sucker	1.42	
Utah Lake	09/05/01	2	J	1	June sucker	1.38	
Utah Lake	09/05/01	2	K	1	June sucker	1.48	
Utah Lake	09/05/01	2	L	1	June sucker	1.26	
Utah Lake	10/07/01	3	J	1	June sucker	1.31	
Utah Lake	10/07/01	3	L	1	June sucker	1.27	
Utah Lake	10/07/01	3	K	1	June sucker	1.37	
Utah Lake	10/07/01	3	K	2	June sucker	1.34	
Utah Lake	10/11/01	3	K		June sucker	1.28	Composite = 2 fish
Utah Lake	11/05/01	4	J	1	June sucker	1.22	
Utah Lake	11/05/01	4	K	1	June sucker	1.1	
Utah Lake	11/05/01	4	L	1	June sucker	1.23	
Utah Lake	12/03/01	5	J	1	June sucker	1.19	
Utah Lake	12/03/01	5	J	2	June sucker	1.12	
Utah Lake	12/03/01	5	K	1	June sucker	1.19	

Site	Date Collected	Sample Interval	Cage	Fish	Fish Species	Se (mg/g	Comments
						dry wt.)	
Utah Lake	12/03/01	5	K	2	June sucker	1.12	
Utah Lake	12/03/01	5	L	1	June sucker	1.08	
Utah Lake	12/03/01	5	L	2	June sucker	1.29	

**Table 2.** Concentration of selenium ( $\mu\text{g/g}$  dry weight) in wild fish. Western mosquitofish (mosquitofish) = *Gambusia affinis*. Utah Chub = *Gila atraria*.

Site	Date	Sample Interval	Fish Species	Se (mg/g dry wt.)	Comments
Lily Pond	08/09/01	1	mosquitofish	2.85	
Lily Pond	09/06/01	2	Utah chub	3.45	
Lily Pond	09/06/01	2	Utah chub	5.92	
Lily Pond	09/06/01	2	Utah chub	4.4	
Lily Pond	09/06/01	2	Utah chub	5.54	
Lily Pond	09/06/01	2	mosquitofish	3.39	
Lily Pond	09/06/01	2	mosquitofish	5.33	
Lily Pond	09/06/01	2	mosquitofish	2.62	
Lily Pond	09/06/01	2	mosquitofish	4.38	Composite = 6 fish
North Pond	09/06/01	2	Utah chub	8.28	
North Pond	09/06/01	2	Utah chub	4.19	
North Pond	09/06/01	2	Utah chub	8.9	
North Pond	09/06/01	2	Utah chub	6.29	
North Pond	09/06/01	2	Utah chub	5.5	
North Pond	09/06/01	2	Utah chub	3.38	
North Pond	09/06/01	2	Utah chub	6.06	Composite = 2 fish
North Pond	09/06/01	2	mosquitofish	5.49	Composite = 5 fish
Utah Lake	10/07/01	3	mosquitofish	1.14	
Utah Lake	10/07/01	3	mosquitofish	1.07	
Utah Lake	10/07/01	3	mosquitofish	1.21	
Utah Lake	10/07/01	3	mosquitofish	1.32	Composite = 4 fish
Utah Lake	10/07/01	3	unknown cyprinid	1.96	
Utah Lake	10/07/01	3	unknown cyprinid	1.78	
Utah Lake	10/07/01	3	unknown cyprinid	1.63	
Utah Lake	10/07/01	3	unknown cyprinid	2.61	Composite = 3 fish

**Table 3.** Concentration of selenium ( $\mu\text{g/L}$ ) in unfiltered (total) and filtered (dissolved) water.

Site	Station	Date Collected	Sample Interval	Dup	Total Se (mg/L)	Dissolved Se (mg/L)
Blank		07/11/01	0		< 0.27	< 0.27
Blank		07/11/01	0		< 0.27	< 0.27
Blank		07/26/01	0.5		< 0.27	< 0.27
Blank		07/27/01	0.5		< 0.27	
Blank		08/09/01	1		0.56	
Blank		08/09/01	1		0.35	
Blank		08/09/01	1		< 0.29	
Blank		08/09/01	1		< 0.29	
Blank		08/14/01	1		< 0.29	
Blank		09/05/01	2		< 0.16	
Blank		09/05/01	2		< 0.16	< 0.16
Blank		10/08/01	3		< 0.16	< 0.16
Blank		11/05/01	4		< 0.77	< 0.77
Blank		12/03/01	5		< 0.77	< 0.77
Lily Pond	East	07/11/01	0		3.74	3.69
Lily Pond	East	07/26/01	0.5		3.71	3.62
Lily Pond	East	08/09/01	1		4.48	4.04
Lily Pond	East	08/09/01	1	dup		4.05
Lily Pond	East	08/10/01	1		4.2	4.43
Lily Pond	East	08/10/01	1	dup	3.97	
Lily Pond	East	09/05/01	2		3.99	4.02
Lily Pond	East	10/08/01	3		3.78	3.86
Lily Pond	West	07/11/01	0		3.66	3.7
Lily Pond	West	07/26/01	0.5		4	3.6
Lily Pond	West	08/09/01	1		4.02	4.06
Lily Pond	West	08/10/01	1		3.79	3.76
Lily Pond	West	09/05/01	2		4.11	4.37
Lily Pond	West	10/08/01	3		3.8	3.76
North Pond	North	07/11/01	0		4.28	4
North Pond	North	07/26/01	0.5		3.86	3.83
North Pond	North	08/09/01	1		4.38	3.51
North Pond	North	08/09/01	1	dup	4.21	
North Pond	North	08/10/01	1		4.21	4.02
North Pond	North	08/10/01	1	dup	4.1	
North Pond	North	09/05/01	2		4.26	4.37
North Pond	North	10/08/01	3		4.13	4.44
North Pond	South	07/11/01	0		3.86	3.84

<b>Site</b>	<b>Station</b>	<b>Date Collected</b>	<b>Sample Interval</b>	<b>Dup</b>	<b>Total Se (mg/L)</b>	<b>Dissolved Se (mg/L)</b>
North Pond	South	07/26/01	0.5		3.86	4.07
North Pond	South	07/26/01	0.5	dup	3.82	4.02
North Pond	South	08/09/01	1		4.63	4.27
North Pond	South	08/10/01	1		4.39	4.33
North Pond	South	09/05/01	2		3.92	4.36
North Pond	South	10/08/01	3		4.22	4.25
Utah Lake	East	07/11/01	0		1.3	1.08
Utah Lake	East	07/26/01	0.5		1.86	1.34
Utah Lake	East	08/13/01	1		2.25	1.22
Utah Lake	East	08/13/01	1	dup	1.66	
Utah Lake	East	09/05/01	2		0.59	0.43
Utah Lake	North	10/08/01	3		0.55	0.56
Utah Lake	East	10/08/01	3		0.72	0.44
Utah Lake	West	07/11/01	0		1.01	0.89
Utah Lake	West	07/26/01	0.5		2.03	1.27
Utah Lake	West	08/13/01	1		1.26	1.04
Utah Lake	West	09/05/01	2		0.45	0.3
Raceway	10	11/05/01	4		< 0.77	< 0.77
Raceway	11	11/05/01	4		< 0.77	< 0.77
Raceway	11	12/03/01	5		< 0.77	< 0.77
Raceway	10	12/03/01	5		< 0.77	< 0.77

**Table 4.** Concentration of selenium ( $\mu\text{g/g}$  dry weight) in zooplankton. Cage = sample taken by cages. Tow = sample taken by towing the zooplankton net.

Site	Station	Date	Sampling Interval	Tow	Se (mg/g dry wt.)
Lily Pond	Cage	07/11/01	0		2.74
Lily Pond	East	07/11/01	0		3.99
Lily Pond	West	07/11/01	0		0.76
Lily Pond	Cage	07/27/01	0.5		3.58
Lily Pond	East	07/27/01	0.5		3.43
Lily Pond	West	07/27/01	0.5		2.1
Lily Pond	Cage	09/06/01	2		3.95
Lily Pond	East	09/06/01	2		2.55
Lily Pond	West	09/06/01	2		10.92
Lily Pond	Cage	10/07/01	3		2.88
Lily Pond	East	10/07/01	3		3.51
Lily Pond	West	10/07/01	3		4.42
North Pond	Cage	07/11/01	0		5.96
North Pond	North	07/11/01	0		5.23
North Pond	South	07/11/01	0		6.13
North Pond	Cage	07/27/01	0.5		3.42
North Pond	North	07/27/01	0.5		5.32
North Pond	South	07/27/01	0.5		3.78
North Pond	Cage	09/06/01	2		3.19
North Pond	North	09/06/01	2		4.35
North Pond	South	09/06/01	2		5.99
North Pond	Cage	10/07/01	3		2.84
North Pond	North	10/07/01	3		4.74
North Pond	South	10/07/01	3		4.59
Utah Lake	Cage	07/11/01	0		1.64
Utah Lake	East	07/11/01	0		1.21
Utah Lake	West	07/11/01	0		2.88
Utah Lake	Cage	07/27/01	0.5		2.29
Utah Lake	East	07/27/01	0.5		1.43
Utah Lake	West	07/27/01	0.5		1.41
Utah Lake	Tow	09/06/01	2	1	2.9
Utah Lake	Tow	09/06/01	2	2	1.98
Utah Lake	Tow	09/06/01	2	3	3.15
Utah Lake	Tow	10/07/01	3	1	4.48
Utah Lake	Tow	10/07/01	3	2	3.8
Utah Lake	Tow	10/07/01	3	3	2.32

**Table 5.** Concentration of selenium ( $\mu\text{g/g}$  dry weight) in sediment.

<b>Site</b>	<b>Station</b>	<b>Sample Interval</b>	<b>Date Collected</b>	<b>Se (mg/g dry wt.)</b>
Lily Pond	East	0	07/11/01	2.83
Lily Pond	West	0	07/11/01	3.03
Lily Pond	East	0.5	07/26/01	3.16
Lily Pond	West	0.5	07/26/01	3.12
Lily Pond	East	2	09/05/01	2.84
Lily Pond	West	2	09/05/01	2.80
Lily Pond	East	3	10/07/01	3.35
Lily Pond	West	3	10/07/01	2.87
North Pond	South	0	07/11/01	5.94
North Pond	North	0	07/11/01	6.35
North Pond	South	0.5	07/26/01	5.70
North Pond	North	0.5	07/26/01	6.89
North Pond	South	2	09/05/01	5.35
North Pond	North	2	09/05/01	6.04
North Pond	South	3	10/07/01	5.43
North Pond	North	3	10/07/01	6.05
Utah Lake	East	0	07/11/01	1.48
Utah Lake	West	0	07/11/01	1.63
Utah Lake	East	0.5	07/26/01	1.59
Utah Lake	West	0.5	07/26/01	1.68
Utah Lake	East	2	09/05/01	1.47
Utah Lake	West	2	09/05/01	1.66
Utah Lake	East	3	10/07/01	1.70
Utah Lake	West	3	10/07/01	1.80

**Table 6.** Performance of reference solutions used for instrument calibration during selenium and mercury analysis.

BID <sup>a</sup>	Ele.	Run Date	Ref. Material	Actual Conc	Meas Conc 1	Meas Conc 2	% Error 1	% Error 2	ISOP <sup>b</sup>	Oper Init.
07/30/01	Se	08/03/01	SPEX CALB <sup>c</sup>	4	4.21	4.26	5.3	6.6	P.207	MJW
08/20/01	Se	08/24/01	SPEX CALB	4	4.38	3.89	9.4	-2.7	P.207	MJW
10/22/01	Se	10/26/01	SPEX CALB	4	4.22	4.31	5.6	7.7	P.207	MJW
11/05/01	Se	11/08/01	SPEX CALB	4	4.25	4.31	6.1	7.9	P.207	MJW
11/14/01	Se	12/28/01	SPEX CALB	4	4.19	4.28	4.8	7.1	P.207	MJW
11/26/01	Se	12/31/01	SPEX CALB	4	4.22	4.22	5.4	5.4	P.207	MJW
01/14/02	Se	01/29/02	SPEX CALB	4	4.22	4.40	5.5	10.0	P.207	MJW
01/22/02	Se	01/30/02	SPEX CALB	4	4.26	4.12	6.5	3.1	P.207	MJW
01/23/02	Se	01/28/02	SPEX CALB	4	4.31	3.96	7.8	-0.9	P.207	MJW
02/19/02	Se	02/26/02	SPEX CALB	4	4.22	4.19	5.5	4.8	P.207	MJW
03/06/02	Se	03/12/02	SPEX CALB	4	4.22	4.31	5.6	7.7	P.207	MJW
01/17/02	Hg	02/04/02	SPEX CALB <sup>d</sup>	9	9.14	9.23	1.6	2.6	P.198	MJW

<sup>a</sup>BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

<sup>b</sup>ISOP = instrumental standard operating procedure.

<sup>c</sup>Spex Claritas PPT, Cat No. CLSe2-2Y; Spex CertiPrep, Metuchen, NJ.

<sup>d</sup>Spex Claritas PPT, Cat No. CLHG4-2Y; Spex CertiPrep, Metuchen, NJ.

**Table 7.** Percent relative standard deviation from repeated analyses of trace metals in drinking water standard<sup>a</sup> during the semi-quantitative sample run of fish. Results are expressed in ng/ml unless otherwise noted.

Element	Run 1	Run 2	Run 3	Run 4	Actual Conc.	Mean Conc.	SD	% RSD
Li	18.6	20.3	20.5	21.0	20	20.1	1.0	5.2
Be	20.2	23.5	22.9	23.5	20	22.5	1.6	7.0
Na <sup>b</sup>	6.26	7.07	7.00	7.77	6	7.0	0.6	8.8
Mg <sup>b</sup>	9.03	10.7	10.8	11.5	9	10.5	1.1	10.1
Al	128	148	141	152	120	142	10.7	7.5
K <sup>b</sup>	2.93	3.49	3.29	3.64	2.5	3.3	0.3	9.3
Ca <sup>b</sup>	31.8	33.9	32.1	46.3	35	36.0	6.9	19.2
V	30.4	30.7	30.5	31.4	30	30.8	0.4	1.4
Cr	21.1	21.4	20.2	21.3	20	21.0	0.5	2.5
Mn	40.2	40.6	39.6	42.9	40	40.8	1.4	3.5
Fe	112	149	163	175	100	150	27.4	18.3
Co	25.9	27.0	24.2	26.9	25	26.0	1.3	5.0
Ni	59.3	58.7	58.0	61.5	60	59.4	1.5	2.6
Cu	20.2	21.0	20.3	20.4	20	20.5	0.4	1.9
Zn	71.8	73.4	73.5	73.5	70	73.1	0.8	1.1
As	81.0	83.0	81.5	84.5	80	82.5	1.6	1.9
Se	9.98	10.2	10.1	10.0	10	10.1	0.1	0.9
Rb	9.71	9.94	9.71	10.3	10	9.9	0.3	2.8
Sr	260	298	204	304	250	267	45.8	17.2
Mo	100	100	105	98	100	101	2.7	2.7
Ag	1.97	2.00	1.98	2.04	2.0	2.0	0.0	1.5
Cd	10.4	10.3	10.0	10.1	10	10.2	0.2	1.6
Sb	10.3	10.2	10.4	10.2	10	10.2	0.1	0.9
Te	3.20	3.13	3.05	3.06	3.0	3.1	0.1	2.2
Ba	43.5	42.8	62.4	60.8	50	52.4	10.7	20.4
Pr	10.4	10.4	10.0	10.3	10	10.3	0.2	1.8
Tb	10.3	10.2	10.5	10.5	10	10.4	0.2	1.6
Tm	10.4	10.3	10.4	10.4	10	10.4	0.1	0.5
Ta	11.8	10.6	10.3	10.1	10	10.7	0.8	7.2
Au	10.5	9.8	10.2	9.8	10	10.1	0.4	3.5
Tl	10.2	9.4	9.4	9.5	10	9.6	0.4	4.1
Pb	39.0	36.6	38.0	36.9	40	37.6	1.1	3.0
Bi	9.02	8.26	8.41	8.33	10	8.5	0.3	4.1
U	10.5	11.4	12.0	11.7	10	11.4	0.6	5.6

<sup>a</sup>High Purity Trace Metals in Drinking Water, Cat # CRM-TMDW, Charleston, SC.; Pr, Tb, Tm, Ta, and Au manually added to represent rare earth region of the mass spectral range.

<sup>b</sup>Concentrations are ppm ( $\mu\text{g/mL}$ ).

**Table 8.** Recovery of elements from laboratory control samples determined with semi-quantitative analysis of fish composites.

a. SPEX ClaritasPPT <sup>a</sup>			b. SPEX Custom Multielement Standards <sup>b</sup>				
Element	Actual Conc	Meas Conc	% Rec	Element	Actual Conc	Meas Conc	% Rec
Be	50	61	121	Pr	10	9.0	90
Na	500	562	112	Tb	10	9.0	90
Mg	500	509	102	Tm	10	9.2	92
Al	50	56	112	Ta	10	12.8	128
K	500	635	127	Au	10	13.7	137
Ca	500	603	121				
Ti	50	55	111				
V	50	53	105	<sup>b</sup> a mixture of SPEX Custom Multielement Standards XCERCMO-1 and XCERCMO-2; SPEX CertiPrep, Inc., Metuchen, NJ; units ng/mL.			
Cr	50	53	107				
Mn	50	65	130				
Fe	500	516	103				
Co	50	53	106				
Ni	50	55	111				
Cu	50	58	116				
Zn	50	68	136				
As	50	62	125				
Se	50	67	134				
Sr	50	53	106				
Mo	50	50	100				
Ag	50	55	109				
Cd	50	61	122				
Sn	50	72	145				
Sb	50	58	117				
Ba	50	56	111				
Tl	50	54	107				
Pb	50	54	108				

<sup>a</sup>a mixture of SPEX Claritas PPT Instrument Check Standards 1 (CL-ICS-1), 3 (CL-ICS-3, and 5 (CL-ICS-5); SPEX CertiPrep, Inc., Metuchen, NJ; units ng/mL.

**Table 9.** Measured concentrations of selenium and mercury in reference solutions (ng/ml) and materials ( $\mu\text{g/g}$  dry weight).

BID <sup>a</sup>	Ele.	Meas. QC #	Conc.	Reference Material	Matrix	Upper Limit	Lower Limit	Pass/Fail	Prep SOP	Prep Init.	ISOP <sup>b</sup>	Oper. Init.
07/30/01	Se	76	312	QCP-MTL <sup>c</sup>	Water	333	267	+	P.255	MJW	P.207	MJW
07/30/01	Se	77	88	QCP-TMS <sup>d</sup>	Water	94.4	75.6	+	P.255	MJW	P.207	MJW
08/20/01	Se	76	306	QCP-MTL	Water	333	267	+	P.255	MJW	P.207	MJW
08/20/01	Se	77	91	QCP-TMS	Water	94.4	75.6	+	P.255	MJW	P.207	MJW
10/22/01	Se	76	328	QCP-MTL	Water	333	267	+	P.255	MJW	P.207	MJW
10/22/01	Se	77	96.7	QCP-TMS	Water	94.4	75.6	-	P.255	MJW	P.207	MJW
01/23/02	Se	77	92.3	QCP-TMS	Water	94.4	75.6	+	P.255	MJW	P.207	MJW
11/05/01	Se	89	1.6	NRCC DORM-2 <sup>e</sup>	Fillet (Dogfish)	1.63	1.17	+	P.256	MJW	P.207	MJW
11/05/01	Se	2	2.6	CERC Striped Bass <sup>f</sup>	Wholebody Fish	2.69	1.83	+	P.256	MJW	P.207	MJW
11/14/01	Se	2	2.6	CERC Striped Bass	Wholebody Fish	2.69	1.83	+	P.256	MJW	P.207	MJW
11/14/01	Se	89	1.6	NRCC DORM-2	Fillet (Dogfish)	1.63	1.17	+	P.256	MJW	P.207	MJW
11/26/01	Se	48	3.4	IAEA MA-A-1 <sup>g</sup>	Copepod	3.70	2.30	+	P.256	MJW	P.207	MJW
11/26/01	Se	71	1.2	NIST 2704 <sup>h</sup>	Sediment (River)	1.28	0.96	+	P.256	MJW	P.207	MJW
01/14/02	Se	2	2.6	CERC Striped Bass	Wholebody Fish	2.69	1.83	+	P.256	MJW	P.207	MJW
01/14/02	Se	89	1.6	NRCC DORM-2	Fillet (Dogfish)	1.63	1.17	+	P.256	MJW	P.207	MJW
01/22/02	Se	2	2.6	CERC Striped Bass	Wholebody Fish	2.69	1.83	+	P.256	MJW	P.207	MJW
01/22/02	Se	89	1.5	NRCC DORM-2	Fillet (Dogfish)	1.63	1.17	+	P.256	MJW	P.207	MJW
02/19/02	Se	71	1.2	NIST 2704	Sediment (River)	1.28	0.96	+	P.256	MJW	P.207	MJW
02/19/02	Se	97	1.9	IRMM 414 <sup>i</sup>	Plankton	2.03	1.48	+	P.256	MJW	P.207	MJW
03/06/02	Se	2	2.5	CERC Striped Bass	Wholebody Fish	2.69	1.83	+	P.256	MJW	P.207	MJW
03/06/02	Se	71	1.2	NIST 2704	Sediment (River)	1.28	0.96	+	P.256	MJW	P.207	MJW
03/06/02	Se	97	1.9	IRMM 414	Plankton	2.03	1.48	+	P.256	MJW	P.207	MJW
01/17/02	Hg	2	2.2	CERC Striped Bass	Wholebody Fish	3.00	1.52	+	P.510e	MJW	P.198	MJW
01/17/02	Hg	89	4.5	NRCC DORM-2	Fillet (Dogfish)	5.36	3.92	+	P.510e	MJW	P.198	MJW

<sup>a</sup>BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

<sup>b</sup> ISOP = instrumental standard operating procedure.

<sup>c</sup> QCP-MTL = QC Plus<sup>+</sup> Trace Metals Quality Control Standard, Cat# QCP-MTL (Inorganic Ventures, Inc., Lakewood, NJ); results expressed as ng/mL.

<sup>d</sup> QCP-TMS = QC Plus<sup>+</sup> Trace Metals Quality Control Standard, Cat# QCP-TMS (Inorganic Ventures, Inc., Lakewood, NJ); results expressed as ng/mL.

<sup>e</sup> NRCC DORM-2 = National Research Center Canada Dogfish Muscle Certified Reference Material for Trace Metals; µg/g dry weight.

<sup>f</sup> CERC Striped Bass = Columbia Environmental Research Center Wholebody Striped Bass Research Material; µg/g dry weight.

<sup>g</sup> IAEA MA-A-1 - International Atomic Energy Agency Reference Material MA-A-1: copepod homogenate.

<sup>h</sup> NIST 2704 = National Institute of Standards and Technology Standard Reference Material 2704 Buffalo River Sediment; µg/g dry weight.

<sup>i</sup> IRMM 414 = Institute for Reference Materials and Measurements Certified Reference Material 414: Trace Elements in Plankton.

**Table 10.** Measured concentrations of selenium in reference materials ( $\mu\text{g/g}$  dry weight). MURR = University of Missouri Research Reactor.

**a. MURR internal QC (NIST Bovine Liver 1577a<sup>a</sup>) - Set 1**

<b>MURR ID</b>	<b>Wt (g)</b>	<b>Se Area</b>	<b>HF Area</b>	<b>Se</b>			
				<b>mg/g</b>	<b>Mean</b>	<b>S.D.</b>	<b>%CV</b>
BL 740 a	0.04769	2805	301	1.02	1.06	0.03	3.09
BL 739 a	0.04768	2956	196	1.08			
BL 738 a	0.04765	2957	267	1.08			

<b>MURR ID</b>	<b>Wt (g)</b>	<b>Se Area</b>	<b>HF Area</b>	<b>Se</b>			
				<b>(mg/g)</b>	<b>Mean</b>	<b>S.D.</b>	<b>%CV</b>
BL 737 a	0.04770	698	98	1.15	1.16	0.04	3.59
BL 736 a	0.04773	728	0	1.20			
BL 735 a	0.04769	678	0	1.12			

<sup>a</sup> Certified Se level = 1.1 +/- 0.1  $\mu\text{g/g}$ .

<sup>b</sup> Position 1 and Position 3 refer to the distance samples are placed from detector (moved away) because of 1) interferences from other isotopes, or 2) the Se concentration in the sample is great enough to cause a dead time in excess of 20%.

**b. CERC blind QC samples to MURR - Set 1**

<b>Reference Material</b>	<b>Ele.</b>	<b>Matrix</b>	<b>Wt (g)</b>	<b>Meas. Conc.</b>	<b>Certified Conc.</b>	<b>% Rec</b>
BCR CRM 414 <sup>a</sup>	Se	Plankton	0.1404	1.90	1.75 +/- 0.10	103
BCR CRM 422 <sup>b</sup>	Se	Cod muscle	0.2303	1.59	1.63 +/- 0.07	100
NRCC DORM 2 <sup>c</sup>	Se	Dogfish muscle	0.1395	1.42	1.40 +/- 0.09	100

<sup>a</sup> BCR CRM 414 = Institute for Reference Methods and Measurements Trace Elements in Plankton: CRM 414; Commission of European Communities.

<sup>b</sup> BCR CRM 422 = Institute for Reference Methods and Measurements Trace Elements in Cod Muscle: CRM 422; Commission of European Communities.

<sup>c</sup> NRCC DORM 2 = National Research Council Canada Dogfish Muscle Certified Reference Material for trace elements

**Table 11.** Measured concentrations of selenium in reference materials ( $\mu\text{g/g}$  dry weight). MURR = University of Missouri Research Reactor.

**a. MURR Internal QC (NIST Bovine Liver 1577a<sup>a</sup>) – Sets 2 and 3.**

**Position #1<sup>b</sup>**

MURR ID	Wt (g)	Se Area	HF Area	Se			
				(mg/g)	Mean	S.D.	%CV
BL 728	0.04770	4246	118	1.05	1.05	0.03	2.60
BL 729	0.04769	4093	142	1.01			
BL 730	0.04773	4243	150	1.04			
BL 731	0.04769	4305	275	1.06			
BL 732	0.04765	4395	185	1.08			
BL 733	0.04769	4127	378	1.02			

<sup>a</sup> Certified Se level =  $1.1 \pm 0.1 \mu\text{g/g}$ .

<sup>b</sup> Position 1 and Position 3 refer to the distance samples are placed from detector (moved away) because of 1) interferences from other isotopes, or 2) the Se concentration in the sample is great enough to cause a dead time in excess of 20%.

**Position #3<sup>b</sup>**

MURR ID	Wt (g)	Se Area	HF Area	Se			
				(mg/g)	Mean	S.D.	%CV
BL 728	0.04770	716	49	1.09	1.17	0.07	5.96
BL 729	0.04769	803	118	1.22			
BL 730	0.04773	787	15	1.19			
BL 731	0.04769	706	109	1.07			
BL 732	0.04765	775	16	1.18			
BL 733	0.04769	743	63	1.13			

**b. CERC QC Samples to MURR – Sets 2 and 3.**

Reference Material	Ele.	Matrix	Wt (g)	Meas. Conc.	Certified Conc.	%Rec
IRMM CRM 422 <sup>c</sup>	Se	Cod muscle	0.0638	1.60	1.63 +/- 0.07	100
IRMM CRM 422	Se	Cod muscle	0.0927	1.48	1.63 +/- 0.07	95
IRMM CRM 422	Se	Cod muscle	0.1069	1.57	1.63 +/- 0.07	100
NRCC DORM-2 <sup>d</sup>	Se	Dogfish muscle	0.0679	1.29	1.40 +/- 0.09	98
NRCC DORM-2	Se	Dogfish muscle	0.0460	1.27	1.40 +/- 0.09	97
NRCC DORM-2	Se	Dogfish muscle	0.0893	1.30	1.40 +/- 0.09	99
IRMM CRM 414 <sup>e</sup>	Se	Plankton	0.0945	1.61	1.75 +/- 0.1	98
IRMM CRM 414	Se	Plankton	0.0985	1.56	1.75 +/- 0.1	95
IRMM CRM 414	Se	Plankton	0.0930	1.31	1.75 +/- 0.1	79

**Table 12.** Recoveries of elements from digested reference tissue materials determined by ICP-MS semi-quantitative analysis of fish samples.

**a. CERC Striped Bass<sup>a</sup>**

Element	Units	Meas. Conc.	Cert. Mean	Upper Limit	Lower Limit	% Rec
Al	µg/g dry	33.9	21.1	25.7	16.5	132
Cr	µg/g dry	4.87	1.40	2.60	0.20	187.
Fe	µg/g dry	454	269	297	241	153
Ni	µg/g dry	0.82	1.80	3.20	0.40	100
Cu	µg/g dry	6.07	4.20	4.70	3.70	129
Zn	µg/g dry	52.5	43.9	45.9	41.9	114
As	µg/g dry	3.95	3.20	3.70	2.70	107
Cd	µg/g dry	0.36	0.33	0.45	0.21	100
Pb	µg/g dry	4.05	3.62	4.79	2.45	100

**b. NRCC DORM-2<sup>b</sup>**

Element	Meas. Conc.	Cert. Mean	Upper Limit	Lower Limit	% Rec
Al	µg/g dry	8.3	10.9	12.6	9.20
Cr	µg/g dry	37.8	34.7	40.2	29.2
Mn	µg/g dry	4.72	3.66	4.00	3.32
Fe	µg/g dry	371.	142.	152.	132
Co	µg/g dry	0.24	0.182	0.21	0.15
Ni	µg/g dry	21.5	19.4	22.5	16.3
Cu	µg/g dry	3.75	2.34	2.50	2.18
Zn	µg/g dry	31.0	25.6	27.9	23.3
As	µg/g dry	23.5	18.1	19.1	17.0
Ag	µg/g dry	0.036	0.041	0.054	0.028
Cd	µg/g dry	0.056	0.043	0.051	0.035
Sn	µg/g dry	0.000	(0.023)	---	---
Pb	µg/g dry	0.083	0.065	0.072	0.058

<sup>a</sup>CERC Striped Bass = Columbia Environmental Research Center Wholebody Striped Bass

Research Material.

<sup>b</sup>NRCC DORM-2 = National Research Council Canada DORM-2 Dogfish Muscle Certified Reference Material for Trace Metals.

**Table 13.** Instrumental precision within an analytical "run" for selenium and mercury determined by atomic absorption techniques.

BID <sup>a</sup>	Ele.	Run Date	Std. Conc. <sup>b</sup>	Vol <sup>c</sup> (mL)	Initial Abs/Read	Mean Read <sup>d</sup>	# of checks	SD <sup>e</sup>	%RSD <sup>f</sup>	ISOP	Oper. Init.
07/30/01	Se	08/03/01	4	500	0.129	0.129	10	0.002	1.6	P.207	MJW
08/20/01	Se	08/24/01	4	500	0.134	0.125	10	0.005	3.8	P.207	MJW
10/22/01	Se	10/26/01	4	500	0.119	0.124	9	0.002	2.0	P.207	MJW
11/05/01	Se	11/08/01	4	500	0.115	0.117	8	0.002	1.6	P.207	MJW
11/14/01	Se	12/28/01	4	500	0.115	0.122	9	0.003	2.7	P.207	MJW
11/26/01	Se	12/31/01	4	500	0.114	0.117	8	0.002	2.0	P.207	MJW
01/14/02	Se	01/29/02	4	500	0.125	0.129	7	0.002	1.5	P.207	MJW
01/22/02	Se	01/30/02	4	500	0.123	0.124	8	0.002	1.8	P.207	MJW
01/23/02	Se	01/28/02	4	500	0.114	0.108	4	0.004	3.9	P.207	MJW
02/19/02	Se	02/26/02	4	500	0.120	0.121	6	0.002	1.9	P.207	MJW
03/06/02	Se	03/12/02	4	500	0.105	0.107	5	0.002	1.9	P.207	MJW
01/17/02	Hg	02/04/02	9	500	0.089	0.090	5	0.001	1.4	P.198	MJW

<sup>a</sup>BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

<sup>b</sup>Std. Conc. = units in ppb unless otherwise noted.

<sup>c</sup>Vol ( $\mu$ L) = sample loop size for the FIAS 200 in microliters.

<sup>d</sup>Mean Read = units are absorbance, concentration, or intensity depending upon instrumentation used.

<sup>e</sup>SD = standard deviation.

<sup>f</sup>%RSD = percent relative standard deviation.

**Table 14.** Percent relative standard deviation from triplicate digestion and analysis of samples for selenium and mercury.

<b>BID<sup>a</sup></b>	<b>Ele.</b>	<b>Matrix</b>	<b>Rep 1</b>	<b>Rep 2</b>	<b>Rep 3</b>	<b>Mean</b>	<b>Units</b>	<b>SD<sup>b</sup></b>	<b>%RSD<sup>c</sup></b>	<b>PSOP<sup>d</sup></b>	<b>Init.</b>	<b>ISOP<sup>e</sup></b>	<b>Oper. Init.</b>
07/30/01	Se	Water	4.284	3.337	3.322	3.647	ng/mL	0.551	15	P.255	MJW	P.207	MJW
07/30/01	Se	Water	3.86	3.15	3.32	3.44	ng/mL	0.368	11	P.255	MJW	P.207	MJW
08/20/01	Se	Water	4.43	3.95	4.37	4.25	ng/mL	0.264	6.2	P.255	MJW	P.207	MJW
08/20/01	Se	Water	2.25	1.72	1.21	1.73	ng/mL	0.516	30	P.255	MJW	P.207	MJW
10/22/01	Se	Water	4.36	4.16	4.06	4.19	ng/mL	0.153	3.6	P.255	MJW	P.207	MJW
10/22/01	Se	Water	3.78	3.62	3.53	3.64	ng/mL	0.131	3.6	P.255	MJW	P.207	MJW
01/23/02	Se	Water	- 0.47	- 0.27	- 0.63	- 0.46	ng/mL	0.179	---	P.255	MJW	P.207	MJW
11/05/01	Se	Fish	1.33	1.31	1.35	1.33	µg/g	0.018	1.3	P.256	MJW	P.207	MJW
11/14/01	Se	Fish	2.85	2.85	2.91	2.87	µg/g	0.036	1.2	P.256	MJW	P.207	MJW
11/26/01	Se	Fish Food	2.39	2.40	2.32	2.37	µg/g	0.045	1.9	P.256	MJW	P.207	MJW
11/26/01	Se	Sediment	5.70	5.80	5.84	5.78	µg/g	0.075	1.3	P.256	MJW	P.207	MJW
01/14/02	Se	Fish	1.88	1.89	1.90	1.89	µg/g	0.008	0.4	P.256	MJW	P.207	MJW
01/22/02	Se	Fish	1.10	1.08	1.13	1.10	µg/g	0.026	2.4	P.256	MJW	P.207	MJW
01/22/02	Se	Fish	1.02	1.03	1.04	1.03	µg/g	0.007	0.7	P.256	MJW	P.207	MJW
02/19/02	Se	Zooplankton	1.75	1.62	1.70	1.69	µg/g	0.065	3.8	P.256	MJW	P.207	MJW
02/19/02	Se	Zooplankton	1.54	1.58	1.67	1.60	µg/g	0.071	4.4	P.256	MJW	P.207	MJW
03/06/02	Se	Sediment	1.47	1.53	1.55	1.51	µg/g	0.042	2.8	P.256	MJW	P.207	MJW
01/17/02	Hg	Fish	0.41	0.41	0.40	0.41	µg/g	0.006	1.6	P.510e	MJW	P.198	MJW
01/17/02	Hg	Fish	0.20	0.20	0.23	0.21	µg/g	0.018	8.4	P.510e	MJW	P.198	MJW

<sup>a</sup> BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the block.

<sup>b</sup> SD = standard deviation.

<sup>c</sup>%RSD = percent relative standard deviation.

<sup>d</sup> PSOP = standard operating procedure used for chemical preparation of sample.

<sup>e</sup> ISOP = standard operating procedure used for instrumental analysis of sample.

<sup>f</sup>%RSD invalid due to one or more sample concentrations being less than the method detection limit (see Table 25).

**Table 15.** Percent relative standard deviation from the triplicate digestion and analysis of a fish composite sample.

Element	Run 1	Run 2	Run 3	Mean Conc.	SD	% RSD
Li	< 1	< 1	< 1	---	---	---
Be	< 1	< 1	< 1	---	---	---
Na	4200	4400	4100	4233	153	3.6
Mg	1300	1400	1400	1367	57.7	4.2
Al	15	20	15	17	2.9	17
K	15000	14000	14000	14333	577	4.0
Ca	33000	36000	36000	35000	1732	4.9
Ti	< 0.1	< 0.1	< 0.1	---	---	---
V	< 0.1	< 0.1	< 0.1	---	---	---
Cr	2	< 1	< 1	---	---	---
Mn	2	2	2	2.	0.3	12
Fe	250	190	150	197	50.3	26
Co	0	0	0	0	0	5.0
Ni	< 1	< 1	< 1	---	---	---
Cu	15	7	7	9	4.8	51
Zn	140	140	140	140	0	0
Ga	0	0	0	0	0	7.4
Ge	< 0.1	< 0.1	< 0.1	---	---	---
As	0.2	0.3	< 0.1	0	0.1	51
Se	2	2	1	2	0.4	26
Rb	3.6	3.7	3.6	4	0.1	1.6
Sr	30	31	32	31	1.0	3.2
Y	< 1	< 1	< 1	---	---	---
Zr	< 1	< 1	< 1	---	---	---
Nb	< 1	< 1	< 1	---	---	---
Mo	< 0.1	< 0.1	< 0.1	---	---	---
Ru	< 1	< 1	< 1	---	---	---
Pd	< 1	< 1	< 1	---	---	---
Ag	< 0.1	< 0.1	< 0.1	---	---	---
Cd	< 0.1	< 0.1	< 0.1	---	---	---
In	< 1	< 1	< 1	---	---	---
Sn	0.4	< 0.1	< 0.1	---	---	---
Sb	< 0.1	< 0.1	< 0.1	---	---	---
Te	< 0.1	< 0.1	< 0.1	---	---	---
Cs	< 1	< 1	< 1	---	---	---
Ba	2	2	2	2	0.1	4.5
La	< 0.1	< 0.1	< 0.1	---	---	---

<b>Element</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>	<b>Mean Conc.</b>	<b>SD</b>	<b>% RSD</b>
Ce	< 0.1	< 0.1	< 0.1	---	---	---
Pr	< 0.1	< 0.1	< 0.1	---	---	---
Nd	< 0.1	< 0.1	< 0.1	---	---	---
Sm	< 0.1	< 0.1	< 0.1	---	---	---
Eu	< 0.1	< 0.1	< 0.1	---	---	---
Gd	< 0.1	< 0.1	< 0.1	---	---	---
Tb	< 0.1	< 0.1	< 0.1	---	---	---
Dy	< 0.1	< 0.1	< 0.1	---	---	---
Ho	< 0.1	< 0.1	< 0.1	---	---	---
Er	< 0.1	< 0.1	< 0.1	---	---	---
Tm	< 0.1	< 0.1	< 0.1	---	---	---
Yb	< 0.1	< 0.1	< 0.1	---	---	---
Lu	< 0.1	< 0.1	< 0.1	---	---	---
Hf	< 0.1	< 0.1	< 0.1	---	---	---
Ta	< 0.1	< 0.1	< 0.1	---	---	---
W	< 0.1	< 0.1	< 0.1	---	---	---
Re	< 0.1	< 0.1	< 0.1	---	---	---
Os	< 0.1	< 0.1	< 0.1	---	---	---
Ir	< 0.1	< 0.1	< 0.1	---	---	---
Pt	< 0.1	< 0.1	< 0.1	---	---	---
Au	< 0.1	< 0.1	< 0.1	---	---	---
Tl	< 0.1	< 0.1	< 0.1	---	---	---
Pb	< 1	< 1	< 1	---	---	---
Bi	< 1	< 1	< 1	---	---	---
U	< 1	< 1	< 1	---	---	---

**Table 16.** Percent relative standard deviation from the triplicate digestion and analysis of a fish composite sample.

Element	Run 1	Run 2	Run 3	Conc.	SD	% RSD
Li	< 1	< 1	< 1	---	---	---
Be	< 1	< 1	< 1	---	---	---
Na	5400	5400	5500	5430	57.7	1.1
Mg	1200	1200	1300	1230	57.7	4.7
Al	4	6	3	4	1.7	40
K	12000	12000	12000	12000	0	0
Ca	25000	29000	32000	28700	3510	12
Ti	< 0.1	< 0.1	< 0.1	---	---	---
V	< 0.1	< 0.1	< 0.1	---	---	---
Cr	< 1	7	14	11	4.7	44
Mn	4	5	5	5	0.7	15
Fe	250	230	250	243	11.5	4.7
Co	0	0	0	0	0	7.1
Ni	< 1	5	6	6	0.8	14
Cu	8	8	7	8	0.3	3.8
Zn	150	150	140	147	5.8	3.9
Ga	0.13	0.14	0.14	0.14	0	4.2
Ge	< 0.1	< 0.1	< 0.1	---	---	---
As	0.6	0.7	0.7	1	0.1	8.4
Se	3	3	3	3	0.1	1.8
Rb	14	14	14	14	0.0	0
Sr	68	83	86	79	9.6	12
Y	< 1	< 1	< 1	---	---	---
Zr	< 1	< 1	< 1	---	---	---
Nb	< 1	< 1	< 1	---	---	---
Mo	< 0.1	0.2	0.3	0	0.1	36
Ru	< 1	< 1	< 1	---	---	---
Pd	< 0.1	< 0.1	< 0.1	---	---	---
Ag	< 0.1	< 0.1	< 0.1	---	---	---
Cd	0.12	< 0.1	< 0.1	---	---	---
In	< 1	< 1	< 1	---	---	---
Sn	< 0.1	< 0.1	< 0.1	---	---	---
Sb	< 0.1	< 0.1	< 0.1	---	---	---
Te	< 0.1	< 0.1	< 0.1	---	---	---
Cs	1.2	1.2	1.2	1.2	0	0
Ba	2	2	2	1.8	0.1	6.5
La	< 0.1	< 0.1	< 0.1	---	---	---

<b>Element</b>	<b>Run 1</b>	<b>Run 2</b>	<b>Run 3</b>	<b>Conc.</b>	<b>SD</b>	<b>% RSD</b>
Ce	< 0.1	< 0.1	< 0.1	---	---	---
Pr	< 0.1	< 0.1	< 0.1	---	---	---
Nd	< 0.1	< 0.1	< 0.1	---	---	---
Sm	< 0.1	< 0.1	< 0.1	---	---	---
Eu	< 0.1	< 0.1	< 0.1	---	---	---
Gd	< 0.1	< 0.1	< 0.1	---	---	---
Tb	< 0.1	< 0.1	< 0.1	---	---	---
Dy	< 0.1	< 0.1	< 0.1	---	---	---
Ho	< 0.1	< 0.1	< 0.1	---	---	---
Er	< 0.1	< 0.1	< 0.1	---	---	---
Tm	< 0.1	< 0.1	< 0.1	---	---	---
Yb	< 0.1	< 0.1	< 0.1	---	---	---
Lu	< 0.1	< 0.1	< 0.1	---	---	---
Hf	< 0.1	< 0.1	< 0.1	---	---	---
Ta	< 0.1	< 0.1	< 0.1	---	---	---
W	< 0.1	< 0.1	< 0.1	---	---	---
Re	< 0.1	< 0.1	< 0.1	---	---	---
Os	< 0.1	< 0.1	< 0.1	---	---	---
Ir	< 0.1	< 0.1	< 0.1	---	---	---
Pt	< 0.1	< 0.1	< 0.1	---	---	---
Au	< 0.1	< 0.1	< 0.1	---	---	---
Tl	< 0.1	< 0.1	< 0.1	---	---	---
Pb	< 1	< 1	< 1	---	---	---
Bi	< 1	< 1	< 1	---	---	---
U	< 1	< 1	< 1	---	---	---

## Draft – for Review Only

**Table 17.** Relative percent difference for the duplicate preparation and analysis of a water and sediment sample for selenium.

BID <sup>a</sup>	Element	Matrix	Dup1	Dup2	Mean	Units	Diff <sup>b</sup>	RPD <sup>c</sup>	Prep SOP	Prep. Init.	ISOP <sup>d</sup>	Oper. Init.
08/20/01	Se	Water	4.48	4.67	4.57	ng/mL	-0.19	4.0	P.255	MJW	P.207	MJW
02/19/02	Se	Sediment	1.70	1.69	1.69	µg/g	0.003	0.2	P.256	MJW	P.207	MJW

<sup>a</sup>BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or “block”.

<sup>b</sup>Diff = Dup 1 - Dup 2; digestates spiked with mid-range standard prior to analysis.

<sup>c</sup>RPD = relative percent difference, calculated as Diff/Mean X 100; acceptance criteria +/- 10%.

<sup>d</sup>ISOP = standard operating procedure used for instrumental analysis of sample (P.241).

**Table 18.** Relative percent difference for zooplankton analyzed by INAA and hydride AA.

CERC#	Matrix	Hydride			Units	Diff <sup>a</sup>	RPD <sup>b</sup>
		INAA	AA	Mean			
23326	Zooplankton	6.13	5.82	5.97	µg/g	0.32	5.3
23329	Zooplankton	1.64	2.29	1.96	µg/g	-0.64	33
23330	Zooplankton	2.88	2.17	2.53	µg/g	0.71	28
23331	Zooplankton	1.21	2.02	1.62	µg/g	-0.81	50
23442	Zooplankton	3.78	5.61	4.69	µg/g	-1.83	39
23444	Zooplankton	3.42	5.34	4.38	µg/g	-1.92	44
23448	Zooplankton	2.29	2.18	2.24	µg/g	0.12	5.3
23696	Zooplankton	2.90	1.47	2.19	µg/g	1.43	65
23697	Zooplankton	1.98	2.05	2.01	µg/g	-0.07	3.7
23698	Zooplankton	3.15	1.71	2.43	µg/g	1.45	60
24533	Zooplankton	4.48	1.38	2.93	µg/g	3.10	106
24534	Zooplankton	3.80	1.29	2.55	µg/g	2.51	99
24535	Zooplankton	2.32	1.64	1.98	µg/g	0.68	34

<sup>a</sup>Diff = Dup 1 (INAA) - Dup 2 Hydride AA).

<sup>b</sup>RPD = relative percent difference, calculated as Diff/Mean X 100.

**Table 19.** Percent recovery of selenium spiked in pre-digestion water, sediment, food, zooplankton, and selenium and mercury in fish samples.

BID <sup>a</sup>	Ele.	Spike	Amt. <sup>b</sup>	Matrix	Total <sup>c</sup>	Bkgd. <sup>d</sup>	Spk /Bkgd <sup>e</sup>	Spk /Bkg <sup>d</sup>	% REC <sup>f</sup>	Prep SOP	Prep.	ISOP	Oper.
07/30/01	Se	SeMETH	1.0	Water	1.07	0.018	56	362	105	P.255	MJW	P.207	MJW
07/30/01	Se	Se <sup>+6</sup>	10.0	Water	10.1	0.018	556	3620	101	P.255	MJW	P.207	MJW
07/30/01	Se	SeMETH	1.0	Water	1.07	0.017	59	543	105	P.255	MJW	P.207	MJW
07/30/01	Se	Se <sup>+6</sup>	10.0	Water	10.5	0.017	588	5440	105	P.255	MJW	P.207	MJW
08/20/01	Se	SeMETH	1.0	Water	1.05	0.021	48	758	103	P.255	MJW	P.207	MJW
08/20/01	Se	Se <sup>+6</sup>	10.0	Water	10.1	0.021	476	7580	101	P.255	MJW	P.207	MJW
08/20/01	Se	SeMETH	1.0	Water	1.03	0.009	111	388	103	P.255	MJW	P.207	MJW
08/20/01	Se	Se <sup>+6</sup>	10.0	Water	10.2	0.009	1111	3880	102	P.255	MJW	P.207	MJW
08/20/01	Se	SeMETH	1.0	Water	1.05	0.023	43	1530	103	P.255	MJW	P.207	MJW
10/22/01	Se	SeMETH	0.2	Water	0.26	0.021	10	262	119	P.255	MJW	P.207	MJW
10/22/01	Se	Se <sup>+6</sup>	2.0	Water	2.15	0.021	95	2620	107	P.255	MJW	P.207	MJW
10/22/01	Se	SeMETH	0.2	Water	0.26	0.018	11	306	119	P.255	MJW	P.207	MJW
10/22/01	Se	Se <sup>+6</sup>	2.0	Water	2.20	0.018	111	3060	109	P.255	MJW	P.207	MJW
11/05/01	Se	SeMETH	1.0	Fish	1.47	0.40	2.5	188	107	P.256	MJW	P.207	MJW
11/05/01	Se	Se <sup>+6</sup>	10.0	Fish	11.36	0.41	24	1830	109	P.256	MJW	P.207	MJW
11/14/01	Se	SeMETH	1.0	Fish	1.97	0.87	1.2	188	110	P.256	MJW	P.207	MJW
11/14/01	Se	Se <sup>+6</sup>	10.0	Fish	11.42	0.87	12	1830	106	P.256	MJW	P.207	MJW
11/26/01	Se	SeMETH	1.0	Fish Food	1.61	0.596	2	188	102	P.256	MJW	P.207	MJW
11/26/01	Se	Se <sup>+6</sup>	10.0	Fish Food	11.52	0.593	17	1828	109	P.256	MJW	P.207	MJW
11/26/01	Se	SeMETH	1.0	Sediment	2.63	1.451	1	188	118	P.256	MJW	P.207	MJW
11/26/01	Se	Se <sup>+6</sup>	10.0	Sediment	12.7	1.445	7	1830	113	P.256	MJW	P.207	MJW
07/30/01	Se	SeMETH	1.0	Water	1.07	0.018	56	362	105	P.255	MJW	P.207	MJW
01/23/02	Se	SeMETH	1.0	Water	1.1	< 0.77	---	---	108	P.255	MJW	P.207	MJW
01/23/02	Se	Se <sup>+6</sup>	10.0	Water	9.8	< 0.77	---	---	98	P.255	MJW	P.207	MJW
01/22/02	Se	SeMETH	1.0	Fish	1.6	0.546	2	78	103	P.256	MJW	P.207	MJW

BID <sup>a</sup>	Ele.	Spike	Amt. <sup>b</sup>	Matrix	Total <sup>c</sup>	Bkgd. <sup>d</sup>	Spk /Bkgd <sup>e</sup>	Spk /Bkg <sup>d</sup>	% REC <sup>f</sup>	Prep SOP	Prep.	ISOP	Oper.
01/22/02	Se	Se <sup>+6</sup>	10.0	Fish	11.5	0.552	18	763	109	P.256	MJW	P.207	MJW
01/22/02	Se	SeMETH	1.0	Fish	1.5	0.515	2	287	103	P.256	MJW	P.207	MJW
01/22/02	Se	Se <sup>+6</sup>	10.0	Fish	11.3	0.516	19	2870	108	P.256	MJW	P.207	MJW
02/19/02	Se	SeMETH	1.0	Zooplankton	1.4	0.426	2	61	97	P.256	MJW	P.207	MJW
02/19/02	Se	Se <sup>+6</sup>	10.0	Zooplankton	10.8	0.426	23	613	104	P.256	MJW	P.207	MJW
02/19/02	Se	SeMETH	1.0	Sediment	1.4	0.425	2	1820	101	P.256	MJW	P.207	MJW
02/19/02	Se	Se <sup>+6</sup>	10.0	Sediment	11.3	0.427	23	18100	109	P.256	MJW	P.207	MJW
03/06/02	Se	SeMETH	1.0	Sediment	1.4	0.373	3	96	104	P.256	MJW	P.207	MJW
03/06/02	Se	Se <sup>+6</sup>	10.0	Sediment	11.3	0.415	24	870	109	P.256	MJW	P.207	MJW
01/17/02	Hg	Hg <sup>+2</sup>	1.0	Fish	1.0	0.002	500	485	99	P.510e	MJW	P.198	MJW
01/17/02	Hg	Hg <sup>+2</sup>	1.0	Fish	1.1	0.102	10	621	100	P.510e	MJW	P.198	MJW
01/17/02	Hg	CH <sub>3</sub> HgCl	10.0	Fish	10.2	0.105	95	6020	101	P.510e	MJW	P.198	MJW
01/17/02	Hg	Hg <sup>+2</sup>	1.0	Fish	1.0	0.054	19	221	100	P.510e	MJW	P.198	MJW
01/17/02	Hg	CH <sub>3</sub> HgCl	10.0	Fish	10.3	0.053	189	2220	102	P.510e	MJW	P.198	MJW

<sup>a</sup>BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

<sup>b</sup>Amt µg = the absolute µg amount of the spike in the form listed in column 3 which was added to a sample.

<sup>c</sup>Total µg Meas. = the micrograms (µg) of the analyte in the sample spike measured by the instrument (spike + background).

<sup>d</sup>Bkgd (µg) = background amount of the sample in µg.

<sup>e</sup>Spk/Bkgd = the ratio of the spike amount added (column 4) divided by the mean sample background concentration (column 7).

<sup>f</sup>%REC = Total µg Meas. (column 6) - Bkgd. µg (column 7) divided by the Amt. µg (column 4) X 100.

<sup>g</sup>spike/background ratios invalid due to background being less than the method detection limit.

**Table 20.** Recovery of elements spiked into a blank and a composite fish sample prior to acid digestion.

Element	Spike Conc (mg/g)	Bkgd Conc. (mg/g)	Bkgd SD	Spike/ Bkgd Ratio	Spike/ Bkgd SD	Total Conc. (mg/g)	% Rec
<b>Blank Spike</b>							
Be	0.4	0.001	0.002	300	173.	0.47	117
V	0.4	0	0	---	---	0.43	107
Cr	4.0	0.093	0.056	43	71	4.32	106
Mn	4.0	0.027	0.008	150	480	4.50	112
Co	0.4	0.001	0.002	300	173	0.43	107
Ni	4.0	0.059	0.043	68	94	4.24	105
Cu	4.0	0.455	0.226	8.8	18	4.44	100
Zn	40.	0.837	0.471	48	85	40.6	99
Mo	0.4	0.019	0.008	21	48	0.39	93
Cd	0.04	0.001	0.002	30	17	0.05	117
Ba	4.0	0.043	0.031	94	129	3.42	85
Tb	0.4	0	0	---	---	0.39	98
Tm	0.4	0	0	---	---	0.39	98
Pb	0.4	0.031	0.014	13	28	0.40	92

**CERC# 23451 Low Spike**

Be	0.4	0.03	0.007	14	55	0.6	149
V	0.4	0	0	---	---	0.3	84
Cr	4.0	1.15	0.401	3.5	10	10.1	---
Mn	4.0	2.08	0.235	1.9	17	8.1	150
Co	0.4	0.4	0.026	1.0	16	1.0	150
Ni	4.0	- 0.01	0.184	279	22	10.8	271
Cu	4.0	9.6	5.052	0.4	1	11.7	---
Zn	40	140	2.345	0.3	17	196	141
Mo	0.4	0.07	0.007	5.5	60	0.6	131
Cd	0.04	0.02	0.003	1.9	16	0.1	137
Ba	4.0	2.18	0.111	1.8	36	5.9	93
Tb	0.4	0	0	---	---	0.4	103
Tm	0.4	0	0	---	---	0.4	103
Pb	0.4	0.15	0.079	2.6	5	0.5	77

<b>Element</b>	<b>Spike Conc (mg/g)</b>	<b>Bkgd Conc. (mg/g)</b>	<b>Bkgd SD</b>	<b>Spike/ Bkgd Ratio</b>	<b>Spike/ Bkgd SD</b>	<b>Total Conc. (mg/g)</b>	<b>% Rec</b>
<b>CERC# 23451 High Spike</b>							
Be	3.9	0.03	0.007	140	534	6.36	163
V	3.9	0	0	---		4.10	106
Cr	39	1.15	0.401	34	97	45.4	114
Mn	39	2.08	0.235	19	165	44.5	109
Co	3.9	0.4	0.026	9.4	150	4.54	106
Ni	39	- 0.01	0.184	2708	210	42.3	109
Cu	39	9.6	5.052	4.1	8	52.7	---
Zn	388	140	2.345	2.8	165	674	138
Mo	3.9	0.07	0.007	53	586	4.32	110
Cd	0.39	0.02	0.003	18	151	0.53	131
Ba	39	2.18	0.111	18	349	39.0	95
Tb	3.9	0	0	---		4.19	108
Tm	3.9	0	0	---		4.23	109
Pb	3.9	0.15	0.079	25	49	4.11	102

<sup>a</sup> Calculations invalid due to a background of 0.00.

<sup>b</sup> %Recovery invalid due to a spk/bkgd SD less than or equal to 10.

**Table 21.** Recovery of elements spiked into a fish sample composite sample prior to acid digestion.

Element	Spike Conc (mg/g)	Bkgd Conc (mg/g)	Bkgd SD	Spike /Bkgd Ratio	Spike /Bkgd SD	Total Conc (mg/g)	% Recovery
<b>CERC# 25309 Low Spike</b>							
Be	0.4	0.02	0.00005	20.0	8720	0.7	163
V	0.4	0	--- <sup>a</sup>	--- <sup>a</sup>	--- <sup>a</sup>	0.1	27
Cr	4	7.12	6.97	0.6	0.6	4.5	--- <sup>b</sup>
Mn	4	4.54	0.66	0.9	6.0	8.2	--- <sup>b</sup>
Co	0.4	0.42	0.0308	0.9	13	0.8	96
Ni	4	3.81	3.27	1.0	1.2	4.3	--- <sup>b</sup>
Cu	4	8	0.27	0.5	15	12.1	114
Zn	40	144	5.56	0.3	7.1	182	--- <sup>b</sup>
Mo	0.4	0.20	0.11	2.0	3.5	1.0	--- <sup>b</sup>
Cd	0.04	0.06	0.0530	0.6	0.7	0.09	--- <sup>b</sup>
Ba	4	1.77	0.0899	2.2	44	5.5	94
Tb	0.4	0	--- <sup>a</sup>	--- <sup>a</sup>	--- <sup>a</sup>	0.4	105
Tm	0.4	0	--- <sup>a</sup>	--- <sup>a</sup>	--- <sup>a</sup>	0.4	104
Pb	0.4	0.21	0.0477	1.9	8.3	0.6	--- <sup>b</sup>
<b>CERC# 25309 High Spike</b>							
Be	4.0	0.02	0.00005	201	87600	6.0	151
V	4.0	0	--- <sup>a</sup>	--- <sup>a</sup>	--- <sup>a</sup>	4.0	100
Cr	40	7.12	6.97	5.6	5.7	45.5	--- <sup>b</sup>
Mn	40	4.54	0.66	8.7	60	49.1	112
Co	4.0	0.42	0.0308	9.5	129	4.8	111
Ni	40	3.81	3.27	10.4	12	45.5	105
Cu	40	8	0.27	5.2	146	56.4	123
Zn	397	144	5.56	2.7	71	672	133
Mo	4.0	0.20	0.11	19.9	35	4.2	102
Cd	0.4	0.06	0.0530	6.4	7.5	0.55	--- <sup>b</sup>
Ba	40	1.77	0.0899	22.5	442	38.2	92
Tb	4.0	0	--- <sup>a</sup>	--- <sup>a</sup>	--- <sup>a</sup>	4.2	106
Tm	4.0	0	--- <sup>a</sup>	--- <sup>a</sup>	--- <sup>a</sup>	4.0	100
Pb	4.0	0.21	0.0477	19.3	83	4.1	99

<sup>a</sup> Calculations invalid due to a background of 0.00.

<sup>b</sup> %Recovery invalid due to a spk/bkgd SD < 10.

**Table 22.** Percent recoveries of selenium and mercury in analysis spikes.

BID <sup>a</sup>	Ele.	Matrix	Units	Spk Amt <sup>b</sup>	Vol.	Effec. Conc <sup>c</sup>	Bkgd Conc	Total <sup>d</sup> Conc	% REC <sup>e</sup>	Prep SOP	Prep. Init.	ISOP	Oper. Init.
07/30/01	Se	Water	ng/mL	0.06	12	5.0	0.26	5.58	107	P.255	MJW	P.207	MJW
07/30/01	Se	Water	ng/mL	0.06	12	5.0	0.82	6.14	106	P.255	MJW	P.207	MJW
07/30/01	Se	Water	ng/mL	0.06	12	5.0	0.78	6.1	107	P.255	MJW	P.207	MJW
08/20/01	Se	Water	ng/mL	0.06	12	5.0	0.45	5.8	106	P.255	MJW	P.207	MJW
08/20/01	Se	Water	ng/mL	0.06	12	5.0	0.89	6.17	106	P.255	MJW	P.207	MJW
08/20/01	Se	Water	ng/mL	0.06	12	5.0	0.30	5.6	106	P.255	MJW	P.207	MJW
10/22/01	Se	Water	ng/mL	0.06	12	5.0	0.15	5.6	110	P.255	MJW	P.207	MJW
10/22/01	Se	Water	ng/mL	0.06	12	5.0	0.78	6.3	111	P.255	MJW	P.207	MJW
10/22/01	Se	Water	ng/mL	0.06	12	5.0	0.88	6.4	110	P.255	MJW	P.207	MJW
01/23/02	Se	Water	ng/mL	0.06	12	5.0	0.02	5.5	109	P.255	MJW	P.207	MJW
11/05/01	Se	Fish	ng/mL	0.06	12	5.0	3.65	8.8	103	P.256	MJW	P.207	MJW
11/05/01	Se	Fish	ng/mL	0.06	12	5.0	4.47	9.6	102	P.256	MJW	P.207	MJW
11/05/01	Se	Fish	ng/mL	0.06	12	5.0	3.60	8.8	105	P.256	MJW	P.207	MJW
11/14/01	Se	Fish	ng/mL	0.06	12	5.0	3.55	8.3	94	P.256	MJW	P.207	MJW
11/14/01	Se	Fish	ng/mL	0.06	12	5.0	3.87	9.1	105	P.256	MJW	P.207	MJW
11/26/01	Se	Fish Food	ng/mL	0.06	12	5.0	4.63	9.5	98	P.256	MJW	P.207	MJW
11/26/01	Se	Sediment	ng/mL	0.06	12	5.0	3.91	8.9	100	P.256	MJW	P.207	MJW
11/26/01	Se	Zooplankton	ng/mL	0.06	12	5.0	2.81	7.8	100	P.256	MJW	P.207	MJW
01/14/02	Se	Fish	ng/mL	0.06	12	5.0	3.26	8.1	98	P.256	MJW	P.207	MJW
01/14/02	Se	Fish	ng/mL	0.06	12	5.0	3.46	8.2	94	P.256	MJW	P.207	MJW
01/14/02	Se	Fish	ng/mL	0.06	12	5.0	3.06	8.1	101	P.256	MJW	P.207	MJW
01/22/02	Se	Fish	ng/mL	0.06	12	5.0	3.88	8.8	98	P.256	MJW	P.207	MJW
01/22/02	Se	Fish	ng/mL	0.06	12	5.0	5.45	10.2	95	P.256	MJW	P.207	MJW
01/22/02	Se	Fish	ng/mL	0.06	12	5.0	5.65	10.3	93	P.256	MJW	P.207	MJW
02/19/02	Se	Sediment	ng/mL	0.06	12	5.0	3.58	8.5	99	P.256	MJW	P.207	MJW

BID <sup>a</sup>	Ele.	Matrix	Units	Spk Amt <sup>b</sup>	Vol.	Effec. Conc <sup>c</sup>	Bkgd Conc	Total <sup>d</sup> Conc	% REC <sup>e</sup>	Prep SOP	Prep. Init.	ISOP	Oper. Init.
02/19/02	Se	Zooplankton	ng/mL	0.06	12	5.0	2.74	7.7	100	P.256	MJW	P.207	MJW
03/06/02	Se	Sediment	ng/mL	0.06	12	5.0	4.41	9.6	104	P.256	MJW	P.207	MJW
03/06/02	Se	Zooplankton	ng/mL	0.06	12	5.0	3.53	8.7	103	P.256	MJW	P.207	MJW
01/17/02	Hg	Fish	ng/mL	0.12	12	10.0	0.17	10.3	101	P.510e	MJW	P.198	MJW

<sup>a</sup>BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group.

<sup>b</sup>Spk Amt = the absolute µg amount of the spike added to a sample.

<sup>c</sup>Effec Conc = Spk Amt in ng divided by the volume (mL); units ng/mL.

<sup>d</sup>Total Conc = ng/mL (Se, As, Hg) of the analyte in the sample spike measured by the instrument (spike + background).

<sup>e</sup>%REC = Total Conc - Bkgd Conc divided by the Spk Amt. X 100.

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**Table 23.** Blank equivalent concentrations (BEC) of selenium and mercury for procedural blank solutions digested and analyzed as part of a sample group or “block”.

BID <sup>a</sup>	Ele.	Matrix	Soln Units	Soln	Soln 1	Soln 2	Soln 3	Dil.	Mean Conc. <sup>b</sup>	Sample Wt.	Mean BEC	BEC SD	Prep SOP	Prep Init.	ISOP	Oper. Init.
				Conc.	Conc.	Conc.	Conc.	Vol.			ng/mL or mg/g	ng/mL or mg/g				
07/30/01	Se	Water	ng/mL	0.062	0.064	0.043	100	0.056	20.0	0.0003	0.0001	P.255	MJW	P.207	MJW	
08/20/01	Se	Water	ng/mL	0.047	0.042	0.056	100	0.048	10.0	0.0005	0.0001	P.255	MJW	P.207	MJW	
10/22/01	Se	Water	ng/mL	0.028	0.021	0.034	100	0.028	20.0	0.0001	0.0000	P.255	MJW	P.207	MJW	
01/23/02	Se	Water	ng/mL	0.050	0.041	0.034	100	0.042	20.0	0.0002	0.0000	P.255	MJW	P.207	MJW	
11/05/01	Se	Fish	ng/mL	0.077	0.035	0.042	100	0.051	0.30	0.0172	0.0076	P.256	MJW	P.207	MJW	
11/05/01	Se	Fish	ng/mL	0.103	0.103	0.065	100	0.090	0.30	0.0301	0.0073	P.256	MJW	P.207	MJW	
11/14/01	Se	Fish	ng/mL	0.056	0.046	0.054	100	0.052	0.30	0.0173	0.0018	P.256	MJW	P.207	MJW	
11/14/01	Se	Fish	ng/mL	0.044	0.054	0.035	100	0.044	0.30	0.0148	0.0032	P.256	MJW	P.207	MJW	
01/14/02	Se	Fish	ng/mL	0.054	0.040	0.041	100	0.045	0.50	0.0091	0.0015	P.256	MJW	P.207	MJW	
01/22/02	Se	Fish	ng/mL	0.033	0.012	0.014	100	0.020	0.50	0.0039	0.0024	P.256	MJW	P.207	MJW	
11/26/01	Se	Sediment	ng/mL	0.094	0.027	0.019	100	0.047	0.25	0.0186	0.0164	P.256	MJW	P.207	MJW	
02/19/02	Se	Sediment	ng/mL	0.030	0.014	0.012	100	0.019	0.25	0.0076	0.0040	P.256	MJW	P.207	MJW	
03/06/02	Se	Sediment	ng/mL	0.068	0.033	0.043	100	0.048	0.25	0.0191	0.0072	P.256	MJW	P.207	MJW	
01/17/02	Hg	Fish	ng/mL	0.036	-0.006	0.016	100	0.015	0.25	0.0060	0.0083	P.510e	MJW	P.198	MJW	

<sup>a</sup>BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group.

<sup>b</sup>Mean Conc. = the mean solution concentration of the procedural blanks for a block, n = 3; units ng/mL.

<sup>c</sup>Sample Wt. or Vol = weight (g) or Vol (mL) used for BEC calculation.

**Table 24.** Blank equivalent concentrations ( $\mu\text{g/g}$ ) of elements in digestion blanks prepared and analyzed with the fish composite sample set.

Element	BEC Blk 1	BEC Blk 2	BEC Blk 3
Li	< 1	< 1	< 1
Be	< 1	< 1	< 1
Na	0.26	< 0.1	< 0.1
Mg	0.78	5.6	2.4
Al	0.77	2.1	1.3
K	< 0.1	< 0.1	< 0.1
Ca	3.1	6.6	10
Ti	0.16	0.41	< 0.1
V	< 0.1	< 0.1	< 0.1
Cr	< 1	< 1	< 1
Mn	< 0.1	< 0.1	< 0.1
Fe	12	15	13
Co	< 0.1	< 0.1	< 0.1
Ni	< 1	< 1	< 1
Cu	< 1	< 1	< 1
Zn	< 1	1.2	1
Ga	< 0.1	< 0.1	< 0.1
Ge	< 0.1	< 0.1	< 0.1
As	< 0.1	< 0.1	< 0.1
Rb	< 0.1	< 0.1	< 0.1
Sr	< 1	< 1	< 1
Y	< 1	< 1	< 1
Zr	< 1	< 1	< 1
Nb	< 1	< 1	< 1
Mo	< 0.1	< 0.1	< 0.1
Ru	< 1	< 1	< 1
Pd	< 0.1	< 0.1	< 0.1
Ag	< 0.1	< 0.1	< 0.1
Cd	< 0.1	< 0.1	< 0.1
In	< 1	< 1	< 1
Sn	0.1	0.1	< 0.1
Sb	< 0.1	< 0.1	< 0.1
Te	< 0.1	< 0.1	< 0.1
Cs	< 1	< 1	< 1
Ba	< 1	< 1	< 1
La	< 0.1	< 0.1	< 0.1

<b>Element</b>	<b>BEC</b>	<b>BEC</b>	<b>BEC</b>
	<b>Blk 1</b>	<b>Blk 2</b>	<b>Blk 3</b>
Ce	< 0.1	< 0.1	< 0.1
Pr	< 0.1	< 0.1	< 0.1
Nd	< 0.1	< 0.1	< 0.1
Sm	< 0.1	< 0.1	< 0.1
Eu	< 0.1	< 0.1	< 0.1
Gd	< 0.1	< 0.1	< 0.1
Tb	< 0.1	< 0.1	< 0.1
Dy	< 0.1	< 0.1	< 0.1
Ho	< 0.1	< 0.1	< 0.1
Er	< 0.1	< 0.1	< 0.1
Tm	< 0.1	< 0.1	< 0.1
Yb	< 0.1	< 0.1	< 0.1
Lu	< 0.1	< 0.1	< 0.1
Hf	< 0.1	< 0.1	< 0.1
Ta	< 0.1	< 0.1	< 0.1
W	< 0.1	< 0.1	< 0.1
Re	< 0.1	< 0.1	< 0.1
Os	< 0.1	< 0.1	< 0.1
Ir	< 0.1	< 0.1	< 0.1
Pt	< 0.1	< 0.1	< 0.1
Au	< 0.1	< 0.1	< 0.1
Tl	< 0.1	< 0.1	< 0.1
Pb	< 1	< 1	< 1
Bi	< 1	< 1	< 1
U	< 1	< 1	< 1

**Table 25.** Instrument detection limits for selenium and mercury.

BID	Run Date <sup>a</sup>	Ele.	Std Conc. <sup>b</sup>	Std SD 1 <sup>c</sup>	Std SD 2	Std SD 3	IDL <sup>d</sup>	Units	SOP	Oper. Init.
	11/14/00 02/14/01	Se	0.50	0.0224	0.0270	0.0287	0.078	ng/mL	E.059	MJW
	09/26/01 10/02/01	Se	0.50	0.0186	0.0140	0.0230	0.056	ng/mL	E.059	MJW
	02/05/02 02/07/02	Hg	0.25	0.0267	0.0208	0.0165	0.064	ng/mL	E.059	MJW

<sup>a</sup> Date of 3rd consecutive day analysis, following which IDL was computed.

<sup>b</sup> Concentration of low level standard used in analysis, in ppb.

<sup>c</sup> Standard deviation from analysis of standard seven consecutive times in one day, on three non-consecutive days (SD1, SD2, SD3).

<sup>d</sup> IDL = instrument detection limit, computed as three times the mean of standard deviations.

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**Table 26.** Method detection limits for selenium and mercury.

BID <sup>a</sup>	Element	Matrix	W/D/L <sup>b</sup>	Sample SD	Blk SD	MDL <sup>c</sup>	Prep SOP	Prep. Init.	ISOP	Inst. Init.	Units
07/30/01	Se	Water	L	0.0673	0.0577	0.27	P.255	MJW	P.207	MJW	ng/mL
08/20/01	Se	Water	L	0.0797	0.0710	0.32	P.255	MJW	P.207	MJW	ng/mL
10/22/01	Se	Water	L	0.0440	0.0321	0.16	P.255	MJW	P.207	MJW	ng/mL
01/23/02	Se	Water	L	0.2539	0.0409	0.77	P.255	MJW	P.207	MJW	ng/mL
11/05/01	Se	Fish	D	0.0038	0.0073	0.02	P.256	MJW	P.207	MJW	µg/g
11/14/01	Se	Fish	D	0.0028	0.0017	0.01	P.256	MJW	P.207	MJW	µg/g
01/14/02	Se	Fish	D	0.0023	0.0015	0.01	P.256	MJW	P.207	MJW	µg/g
01/22/02	Se	Fish	D	0.0015	0.0023	0.01	P.256	MJW	P.207	MJW	µg/g
11/26/01	Se	Sediment	D	0.0073	0.0164	0.05	P.256	MJW	P.207	MJW	µg/g
02/19/02	Se	Sediment	D	0.0037	0.0040	0.02	P.256	MJW	P.207	MJW	µg/g
03/06/02	Se	Sediment	D	0.0049	0.0072	0.03	P.256	MJW	P.207	MJW	µg/g
01/17/02	Hg	Fish	D	0.0117	0.0083	0.04	P.510e	MJW	P.198	MJW	µg/g

<sup>a</sup>BID = Block Initiation Date: a date assigned to each member of a group of samples that will identify the sample as a member of the group or "block."

<sup>b</sup>W/D/L = state of starting sample: wet (W), dry (D), or liquid (L).

<sup>c</sup>MDL = method limit of detection, computed as  $3 \times (\text{SD}_b^2 + \text{SD}_s^2)^{1/2}$  where  $\text{SD}_b$  = standard deviation of a blank ( $n = 3$ ) and  $\text{SD}_s$  = standard deviation of a low level sample or spiked sample ( $n = 3$ ).

**Table 27.** GPS coordinates of the three study sites.

<b>Location</b>	<b>Date</b>	<b>North</b>			<b>West</b>			<b>Time</b>	<b>Elevation</b> (m)	<b>Error</b> ( $\pm$ m)
		<b>Deg</b>	<b>Min</b>	<b>Sec</b>	<b>Deg</b>	<b>Min</b>	<b>Sec</b>			
North Pond	07/09/01	39	57	20.44	111	51	23.97	1225	1378	8.1
Lily Pond	07/09/01	39	57	11.65	111	51	22.67	1500	1384	8.1
Utah Lake	07/10/01	40	11	55.57	111	43	7.91	1158	1370	7.9

**Table 28.** Length (mm) and weight (g) data for June sucker.

Location	Date Collected	Sample Interval	Cage No.	Fish No.	Total length (mm)	Total weight (g)	Comments
					(mm)	(g)	
Hatchery	07/12/01	0		1	59	1.4	selenium and metal/Hg analysis
Hatchery	07/12/01	0		2	57	0.7	selenium and metal/Hg analysis
Hatchery	07/12/01	0		3	48	0.8	selenium and metal/Hg analysis
Hatchery	07/12/01	0		4	45	0.5	selenium and metal/Hg analysis
Hatchery	07/12/01	0		5	50	1	selenium and metal/Hg analysis
Hatchery	07/12/01	0		6	46	0.6	selenium and metal/Hg analysis
Hatchery	07/12/01	0		7	49	0.9	selenium and metal/Hg analysis
Hatchery	07/12/01	0		8	40	0.6	selenium and metal/Hg analysis
Hatchery	07/12/01	0		9	49	0.9	selenium and metal/Hg analysis
North Pond	07/26/01	0.5	G	1	53	0.9	
North Pond	07/26/01	0.5	G	2	47	0.8	
North Pond	07/26/01	0.5	G	3	42	0.6	
North Pond	07/26/01	0.5	F	1	40	0.2	
North Pond	07/26/01	0.5	F	2	54	1.3	
North Pond	07/26/01	0.5	F	3	39	0.6	
North Pond	07/26/01	0.5	H	1	51	1.2	
North Pond	07/26/01	0.5	H	2	62	1.7	
North Pond	07/26/01	0.5	H	3	55	0.7	
North Pond	07/26/01	0.5	E	1	52	1	
North Pond	07/26/01	0.5	E	2	55	1.6	
North Pond	07/26/01	0.5	E	3	52	1.2	
Lily Pond	07/26/01	0.5	C	1	48	0.6	
Lily Pond	07/26/01	0.5	C	2	52	1.3	
Lily Pond	07/26/01	0.5	C	3	45	0.7	
Lily Pond	07/26/01	0.5	C	4	56	1.3	
Lily Pond	07/26/01	0.5	B	1	44	0.9	
Lily Pond	07/26/01	0.5	B	2	60	1.4	
Lily Pond	07/26/01	0.5	B	3	53	1.1	

Location	Date Collected	Sample Interval	Cage No.	Fish No.	Total length (mm)	Total weight (g)	Comments
Lily Pond	07/26/01	0.5	D	1	50	1.2	
Lily Pond	07/26/01	0.5	D	2	49	0.7	
Lily Pond	07/26/01	0.5	D	3	54	1	
Lily Pond	07/26/01	0.5	A	1	39	0.6	
Lily Pond	07/26/01	0.5	A	2	48	0.9	
Lily Pond	07/26/01	0.5	A	3	56	1.7	
Utah Lake	07/26/01	0.5	K	1	48	1.8	
Utah Lake	07/26/01	0.5	K	2	42	0.6	
Utah Lake	07/26/01	0.5	K	3	48	1.1	
Utah Lake	07/26/01	0.5	J	1	61	1.8	
Utah Lake	07/26/01	0.5	J	2	52	0.9	
Utah Lake	07/26/01	0.5	J	3	40	0.5	
Utah Lake	07/26/01	0.5	L	1	61	2	
Utah Lake	07/26/01	0.5	L	2	50	1.3	
Utah Lake	07/26/01	0.5	L	3	53	1.1	
Utah Lake	07/26/01	0.5	I	1	47	1.1	
Utah Lake	07/26/01	0.5	I	2	51	1	
Utah Lake	07/26/01	0.5	I	3	45	0.6	
Hatchery	08/06/01			45			1 gm, no lengths taken; selenium and metal/Hg analysis
North Pond	08/09/01	1	E	1	56	1.45	lengths taken after frozen
North Pond	08/09/01	1	E	2	52	1.12	lengths taken after frozen
North Pond	08/09/01	1	F	1	72	4.22	lengths taken after frozen
North Pond	08/09/01	1	G	1	49	0.89	lengths taken after frozen
North Pond	08/09/01	1	G	2	63	1.84	lengths taken after frozen
North Pond	08/09/01	1	H	1	62	1.48	lengths taken after frozen
North Pond	08/09/01	1	H	2	59	1.69	lengths taken after frozen
Lily Pond	08/09/01	1	A	1	54	1.06	lengths taken after frozen
Lily Pond	08/09/01	1	A	2	52	0.85	lengths taken after frozen
Lily Pond	08/09/01	1	B	1	57	1.31	lengths taken after frozen
Lily Pond	08/09/01	1	B	2	57	1.18	lengths taken after frozen
Lily Pond	08/09/01	1	C	1	64	1.84	lengths taken after frozen
Lily Pond	08/09/01	1	C	2	49	1.16	lengths taken after frozen; tail broken
Lily Pond	08/09/01	1	D	1	50	0.74	lengths taken after frozen
Lily Pond	08/09/01	1	D	2	57	1.01	lengths taken after frozen
Utah Lake	08/09/01	1	I	1	77	3.86	

Location	Date Collected	Sample Interval	Cage No.	Fish No.	Total length (mm)	Total weight (g)	Comments
Utah Lake	08/09/01	1	J	1	54	1.28	
Utah Lake	08/09/01	1	J	2	51	0.96	
Utah Lake	08/09/01	1	K	1	60	1.53	
Utah Lake	08/09/01	1	L	1	68	2.4	
Lily Pond	09/05/01	2	A	1	57	1.6	parasite; anus
Lily Pond	09/05/01	2	B	1	58	1.3	parasite; anus
Lily Pond	09/05/01	2	C	1	53	1.1	
Lily Pond	09/05/01	2	D	1	70	1.5	parasite; anus
North Pond	09/05/01	2	E	1	55	1.3	
North Pond	09/05/01	2	F	1	70	2.7	
North Pond	09/05/01	2	G	1	56	1.4	
Utah Lake	09/05/01	2	I	1	62	1.9	
Utah Lake	09/05/01	2	J	1	75	3.2	
Utah Lake	09/05/01	2	K	1	68	2.4	
Utah Lake	09/05/01	2	L	1	70	2.6	
Utah Lake	10/07/01	3	J	1	84	4.8	
Utah Lake	10/07/01	3	K	1	80	4.3	
Utah Lake	10/07/01	3	K	2	78	3.7	fish taken because no fish in cage I
Utah Lake	10/07/01	3	L	1	75	3.3	
North Pond	10/08/01	3	E	1	80	5.7	growth on dorsal fin (fungus?)
North Pond	10/08/01	3	F	1	95	8.9	
North Pond	10/08/01	3	G	1	82	4.8	growth by left pectoral fin
North Pond	10/08/01	3	G	2	42	0.7	fish taken because no fish in cage H, mouth deformity
Lily Pond	10/08/01	3	A	1	62	2.2	
Lily Pond	10/08/01	3	B	1	72	3.7	
Lily Pond	10/08/01	3	C	1	58	1.7	growth on dorsal fin (fungus?)
Lily Pond	10/08/01	3	C	2	57	1.9	ectoparsite at anus
Lily Pond	10/11/01	3	A	1	55	1	metal/Hg sample
Lily Pond	10/11/01	3	B	1	65	1.9	metal/Hg sample
North Pond	10/11/01	3	G	1	94	8.3	metal/Hg sample
North Pond	10/11/01	3	G	2	56	1.3	metal/Hg sample
Utah Lake	10/11/01	3	K	1	74	3	metal/Hg sample
Utah Lake	10/11/01	3	K	2	79	3.2	metal/Hg sample

Location	Date Collected	Sample Interval	Cage No.	Fish No.	Total length (mm)	Total weight (g)	Comments
Lily Pond	11/05/01	4	A	1	63	2	raceway 10
Lily Pond	11/05/01	4	B	1	60	2.1	raceway 11
Lily Pond	11/05/01	4	C	1	62	2.2	raceway 10, lighter in color
North Pond	11/05/01	4	E	1	87	6.4	raceway 11
North Pond	11/05/01	4	F	1	83	6.4	Raceway 10, Learnae-pectoral, anal, and caudal fins
North Pond	11/05/01	4	G	1	90	8.2	Raceway 10, Learnae fungus on dorsal fin, hemorrhaging around anus
Utah Lake	11/05/01	4	J	1	91	6.6	Raceway 11
Utah Lake	11/05/01	4	K	1	107	10.4	Raceway 11
Utah Lake	11/05/01	4	L	1	92	6.4	Raceway 10
Lily Pond	12/03/01	5	B	1	64	1.8	Raceway 11
Lily Pond	12/03/01	5	B	2	58	0.7	Raceway 11
North Pond	12/03/01	5	E	1	101	11.7	Raceway 11
North Pond	12/03/01	5	E	2	86	5.7	Raceway 11
North Pond	12/03/01	5	G	1	100	10.8	Raceway 10; Learnae on dorsal, fungus too
North Pond	12/03/01	5	G	2	92	8.4	Raceway 10
Utah Lake	12/03/01	5	J	1	102	9.3	Raceway 11
Utah Lake	12/03/01	5	J	2	100	7.7	Raceway 11
Utah Lake	12/03/01	5	K	1	99	7.7	Raceway 11
Utah Lake	12/03/01	5	K	2	91	6.5	Raceway 11
Utah Lake	12/03/01	5	L	1	83	5.1	Raceway 10; truncated operculum
Utah Lake	12/03/01	5	L	2	85	5.4	Raceway 10
North Pond	12/03/01	5	E	3	90	6.1	Raceway 11
North Pond	12/03/01	5	E	4	100	10	Raceway 11:Learnae on dorsal fin
North Pond	12/03/01	5	E	5	82	4.8	Raceway 11; shortened operculum; red below eye
North Pond	12/03/01	5	E	6	86	5.7	Raceway 11; shortened operculum
North Pond	12/03/01	5	E	7	90	6.4	Raceway 11
North Pond	12/03/01	5	G	3	99	9.7	Raceway 10
North Pond	12/03/01	5	G	4	87	4.4	Raceway 10; Learnae on anal fin
North Pond	12/03/01	5	G	5	95	7.7	Raceway 10
North Pond	12/03/01	5	G	6	58	2.2	Raceway 10

<b>Location</b>	<b>Date Collected</b>	<b>Sample Interval</b>	<b>Cage No.</b>	<b>Fish No.</b>	<b>Total length</b>	<b>Total weight</b>	<b>Comments</b>
					(mm)	(g)	
Utah Lake	12/03/01	5	J	3	103	10.1	Raceway 11; split tail
Utah Lake	12/03/01	5	J	4	89	5.9	Raceway 11; shortened operculum
Utah Lake	12/03/01	5	J	5	80	4.5	Raceway 11; split tail
Utah Lake	12/03/01	5	K	3	110	12.2	Raceway 11
Utah Lake	12/03/01	5	K	4	100	8.6	Raceway 11
Utah Lake	12/03/01	5	K	5	87	5.6	Raceway 11
Utah Lake	12/03/01	5	L	3	97	7.9	Raceway 10; shortened operculum
Utah Lake	12/03/01	5	L	4	101	8.8	Raceway 10
Utah Lake	12/03/01	5	L	5	89	5.5	Raceway 10; shortened operculum

**Table 29.** Quality assurance samples for total carbon analysis of sediment.

<b>Date of Analysis</b>	<b>Total Carbon Standard (mg C/g)</b>	<b>Measured Total Carbon (mg C/g)</b>
03/28/02	125	129
03/28/02	125	124
03/28/02	250	264
03/28/02	250	256
03/28/02	500	474
03/28/02	500	503
03/28/02	1000	1024
03/28/02	1000	989
03/28/02	2000	1968
03/28/02	2000	1952
03/28/02	4000	3810
03/28/02	4000	3878

**Table 30.** Water quality collected in-situ using the Hydrolab DataSonde Water Quality Monitoring unit. Depth was measured at the same locations the water sample was taken. Temp = temperature. Cond = conductivity. Sal = salinity.

Location	Station	Date	Time	Temp (°C)	pH	Cond (ms/cm)	Sal (ppt)	Dissolved	
								Oxygen (mg/L)	Depth (cm)
Lily Pond	East	7/11/01	832	21.15	7.48	2.260	1.20	4.11	88
Lily Pond	West	7/11/01	838	21.15	7.45	2.260	1.20	3.87	86
Lily Pond	A	7/26/01	850	21.15	7.36	2.29	1.2	4.17	
Lily Pond	B	7/26/01	845	21.17	7.41	2.28	1.2	4.11	
Lily Pond	C	7/26/01	841	21.17	7.42	2.28	1.2	4.12	
Lily Pond	D	7/26/01	854	21.14	7.45	2.29	1.2	4.2	
Lily Pond	East	7/26/01	835	21.17	7.36	2.3	1.2	4.2	83
Lily Pond	West	7/26/01	849	21.17	7.38	2.28	1.2	4.13	86
Lily Pond	East	8/9/01	1255	21.98	6.91	2.274	1.2	4.24	
Lily Pond	West	8/9/01	1250	22.01	6.89	2.268	1.2	3.91	
Lily Pond	East	9/5/01	708	20.78	7.51	2.28	1.2	2.67	82
Lily Pond	West	9/5/01	718	20.81	7.55	2.29	1.2	2.92	85
Lily Pond	East	10/7/01	823	20.39	7.74	2.24	1.2	3.55	79
Lily Pond	West	10/7/01	828	20.41	7.66	2.24	1.2	3.61	86
North Pond	North	7/11/01	1142	21.78	7.47	2.160	1.20	5.01	68
North Pond	South	7/11/01	1133	21.81	7.42	2.160	1.20	5.13	78
North Pond	E	7/26/01	719	20.25	7.45	2.21	1.2	3.32	
North Pond	F	7/26/01	711	20.3	7.47	2.22	1.2	3.22	
North Pond	G	7/26/01	714	20.42	7.47	2.21	1.2	3.57	
North Pond	H	7/26/01	717	20.34	7.47	2.22	1.2	3.42	
North Pond	North	7/26/01	707	20.35	7.49	2.22	1.2	3.83	71
North Pond	South	7/26/01	705	20.64	7.53	2.23	1.2	3.55	82
North Pond	North	8/9/01	1045	20.85	6.99	2.193	1.2	4.28	
North Pond	South	8/9/01	1040	20.98	7.01	2.194	1.2	4.14	
North Pond	North	9/5/01	849	20.26	7.67	2.17	1.2	3.53	66
North Pond	South	9/5/01	840	20.42	7.66	2.17	1.2	3.69	74
North Pond	North	10/7/01	923	19.18	7.69	2.15	1.1	4.42	70
North Pond	South	10/7/01	918	19.57	7.84	2.14	1.1	4.44	78
Utah Lake	East	7/11/01	1417	26.81	8.97	1.338	0.70	12.27	60
Utah Lake	West	7/11/01	1414	27.59	8.96	1.342	0.70	12.63	58
Utah Lake	East	7/26/01	1204	21.56	8.59	1.414	0.7	6.45	51
Utah Lake	I	7/26/01	1220	21.7	8.66	1.399	0.7	6.23	
Utah Lake	J	7/26/01	1225	21.67	8.67	1.399	0.7	6.06	
Utah Lake	K	7/26/01	1228	21.68	8.67	1.397	0.7	6.11	
Utah Lake	L	7/26/01	1223	21.68	8.68	1.398	0.7	5.9	

<b>Location</b>	<b>Station</b>	<b>Date</b>	<b>Time</b>	<b>Temp</b>	<b>pH</b>	<b>Cond</b> (ms/cm)	<b>Sal</b> (ppt)	<b>Dissolved</b>	
				(°C)				<b>Oxygen</b> (mg/L)	<b>Depth</b> (cm)
Utah Lake	West	7/26/01	1214	21.61	8.64	1.407	0.7	6.22	51
Utah Lake	East	8/13/01	922	20.57	8.12	1.395	0.7	3.25	
Utah Lake	West	8/13/01	920	20.61	8.08	1.408	0.7	3.31	33
Utah Lake	East	9/5/01	1137	22.45	8.34	1.52	0.8	6.48	19
Utah Lake	West	9/5/01	1145	22.73	8.3	1.5	0.8	6.02	18
Utah Lake	North	10/7/01	1138	15.48	8.49	1.47	0.8	8.54	0.5
Utah Lake	South	10/7/01	1142	17.43	8.54	1.436	0.8	9.69	0.5

**Table 31.** Water quality data collected from grab samples. Analyses conducted at CERC within 24-hr of collection. Turb = turbidity. Temp = temperature. Cond = conductivity. Alk = alkalinity (measured as CaCO<sub>3</sub>). Hard = hardness (measured as CaCO<sub>3</sub>).

Site	Station	Date Collected	Turb (NTU)	Temp (°C)	Cond (ms/cm)	pH	Alk (mg/L)	Hard (mg/L)
Lily Pond	East	07/11/01	8	18	2.57	7.6	248	352
Lily Pond	West	07/11/01	8	18.2	2.56	7.65	246	354
Lily Pond	West	07/26/01	4.7	18.9	2.56	7.7	248	350
Lily Pond	East	07/26/01	0.4	18.2	2.61	7.66	248	352
Lily Pond	West	08/09/01	0.55	19.1	2.55	7.78	254	360
Lily Pond	East	08/09/01	0.55	17.9	2.61	7.82	252	360
Lily Pond	East	09/05/01	1.2	19.6	2.51	8	252	384
Lily Pond	East	09/05/01	0.8	21.8	2.39	8.04	252	390
Lily Pond	West	09/05/01	0.45	20.6	2.47	7.97	248	378
Lily Pond	West	10/08/01	0.3	17.3	2.66	7.94	262	370
Lily Pond	East	10/08/01	1.5	17.2	2.67	7.98	244	360
North Pond	North	07/11/01	11	18	2.57	7.71	244	346
North Pond	South	07/11/01	8	18.2	2.44	7.9	246	346
North Pond	South	07/26/01	0.5	17.8	2.52	7.79	188	344
North Pond	North	07/26/01	0.5	19.7	2.41	7.74	244	350
North Pond	North	08/09/01	0.45	18	2.52	7.82	254	358
North Pond	South	08/09/01	0.42	18	2.52	7.96	250	354
North Pond	North	09/05/01	0.7	19.3	2.40	8.11	248	374
North Pond	North	09/05/01	0.4	19.7	2.38	8.12	250	392
North Pond	North	10/08/01	3	17.7	2.52	8.16	242	354
North Pond	South	10/08/01	0.5	17	2.57	8.03	256	362
Utah Lake	East	07/11/01	77	18.9	1.47	9.18	212	340
Utah Lake	West	07/11/01	80	18.9	1.47	9.04	218	352
Utah Lake	West	07/26/01	250	18.6	1.49	8.75	360	440
Utah Lake	East	07/26/01	250	19	1.50	8.7	340	400
Utah Lake	West	08/13/01	76	19.7	1.52	8.41	260	360
Utah Lake	East	08/13/01	83	16.6	1.61	8.43	292	384
Utah Lake	West	09/05/01	65	19.7	1.64	8.5	286	448
Utah Lake	East	09/05/01	70	20.6	1.63	8.52	292	456
Utah Lake	North	10/08/01	81	17.3	1.79	8.32	264	480
Utah Lake	East	10/08/01	29	17.2	1.82	8.35	256	486
Raceway	10	11/05/01	0.95	23.3	0.67	8.22	256	286

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<b>Site</b>	<b>Station</b>	<b>Date Collected</b>	<b>Turb (NTU)</b>	<b>Temp (°C)</b>	<b>Cond (ms/cm)</b>	<b>pH</b>	<b>Alk (mg/L)</b>	<b>Hard (mg/L)</b>
Raceway	11	11/05/01	1.1	23.2	0.67	8.28	256	284
Raceway	10	12/03/01	0.76	20.2	0.71	8.29	256	286
Raceway	11	12/03/01	0.77	20.2	0.71	8.36	262	292

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**Table 32.** Quality assurance data for water quality measurements taken at CERC. Temp = temperature. Cond = conductivity. Alk = alkalinity (measured as CaCO<sub>3</sub>). Hard = hardness (measured as CaCO<sub>3</sub>).

Site	Date Collected	Turb (NTU)	Temp (°C)	Cond (ms/cm)	pH	Alk (mg/L)	Hard (mg/L)
Alk Standard (250)	07/11/01				10.66	248	
Alk Standard (250)	07/11/01				10.66	248	
Alk Standard (250)	07/12/01					240	
Alk Standard (250)	07/12/01					240	
Alk Standard (250)	08/09/01				10.71	256	
Alk Standard (250)	08/09/01					250	
Alk Standard (250)	08/13/01				10.73	260	
Alk Standard (150)	09/06/01				9.78	142	
Alk Standard (250)	10/10/01				10.57	252	
Alk Standard (200)	11/05/01					204	
Alk Standard (250)	12/03/01				10.81	252	
Cond Standard (1)	07/11/01		23.1	1.04			
Cond Standard (1)	07/12/01		21.9	0.91			
Cond Standard (1)	08/09/01		24.08	1.02			
Cond Standard (1)	08/13/01		22.8	1.03			
Cond Standard (1.137)	10/10/01		20.9	1.22			
Cond Standard (1.137)	10/10/01		21.2	1.23			
Cond Standard (1.137)	11/05/01		21.9	1.21			
Cond Standard (1.137)	12/03/01		20.5	1.26			
Cond Standard (2)	07/11/01		21.9	1.39			
Cond Standard (2)	07/11/01		23.1	1.97			
Cond Standard (2)	08/09/01		24.08	1.93			
Cond Standard (2)	09/06/01		22.9	1.97			
Hard Standard (100)	10/10/01						98
Hard Standard (100)	11/05/01						96
Hard Standard (100)	12/03/01						102
Hard Standard (200)	09/06/01						222
Hard Standard (300)	07/12/01						282
Hard Standard (300)	07/27/01						288
Hard Standard (300)	08/09/01						298
Hard Standard (300)	08/09/01						294
Hard Standard (300)	08/13/01						300

<b>Site</b>	<b>Date Collected</b>	<b>Turb (NTU)</b>	<b>Temp (°C)</b>	<b>Cond (ms/cm)</b>	<b>pH</b>	<b>Alk (mg/L)</b>	<b>Hard (mg/L)</b>
CERC Well	07/11/01	10	20.4	0.73	8.79	254	40
CERC Well	07/27/01	1.4	22.6	0.66	7.83	264	286
CERC Well	08/09/01	0.75	22.6	0.67	10.39	262	284
CERC Well	08/09/01	0.88			7.88	250	284
CERC Well	08/09/01				7.8	254	290
CERC Well	08/14/01	0.54	22.6	0.66	7.86	248	284
CERC Well	09/05/01	0.84	23.3	0.66	7.87	252	292
CERC Well	10/10/01	0.85	19.8	1.00	7.88	252	282
CERC Well	12/03/01		18.5	0.73			

**Table 33.** Chlorophyll a data from water samples. Quality assurance samples are listed at the end of the table.

Site	Station	Date collected	Chlorophyll a (mg/L)
Lily Pond	East	07/11/01	5.30
Lily Pond	West	07/11/01	2.03
Lily Pond	East	07/26/01	1.27
Lily Pond	West	07/26/01	40.6
Lily Pond	East	08/09/01	0.226
Lily Pond	West	08/09/01	0.790
Lily Pond	East	09/05/01	2.19
Lily Pond	West	09/05/01	0.199
Lily Pond	East	10/08/01	2.75
Lily Pond	West	10/08/01	2.26
North Pond	North	07/11/01	2.67
North Pond	South	07/11/01	2.30
North Pond	North	07/26/01	1.28
North Pond	South	07/26/01	0.971
North Pond	North	08/09/01	0.211
North Pond	South	08/09/01	0.203
North Pond	North	09/05/01	0.263
North Pond	South	09/05/01	0.222
North Pond	North	10/08/01	0.670
North Pond	South	10/08/01	1.02
Utah Lake	East	07/11/01	253
Utah Lake	West	07/11/01	183
Utah Lake	East	07/26/01	194
Utah Lake	West	07/26/01	84.9
Utah Lake	East	08/13/01	33.1
Utah Lake	West	08/13/01	27.1
Utah Lake	East	09/05/01	28.2
Utah Lake	West	09/05/01	35.7
Utah Lake	North	10/08/01	90.3
Utah Lake	East	10/08/01	85.8
Raceway	10	11/05/01	0.032
Raceway	10	12/03/01	0.021
Raceway	11	11/05/01	0.037
Raceway	11	12/03/01	0.025

<b>Site</b>	<b>Station</b>	<b>Date collected</b>	<b>Chlorophyll a (mg/L)</b>
Pre-filtered Blank		07/11/01	0.055
Post-filtered Blank		07/11/01	0.073
Pre-filtered Blank		07/26/01	0.055
Post-filtered Blank		07/26/01	0.097
Pre-filtered Blank		08/09/01	0.000
Post-filtered Blank		08/09/01	0.021
Pre-filtered Blank		08/13/01	0.026
Post-filtered Blank		08/13/01	0.043
Pre-filtered Blank		09/07/01	0.007
Mid-filtered blank		09/07/01	0.013
Post-filtered Blank		09/07/01	0.053
Pre-filtered Blank		10/10/01	0.059
Post-filtered Blank		10/10/01	0.033

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**Table 34.** Ammonia data (measured as total ammonia as N) from grab water samples and field blanks.

Site	Station	Date Collected	Duplicate	NH <sub>3</sub> -N (mg/L)
Lily Pond	East	07/11/01		0.01
Lily Pond	West	07/11/01		0.01
Lily Pond	East	07/26/01		0.01
Lily Pond	West	07/26/01		0.01
Lily Pond	East	08/09/01		0.02
Lily Pond	West	08/09/01		0.02
Lily Pond	East	09/05/01		0.01
Lily Pond	East	09/05/01	dup	0.02
Lily Pond	West	09/05/01		0.01
North Pond	North	07/11/01		0.02
North Pond	South	07/11/01		0.01
North Pond	North	07/26/01		0
North Pond	South	07/26/01		0.01
North Pond	North	08/09/01		0.02
North Pond	South	08/09/01		0.02
North Pond	North	09/05/01		0.02
North Pond	South	09/05/01		0.01
Utah Lake	East	07/11/01		0.03
Utah Lake	West	07/11/01		0.03
Utah Lake	East	07/26/01		0.03
Utah Lake	West	07/26/01		0.01
Utah Lake	East	08/13/01		0.02
Utah Lake	West	08/13/01		0.03
Utah Lake	East	09/05/01		0.89
Utah Lake	West	09/05/01		0.89
Pre-filter blank		07/11/01		0.02
Post-filter blank		07/11/01		0
Pre-filter blank		07/26/01		0.01
Post-filter blank		07/26/01		0.01
Pre-filter blank		08/09/01		0.02
Post-filter blank		08/09/01		0
Pre-filter blank		08/13/01		0
Post-filter blank		08/13/01		0
Pre-filter blank		09/05/01		0
Post-filter blank		09/05/01		0.02

**Table 35.** Quality assurance samples for ammonia (measured as total ammonia as N).

Site / Sample	Station	Date Collected	Date Analyzed	Nominal Concentration (mg/L)	Spike (mg/L as N)	Ammonia (mg/L as N)
Blank		07/30/01	07/30/01	0		0.01
Blank		07/30/01	07/30/01	0		0
Blank		07/30/01	07/30/01	0		0
Blank		07/30/01	07/30/01	0		0
Blank		07/30/01	07/30/01	0		0
Blank		07/30/01	07/30/01	0		0.01
Blank		07/30/01	07/30/01	0		0
Blank		07/30/01	07/30/01	0		0
Blank		07/30/01	07/30/01	0		0
Blank		09/12/01	09/12/01	0		0
Blank		09/12/01	09/12/01	0		0
Blank		09/12/01	09/12/01	0		0
Blank		09/12/01	09/12/01	0		0
Blank		09/12/01	09/12/01	0		0
Blank		09/12/01	09/12/01	0		0.01
Standard		07/30/01	07/30/01	1		1.01
Standard		07/30/01	07/30/01	1		1
Standard		07/30/01	07/30/01	1		0.97
Standard		07/30/01	07/30/01	1		0.96
Standard		07/30/01	07/30/01	1		1.01
Standard		07/30/01	07/30/01	1		1.01
Standard		07/30/01	07/30/01	10.7		11.23
Standard		07/30/01	07/30/01	10.7		11.52
Standard		09/12/01	09/12/01	1		1.07
Standard		09/12/01	09/12/01	1		1.07
Standard		09/12/01	09/12/01	1		1.07
Standard		09/12/01	09/12/01	1		1
Standard		09/12/01	09/12/01	1		1.08
Standard		09/12/01	09/12/01	1		1.06
Standard		09/12/01	09/12/01	10.7		11.53
North Pond	South	07/11/01	07/30/01	0.01	0.26	0.29
Lily Pond	East	07/11/01	07/30/01	0.01	0.26	0.29
Utah Lake	East	07/11/01	07/30/01	0.03	0.26	0.31
Distilled Water		07/26/01	07/26/01	0	0.26	0.27

**Table 36.** Average particulate carbon ( $\mu\text{g}/\text{L}$ ) measured in grab water samples. POC = particulate organic carbon.

Site	Station	Date Collected	Ave POC (mg/L)
Lily Pond	East	07/11/01	128
Lily Pond	West	07/11/01	57
Lily Pond	East	07/26/01	218
Lily Pond	West	07/26/01	4560
Lily Pond	East	08/09/01	128
Lily Pond	West	08/09/01	174
Lily Pond	East	09/06/01	608
Lily Pond	East	09/06/01	348
Lily Pond	West	09/06/01	142
Lily Pond	East	10/08/01	367
Lily Pond	West	10/08/01	204
North Pond	North	07/11/01	169
North Pond	South	07/11/01	150
North Pond	North	07/26/01	116
North Pond	South	07/26/01	167
North Pond	North	08/09/01	36
North Pond	South	08/09/01	106
North Pond	North	09/06/01	228
North Pond	South	09/06/01	350
North Pond	North	10/08/01	95
North Pond	South	10/08/01	91
Utah Lake	East	07/11/01	19577
Utah Lake	West	07/11/01	19569
Utah Lake	East	07/26/01	39740
Utah Lake	West	07/26/01	53450
Utah Lake	East	08/13/01	30349
Utah Lake	West	08/13/01	27886
Utah Lake	East	09/06/01	12724
Utah Lake	West	09/06/01	13059
Utah Lake	North	10/08/01	16612
Utah Lake	East	10/08/01	6653
CERC Raceway	10	11/05/01	0
CERC Raceway	11	11/05/01	0
CERC Raceway	10	12/03/01	0
CERC Raceway	11	12/03/01	0

**Table 37.** Quality assurance for particulate organic carbon analysis.

Analysis Date	Position in Analysis "Run"	Standard (mg C)	Measured (mg C)	%Recovery	Mean/Date	Std. Dev./Date
01/23/02	Pre-samples	125	124.81	99.85	127	7.49
01/23/02	Mid-samples	125	125.33	100.26		
01/23/02	Post-samples	125	146.3	117.04		
01/24/02	Pre-samples	125	123.24	98.59		
01/25/02	Pre-samples	125	121.67	97.34		
01/25/02	Mid-samples	125	133.84	107.07		
01/25/02	Post-samples	125	124.42	99.54		
01/29/02	Pre-samples	125	122.95	98.36		
01/29/02	Mid-samples	125	125.75	100.60		
01/29/02	Post-samples	125	123.62	98.90		
01/23/02	Pre-samples	250	247.39	98.96	249	6.70
01/23/02	Mid-samples	250	254.98	101.99		
01/23/02	Post-samples	250	264.56	105.82		
01/24/02	Pre-samples	250	249.65	99.86		
01/25/02	Pre-samples	250	241.53	96.61		
01/25/02	Post-samples	250	246.57	98.63		
01/29/02	Pre-samples	250	245.52	98.21		
01/29/02	Mid-samples	250	246.8	98.72		
01/29/02	Post-samples	250	247.8	99.12		
01/23/02	Pre-samples	500	493.84	98.77	499	8.91
01/23/02	Mid-samples	500	496.8	99.36		
01/23/02	Post-samples	500	508.69	101.74		
01/24/02	Pre-samples	500	501.95	100.39		
01/25/02	Pre-samples	500	516.9	103.38		
01/25/02	Mid-samples	500	495.53	99.11		
01/25/02	Post-samples	500	484.71	96.94		
01/29/02	Pre-samples	500	501.84	100.37		
01/29/02	Mid-samples	500	493.5	98.70		
01/29/02	Post-samples	500	496.78	99.36		
01/23/02	Pre-samples	1000	996.05	99.61	996	13.06
01/23/02	Mid-samples	1000	994.42	99.44		
01/24/02	Pre-samples	1000	1022.88	102.29		
01/25/02	Pre-samples	1000	986.26	98.63		
01/25/02	Mid-samples	1000	1001.64	100.16		
01/25/02	Post-samples	1000	997.95	99.80		
01/29/02	Pre-samples	1000	990.65	99.07		
01/29/02	Post-samples	1000	978.39	97.84		

<b>Analysis Date</b>	<b>Position in Analysis “Run”</b>	<b>Standard (mg C)</b>	<b>Measured (mg C)</b>	<b>%Recovery</b>	<b>Mean/Date</b>	<b>Std. Dev./ Date</b>
01/25/02	Pre-samples	2000	1953.29	97.66	1946	7.99
01/25/02	Mid-samples	2000	1955.42	97.77		
01/25/02	Post-samples	2000	1945.95	97.30		
01/29/02	Pre-samples	2000	1940.81	97.04		
01/29/02	Mid-samples	2000	1945.84	97.29		
01/29/02	Post-samples	2000	1933.72	96.69		
01/29/02	Post-samples	3000	2871.72	95.72		

**Table 38.** Temperature data collected using temperature monitoring.

Date	Time (hr:min)	North Pond Temperature (°C)	Lily Pond Temperature (°C)	Utah Lake Temperature (°C)
7/12/2001	13:00			18.95
7/12/2001	14:00			20.46
7/12/2001	15:00		22.28	21.38
7/12/2001	16:00		22.28	22.62
7/12/2001	17:00	21.87	22.59	20.46
7/12/2001	18:00	21.87	22.28	19.86
7/12/2001	19:00	21.56	21.97	19.55
7/12/2001	20:00	21.25	21.97	18.95
7/12/2001	21:00	20.94	21.67	21.07
7/12/2001	22:00	20.63	21.36	19.25
7/12/2001	23:00	20.33	21.36	19.55
7/13/2001	0:00	20.03	21.05	19.25
7/13/2001	1:00	20.03	21.05	19.25
7/13/2001	2:00	20.03	21.05	18.95
7/13/2001	3:00	20.03	21.05	18.35
7/13/2001	4:00	19.73	20.74	18.35
7/13/2001	5:00	19.73	20.74	18.06
7/13/2001	6:00	19.43	20.74	18.65
7/13/2001	7:00	19.43	20.74	17.76
7/13/2001	8:00	19.43	20.74	18.35
7/13/2001	9:00	19.43	21.05	18.35
7/13/2001	10:00	19.73	21.36	18.95
7/13/2001	11:00	20.33	21.36	18.95
7/13/2001	12:00	20.94	21.97	19.86
7/13/2001	13:00	21.25	21.97	20.16
7/13/2001	14:00	21.56	22.28	21.38
7/13/2001	15:00	21.56	21.97	22.62
7/13/2001	16:00	21.56	21.97	22.93
7/13/2001	17:00	21.56	21.67	23.24
7/13/2001	18:00	21.56	21.36	22.62
7/13/2001	19:00	21.56	21.67	21.99
7/13/2001	20:00	20.94	21.36	21.68
7/13/2001	21:00	20.63	21.36	21.07
7/13/2001	22:00	20.63	21.36	20.16
7/13/2001	23:00	20.03	21.05	19.55
7/14/2001	0:00	20.03	21.05	18.95
7/14/2001	1:00	20.03	21.05	18.35
7/14/2001	2:00	20.03	21.05	17.76
7/14/2001	3:00	20.03	21.05	17.46

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/14/2001	4:00	19.73	21.05	17.16
7/14/2001	5:00	19.73	20.74	16.86
7/14/2001	6:00	19.73	20.74	16.27
7/14/2001	7:00	19.73	20.74	16.27
7/14/2001	8:00	19.73	20.74	16.27
7/14/2001	9:00	19.73	21.05	15.98
7/14/2001	10:00	19.73	21.36	16.27
7/14/2001	11:00	20.33	21.36	16.86
7/14/2001	12:00	20.63	21.67	17.76
7/14/2001	13:00	20.63	21.36	18.06
7/14/2001	14:00	20.33	21.05	18.35
7/14/2001	15:00	20.33	21.36	18.95
7/14/2001	16:00	20.63	21.67	19.25
7/14/2001	17:00	21.25	21.67	19.55
7/14/2001	18:00	20.94	21.36	19.86
7/14/2001	19:00	20.33	21.05	19.55
7/14/2001	20:00	20.33	21.05	18.95
7/14/2001	21:00	20.03	21.05	18.06
7/14/2001	22:00	20.03	21.05	17.46
7/14/2001	23:00	19.73	20.74	16.86
7/15/2001	0:00	19.73	20.74	16.27
7/15/2001	1:00	19.43	20.74	15.98
7/15/2001	2:00	19.43	20.74	15.69
7/15/2001	3:00	19.13	20.74	15.69
7/15/2001	4:00	18.83	20.44	15.11
7/15/2001	5:00	18.83	20.44	14.81
7/15/2001	6:00	18.83	20.74	14.52
7/15/2001	7:00	18.83	20.44	14.52
7/15/2001	8:00	18.83	20.44	14.23
7/15/2001	9:00	18.83	20.74	14.52
7/15/2001	10:00	19.13	20.74	14.81
7/15/2001	11:00	19.43	21.05	15.69
7/15/2001	12:00	20.03	21.67	16.27
7/15/2001	13:00	20.33	21.97	17.16
7/15/2001	14:00	20.63	21.36	19.25
7/15/2001	15:00	20.63	21.36	18.65
7/15/2001	16:00	20.63	21.67	19.25
7/15/2001	17:00	20.94	21.67	19.25
7/15/2001	18:00	21.25	21.67	19.86
7/15/2001	19:00	21.25	21.36	20.16
7/15/2001	20:00	20.94	21.36	19.55
7/15/2001	21:00	20.63	21.05	19.25

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/15/2001	22:00	20.03	20.74	18.65
7/15/2001	23:00	19.73	20.74	18.06
7/16/2001	0:00	19.43	20.74	17.76
7/16/2001	1:00	18.83	20.44	16.86
7/16/2001	2:00	18.53	20.44	16.57
7/16/2001	3:00	18.53	20.44	16.27
7/16/2001	4:00	18.23	20.44	15.69
7/16/2001	5:00	17.94	20.14	15.11
7/16/2001	6:00	17.94	20.14	14.52
7/16/2001	7:00	17.94	20.14	13.65
7/16/2001	8:00	17.94	20.44	13.65
7/16/2001	9:00	17.94	20.44	13.65
7/16/2001	10:00	18.53	20.74	14.23
7/16/2001	11:00	18.83	20.74	15.11
7/16/2001	12:00	19.43	21.36	16.27
7/16/2001	13:00	19.73	21.67	16.57
7/16/2001	14:00	20.33	21.67	17.76
7/16/2001	15:00	20.94	21.67	18.35
7/16/2001	16:00	21.25	21.67	19.25
7/16/2001	17:00	21.56	21.67	19.55
7/16/2001	18:00	21.56	21.67	19.86
7/16/2001	19:00	21.56	21.36	19.25
7/16/2001	20:00	21.25	21.05	18.95
7/16/2001	21:00	20.63	21.05	18.35
7/16/2001	22:00	20.33	20.74	18.06
7/16/2001	23:00	19.73	20.74	17.76
7/17/2001	0:00	19.43	20.74	17.76
7/17/2001	1:00	19.13	20.44	16.86
7/17/2001	2:00	18.83	20.44	16.27
7/17/2001	3:00	18.53	20.44	15.69
7/17/2001	4:00	18.23	20.44	15.39
7/17/2001	5:00	18.23	20.44	14.81
7/17/2001	6:00	18.23	20.44	14.23
7/17/2001	7:00	18.23	20.44	13.65
7/17/2001	8:00	18.23	20.44	13.36
7/17/2001	9:00	18.23	20.44	13.07
7/17/2001	10:00	18.53	20.74	13.94
7/17/2001	11:00	18.83	20.74	14.52
7/17/2001	12:00	19.43	21.36	15.98
7/17/2001	13:00	19.73	21.67	16.86
7/17/2001	14:00	20.33	21.67	18.06
7/17/2001	15:00	20.94	21.67	18.65

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/17/2001	16:00	21.25	21.67	18.95
7/17/2001	17:00	21.56	21.67	19.25
7/17/2001	18:00	21.87	21.67	19.55
7/17/2001	19:00	21.56	21.36	19.25
7/17/2001	20:00	21.25	21.05	19.25
7/17/2001	21:00	20.63	21.05	18.65
7/17/2001	22:00	20.33	21.05	18.06
7/17/2001	23:00	20.03	20.74	17.76
7/18/2001	0:00	19.43	20.74	17.16
7/18/2001	1:00	19.13	20.44	16.86
7/18/2001	2:00	18.83	20.44	16.57
7/18/2001	3:00	18.53	20.44	16.27
7/18/2001	4:00	18.23	20.44	15.98
7/18/2001	5:00	18.23	20.44	15.69
7/18/2001	6:00	17.94	20.14	15.39
7/18/2001	7:00	17.94	20.14	15.11
7/18/2001	8:00	17.94	20.44	14.81
7/18/2001	9:00	17.94	20.44	15.11
7/18/2001	10:00	18.23	20.74	16.27
7/18/2001	11:00	18.83	21.05	17.76
7/18/2001	12:00	19.73	21.36	16.27
7/18/2001	13:00	19.73	21.67	16.57
7/18/2001	14:00	20.33	21.67	19.25
7/18/2001	15:00	20.94	21.67	20.16
7/18/2001	16:00	21.56	21.67	20.77
7/18/2001	17:00	21.87	21.67	21.07
7/18/2001	18:00	21.87	21.67	21.68
7/18/2001	19:00	21.87	21.67	21.68
7/18/2001	20:00	21.25	21.36	21.38
7/18/2001	21:00	20.94	21.36	20.77
7/18/2001	22:00	20.33	21.05	20.16
7/18/2001	23:00	20.33	21.05	19.86
7/19/2001	0:00	20.03	20.74	19.55
7/19/2001	1:00	19.73	20.74	18.95
7/19/2001	2:00	19.43	20.74	18.35
7/19/2001	3:00	19.13	20.74	17.76
7/19/2001	4:00	19.13	20.74	17.46
7/19/2001	5:00	18.83	20.74	16.86
7/19/2001	6:00	18.83	20.44	16.27
7/19/2001	7:00	18.83	20.44	15.39
7/19/2001	8:00	18.83	20.44	14.81
7/19/2001	9:00	18.83	20.74	15.11

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/19/2001	10:00	18.83	21.05	15.39
7/19/2001	11:00	19.43	21.05	17.46
7/19/2001	12:00	20.03	21.67	16.86
7/19/2001	13:00	20.03	21.97	18.06
7/19/2001	14:00	20.94	21.67	22.93
7/19/2001	15:00	21.56	21.97	20.77
7/19/2001	16:00	21.87	21.97	18.35
7/19/2001	17:00	22.18	21.97	21.99
7/19/2001	18:00	22.18	21.67	22.31
7/19/2001	19:00	21.87	21.67	22.62
7/19/2001	20:00	21.56	21.36	22.31
7/19/2001	21:00	20.94	21.36	21.38
7/19/2001	22:00	20.63	21.05	21.07
7/19/2001	23:00	20.63	21.05	20.46
7/20/2001	0:00	20.33	20.74	19.86
7/20/2001	1:00	19.73	20.74	18.95
7/20/2001	2:00	19.43	20.74	18.06
7/20/2001	3:00	19.43	20.74	17.46
7/20/2001	4:00	19.13	20.44	16.57
7/20/2001	5:00	18.83	20.74	16.57
7/20/2001	6:00	18.83	20.74	15.98
7/20/2001	7:00	18.83	20.44	15.11
7/20/2001	8:00	18.83	20.44	15.11
7/20/2001	9:00	18.83	20.74	15.11
7/20/2001	10:00	19.13	21.05	15.39
7/20/2001	11:00	19.43	21.05	16.27
7/20/2001	12:00	20.03	21.67	17.46
7/20/2001	13:00	20.63	21.97	18.35
7/20/2001	14:00	21.25	21.97	19.25
7/20/2001	15:00	21.56	21.97	20.46
7/20/2001	16:00	22.18	21.97	20.77
7/20/2001	17:00	22.18	21.97	21.38
7/20/2001	18:00	22.18	21.97	21.99
7/20/2001	19:00	21.87	21.67	21.99
7/20/2001	20:00	21.56	21.36	21.07
7/20/2001	21:00	20.94	21.36	20.46
7/20/2001	22:00	20.63	21.05	20.16
7/20/2001	23:00	20.63	21.05	19.86
7/21/2001	0:00	20.03	20.74	19.55
7/21/2001	1:00	19.73	20.74	18.95
7/21/2001	2:00	19.43	20.74	18.06
7/21/2001	3:00	19.13	20.74	17.76

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/21/2001	4:00	19.13	20.44	16.86
7/21/2001	5:00	18.83	20.74	16.27
7/21/2001	6:00	18.83	20.44	15.98
7/21/2001	7:00	18.83	20.44	15.11
7/21/2001	8:00	18.53	20.44	14.81
7/21/2001	9:00	18.53	20.44	15.11
7/21/2001	10:00	18.83	21.05	15.39
7/21/2001	11:00	19.13	21.05	16.57
7/21/2001	12:00	19.73	21.67	18.06
7/21/2001	13:00	20.33	21.97	18.65
7/21/2001	14:00	20.94	21.97	18.35
7/21/2001	15:00	21.56	21.97	18.95
7/21/2001	16:00	21.87	21.97	20.77
7/21/2001	17:00	22.18	21.97	21.38
7/21/2001	18:00	22.18	21.97	21.38
7/21/2001	19:00	21.87	21.67	22.62
7/21/2001	20:00	21.25	21.36	21.07
7/21/2001	21:00	20.94	21.36	20.46
7/21/2001	22:00	20.63	21.05	19.86
7/21/2001	23:00	20.63	21.05	19.86
7/22/2001	0:00	20.03	20.74	18.95
7/22/2001	1:00	19.73	20.74	18.65
7/22/2001	2:00	19.43	20.74	18.06
7/22/2001	3:00	19.13	20.44	17.46
7/22/2001	4:00	18.83	20.44	17.16
7/22/2001	5:00	18.83	20.44	16.57
7/22/2001	6:00	18.53	20.44	15.98
7/22/2001	7:00	18.53	20.44	15.69
7/22/2001	8:00	18.53	20.44	15.39
7/22/2001	9:00	18.53	20.74	15.69
7/22/2001	10:00	18.83	21.05	15.98
7/22/2001	11:00	19.13	21.05	16.27
7/22/2001	12:00	19.73	21.67	16.57
7/22/2001	13:00	20.33	21.97	16.86
7/22/2001	14:00	20.94	21.97	18.65
7/22/2001	15:00	21.56	21.97	20.16
7/22/2001	16:00	21.87	21.97	21.38
7/22/2001	17:00	21.87	21.97	20.77
7/22/2001	18:00	21.87	21.97	23.24
7/22/2001	19:00	21.87	21.67	23.24
7/22/2001	20:00	21.87	21.67	21.68
7/22/2001	21:00	21.25	21.36	22.93

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/22/2001	22:00	20.63	21.36	21.68
7/22/2001	23:00	20.33	21.05	21.07
7/23/2001	0:00	20.33	21.05	20.46
7/23/2001	1:00	20.03	21.05	19.86
7/23/2001	2:00	20.03	20.74	18.95
7/23/2001	3:00	19.73	20.74	18.06
7/23/2001	4:00	19.43	20.74	17.46
7/23/2001	5:00	19.43	20.44	17.16
7/23/2001	6:00	19.13	20.44	16.27
7/23/2001	7:00	19.13	20.44	15.69
7/23/2001	8:00	18.83	20.44	15.39
7/23/2001	9:00	18.83	20.74	15.69
7/23/2001	10:00	19.13	21.05	16.27
7/23/2001	11:00	19.73	21.36	17.76
7/23/2001	12:00	20.03	21.67	17.76
7/23/2001	13:00	20.63	21.67	18.35
7/23/2001	14:00	21.25	21.97	20.16
7/23/2001	15:00	21.56	21.97	20.77
7/23/2001	16:00	21.56	21.97	21.99
7/23/2001	17:00	21.56	22.28	22.31
7/23/2001	18:00	21.56	21.97	21.38
7/23/2001	19:00	21.25	21.97	22.31
7/23/2001	20:00	20.94	21.67	21.99
7/23/2001	21:00	20.63	21.36	21.38
7/23/2001	22:00	20.33	21.05	21.07
7/23/2001	23:00	20.33	21.05	20.16
7/24/2001	0:00	20.03	21.05	19.25
7/24/2001	1:00	20.03	20.74	18.95
7/24/2001	2:00	19.73	20.74	18.65
7/24/2001	3:00	19.73	20.74	18.06
7/24/2001	4:00	19.43	20.74	17.76
7/24/2001	5:00	19.43	20.74	17.46
7/24/2001	6:00	19.13	20.44	17.16
7/24/2001	7:00	19.13	20.44	16.57
7/24/2001	8:00	19.13	20.44	16.57
7/24/2001	9:00	18.83	20.74	16.27
7/24/2001	10:00	19.13	21.05	16.57
7/24/2001	11:00	19.73	21.36	16.86
7/24/2001	12:00	20.03	21.97	16.86
7/24/2001	13:00	20.63	22.28	17.76
7/24/2001	14:00	21.25	21.97	18.35
7/24/2001	15:00	21.56	22.28	20.77

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/24/2001	16:00	21.87	22.28	22.93
7/24/2001	17:00	21.87	22.28	23.24
7/24/2001	18:00	21.87	22.28	25.16
7/24/2001	19:00	21.56	21.97	26.13
7/24/2001	20:00	21.25	21.67	25.81
7/24/2001	21:00	20.63	21.67	25.16
7/24/2001	22:00	20.63	21.36	24.19
7/24/2001	23:00	20.33	21.05	23.56
7/25/2001	0:00	20.33	21.05	22.62
7/25/2001	1:00	20.03	21.05	21.38
7/25/2001	2:00	20.03	20.74	20.46
7/25/2001	3:00	19.73	20.74	20.16
7/25/2001	4:00	19.73	20.74	19.55
7/25/2001	5:00	19.43	20.74	18.95
7/25/2001	6:00	19.13	20.74	18.35
7/25/2001	7:00	19.13	20.44	17.76
7/25/2001	8:00	19.13	20.74	17.16
7/25/2001	9:00	19.13	20.74	17.76
7/25/2001	10:00	19.13	21.05	18.06
7/25/2001	11:00	19.73	21.36	18.35
7/25/2001	12:00	20.03	21.67	18.35
7/25/2001	13:00	20.63	21.67	19.86
7/25/2001	14:00	20.94	21.67	20.77
7/25/2001	15:00	20.94	21.67	21.99
7/25/2001	16:00	20.94	21.67	22.62
7/25/2001	17:00	21.25	21.67	22.93
7/25/2001	18:00	21.25	21.36	23.24
7/25/2001	19:00	21.25	21.36	22.93
7/25/2001	20:00	20.94	21.36	22.93
7/25/2001	21:00	20.63	21.05	22.62
7/25/2001	22:00	20.33	21.05	21.99
7/25/2001	23:00	20.03	21.05	21.38
7/26/2001	0:00	20.03	20.74	21.38
7/26/2001	1:00	19.73	20.74	20.77
7/26/2001	2:00	19.43	20.74	20.77
7/26/2001	3:00	19.43	20.74	20.16
7/26/2001	4:00	19.43	20.74	19.25
7/26/2001	5:00	19.13	20.74	18.95
7/26/2001	6:00	19.13	20.74	18.65
7/26/2001	7:00	19.13	20.74	17.76
7/26/2001	8:00	19.13	20.74	17.46
7/26/2001	9:00	19.43	21.05	17.46

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/26/2001	10:00	19.43	20.74	17.46
7/26/2001	11:00	19.43	21.05	17.46
7/26/2001	12:00	19.43	21.05	18.35
7/26/2001	13:00	19.73	21.36	18.65
7/26/2001	14:00	20.33	21.36	19.55
7/26/2001	15:00	20.63	21.67	19.86
7/26/2001	16:00	20.94	21.67	20.46
7/26/2001	17:00	21.25	21.36	20.46
7/26/2001	18:00	21.25	21.67	20.77
7/26/2001	19:00	21.25	21.36	21.07
7/26/2001	20:00	20.94	21.36	21.38
7/26/2001	21:00	20.94	21.05	21.07
7/26/2001	22:00	20.33	21.05	20.46
7/26/2001	23:00	20.03	21.05	20.16
7/27/2001	0:00	19.73	20.74	19.25
7/27/2001	1:00	19.73	20.74	18.95
7/27/2001	2:00	19.43	20.74	18.06
7/27/2001	3:00	19.43	20.74	17.76
7/27/2001	4:00	19.43	20.74	16.86
7/27/2001	5:00	19.13	20.74	16.57
7/27/2001	6:00	19.13	20.74	15.98
7/27/2001	7:00	19.13	20.44	15.39
7/27/2001	8:00	18.83	20.44	15.11
7/27/2001	9:00	18.83	20.74	15.11
7/27/2001	10:00	18.83	21.05	15.39
7/27/2001	11:00	19.73	21.05	18.06
7/27/2001	12:00	20.33	21.36	18.35
7/27/2001	13:00	20.63	21.67	17.76
7/27/2001	14:00	21.56	21.97	20.77
7/27/2001	15:00	21.56	21.97	20.46
7/27/2001	16:00	21.56	21.97	24.52
7/27/2001	17:00	21.56	22.28	24.52
7/27/2001	18:00	21.25	21.97	24.84
7/27/2001	19:00	20.94	21.67	24.52
7/27/2001	20:00	20.63	21.67	24.84
7/27/2001	21:00	20.33	21.36	23.88
7/27/2001	22:00	20.33	21.36	23.56
7/27/2001	23:00	20.03	21.05	22.93
7/28/2001	0:00	20.03	21.05	22.31
7/28/2001	1:00	20.03	21.05	21.68
7/28/2001	2:00	19.73	20.74	20.77
7/28/2001	3:00	19.73	20.74	19.86

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/28/2001	4:00	19.43	20.74	19.55
7/28/2001	5:00	19.43	20.74	18.65
7/28/2001	6:00	19.43	20.74	18.35
7/28/2001	7:00	19.13	20.74	17.76
7/28/2001	8:00	19.13	20.74	17.16
7/28/2001	9:00	19.13	20.74	17.46
7/28/2001	10:00	19.43	21.05	17.46
7/28/2001	11:00	19.73	21.05	17.46
7/28/2001	12:00	20.03	21.67	19.25
7/28/2001	13:00	20.63	21.67	20.16
7/28/2001	14:00	21.25	21.67	20.77
7/28/2001	15:00	21.56	21.97	21.38
7/28/2001	16:00	21.87	21.67	23.88
7/28/2001	17:00	21.56	21.67	24.52
7/28/2001	18:00	21.56	21.67	24.19
7/28/2001	19:00	21.56	21.67	23.56
7/28/2001	20:00	21.56	21.36	23.56
7/28/2001	21:00	20.94	21.36	22.93
7/28/2001	22:00	20.63	21.05	22.62
7/28/2001	23:00	20.33	21.05	21.99
7/29/2001	0:00	20.03	21.05	21.68
7/29/2001	1:00	19.73	20.74	21.07
7/29/2001	2:00	19.43	20.74	20.46
7/29/2001	3:00	19.43	20.74	20.16
7/29/2001	4:00	19.13	20.74	19.55
7/29/2001	5:00	19.13	20.74	19.25
7/29/2001	6:00	19.13	20.74	18.65
7/29/2001	7:00	19.13	20.74	18.35
7/29/2001	8:00	19.13	20.74	18.06
7/29/2001	9:00	19.13	20.74	18.06
7/29/2001	10:00	19.13	21.05	18.35
7/29/2001	11:00	20.03	21.36	18.65
7/29/2001	12:00	20.33	21.67	19.25
7/29/2001	13:00	20.94	21.67	19.86
7/29/2001	14:00	21.56	21.97	20.77
7/29/2001	15:00	21.87	21.97	21.38
7/29/2001	16:00	21.87	22.28	23.56
7/29/2001	17:00	21.87	21.97	23.88
7/29/2001	18:00	22.49	21.97	24.52
7/29/2001	19:00	21.87	21.67	24.84
7/29/2001	20:00	21.56	21.36	23.88
7/29/2001	21:00	21.25	21.36	23.24

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/29/2001	22:00	20.94	21.05	22.62
7/29/2001	23:00	20.33	21.05	21.99
7/30/2001	0:00	20.03	20.74	21.07
7/30/2001	1:00	19.43	20.74	20.46
7/30/2001	2:00	19.13	20.74	20.16
7/30/2001	3:00	19.13	20.44	19.25
7/30/2001	4:00	18.83	20.44	18.95
7/30/2001	5:00	18.83	20.44	18.35
7/30/2001	6:00	18.53	20.44	18.35
7/30/2001	7:00	18.53	20.44	17.76
7/30/2001	8:00	18.53	20.44	17.46
7/30/2001	9:00	18.53	20.44	17.76
7/30/2001	10:00	18.83	21.05	18.35
7/30/2001	11:00	19.43	21.05	19.25
7/30/2001	12:00	19.73	21.36	20.16
7/30/2001	13:00	20.33	21.67	21.07
7/30/2001	14:00	21.25	21.97	21.99
7/30/2001	15:00	21.87	21.97	23.24
7/30/2001	16:00	22.18	21.97	24.19
7/30/2001	17:00	22.49	21.97	24.19
7/30/2001	18:00	22.18	21.67	23.24
7/30/2001	19:00	22.18	21.67	22.93
7/30/2001	20:00	21.56	21.36	22.62
7/30/2001	21:00	21.25	21.05	21.99
7/30/2001	22:00	20.63	21.05	21.38
7/30/2001	23:00	20.33	21.05	20.77
7/31/2001	0:00	20.03	21.05	19.86
7/31/2001	1:00	20.03	21.05	19.25
7/31/2001	2:00	19.73	20.74	18.35
7/31/2001	3:00	19.73	20.74	17.46
7/31/2001	4:00	19.43	20.74	16.86
7/31/2001	5:00	19.43	20.74	16.27
7/31/2001	6:00	19.43	20.74	16.27
7/31/2001	7:00	19.43	20.74	15.69
7/31/2001	8:00	19.13	20.74	15.69
7/31/2001	9:00	19.13	20.74	15.11
7/31/2001	10:00	19.43	21.05	15.69
7/31/2001	11:00	20.03	21.36	15.98
7/31/2001	12:00	20.33	21.36	16.86
7/31/2001	13:00	20.63	21.67	18.95
7/31/2001	14:00	21.25	21.97	18.65
7/31/2001	15:00	21.56	22.28	22.62

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
7/31/2001	16:00	21.56	22.28	21.38
7/31/2001	17:00	21.87	22.28	23.56
7/31/2001	18:00	21.56	21.97	22.31
7/31/2001	19:00	21.25	21.67	22.93
7/31/2001	20:00	20.94	21.67	20.46
7/31/2001	21:00	20.63	21.36	19.86
7/31/2001	22:00	20.33	21.05	19.55
7/31/2001	23:00	20.03	21.05	19.25
8/1/2001	0:00	20.03	21.05	18.95
8/1/2001	1:00	20.03	20.74	18.35
8/1/2001	2:00	19.73	20.74	18.06
8/1/2001	3:00	19.73	20.74	17.46
8/1/2001	4:00	19.43	20.74	17.16
8/1/2001	5:00	19.43	20.74	16.86
8/1/2001	6:00	19.13	20.74	16.57
8/1/2001	7:00	19.13	20.44	15.98
8/1/2001	8:00	19.13	20.44	15.39
8/1/2001	9:00	19.13	20.74	15.39
8/1/2001	10:00	19.13	21.05	16.27
8/1/2001	11:00	20.03	21.36	17.76
8/1/2001	12:00	20.33	21.36	17.76
8/1/2001	13:00	20.63	21.67	19.25
8/1/2001	14:00	21.56	21.97	20.46
8/1/2001	15:00	21.56	21.97	22.31
8/1/2001	16:00	21.87	22.28	22.62
8/1/2001	17:00	21.87	22.28	21.99
8/1/2001	18:00	21.87	21.97	24.52
8/1/2001	19:00	21.87	21.97	23.24
8/1/2001	20:00	21.25	21.67	23.56
8/1/2001	21:00	20.94	21.67	23.56
8/1/2001	22:00	20.63	21.36	22.93
8/1/2001	23:00	20.33	21.36	21.99
8/2/2001	0:00	20.03	21.05	20.77
8/2/2001	1:00	20.03	21.05	20.46
8/2/2001	2:00	20.03	20.74	19.86
8/2/2001	3:00	19.73	20.74	19.25
8/2/2001	4:00	19.73	20.74	18.95
8/2/2001	5:00	19.43	20.74	18.65
8/2/2001	6:00	19.43	20.74	18.06
8/2/2001	7:00	19.43	20.74	17.46
8/2/2001	8:00	19.43	20.74	17.46
8/2/2001	9:00	19.43	20.74	17.46

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/2/2001	10:00	19.43	21.05	17.76
8/2/2001	11:00	20.03	21.36	18.65
8/2/2001	12:00	20.63	21.67	19.86
8/2/2001	13:00	20.94	21.67	21.68
8/2/2001	14:00	21.25	21.97	21.99
8/2/2001	15:00	21.56	22.28	24.19
8/2/2001	16:00	21.56	21.97	26.46
8/2/2001	17:00	20.94	21.97	27.12
8/2/2001	18:00	20.94	21.97	26.46
8/2/2001	19:00	20.94	21.67	26.46
8/2/2001	20:00	20.63	21.36	25.48
8/2/2001	21:00	20.33	21.36	24.52
8/2/2001	22:00	20.33	21.36	23.56
8/2/2001	23:00	20.03	21.05	22.62
8/3/2001	0:00	20.03	21.05	21.99
8/3/2001	1:00	20.03	21.05	21.07
8/3/2001	2:00	20.03	21.05	20.46
8/3/2001	3:00	20.03	21.05	19.25
8/3/2001	4:00	19.73	20.74	18.95
8/3/2001	5:00	19.73	20.74	18.35
8/3/2001	6:00	19.43	20.74	18.06
8/3/2001	7:00	19.43	20.74	17.46
8/3/2001	8:00	19.43	20.74	17.46
8/3/2001	9:00	19.43	21.05	18.06
8/3/2001	10:00	19.73	21.05	18.35
8/3/2001	11:00	20.03	21.36	18.95
8/3/2001	12:00	20.33	21.36	19.55
8/3/2001	13:00	20.63	21.36	20.16
8/3/2001	14:00	20.63	21.36	21.38
8/3/2001	15:00	20.63	21.67	20.77
8/3/2001	16:00	20.63	21.36	21.68
8/3/2001	17:00	20.63	21.36	21.99
8/3/2001	18:00	20.63	21.36	21.68
8/3/2001	19:00	20.33	21.36	21.68
8/3/2001	20:00	20.33	21.36	21.07
8/3/2001	21:00	20.33	21.05	20.46
8/3/2001	22:00	20.03	21.05	19.86
8/3/2001	23:00	20.03	21.05	19.55
8/4/2001	0:00	20.03	21.05	18.65
8/4/2001	1:00	19.73	20.74	18.35
8/4/2001	2:00	19.43	20.74	17.76
8/4/2001	3:00	19.43	20.74	17.16

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/4/2001	4:00	19.43	20.74	16.86
8/4/2001	5:00	19.13	20.74	16.57
8/4/2001	6:00	19.13	20.74	16.27
8/4/2001	7:00	19.13	20.74	15.98
8/4/2001	8:00	19.13	20.74	15.98
8/4/2001	9:00	19.13	20.74	15.69
8/4/2001	10:00	19.43	21.05	17.46
8/4/2001	11:00	20.03	21.36	19.55
8/4/2001	12:00	20.63	21.67	19.86
8/4/2001	13:00	20.94	21.67	21.07
8/4/2001	14:00	21.87	21.97	22.93
8/4/2001	15:00	22.18	21.97	23.56
8/4/2001	16:00	22.18	21.97	23.56
8/4/2001	17:00	22.18	21.97	25.81
8/4/2001	18:00	22.18	21.97	25.81
8/4/2001	19:00	21.56	21.67	25.81
8/4/2001	20:00	20.94	21.36	25.81
8/4/2001	21:00	20.94	21.36	24.84
8/4/2001	22:00	20.63	21.05	23.88
8/4/2001	23:00	20.33	21.05	22.62
8/5/2001	0:00	20.03	21.05	21.07
8/5/2001	1:00	20.03	21.05	20.16
8/5/2001	2:00	19.73	20.74	19.55
8/5/2001	3:00	19.43	20.74	18.95
8/5/2001	4:00	19.43	20.74	18.06
8/5/2001	5:00	19.43	20.74	17.46
8/5/2001	6:00	19.13	20.74	16.57
8/5/2001	7:00	19.13	20.74	16.57
8/5/2001	8:00	19.13	20.74	16.27
8/5/2001	9:00	19.13	20.74	16.27
8/5/2001	10:00	19.43	21.05	17.16
8/5/2001	11:00	20.03	21.36	17.46
8/5/2001	12:00	20.63	21.67	17.76
8/5/2001	13:00	20.63	21.97	18.06
8/5/2001	14:00	21.25	22.28	19.86
8/5/2001	15:00	21.56	22.28	21.38
8/5/2001	16:00	21.56	22.28	22.93
8/5/2001	17:00	21.87	22.28	25.81
8/5/2001	18:00	21.87	22.28	25.81
8/5/2001	19:00	21.87	21.97	26.79
8/5/2001	20:00	21.56	21.67	27.12
8/5/2001	21:00	20.94	21.36	25.81

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/5/2001	22:00	20.33	21.36	24.52
8/5/2001	23:00	20.33	21.05	23.56
8/6/2001	0:00	20.03	21.05	22.93
8/6/2001	1:00	20.03	21.05	21.68
8/6/2001	2:00	20.03	21.05	20.46
8/6/2001	3:00	19.73	20.74	20.16
8/6/2001	4:00	19.73	20.74	19.55
8/6/2001	5:00	19.43	20.74	19.25
8/6/2001	6:00	19.43	20.74	18.65
8/6/2001	7:00	19.43	20.74	18.35
8/6/2001	8:00	19.43	20.74	18.35
8/6/2001	9:00	19.43	20.74	18.35
8/6/2001	10:00	19.43	21.05	18.35
8/6/2001	11:00	19.73	21.05	18.95
8/6/2001	12:00	20.03	21.36	19.25
8/6/2001	13:00	20.33	21.36	19.25
8/6/2001	14:00	20.63	21.67	20.16
8/6/2001	15:00	20.63	21.67	21.07
8/6/2001	16:00	20.94	21.67	21.07
8/6/2001	17:00	20.94	21.97	21.38
8/6/2001	18:00	21.25	21.67	21.68
8/6/2001	19:00	20.63	21.36	22.31
8/6/2001	20:00	20.33	21.36	21.99
8/6/2001	21:00	20.33	21.36	21.68
8/6/2001	22:00	20.03	21.36	21.38
8/6/2001	23:00	20.03	21.36	21.07
8/7/2001	0:00	20.03	21.05	20.46
8/7/2001	1:00	20.03	21.05	19.86
8/7/2001	2:00	20.03	21.05	19.25
8/7/2001	3:00	20.03	21.05	19.25
8/7/2001	4:00	20.03	21.05	18.65
8/7/2001	5:00	19.73	20.74	18.35
8/7/2001	6:00	19.73	20.74	18.06
8/7/2001	7:00	19.73	20.74	17.76
8/7/2001	8:00	19.73	20.74	17.46
8/7/2001	9:00	19.43	20.74	17.76
8/7/2001	10:00	19.73	21.05	18.35
8/7/2001	11:00	20.03	21.36	18.35
8/7/2001	12:00	20.63	21.67	18.95
8/7/2001	13:00	20.63	21.97	19.55
8/7/2001	14:00	21.25	22.28	19.86
8/7/2001	15:00	21.25	22.28	22.31

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/7/2001	16:00	21.56	22.28	24.19
8/7/2001	17:00	21.56	22.28	25.48
8/7/2001	18:00	21.25	21.97	25.48
8/7/2001	19:00	20.94	21.67	24.84
8/7/2001	20:00	20.63	21.67	23.56
8/7/2001	21:00	20.33	21.36	23.24
8/7/2001	22:00	20.03	21.36	22.62
8/7/2001	23:00	20.03	21.05	21.99
8/8/2001	0:00	20.03	21.05	21.38
8/8/2001	1:00	20.03	21.05	20.46
8/8/2001	2:00	20.03	21.05	20.16
8/8/2001	3:00	20.03	21.05	19.55
8/8/2001	4:00	19.73	21.05	18.65
8/8/2001	5:00	19.73	21.05	18.06
8/8/2001	6:00	19.73	20.74	17.76
8/8/2001	7:00	19.73	20.74	17.46
8/8/2001	8:00	19.43	20.74	16.86
8/8/2001	9:00	19.43	21.05	17.16
8/8/2001	10:00	19.73	21.05	17.76
8/8/2001	11:00	20.03	21.36	18.65
8/8/2001	12:00	20.63	21.67	21.07
8/8/2001	13:00	20.94	21.97	23.24
8/8/2001	14:00	21.25	22.28	21.99
8/8/2001	15:00	21.56	22.28	23.88
8/8/2001	16:00	21.56	22.59	22.93
8/8/2001	17:00	21.25	22.28	22.31
8/8/2001	18:00	20.94	21.97	23.24
8/8/2001	19:00	20.63	21.67	24.52
8/8/2001	20:00	20.63	21.67	23.56
8/8/2001	21:00	20.33	21.36	21.99
8/8/2001	22:00	20.33	21.05	21.68
8/8/2001	23:00	20.03	21.05	21.07
8/9/2001	0:00	20.03	21.05	20.46
8/9/2001	1:00	19.73	20.74	19.55
8/9/2001	2:00	19.43	20.74	19.25
8/9/2001	3:00	19.43	20.74	18.65
8/9/2001	4:00	19.43	20.74	18.65
8/9/2001	5:00	19.43	20.74	17.76
8/9/2001	6:00	19.13	20.74	17.16
8/9/2001	7:00	19.13	20.74	16.86
8/9/2001	8:00	19.13	20.74	16.86
8/9/2001	9:00	19.13	20.74	17.16

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/9/2001	10:00	19.43	21.05	17.46
8/9/2001	11:00	20.03	21.36	18.06
8/9/2001	12:00	20.33	21.67	18.35
8/9/2001	13:00	20.63	21.97	19.55
8/9/2001	14:00	21.25	22.28	19.86
8/9/2001	15:00	21.25	22.28	20.46
8/9/2001	16:00	20.94	21.67	20.16
8/9/2001	17:00	20.63	21.67	23.24
8/9/2001	18:00	20.63	21.67	20.77
8/9/2001	19:00	20.33	21.36	20.16
8/9/2001	20:00	20.33	21.36	19.55
8/9/2001	21:00	20.33	21.05	19.25
8/9/2001	22:00	20.03	21.05	19.25
8/9/2001	23:00	19.73	21.05	18.35
8/10/2001	0:00	19.73	21.05	18.06
8/10/2001	1:00	19.73	20.74	18.06
8/10/2001	2:00	19.43	20.74	17.76
8/10/2001	3:00	19.43	20.74	17.76
8/10/2001	4:00	19.43	20.74	17.16
8/10/2001	5:00	19.43	20.74	16.57
8/10/2001	6:00	19.43	20.74	16.27
8/10/2001	7:00	19.43	20.74	15.98
8/10/2001	8:00	19.43	20.74	15.39
8/10/2001	9:00	19.43	20.74	16.27
8/10/2001	10:00	19.43	21.05	16.57
8/10/2001	11:00	20.03	21.36	18.65
8/10/2001	12:00	20.33	21.67	18.65
8/10/2001	13:00	20.63	21.97	19.55
8/10/2001	14:00	20.94	21.97	21.38
8/10/2001	15:00	20.94	21.67	20.77
8/10/2001	16:00	20.94	21.97	22.62
8/10/2001	17:00	20.94	21.97	21.99
8/10/2001	18:00	20.94	21.97	22.31
8/10/2001	19:00	20.94	21.67	23.24
8/10/2001	20:00	20.63	21.67	22.62
8/10/2001	21:00	20.33	21.36	21.68
8/10/2001	22:00	20.03	21.05	21.07
8/10/2001	23:00	20.03	21.05	20.46
8/11/2001	0:00	20.03	21.05	20.16
8/11/2001	1:00	20.03	21.05	19.55
8/11/2001	2:00	19.73	20.74	18.65
8/11/2001	3:00	19.73	20.74	17.76

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/11/2001	4:00	19.43	20.74	17.16
8/11/2001	5:00	19.43	20.74	16.57
8/11/2001	6:00	19.43	20.74	15.69
8/11/2001	7:00	19.13	20.74	15.39
8/11/2001	8:00	19.13	20.74	15.11
8/11/2001	9:00	19.13	20.74	15.39
8/11/2001	10:00	19.13	21.05	15.69
8/11/2001	11:00	19.73	21.05	16.57
8/11/2001	12:00	20.33	21.67	17.16
8/11/2001	13:00	20.63	21.97	18.35
8/11/2001	14:00	20.94	21.97	20.16
8/11/2001	15:00	20.94	21.67	19.25
8/11/2001	16:00	20.63	21.67	19.55
8/11/2001	17:00	20.63	21.67	19.55
8/11/2001	18:00	20.63	21.67	21.99
8/11/2001	19:00	20.94	21.67	22.62
8/11/2001	20:00	20.63	21.36	21.38
8/11/2001	21:00	20.33	21.05	21.38
8/11/2001	22:00	20.03	21.05	20.16
8/11/2001	23:00	20.03	21.05	19.86
8/12/2001	0:00	20.03	21.05	18.95
8/12/2001	1:00	19.73	20.74	18.35
8/12/2001	2:00	19.73	20.74	18.06
8/12/2001	3:00	19.43	20.74	18.06
8/12/2001	4:00	19.43	20.74	17.46
8/12/2001	5:00	19.43	20.74	16.57
8/12/2001	6:00	19.13	20.74	15.98
8/12/2001	7:00	19.13	20.74	15.69
8/12/2001	8:00	19.13	20.74	15.11
8/12/2001	9:00	19.13	20.74	15.39
8/12/2001	10:00	19.13	21.05	16.27
8/12/2001	11:00	19.43	21.05	16.86
8/12/2001	12:00	20.03	21.36	17.16
8/12/2001	13:00	20.63	21.97	17.76
8/12/2001	14:00	20.94	21.97	19.55
8/12/2001	15:00	21.25	22.28	20.46
8/12/2001	16:00	21.25	21.97	20.77
8/12/2001	17:00	21.25	21.97	20.46
8/12/2001	18:00	20.94	21.67	23.56
8/12/2001	19:00	20.63	21.67	23.24
8/12/2001	20:00	20.63	21.36	22.93
8/12/2001	21:00	20.33	21.05	20.77

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/12/2001	22:00	20.33	21.05	20.77
8/12/2001	23:00	20.03	21.05	18.95
8/13/2001	0:00	20.03	21.05	19.25
8/13/2001	1:00	20.03	21.05	18.35
8/13/2001	2:00	19.73	20.74	18.06
8/13/2001	3:00	19.73	21.05	17.76
8/13/2001	4:00	19.73	20.74	18.06
8/13/2001	5:00	19.73	20.74	17.76
8/13/2001	6:00	19.43	20.74	17.16
8/13/2001	7:00	19.43	20.74	16.86
8/13/2001	8:00	19.43	20.74	16.57
8/13/2001	9:00	19.43	21.05	16.57
8/13/2001	10:00	19.43	21.05	16.86
8/13/2001	11:00	19.73	21.05	17.46
8/13/2001	12:00	19.73	21.05	18.06
8/13/2001	13:00	20.03	21.05	18.65
8/13/2001	14:00	20.33	21.36	20.16
8/13/2001	15:00	20.33	21.67	20.16
8/13/2001	16:00	20.63	21.36	20.46
8/13/2001	17:00	20.63	21.36	21.07
8/13/2001	18:00	20.33	21.36	19.55
8/13/2001	19:00	20.33	21.36	19.25
8/13/2001	20:00	20.33	21.36	18.35
8/13/2001	21:00	20.03	21.05	17.76
8/13/2001	22:00	20.03	21.05	16.57
8/13/2001	23:00	20.03	21.05	15.69
8/14/2001	0:00	19.73	21.05	15.11
8/14/2001	1:00	19.73	21.05	14.52
8/14/2001	2:00	19.73	20.74	14.23
8/14/2001	3:00	19.43	20.74	13.94
8/14/2001	4:00	19.43	20.74	13.94
8/14/2001	5:00	19.43	20.74	13.65
8/14/2001	6:00	19.13	20.74	13.07
8/14/2001	7:00	19.13	20.74	12.78
8/14/2001	8:00	19.13	20.74	12.49
8/14/2001	9:00	19.13	20.74	12.78
8/14/2001	10:00	19.13	21.05	14.52
8/14/2001	11:00	19.43	21.05	15.11
8/14/2001	12:00	20.03	21.36	16.57
8/14/2001	13:00	20.63	21.97	18.65
8/14/2001	14:00	20.94	21.97	18.65
8/14/2001	15:00	21.25	22.28	19.86

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/14/2001	16:00	21.25	22.28	19.86
8/14/2001	17:00	21.25	22.28	21.68
8/14/2001	18:00	21.25	21.97	21.99
8/14/2001	19:00	20.63	21.97	20.77
8/14/2001	20:00	20.33	21.67	20.16
8/14/2001	21:00	20.33	21.36	19.86
8/14/2001	22:00	20.03	21.05	19.55
8/14/2001	23:00	20.03	21.05	18.65
8/15/2001	0:00	20.03	21.05	17.16
8/15/2001	1:00	20.03	21.05	16.57
8/15/2001	2:00	19.73	20.74	16.27
8/15/2001	3:00	19.73	20.74	15.69
8/15/2001	4:00	19.43	20.74	15.39
8/15/2001	5:00	19.43	20.74	15.11
8/15/2001	6:00	19.13	20.74	14.81
8/15/2001	7:00	19.13	20.74	14.23
8/15/2001	8:00	19.13	20.74	13.65
8/15/2001	9:00	19.13	20.74	14.23
8/15/2001	10:00	19.13	20.74	14.52
8/15/2001	11:00	19.43	21.05	15.98
8/15/2001	12:00	19.73	21.36	16.86
8/15/2001	13:00	20.33	21.67	20.16
8/15/2001	14:00	20.63	21.97	19.25
8/15/2001	15:00	20.94	21.97	22.31
8/15/2001	16:00	20.94	21.67	22.62
8/15/2001	17:00	20.94	21.97	24.19
8/15/2001	18:00	21.25	21.67	24.19
8/15/2001	19:00	20.94	21.67	22.62
8/15/2001	20:00	20.33	21.36	21.99
8/15/2001	21:00	20.33	21.36	21.68
8/15/2001	22:00	20.03	21.05	21.07
8/16/2001	23:00	20.03	21.05	20.16
8/16/2001	0:00	20.03	21.05	19.55
8/16/2001	1:00	19.73	21.05	19.25
8/16/2001	2:00	19.73	20.74	17.46
8/16/2001	3:00	19.73	20.74	16.57
8/16/2001	4:00	19.43	20.74	16.27
8/16/2001	5:00	19.43	20.74	15.69
8/16/2001	6:00	19.43	20.74	15.39
8/16/2001	7:00	19.13	20.74	14.81
8/16/2001	8:00	19.13	20.74	14.81
8/16/2001	9:00	19.13	20.74	14.81

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/16/2001	10:00	19.13	21.05	15.69
8/16/2001	11:00	19.73	21.05	17.16
8/16/2001	12:00	20.03	21.36	18.06
8/16/2001	13:00	20.63	21.97	18.95
8/16/2001	14:00	20.94	21.97	22.62
8/16/2001	15:00	21.25	22.28	23.88
8/16/2001	16:00	21.25	21.97	25.81
8/16/2001	17:00	20.94	21.97	25.48
8/16/2001	18:00	20.94	21.97	25.48
8/16/2001	19:00	20.63	21.67	24.84
8/16/2001	20:00	20.33	21.67	23.56
8/16/2001	21:00	20.33	21.36	22.93
8/16/2001	22:00	20.03	21.05	21.68
8/16/2001	23:00	20.03	21.05	20.77
8/17/2001	0:00	20.03	21.05	20.16
8/17/2001	1:00	20.03	20.74	18.95
8/17/2001	2:00	19.73	20.74	18.35
8/17/2001	3:00	19.43	20.74	17.76
8/17/2001	4:00	19.43	20.74	17.16
8/17/2001	5:00	19.13	20.74	16.27
8/17/2001	6:00	19.13	20.74	15.98
8/17/2001	7:00	19.13	20.74	15.39
8/17/2001	8:00	19.13	20.74	14.81
8/17/2001	9:00	19.13	20.74	15.11
8/17/2001	10:00	19.13	21.05	15.98
8/17/2001	11:00	19.43	21.05	17.16
8/17/2001	12:00	20.03	21.36	18.35
8/17/2001	13:00	20.33	21.97	20.46
8/17/2001	14:00	20.63	21.97	22.31
8/17/2001	15:00	20.94	21.97	23.88
8/17/2001	16:00	21.25	21.97	27.45
8/17/2001	17:00	21.25	21.97	27.12
8/17/2001	18:00	21.25	21.97	27.45
8/17/2001	19:00	20.94	21.67	26.46
8/17/2001	20:00	20.63	21.36	25.48
8/17/2001	21:00	20.33	21.36	24.52
8/17/2001	22:00	20.03	21.05	23.56
8/17/2001	23:00	20.03	21.05	21.99
8/18/2001	0:00	20.03	21.05	20.77
8/18/2001	1:00	19.73	20.74	19.86
8/18/2001	2:00	19.73	20.74	19.25
8/18/2001	3:00	19.43	20.74	18.65

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/18/2001	4:00	19.43	20.74	18.06
8/18/2001	5:00	19.13	20.74	17.16
8/18/2001	6:00	19.13	20.74	16.27
8/18/2001	7:00	19.13	20.74	15.69
8/18/2001	8:00	19.13	20.74	15.11
8/18/2001	9:00	19.13	20.74	15.11
8/18/2001	10:00	19.13	21.05	15.11
8/18/2001	11:00	19.43	21.05	16.86
8/18/2001	12:00	20.03	21.36	18.35
8/18/2001	13:00	20.33	21.67	22.31
8/18/2001	14:00	20.94	21.97	22.93
8/18/2001	15:00	21.25	21.97	25.16
8/18/2001	16:00	21.25	21.97	26.79
8/18/2001	17:00	21.56	21.97	26.79
8/18/2001	18:00	21.25	21.97	26.46
8/18/2001	19:00	20.94	21.67	25.81
8/18/2001	20:00	20.63	21.67	24.52
8/18/2001	21:00	20.33	21.36	23.24
8/18/2001	22:00	20.03	21.36	22.62
8/18/2001	23:00	20.03	21.05	21.68
8/19/2001	0:00	20.03	21.05	20.77
8/19/2001	1:00	19.73	20.74	19.55
8/19/2001	2:00	19.73	20.74	19.25
8/19/2001	3:00	19.43	20.74	18.65
8/19/2001	4:00	19.43	20.74	18.35
8/19/2001	5:00	19.13	20.74	17.46
8/19/2001	6:00	18.83	20.74	16.57
8/19/2001	7:00	18.83	20.74	15.98
8/19/2001	8:00	18.83	20.74	15.39
8/19/2001	9:00	18.83	20.74	15.69
8/19/2001	10:00	19.13	20.74	16.57
8/19/2001	11:00	19.43	21.05	18.35
8/19/2001	12:00	19.73	21.36	19.55
8/19/2001	13:00	20.33	21.67	21.07
8/19/2001	14:00	20.94	21.67	22.93
8/19/2001	15:00	20.94	21.67	24.19
8/19/2001	16:00	20.94	21.36	23.56
8/19/2001	17:00	20.63	21.36	22.93
8/19/2001	18:00	20.63	21.05	22.62
8/19/2001	19:00	20.33	21.05	20.77
8/19/2001	20:00	20.03	21.05	19.55
8/19/2001	21:00	20.03	21.05	18.65

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/19/2001	22:00	19.73	20.74	17.76
8/19/2001	23:00	19.43	20.74	16.86
8/20/2001	0:00	19.13	20.74	16.57
8/20/2001	1:00	19.13	20.74	15.98
8/20/2001	2:00	19.13	20.74	15.69
8/20/2001	3:00	18.83	20.44	15.11
8/20/2001	4:00	18.83	20.74	14.81
8/20/2001	5:00	18.83	20.74	14.81
8/20/2001	6:00	18.83	20.44	14.23
8/20/2001	7:00	18.53	20.44	13.94
8/20/2001	8:00	18.53	20.74	13.94
8/20/2001	9:00	18.83	20.74	14.23
8/20/2001	10:00	19.13	20.74	14.81
8/20/2001	11:00	19.43	21.05	15.98
8/20/2001	12:00	19.43	21.05	16.86
8/20/2001	13:00	19.73	21.05	17.46
8/20/2001	14:00	19.73	21.36	18.35
8/20/2001	15:00	20.03	21.36	18.95
8/20/2001	16:00	20.33	21.36	19.25
8/20/2001	17:00	20.33	21.36	19.55
8/20/2001	18:00	20.63	21.36	19.55
8/20/2001	19:00	20.33	21.05	19.25
8/20/2001	20:00	20.33	21.05	18.95
8/20/2001	21:00	20.03	21.05	18.65
8/20/2001	22:00	20.03	21.05	16.86
8/20/2001	23:00	19.73	20.74	11.34
8/21/2001	0:00	19.43	20.74	15.39
8/21/2001	1:00	19.43	20.74	15.11
8/21/2001	2:00	19.43	20.74	14.81
8/21/2001	3:00	19.13	20.74	13.65
8/21/2001	4:00	19.13	20.74	13.07
8/21/2001	5:00	19.13	20.74	12.49
8/21/2001	6:00	19.13	20.74	12.49
8/21/2001	7:00	19.13	20.74	12.21
8/21/2001	8:00	19.13	20.74	11.91
8/21/2001	9:00	19.13	20.74	12.21
8/21/2001	10:00	19.13	21.05	13.36
8/21/2001	11:00	19.43	21.05	14.52
8/21/2001	12:00	19.73	21.36	15.11
8/21/2001	13:00	20.33	21.67	18.35
8/21/2001	14:00	20.63	21.67	17.76
8/21/2001	15:00	20.63	21.67	20.77

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/21/2001	16:00	20.63	21.36	20.16
8/21/2001	17:00	20.33	21.05	17.16
8/21/2001	18:00	20.03	21.05	18.35
8/21/2001	19:00	20.03	21.05	17.16
8/21/2001	20:00	19.73	20.74	16.27
8/21/2001	21:00	19.73	20.74	15.69
8/21/2001	22:00	19.43	20.74	15.11
8/21/2001	23:00	19.43	20.74	14.52
8/22/2001	0:00	19.43	20.74	13.94
8/22/2001	1:00	19.13	20.74	13.36
8/22/2001	2:00	19.13	20.74	12.78
8/22/2001	3:00	19.13	20.74	12.49
8/22/2001	4:00	19.13	20.74	12.21
8/22/2001	5:00	18.83	20.44	11.91
8/22/2001	6:00	18.83	20.44	11.63
8/22/2001	7:00	18.83	20.44	11.05
8/22/2001	8:00	18.83	20.44	11.34
8/22/2001	9:00	18.83	20.74	11.63
8/22/2001	10:00	18.83	20.74	12.78
8/22/2001	11:00	19.13	21.05	14.23
8/22/2001	12:00	19.43	21.36	16.57
8/22/2001	13:00	20.03	21.67	17.76
8/22/2001	14:00	20.63	21.67	18.95
8/22/2001	15:00	20.94	21.67	21.99
8/22/2001	16:00	21.25	21.97	24.19
8/22/2001	17:00	21.25	21.97	24.52
8/22/2001	18:00	21.25	21.97	24.52
8/22/2001	19:00	20.94	21.67	23.24
8/22/2001	20:00	20.33	21.36	22.62
8/22/2001	21:00	20.33	21.36	20.46
8/22/2001	22:00	20.03	21.05	18.65
8/22/2001	23:00	20.03	21.05	17.16
8/23/2001	0:00	20.03	20.74	15.98
8/23/2001	1:00	19.73	20.74	15.11
8/23/2001	2:00	19.43	20.74	14.23
8/23/2001	3:00	19.43	20.74	13.36
8/23/2001	4:00	19.13	20.74	12.78
8/23/2001	5:00	19.13	20.74	11.91
8/23/2001	6:00	18.83	20.44	11.91
8/23/2001	7:00	18.83	20.44	11.34
8/23/2001	8:00	18.83	20.44	11.05
8/23/2001	9:00	18.83	20.44	11.63

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/23/2001	10:00	18.83	20.74	12.78
8/23/2001	11:00	19.43	21.05	14.81
8/23/2001	12:00	19.73	21.36	16.86
8/23/2001	13:00	20.33	21.67	19.25
8/23/2001	14:00	20.94	21.67	20.46
8/23/2001	15:00	21.25	21.97	22.62
8/23/2001	16:00	21.56	21.97	24.84
8/23/2001	17:00	21.56	21.97	26.13
8/23/2001	18:00	21.25	21.97	25.16
8/23/2001	19:00	20.94	21.67	24.84
8/23/2001	20:00	20.63	21.36	23.56
8/23/2001	21:00	20.33	21.36	22.31
8/23/2001	22:00	20.03	21.05	20.46
8/23/2001	23:00	20.03	21.05	18.95
8/24/2001	0:00	20.03	20.74	18.06
8/24/2001	1:00	19.73	20.74	17.16
8/24/2001	2:00	19.43	20.74	16.27
8/24/2001	3:00	19.43	20.74	15.11
8/24/2001	4:00	19.13	20.74	14.81
8/24/2001	5:00	19.13	20.74	14.23
8/24/2001	6:00	19.13	20.74	13.65
8/24/2001	7:00	19.13	20.74	12.78
8/24/2001	8:00	19.13	20.74	12.78
8/24/2001	9:00	19.13	20.74	12.78
8/24/2001	10:00	19.13	20.74	13.07
8/24/2001	11:00	19.43	21.05	13.94
8/24/2001	12:00	19.73	21.36	15.11
8/24/2001	13:00	20.03	21.36	15.69
8/24/2001	14:00	20.33	21.36	18.35
8/24/2001	15:00	20.94	21.67	18.35
8/24/2001	16:00	20.94	21.67	20.16
8/24/2001	17:00	21.25	21.67	20.77
8/24/2001	18:00	20.94	21.67	21.38
8/24/2001	19:00	20.63	21.67	22.31
8/24/2001	20:00	20.33	21.36	21.38
8/24/2001	21:00	20.03	21.05	20.16
8/24/2001	22:00	20.03	21.05	19.25
8/24/2001	23:00	20.03	21.05	18.06
8/25/2001	0:00	19.73	20.74	16.57
8/25/2001	1:00	19.43	20.74	15.69
8/25/2001	2:00	19.43	20.74	14.81
8/25/2001	3:00	19.13	20.74	14.52

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/25/2001	4:00	19.13	20.44	13.94
8/25/2001	5:00	18.83	20.44	13.07
8/25/2001	6:00	18.83	20.44	12.78
8/25/2001	7:00	18.83	20.44	12.21
8/25/2001	8:00	18.83	20.44	11.91
8/25/2001	9:00	18.83	20.44	11.91
8/25/2001	10:00	18.83	20.74	13.36
8/25/2001	11:00	19.13	21.05	13.94
8/25/2001	12:00	19.73	21.36	15.69
8/25/2001	13:00	20.33	21.97	17.76
8/25/2001	14:00	20.63	21.97	18.65
8/25/2001	15:00	20.94	21.97	21.07
8/25/2001	16:00	21.25	21.97	23.24
8/25/2001	17:00	21.25	21.97	22.93
8/25/2001	18:00	21.25	21.97	22.93
8/25/2001	19:00	20.63	21.67	22.31
8/25/2001	20:00	20.63	21.36	21.07
8/25/2001	21:00	20.33	21.05	19.86
8/25/2001	22:00	20.03	21.05	18.65
8/25/2001	23:00	20.03	21.05	17.76
8/26/2001	0:00	20.03	20.74	16.86
8/26/2001	1:00	19.73	20.74	15.98
8/26/2001	2:00	19.43	20.74	15.11
8/26/2001	3:00	19.43	20.74	14.52
8/26/2001	4:00	19.13	20.74	14.23
8/26/2001	5:00	19.13	20.44	13.36
8/26/2001	6:00	18.83	20.44	12.49
8/26/2001	7:00	18.83	20.44	12.21
8/26/2001	8:00	18.83	20.44	11.34
8/26/2001	9:00	18.83	20.44	12.21
8/26/2001	10:00	18.83	20.74	13.07
8/26/2001	11:00	19.13	21.05	14.52
8/26/2001	12:00	19.73	21.36	16.86
8/26/2001	13:00	20.33	21.97	18.65
8/26/2001	14:00	20.63	21.97	19.86
8/26/2001	15:00	20.94	21.97	20.77
8/26/2001	16:00	21.25	21.97	21.38
8/26/2001	17:00	21.25	21.97	25.16
8/26/2001	18:00	21.25	21.97	26.13
8/26/2001	19:00	21.25	21.67	24.84
8/26/2001	20:00	20.94	21.36	23.56
8/26/2001	21:00	20.63	21.36	21.99

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/26/2001	22:00	20.03	21.05	20.46
8/26/2001	23:00	20.03	21.05	18.95
8/27/2001	0:00	20.03	21.05	17.76
8/27/2001	1:00	19.73	20.74	17.46
8/27/2001	2:00	19.73	20.74	16.57
8/27/2001	3:00	19.43	20.74	15.98
8/27/2001	4:00	19.43	20.74	15.11
8/27/2001	5:00	19.13	20.74	14.52
8/27/2001	6:00	19.13	20.44	13.94
8/27/2001	7:00	18.83	20.44	13.07
8/27/2001	8:00	18.83	20.44	12.21
8/27/2001	9:00	18.83	20.74	12.21
8/27/2001	10:00	19.13	20.74	13.65
8/27/2001	11:00	19.43	21.05	15.11
8/27/2001	12:00	20.03	21.36	17.46
8/27/2001	13:00	20.33	21.67	19.86
8/27/2001	14:00	20.94	21.97	24.19
8/27/2001	15:00	20.94	21.97	25.48
8/27/2001	16:00	21.25	21.97	26.79
8/27/2001	17:00	20.94	21.67	27.12
8/27/2001	18:00	20.63	21.67	25.48
8/27/2001	19:00	20.63	21.36	23.88
8/27/2001	20:00	20.33	21.36	22.62
8/27/2001	21:00	20.03	21.05	21.07
8/27/2001	22:00	20.03	21.05	20.16
8/27/2001	23:00	20.03	21.05	19.25
8/28/2001	0:00	19.73	20.74	18.35
8/28/2001	1:00	19.73	20.74	17.76
8/28/2001	2:00	19.43	20.74	16.86
8/28/2001	3:00	19.43	20.74	16.27
8/28/2001	4:00	19.13	20.74	15.39
8/28/2001	5:00	19.13	20.74	14.81
8/28/2001	6:00	18.83	20.44	14.52
8/28/2001	7:00	18.83	20.44	13.94
8/28/2001	8:00	18.83	20.44	13.36
8/28/2001	9:00	18.83	20.74	13.36
8/28/2001	10:00	18.83	20.74	14.52
8/28/2001	11:00	19.13	21.05	15.69
8/28/2001	12:00	19.73	21.36	16.86
8/28/2001	13:00	20.03	21.67	19.55
8/28/2001	14:00	20.63	21.97	21.38
8/28/2001	15:00	20.94	21.97	22.31

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/28/2001	16:00	21.25	21.97	23.88
8/28/2001	17:00	21.25	21.97	25.81
8/28/2001	18:00	20.94	21.67	24.52
8/28/2001	19:00	20.63	21.67	23.24
8/28/2001	20:00	20.33	21.36	21.99
8/28/2001	21:00	20.03	21.05	20.16
8/28/2001	22:00	20.03	21.05	19.55
8/28/2001	23:00	20.03	21.05	19.25
8/29/2001	0:00	20.03	21.05	18.35
8/29/2001	1:00	19.73	20.74	18.06
8/29/2001	2:00	19.73	20.74	17.46
8/29/2001	3:00	19.43	20.74	16.57
8/29/2001	4:00	19.43	20.74	15.98
8/29/2001	5:00	19.43	20.74	14.52
8/29/2001	6:00	19.13	20.74	14.52
8/29/2001	7:00	19.13	20.74	14.52
8/29/2001	8:00	19.13	20.74	13.65
8/29/2001	9:00	19.13	20.74	13.65
8/29/2001	10:00	19.13	20.74	14.23
8/29/2001	11:00	19.13	21.05	16.57
8/29/2001	12:00	19.43	21.36	19.86
8/29/2001	13:00	20.03	21.67	21.38
8/29/2001	14:00	20.33	21.67	21.99
8/29/2001	15:00	20.63	21.67	22.31
8/29/2001	16:00	20.94	21.67	23.24
8/29/2001	17:00	20.94	21.67	24.52
8/29/2001	18:00	20.94	21.67	24.19
8/29/2001	19:00	20.63	21.36	22.93
8/29/2001	20:00	20.63	21.36	21.38
8/29/2001	21:00	20.33	21.05	18.65
8/29/2001	22:00	20.03	21.05	17.76
8/29/2001	23:00	20.03	21.05	17.16
8/30/2001	0:00	20.03	21.05	15.98
8/30/2001	1:00	19.73	20.74	15.39
8/30/2001	2:00	19.73	20.74	15.11
8/30/2001	3:00	19.43	20.74	14.52
8/30/2001	4:00	19.43	20.74	14.23
8/30/2001	5:00	19.43	20.74	13.65
8/30/2001	6:00	19.43	20.74	13.36
8/30/2001	7:00	19.13	20.74	13.07
8/30/2001	8:00	19.13	20.74	12.78
8/30/2001	9:00	19.43	20.74	13.07

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
8/30/2001	10:00	19.43	21.05	13.36
8/30/2001	11:00	19.73	21.05	13.36
8/30/2001	12:00	20.03	21.05	14.81
8/30/2001	13:00	20.03	21.36	16.86
8/30/2001	14:00	20.33	21.36	18.95
8/30/2001	15:00	20.63	21.36	20.46
8/30/2001	16:00	20.63	21.36	19.86
8/30/2001	17:00	20.33	21.36	19.86
8/30/2001	18:00	20.33	21.05	20.16
8/30/2001	19:00	20.33	21.05	19.55
8/30/2001	20:00	20.03	21.05	18.95
8/30/2001	21:00	20.03	21.05	17.46
8/30/2001	22:00	20.03	21.05	16.27
8/30/2001	23:00	19.73	20.74	15.98
8/31/2001	0:00	19.73	20.74	15.69
8/31/2001	1:00	19.73	20.74	15.69
8/31/2001	2:00	19.43	20.74	15.11
8/31/2001	3:00	19.43	20.74	14.81
8/31/2001	4:00	19.43	20.74	14.52
8/31/2001	5:00	19.13	20.74	14.23
8/31/2001	6:00	19.13	20.74	13.65
8/31/2001	7:00	19.13	20.74	13.07
8/31/2001	8:00	19.13	20.74	12.78
8/31/2001	9:00	19.13	20.74	12.78
8/31/2001	10:00	19.13	20.74	12.78
8/31/2001	11:00	19.43	21.05	13.36
8/31/2001	12:00	19.73	21.36	15.98
8/31/2001	13:00	20.03	21.67	17.46
8/31/2001	14:00	20.63	21.67	20.46
8/31/2001	15:00	20.94	21.67	22.31
8/31/2001	16:00	20.94	21.97	23.24
8/31/2001	17:00	20.94	21.97	24.52
8/31/2001	18:00	20.94	21.67	23.88
8/31/2001	19:00	20.63	21.67	23.24
8/31/2001	20:00	20.33	21.36	22.62
8/31/2001	21:00	20.33	21.36	21.07
8/31/2001	22:00	20.03	21.05	20.46
8/31/2001	23:00	20.03	21.05	19.55
9/1/2001	0:00	20.03	21.05	18.35
9/1/2001	1:00	19.73	20.74	17.16
9/1/2001	2:00	19.73	20.74	15.98
9/1/2001	3:00	19.43	20.74	15.39

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/1/2001	4:00	19.43	20.74	14.81
9/1/2001	5:00	19.13	20.74	14.23
9/1/2001	6:00	19.13	20.74	13.36
9/1/2001	7:00	18.83	20.44	12.78
9/1/2001	8:00	18.83	20.44	12.21
9/1/2001	9:00	18.83	20.44	12.21
9/1/2001	10:00	18.83	20.74	13.65
9/1/2001	11:00	19.13	21.05	14.81
9/1/2001	12:00	19.73	21.36	16.27
9/1/2001	13:00	20.33	21.67	20.77
9/1/2001	14:00	20.63	21.67	22.62
9/1/2001	15:00	20.94	21.67	23.88
9/1/2001	16:00	20.94	21.97	25.48
9/1/2001	17:00	21.25	21.97	25.81
9/1/2001	18:00	21.56	21.36	25.81
9/1/2001	19:00	20.33	21.36	23.24
9/1/2001	20:00	20.03	21.05	21.07
9/1/2001	21:00	20.03	21.05	20.46
9/1/2001	22:00	20.03	21.05	19.25
9/1/2001	23:00	20.03	21.05	18.06
9/2/2001	0:00	19.73	20.74	16.57
9/2/2001	1:00	19.73	20.74	15.39
9/2/2001	2:00	19.43	20.74	14.52
9/2/2001	3:00	19.43	20.74	13.94
9/2/2001	4:00	19.13	20.74	12.78
9/2/2001	5:00	19.13	20.74	11.91
9/2/2001	6:00	18.83	20.44	11.63
9/2/2001	7:00	18.83	20.44	10.76
9/2/2001	8:00	18.83	20.44	10.47
9/2/2001	9:00	18.83	20.44	11.05
9/2/2001	10:00	18.83	20.74	12.21
9/2/2001	11:00	19.13	21.05	14.23
9/2/2001	12:00	19.73	21.36	16.27
9/2/2001	13:00	20.03	21.67	20.16
9/2/2001	14:00	20.63	21.67	22.93
9/2/2001	15:00	20.94	21.67	24.52
9/2/2001	16:00	21.25	21.97	26.13
9/2/2001	17:00	21.25	21.97	26.79
9/2/2001	18:00	21.25	21.67	25.81
9/2/2001	19:00	21.25	21.36	24.84
9/2/2001	20:00	20.63	21.36	23.56
9/2/2001	21:00	20.33	21.05	22.31

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/2/2001	22:00	20.03	21.05	21.07
9/2/2001	23:00	20.03	21.05	19.55
9/3/2001	0:00	20.03	20.74	18.35
9/3/2001	1:00	19.73	20.74	17.46
9/3/2001	2:00	19.73	20.74	16.57
9/3/2001	3:00	19.43	20.74	15.69
9/3/2001	4:00	19.43	20.74	14.81
9/3/2001	5:00	19.13	20.74	14.52
9/3/2001	6:00	19.13	20.44	13.65
9/3/2001	7:00	18.83	20.44	13.07
9/3/2001	8:00	18.83	20.44	12.21
9/3/2001	9:00	18.83	20.74	11.91
9/3/2001	10:00	18.83	20.74	12.49
9/3/2001	11:00	19.13	21.05	13.94
9/3/2001	12:00	19.43	21.05	16.86
9/3/2001	13:00	19.73	21.67	21.38
9/3/2001	14:00	20.33	21.36	22.62
9/3/2001	15:00	20.33	21.36	22.62
9/3/2001	16:00	20.63	21.67	22.62
9/3/2001	17:00	20.63	21.67	23.24
9/3/2001	18:00	20.63	21.67	22.62
9/3/2001	19:00	20.63	21.36	22.93
9/3/2001	20:00	20.33	21.05	22.31
9/3/2001	21:00	20.33	21.05	21.07
9/3/2001	22:00	20.03	21.05	20.46
9/3/2001	23:00	20.03	21.05	19.25
9/4/2001	0:00	20.03	20.74	18.06
9/4/2001	1:00	19.73	20.74	17.16
9/4/2001	2:00	19.73	20.74	16.57
9/4/2001	3:00	19.43	20.74	15.69
9/4/2001	4:00	19.43	20.74	14.81
9/4/2001	5:00	19.13	20.74	13.94
9/4/2001	6:00	19.13	20.44	13.36
9/4/2001	7:00	18.83	20.44	12.49
9/4/2001	8:00	18.83	20.44	12.21
9/4/2001	9:00	18.83	20.44	12.21
9/4/2001	10:00	18.83	20.74	13.36
9/4/2001	11:00	19.13	21.05	14.52
9/4/2001	12:00	19.73	21.36	17.46
9/4/2001	13:00	20.03	21.67	19.86
9/4/2001	14:00	20.33	21.67	21.38
9/4/2001	15:00	20.94	21.97	21.07

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/4/2001	16:00	20.94	21.36	22.31
9/4/2001	17:00	20.63	21.36	22.93
9/4/2001	18:00	20.33	21.36	21.38
9/4/2001	19:00	20.33	21.36	19.86
9/4/2001	20:00	20.03	21.05	17.46
9/4/2001	21:00	20.03	21.05	17.46
9/4/2001	22:00	20.03	21.05	16.57
9/4/2001	23:00	20.03	20.74	15.69
9/5/2001	0:00	19.73	20.74	15.39
9/5/2001	1:00	19.73	20.74	14.81
9/5/2001	2:00	19.43	20.74	13.94
9/5/2001	3:00	19.43	20.74	13.65
9/5/2001	4:00	19.43	20.74	13.36
9/5/2001	5:00	19.13	20.74	12.78
9/5/2001	6:00	19.13	20.74	12.78
9/5/2001	7:00	19.13	20.74	12.21
9/5/2001	8:00	19.13	20.74	11.91
9/5/2001	9:00	19.13	20.74	11.91
9/5/2001	10:00	19.13	20.74	13.36
9/5/2001	11:00	19.13	21.05	15.39
9/5/2001	12:00	19.43	21.36	17.76
9/5/2001	13:00	20.03	21.36	20.46
9/5/2001	14:00	20.33	21.36	21.68
9/5/2001	15:00	20.63	21.36	21.99
9/5/2001	16:00	20.63	21.67	22.93
9/5/2001	17:00	21.25	21.67	23.24
9/5/2001	18:00	21.25	21.36	22.31
9/5/2001	19:00	20.94	21.36	21.68
9/5/2001	20:00	20.63	21.05	20.77
9/5/2001	21:00	20.33	21.05	19.55
9/5/2001	22:00	20.03	21.05	17.16
9/5/2001	23:00	19.73	20.74	17.16
9/6/2001	0:00	19.73	20.74	16.57
9/6/2001	1:00	19.73	20.74	15.98
9/6/2001	2:00	19.43	20.74	15.39
9/6/2001	3:00	19.43	20.74	14.52
9/6/2001	4:00	19.43	20.74	9.04
9/6/2001	5:00	19.13	20.44	7.02
9/6/2001	6:00	19.13	20.44	8.46
9/6/2001	7:00	18.83	20.44	7.59
9/6/2001	8:00	18.83	20.44	7.31
9/6/2001	9:00	18.83	20.44	7.31

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/6/2001	10:00	18.53	20.44	8.17
9/6/2001	11:00	18.83	20.74	9.9
9/6/2001	12:00	19.43	21.05	12.78
9/6/2001	13:00	19.73	21.36	14.81
9/6/2001	14:00	20.03	21.36	15.69
9/6/2001	15:00	20.33	21.36	16.57
9/6/2001	16:00	20.33	21.36	14.23
9/6/2001	17:00	20.63	21.36	15.98
9/6/2001	18:00	20.63	21.05	15.69
9/6/2001	19:00	20.33	21.05	15.39
9/6/2001	20:00	20.03	20.74	14.81
9/6/2001	21:00	20.03	20.74	13.65
9/6/2001	22:00	19.73	20.74	12.78
9/6/2001	23:00	19.43	20.74	11.91
9/7/2001	0:00	19.13	20.44	11.34
9/7/2001	1:00	19.13	20.44	10.76
9/7/2001	2:00	18.83	20.44	10.19
9/7/2001	3:00	18.83	20.44	9.61
9/7/2001	4:00	18.53	20.44	9.32
9/7/2001	5:00	18.53	20.44	8.75
9/7/2001	6:00	18.53	20.44	8.46
9/7/2001	7:00	18.23	20.14	8.17
9/7/2001	8:00	18.23	20.14	7.59
9/7/2001	9:00	18.23	20.44	7.59
9/7/2001	10:00	18.23	20.44	7.59
9/7/2001	11:00	18.53	20.74	7.88
9/7/2001	12:00	18.83	21.05	8.75
9/7/2001	13:00	19.43	21.67	9.61
9/7/2001	14:00	20.03	21.36	11.05
9/7/2001	15:00	20.33	21.36	12.78
9/7/2001	16:00	20.63	21.36	14.81
9/7/2001	17:00	20.63	21.36	16.27
9/7/2001	18:00	20.63	21.36	17.16
9/7/2001	19:00	20.63	21.05	17.76
9/7/2001	20:00	20.33	21.05	17.76
9/7/2001	21:00	19.73	20.74	16.27
9/7/2001	22:00	19.43	20.44	13.65
9/7/2001	23:00	19.13	20.44	11.63
9/8/2001	0:00	19.13	20.44	11.34
9/8/2001	1:00	18.83	20.44	11.63
9/8/2001	2:00	18.83	20.44	11.34
9/8/2001	3:00	18.83	20.44	10.47

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/8/2001	4:00	18.53	20.44	9.61
9/8/2001	5:00	18.53	20.44	9.32
9/8/2001	6:00	18.53	20.44	8.75
9/8/2001	7:00	18.23	20.14	8.46
9/8/2001	8:00	18.23	20.14	8.17
9/8/2001	9:00	18.23	20.44	7.59
9/8/2001	10:00	18.23	20.44	7.59
9/8/2001	11:00	18.83	20.74	7.88
9/8/2001	12:00	19.13	21.05	8.75
9/8/2001	13:00	19.73	21.67	10.19
9/8/2001	14:00	20.03	21.36	11.91
9/8/2001	15:00	20.33	21.36	13.94
9/8/2001	16:00	20.63	21.36	15.98
9/8/2001	17:00	20.63	21.36	16.86
9/8/2001	18:00	20.63	21.05	17.16
9/8/2001	19:00	20.33	21.05	16.57
9/8/2001	20:00	20.03	20.74	15.39
9/8/2001	21:00	19.73	20.44	13.94
9/8/2001	22:00	19.43	20.44	12.78
9/8/2001	23:00	19.13	20.44	12.21
9/9/2001	0:00	18.83	20.44	11.63
9/9/2001	1:00	18.83	20.44	11.05
9/9/2001	2:00	18.53	20.44	10.19
9/9/2001	3:00	18.53	20.14	9.32
9/9/2001	4:00	18.53	20.14	8.75
9/9/2001	5:00	18.23	20.14	8.46
9/9/2001	6:00	18.23	20.14	7.59
9/9/2001	7:00	18.23	20.14	7.02
9/9/2001	8:00	17.94	20.14	6.73
9/9/2001	9:00	17.94	20.14	6.15
9/9/2001	10:00	18.23	20.44	5.86
9/9/2001	11:00	18.53	20.74	6.15
9/9/2001	12:00	19.13	21.05	7.02
9/9/2001	13:00	19.73	21.67	8.17
9/9/2001	14:00	20.03	21.36	9.61
9/9/2001	15:00	20.33	21.36	11.34
9/9/2001	16:00	20.63	21.67	13.07
9/9/2001	17:00	20.63	21.36	14.52
9/9/2001	18:00	20.63	21.36	15.98
9/9/2001	19:00	20.33	21.05	16.86
9/9/2001	20:00	20.03	21.05	16.86
9/9/2001	21:00	20.03	20.74	16.27

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/9/2001	22:00	19.73	20.74	15.39
9/9/2001	23:00	19.43	20.44	14.81
9/10/2001	0:00	19.13	20.44	13.94
9/10/2001	1:00	18.83	20.44	13.07
9/10/2001	2:00	18.83	20.44	11.91
9/10/2001	3:00	18.53	20.44	11.34
9/10/2001	4:00	18.53	20.44	10.76
9/10/2001	5:00	18.53	20.14	10.19
9/10/2001	6:00	18.23	20.14	9.61
9/10/2001	7:00	18.23	20.14	9.32
9/10/2001	8:00	18.23	20.14	8.46
9/10/2001	9:00	18.23	20.44	8.17
9/10/2001	10:00	18.23	20.44	7.88
9/10/2001	11:00	18.83	20.74	8.17
9/10/2001	12:00	19.43	21.05	9.04
9/10/2001	13:00	19.73	21.67	10.19
9/10/2001	14:00	20.33	21.67	12.21
9/10/2001	15:00	20.63	21.67	13.65
9/10/2001	16:00	20.94	21.67	15.39
9/10/2001	17:00	20.94	21.36	16.86
9/10/2001	18:00	20.94	21.36	18.06
9/10/2001	19:00	20.63	21.05	18.35
9/10/2001	20:00	20.33	21.05	18.65
9/10/2001	21:00	20.03	21.05	18.35
9/10/2001	22:00	20.03	20.74	17.76
9/10/2001	23:00	19.73	20.74	16.86
9/11/2001	0:00	19.43	20.74	16.27
9/11/2001	1:00	19.43	20.74	15.69
9/11/2001	2:00	19.13	20.44	15.11
9/11/2001	3:00	19.13	20.44	14.52
9/11/2001	4:00	19.13	20.44	13.65
9/11/2001	5:00	18.83	20.44	13.36
9/11/2001	6:00	18.83	20.44	12.78
9/11/2001	7:00	18.83	20.44	12.21
9/11/2001	8:00	18.83	20.44	11.91
9/11/2001	9:00	18.83	20.44	11.34
9/11/2001	10:00	18.83	20.74	11.05
9/11/2001	11:00	19.13	21.05	11.34
9/11/2001	12:00	19.73	21.05	11.91
9/11/2001	13:00	20.03	21.67	12.78
9/11/2001	14:00	20.63	21.67	14.52
9/11/2001	15:00	20.94	21.67	15.98

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/11/2001	16:00	21.25	21.67	17.16
9/11/2001	17:00	20.94	21.67	18.35
9/11/2001	18:00	20.94	21.36	19.25
9/11/2001	19:00	20.63	21.36	19.55
9/11/2001	20:00	20.33	21.05	19.55
9/11/2001	21:00	20.33	21.05	19.25
9/11/2001	22:00	20.03	21.05	18.95
9/11/2001	23:00	19.73	20.74	18.35
9/12/2001	0:00	19.73	20.74	17.76
9/12/2001	1:00	19.73	20.74	17.16
9/12/2001	2:00	19.43	20.74	16.57
9/12/2001	3:00	19.43	20.74	16.27
9/12/2001	4:00	19.43	20.74	15.69
9/12/2001	5:00	19.13	20.74	15.39
9/12/2001	6:00	19.13	20.74	14.81
9/12/2001	7:00	19.13	20.74	14.52
9/12/2001	8:00	19.13	20.74	14.23
9/12/2001	9:00	19.13	20.74	13.94
9/12/2001	10:00	19.43	20.74	13.65
9/12/2001	11:00	19.43	21.05	13.36
9/12/2001	12:00	19.73	21.36	13.65
9/12/2001	13:00	20.33	21.36	13.65
9/12/2001	14:00	20.63	21.36	14.23
9/12/2001	15:00	20.63	21.36	15.39
9/12/2001	16:00	20.63	21.36	16.27
9/12/2001	17:00	20.63	21.05	16.86
9/12/2001	18:00	20.33	21.05	17.16
9/12/2001	19:00	20.03	21.05	17.46
9/12/2001	20:00	20.03	21.05	17.46
9/12/2001	21:00	20.03	20.74	16.57
9/12/2001	22:00	19.73	20.74	16.27
9/12/2001	23:00	19.73	20.74	15.69
9/13/2001	0:00	19.43	20.74	15.39
9/13/2001	1:00	19.43	20.74	15.11
9/13/2001	2:00	19.43	20.74	14.81
9/13/2001	3:00	19.13	20.74	14.23
9/13/2001	4:00	19.13	20.74	13.65
9/13/2001	5:00	19.13	20.74	13.36
9/13/2001	6:00	19.13	20.44	13.07
9/13/2001	7:00	18.83	20.44	12.78
9/13/2001	8:00	18.83	20.44	12.49
9/13/2001	9:00	18.83	20.44	12.21

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/13/2001	10:00	19.13	20.74	12.21
9/13/2001	11:00	19.43	21.05	12.21
9/13/2001	12:00	19.73	21.36	12.78
9/13/2001	13:00	20.33	21.67	13.65
9/13/2001	14:00	20.63	21.67	15.11
9/13/2001	15:00	20.63	21.36	16.57
9/13/2001	16:00	20.63	21.36	17.76
9/13/2001	17:00	20.94	21.36	18.65
9/13/2001	18:00	20.63	21.36	19.25
9/13/2001	19:00	20.63	21.05	19.55
9/13/2001	20:00	20.33	21.05	18.95
9/13/2001	21:00	20.33	21.05	18.35
9/13/2001	22:00	20.03	20.74	17.46
9/13/2001	23:00	19.73	20.74	17.16
9/14/2001	0:00	19.73	20.74	16.57
9/14/2001	1:00	19.43	20.74	16.27
9/14/2001	2:00	19.43	20.74	15.69
9/14/2001	3:00	19.13	20.74	15.11
9/14/2001	4:00	19.13	20.44	14.81
9/14/2001	5:00	19.13	20.44	14.23
9/14/2001	6:00	18.83	20.44	13.94
9/14/2001	7:00	18.83	20.44	13.65
9/14/2001	8:00	18.83	20.44	13.07
9/14/2001	9:00	18.83	20.44	12.78
9/14/2001	10:00	18.83	20.74	12.49
9/14/2001	11:00	19.43	21.05	12.49
9/14/2001	12:00	19.73	21.36	12.78
9/14/2001	13:00	20.03	21.36	13.36
9/14/2001	14:00	20.63	21.67	14.23
9/14/2001	15:00	20.94	21.67	15.39
9/14/2001	16:00	20.94	21.67	16.57
9/14/2001	17:00	21.25	21.67	17.46
9/14/2001	18:00	20.94	21.36	18.35
9/14/2001	19:00	20.94	21.36	18.65
9/14/2001	20:00	20.63	21.05	18.35
9/14/2001	21:00	20.33	21.05	17.46
9/14/2001	22:00	20.03	20.74	16.86
9/14/2001	23:00	19.73	20.74	16.57
9/15/2001	0:00	19.43	20.74	15.98
9/15/2001	1:00	19.43	20.74	15.69
9/15/2001	2:00	19.13	20.44	15.39
9/15/2001	3:00	19.13	20.44	14.81

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/15/2001	4:00	19.13	20.44	14.23
9/15/2001	5:00	18.83	20.44	13.94
9/15/2001	6:00	18.83	20.44	13.36
9/15/2001	7:00	18.83	20.44	13.07
9/15/2001	8:00	18.83	20.44	12.49
9/15/2001	9:00	18.83	20.44	11.91
9/15/2001	10:00	18.83	20.74	11.63
9/15/2001	11:00	19.13	21.05	11.63
9/15/2001	12:00	19.43	21.05	11.91
9/15/2001	13:00	20.03	21.67	12.21
9/15/2001	14:00	20.33	21.67	13.07
9/15/2001	15:00	20.94	21.67	13.94
9/15/2001	16:00	20.94	21.67	14.81
9/15/2001	17:00	21.25	21.67	15.98
9/15/2001	18:00	21.25	21.36	16.86
9/15/2001	19:00	20.94	21.05	17.46
9/15/2001	20:00	20.63	21.05	17.76
9/15/2001	21:00	20.33	21.05	17.76
9/15/2001	22:00	20.03	20.74	17.16
9/15/2001	23:00	19.73	20.74	16.86
9/16/2001	0:00	19.43	20.74	16.57
9/16/2001	1:00	19.43	20.74	15.98
9/16/2001	2:00	19.13	20.74	15.69
9/16/2001	3:00	19.13	20.74	15.11
9/16/2001	4:00	19.13	20.74	14.81
9/16/2001	5:00	19.13	20.44	14.52
9/16/2001	6:00	19.13	20.44	13.94
9/16/2001	7:00	18.83	20.44	13.65
9/16/2001	8:00	18.83	20.44	13.07
9/16/2001	9:00	18.83	20.44	12.78
9/16/2001	10:00	19.13	20.74	12.78
9/16/2001	11:00	19.43	21.05	12.78
9/16/2001	12:00	19.73	21.36	12.78
9/16/2001	13:00	20.03	21.36	13.36
9/16/2001	14:00	20.63	21.36	13.94
9/16/2001	15:00	20.63	21.36	15.11
9/16/2001	16:00	20.63	21.36	15.98
9/16/2001	17:00	20.63	21.36	16.86
9/16/2001	18:00	20.63	21.36	16.86
9/16/2001	19:00	20.33	21.05	16.86
9/16/2001	20:00	20.33	21.05	16.57
9/16/2001	21:00	20.03	20.74	16.27

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/16/2001	22:00	19.73	20.74	15.69
9/16/2001	23:00	19.73	20.74	15.11
9/17/2001	0:00	19.43	20.74	14.52
9/17/2001	1:00	19.43	20.74	13.94
9/17/2001	2:00	19.13	20.44	13.65
9/17/2001	3:00	19.13	20.44	13.36
9/17/2001	4:00	19.13	20.44	12.78
9/17/2001	5:00	18.83	20.44	12.49
9/17/2001	6:00	18.83	20.44	12.21
9/17/2001	7:00	18.83	20.44	11.91
9/17/2001	8:00	18.83	20.44	11.34
9/17/2001	9:00	18.83	20.44	11.05
9/17/2001	10:00	18.83	20.74	11.05
9/17/2001	11:00	19.13	21.05	11.05
9/17/2001	12:00	19.43	21.05	11.34
9/17/2001	13:00	20.03	21.36	11.91
9/17/2001	14:00	20.03	21.05	13.07
9/17/2001	15:00	20.03	21.36	14.52
9/17/2001	16:00	20.33	21.36	15.98
9/17/2001	17:00	20.33	21.36	16.86
9/17/2001	18:00	20.33	21.05	17.46
9/17/2001	19:00	20.03	21.05	17.76
9/17/2001	20:00	20.03	20.74	17.46
9/17/2001	21:00	19.73	20.74	16.86
9/17/2001	22:00	19.73	20.74	15.98
9/17/2001	23:00	19.43	20.74	15.39
9/18/2001	0:00	19.13	20.44	14.81
9/18/2001	1:00	19.13	20.44	14.23
9/18/2001	2:00	19.13	20.44	13.94
9/18/2001	3:00	18.83	20.44	13.65
9/18/2001	4:00	18.83	20.44	13.07
9/18/2001	5:00	18.83	20.44	12.78
9/18/2001	6:00	18.53	20.44	12.21
9/18/2001	7:00	18.53	20.44	11.91
9/18/2001	8:00	18.53	20.44	11.34
9/18/2001	9:00	18.53	20.44	11.05
9/18/2001	10:00	18.53	20.44	10.76
9/18/2001	11:00	18.83	20.74	10.76
9/18/2001	12:00	19.43	21.05	11.05
9/18/2001	13:00	19.73	21.67	11.34
9/18/2001	14:00	20.33	21.36	12.21
9/18/2001	15:00	20.63	21.67	13.65

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/18/2001	16:00	20.63	21.36	14.81
9/18/2001	17:00	20.63	21.36	15.98
9/18/2001	18:00	20.63	21.36	16.86
9/18/2001	19:00	20.33	21.05	17.16
9/18/2001	20:00	20.03	21.05	17.16
9/18/2001	21:00	20.03	20.74	16.86
9/18/2001	22:00	19.73	20.74	16.57
9/18/2001	23:00	19.43	20.74	16.27
9/19/2001	0:00	19.43	20.44	15.98
9/19/2001	1:00	19.13	20.44	15.39
9/19/2001	2:00	19.13	20.44	14.81
9/19/2001	3:00	18.83	20.44	14.23
9/19/2001	4:00	18.83	20.44	13.65
9/19/2001	5:00	18.83	20.44	13.07
9/19/2001	6:00	18.53	20.44	12.49
9/19/2001	7:00	18.53	20.44	12.21
9/19/2001	8:00	18.53	20.44	11.63
9/19/2001	9:00	18.53	20.44	11.34
9/19/2001	10:00	18.53	20.74	11.05
9/19/2001	11:00	19.13	20.74	11.05
9/19/2001	12:00	19.43	21.05	11.05
9/19/2001	13:00	19.73	21.67	11.63
9/19/2001	14:00	20.33	21.67	12.49
9/19/2001	15:00	20.63	21.67	13.65
9/19/2001	16:00	20.94	21.67	14.81
9/19/2001	17:00	20.94	21.36	15.69
9/19/2001	18:00	20.63	21.36	16.57
9/19/2001	19:00	20.33	21.05	16.86
9/19/2001	20:00	20.03	21.05	17.16
9/19/2001	21:00	20.03	20.74	16.86
9/19/2001	22:00	19.73	20.74	16.57
9/19/2001	23:00	19.43	20.74	16.27
9/20/2001	0:00	19.43	20.44	15.69
9/20/2001	1:00	19.13	20.44	15.39
9/20/2001	2:00	19.13	20.44	14.81
9/20/2001	3:00	18.83	20.44	14.23
9/20/2001	4:00	18.83	20.44	13.65
9/20/2001	5:00	18.83	20.44	13.36
9/20/2001	6:00	18.53	20.44	12.78
9/20/2001	7:00	18.53	20.44	12.49
9/20/2001	8:00	18.53	20.44	11.91
9/20/2001	9:00	18.53	20.44	11.63

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/20/2001	10:00	18.53	20.74	11.34
9/20/2001	11:00	18.83	20.74	11.05
9/20/2001	12:00	19.43	21.05	11.34
9/20/2001	13:00	19.73	21.67	11.63
9/20/2001	14:00	20.33	21.36	12.21
9/20/2001	15:00	20.63	21.67	13.07
9/20/2001	16:00	20.63	21.67	14.23
9/20/2001	17:00	20.63	21.36	15.11
9/20/2001	18:00	20.63	21.36	15.98
9/20/2001	19:00	20.33	21.05	16.27
9/20/2001	20:00	20.03	21.05	16.27
9/20/2001	21:00	20.03	20.74	15.98
9/20/2001	22:00	19.73	20.74	15.69
9/20/2001	23:00	19.43	20.74	15.39
9/21/2001	0:00	19.43	20.74	15.11
9/21/2001	1:00	19.13	20.44	14.81
9/21/2001	2:00	19.13	20.44	14.23
9/21/2001	3:00	18.83	20.44	13.94
9/21/2001	4:00	18.83	20.44	13.36
9/21/2001	5:00	18.83	20.44	13.07
9/21/2001	6:00	18.83	20.44	12.49
9/21/2001	7:00	18.53	20.44	12.21
9/21/2001	8:00	18.53	20.44	11.91
9/21/2001	9:00	18.53	20.44	11.34
9/21/2001	10:00	18.83	20.74	11.34
9/21/2001	11:00	19.13	20.74	11.05
9/21/2001	12:00	19.43	21.36	11.34
9/21/2001	13:00	20.03	21.67	11.91
9/21/2001	14:00	20.33	21.36	12.49
9/21/2001	15:00	20.63	21.67	13.65
9/21/2001	16:00	20.63	21.36	15.11
9/21/2001	17:00	20.63	21.36	16.27
9/21/2001	18:00	20.63	21.36	16.86
9/21/2001	19:00	20.33	21.05	17.46
9/21/2001	20:00	20.33	21.05	17.16
9/21/2001	21:00	20.03	20.74	16.86
9/21/2001	22:00	19.73	20.74	16.27
9/21/2001	23:00	19.43	20.74	15.98
9/22/2001	0:00	19.43	20.44	15.39
9/22/2001	1:00	19.13	20.44	15.11
9/22/2001	2:00	19.13	20.44	14.52
9/22/2001	3:00	18.83	20.44	13.94

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/22/2001	4:00	18.83	20.44	13.65
9/22/2001	5:00	18.83	20.44	13.07
9/22/2001	6:00	18.53	20.44	12.78
9/22/2001	7:00	18.53	20.44	12.49
9/22/2001	8:00	18.53	20.44	11.91
9/22/2001	9:00	18.53	20.44	11.34
9/22/2001	10:00	18.53	20.74	11.05
9/22/2001	11:00	19.13	20.74	11.05
9/22/2001	12:00	19.43	21.36	11.05
9/22/2001	13:00	19.73	21.67	11.34
9/22/2001	14:00	20.33	21.36	11.91
9/22/2001	15:00	20.63	21.36	12.78
9/22/2001	16:00	20.63	21.67	13.65
9/22/2001	17:00	20.63	21.36	14.52
9/22/2001	18:00	20.63	21.36	15.11
9/22/2001	19:00	20.33	21.05	15.39
9/22/2001	20:00	20.33	20.74	15.11
9/22/2001	21:00	20.03	20.74	14.81
9/22/2001	22:00	19.73	20.74	14.52
9/22/2001	23:00	19.43	20.74	14.23
9/23/2001	0:00	19.43	20.44	13.94
9/23/2001	1:00	19.13	20.44	13.65
9/23/2001	2:00	19.13	20.44	13.36
9/23/2001	3:00	18.83	20.44	13.07
9/23/2001	4:00	18.83	20.44	12.49
9/23/2001	5:00	18.83	20.44	12.21
9/23/2001	6:00	18.53	20.44	11.91
9/23/2001	7:00	18.53	20.44	11.63
9/23/2001	8:00	18.53	20.44	11.34
9/23/2001	9:00	18.53	20.44	10.76
9/23/2001	10:00	18.53	20.44	10.76
9/23/2001	11:00	18.83	20.74	10.47
9/23/2001	12:00	19.13	21.36	10.76
9/23/2001	13:00	19.73	21.36	10.76
9/23/2001	14:00	20.03	21.36	11.34
9/23/2001	15:00	20.33	21.36	12.49
9/23/2001	16:00	20.63	21.36	13.36
9/23/2001	17:00	20.63	21.36	14.23
9/23/2001	18:00	20.63	21.05	14.81
9/23/2001	19:00	20.33	21.05	15.69
9/23/2001	20:00	20.03	21.05	15.98
9/23/2001	21:00	20.03	20.74	15.98

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/23/2001	22:00	19.73	20.74	15.98
9/23/2001	23:00	19.43	20.74	15.69
9/24/2001	0:00	19.43	20.44	15.39
9/24/2001	1:00	19.13	20.44	15.11
9/24/2001	2:00	18.83	20.44	14.81
9/24/2001	3:00	18.83	20.44	14.23
9/24/2001	4:00	18.83	20.44	13.94
9/24/2001	5:00	18.53	20.44	13.36
9/24/2001	6:00	18.53	20.44	13.07
9/24/2001	7:00	18.53	20.44	12.49
9/24/2001	8:00	18.53	20.44	12.21
9/24/2001	9:00	18.23	20.44	11.63
9/24/2001	10:00	18.53	20.44	11.34
9/24/2001	11:00	18.83	20.74	11.34
9/24/2001	12:00	19.13	21.36	11.34
9/24/2001	13:00	19.73	21.36	11.63
9/24/2001	14:00	20.03	21.36	12.21
9/24/2001	15:00	20.33	21.36	12.78
9/24/2001	16:00	20.63	21.67	13.94
9/24/2001	17:00	20.63	21.36	14.81
9/24/2001	18:00	20.63	21.36	15.69
9/24/2001	19:00	20.33	21.05	15.98
9/24/2001	20:00	20.33	21.05	16.27
9/24/2001	21:00	20.03	20.74	16.27
9/24/2001	22:00	19.73	20.74	16.27
9/24/2001	23:00	19.43	20.74	15.98
9/25/2001	0:00	19.43	20.44	15.69
9/25/2001	1:00	19.13	20.44	15.39
9/25/2001	2:00	19.13	20.44	14.81
9/25/2001	3:00	18.83	20.44	14.52
9/25/2001	4:00	18.83	20.44	13.94
9/25/2001	5:00	18.53	20.44	13.65
9/25/2001	6:00	18.53	20.44	13.07
9/25/2001	7:00	18.53	20.44	12.78
9/25/2001	8:00	18.53	20.44	12.21
9/25/2001	9:00	18.53	20.44	11.91
9/25/2001	10:00	18.53	20.74	11.63
9/25/2001	11:00	18.83	20.74	11.34
9/25/2001	12:00	19.43	21.36	11.63
9/25/2001	13:00	19.73	21.36	11.91
9/25/2001	14:00	20.03	21.36	12.49
9/25/2001	15:00	20.63	21.36	13.36

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/25/2001	16:00	20.63	21.36	14.52
9/25/2001	17:00	20.63	21.05	15.11
9/25/2001	18:00	20.63	21.05	15.69
9/25/2001	19:00	20.33	21.05	16.27
9/25/2001	20:00	20.03	20.74	16.57
9/25/2001	21:00	19.73	20.74	16.57
9/25/2001	22:00	19.43	20.74	16.57
9/25/2001	23:00	19.13	20.44	16.27
9/26/2001	0:00	18.83	20.44	15.69
9/26/2001	1:00	18.83	20.44	15.11
9/26/2001	2:00	18.53	20.44	14.52
9/26/2001	3:00	18.53	20.44	13.94
9/26/2001	4:00	18.83	20.44	13.36
9/26/2001	5:00	18.53	20.44	13.07
9/26/2001	6:00	18.53	20.44	12.49
9/26/2001	7:00	18.53	20.44	12.21
9/26/2001	8:00	18.53	20.44	11.91
9/26/2001	9:00	18.53	20.44	11.34
9/26/2001	10:00	18.53	20.74	11.34
9/26/2001	11:00	19.13	20.74	11.05
9/26/2001	12:00	19.43	21.36	11.34
9/26/2001	13:00	19.73	21.36	11.63
9/26/2001	14:00	20.33	21.36	12.21
9/26/2001	15:00	20.63	21.36	13.07
9/26/2001	16:00	20.63	21.36	13.65
9/26/2001	17:00	20.63	21.36	14.23
9/26/2001	18:00	20.63	21.05	14.81
9/26/2001	19:00	20.63	21.05	15.11
9/26/2001	20:00	20.33	21.05	15.11
9/26/2001	21:00	20.03	20.74	15.11
9/26/2001	22:00	19.73	20.74	15.11
9/26/2001	23:00	19.43	20.44	14.81
9/27/2001	0:00	19.43	20.44	14.52
9/27/2001	1:00	19.13	20.44	14.23
9/27/2001	2:00	19.13	20.44	13.65
9/27/2001	3:00	18.83	20.44	13.07
9/27/2001	4:00	18.83	20.44	12.78
9/27/2001	5:00	18.53	20.44	12.21
9/27/2001	6:00	18.53	20.44	11.91
9/27/2001	7:00	18.53	20.44	11.63
9/27/2001	8:00	18.53	20.14	11.34
9/27/2001	9:00	18.23	20.44	10.76

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/27/2001	10:00	18.53	20.74	10.47
9/27/2001	11:00	18.83	20.74	10.47
9/27/2001	12:00	19.43	21.36	10.76
9/27/2001	13:00	19.73	21.36	11.05
9/27/2001	14:00	20.03	21.36	11.63
9/27/2001	15:00	20.63	21.36	12.49
9/27/2001	16:00	20.63	21.36	13.36
9/27/2001	17:00	20.63	21.36	13.94
9/27/2001	18:00	20.63	21.36	14.23
9/27/2001	19:00	20.33	21.05	14.52
9/27/2001	20:00	20.33	21.05	14.52
9/27/2001	21:00	19.73	20.74	14.52
9/27/2001	22:00	19.73	20.74	14.52
9/27/2001	23:00	19.43	20.44	14.52
9/28/2001	0:00	19.13	20.44	13.94
9/28/2001	1:00	18.83	20.44	13.65
9/28/2001	2:00	18.83	20.44	13.36
9/28/2001	3:00	18.53	20.44	12.78
9/28/2001	4:00	18.53	20.44	12.49
9/28/2001	5:00	18.53	20.44	11.91
9/28/2001	6:00	18.53	20.44	11.63
9/28/2001	7:00	18.23	20.44	11.34
9/28/2001	8:00	18.23	20.14	10.76
9/28/2001	9:00	18.23	20.44	10.47
9/28/2001	10:00	18.53	20.74	10.19
9/28/2001	11:00	18.83	20.74	10.19
9/28/2001	12:00	19.43	21.36	10.47
9/28/2001	13:00	19.73	21.36	10.76
9/28/2001	14:00	20.03	21.36	11.34
9/28/2001	15:00	20.63	21.36	11.91
9/28/2001	16:00	20.63	21.36	12.78
9/28/2001	17:00	20.63	21.36	13.36
9/28/2001	18:00	20.63	21.05	13.65
9/28/2001	19:00	20.33	21.05	13.94
9/28/2001	20:00	20.03	20.74	13.94
9/28/2001	21:00	19.73	20.74	14.23
9/28/2001	22:00	19.73	20.74	14.23
9/28/2001	23:00	19.43	20.74	14.23
9/29/2001	0:00	19.43	20.44	13.94
9/29/2001	1:00	19.13	20.44	13.65
9/29/2001	2:00	19.13	20.44	13.36
9/29/2001	3:00	19.13	20.44	13.07

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/29/2001	4:00	19.13	20.44	12.49
9/29/2001	5:00	18.83	20.44	12.21
9/29/2001	6:00	18.83	20.44	11.91
9/29/2001	7:00	18.83	20.44	11.91
9/29/2001	8:00	18.53	20.44	11.63
9/29/2001	9:00	18.83	20.44	11.34
9/29/2001	10:00	18.83	20.74	11.34
9/29/2001	11:00	19.13	21.05	11.34
9/29/2001	12:00	19.43	21.36	11.63
9/29/2001	13:00	19.73	21.36	11.91
9/29/2001	14:00	20.03	21.36	12.21
9/29/2001	15:00	20.33	21.36	12.78
9/29/2001	16:00	20.33	21.36	13.36
9/29/2001	17:00	20.33	21.36	13.94
9/29/2001	18:00	20.33	21.05	14.23
9/29/2001	19:00	20.03	20.74	14.23
9/29/2001	20:00	19.73	20.74	14.23
9/29/2001	21:00	19.73	20.74	13.94
9/29/2001	22:00	19.43	20.74	13.65
9/29/2001	23:00	19.43	20.44	13.36
9/30/2001	0:00	19.13	20.44	13.07
9/30/2001	1:00	19.13	20.44	12.78
9/30/2001	2:00	18.83	20.44	12.49
9/30/2001	3:00	18.83	20.44	12.21
9/30/2001	4:00	18.83	20.44	11.91
9/30/2001	5:00	18.53	20.44	11.34
9/30/2001	6:00	18.53	20.44	11.05
9/30/2001	7:00	18.53	20.14	10.76
9/30/2001	8:00	18.53	20.14	10.47
9/30/2001	9:00	18.53	20.44	10.19
9/30/2001	10:00	18.53	20.44	10.19
9/30/2001	11:00	18.83	20.74	10.19
9/30/2001	12:00	19.13	21.36	10.47
9/30/2001	13:00	19.73	21.36	10.76
9/30/2001	14:00	20.03	21.36	11.05
9/30/2001	15:00	20.33	21.36	11.63
9/30/2001	16:00	20.33	21.36	11.91
9/30/2001	17:00	20.63	21.36	12.49
9/30/2001	18:00	20.33	21.05	12.78
9/30/2001	19:00	20.33	21.05	13.07
9/30/2001	20:00	20.03	20.74	13.36
9/30/2001	21:00	19.73	20.74	13.36

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
9/30/2001	22:00	19.43	20.74	13.07
9/30/2001	23:00	19.43	20.44	13.07
10/1/2001	0:00	19.13	20.44	12.78
10/1/2001	1:00	19.13	20.44	12.78
10/1/2001	2:00	18.83	20.44	12.49
10/1/2001	3:00	18.83	20.44	12.21
10/1/2001	4:00	18.53	20.44	11.91
10/1/2001	5:00	18.53	20.44	11.63
10/1/2001	6:00	18.53	20.44	11.34
10/1/2001	7:00	18.53	20.44	11.05
10/1/2001	8:00	18.53	20.14	10.76
10/1/2001	9:00	18.53	20.44	10.47
10/1/2001	10:00	18.53	20.74	10.19
10/1/2001	11:00	18.83	20.74	10.19
10/1/2001	12:00	19.13	21.05	10.47
10/1/2001	13:00	19.73	21.36	10.76
10/1/2001	14:00	20.03	21.36	11.05
10/1/2001	15:00	20.33	21.36	11.63
10/1/2001	16:00	20.33	21.36	11.91
10/1/2001	17:00	20.33	21.36	12.49
10/1/2001	18:00	20.33	21.05	12.78
10/1/2001	19:00	20.03	21.05	13.07
10/1/2001	20:00	20.03	20.74	13.07
10/1/2001	21:00	19.73	20.74	13.07
10/1/2001	22:00	19.43	20.74	13.07
10/1/2001	23:00	19.43	20.44	12.78
10/2/2001	0:00	19.13	20.44	12.78
10/2/2001	1:00	19.13	20.44	12.49
10/2/2001	2:00	18.83	20.44	12.21
10/2/2001	3:00	18.83	20.44	11.91
10/2/2001	4:00	18.53	20.44	11.63
10/2/2001	5:00	18.53	20.44	11.34
10/2/2001	6:00	18.53	20.44	11.05
10/2/2001	7:00	18.53	20.44	10.76
10/2/2001	8:00	18.23	20.44	10.76
10/2/2001	9:00	18.23	20.44	10.47
10/2/2001	10:00	18.53	20.44	10.19
10/2/2001	11:00	18.83	20.74	10.19
10/2/2001	12:00	19.13	21.05	10.47
10/2/2001	13:00	19.73	21.36	10.76
10/2/2001	14:00	20.03	21.36	11.05
10/2/2001	15:00	20.33	21.36	11.34

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
10/2/2001	16:00	20.33	21.36	11.91
10/2/2001	17:00	20.33	21.05	12.21
10/2/2001	18:00	20.03	21.05	12.49
10/2/2001	19:00	20.03	20.74	12.49
10/2/2001	20:00	19.73	20.74	12.21
10/2/2001	21:00	19.43	20.44	11.91
10/2/2001	22:00	19.43	20.44	11.63
10/2/2001	23:00	19.13	20.44	11.63
10/3/2001	0:00	18.83	20.44	11.34
10/3/2001	1:00	18.83	20.44	11.05
10/3/2001	2:00	18.53	20.44	10.47
10/3/2001	3:00	18.53	20.14	10.19
10/3/2001	4:00	18.23	20.14	9.61
10/3/2001	5:00	18.23	20.14	9.32
10/3/2001	6:00	18.23	20.14	9.04
10/3/2001	7:00	18.23	20.14	8.46
10/3/2001	8:00	17.94	20.14	8.17
10/3/2001	9:00	17.94	20.14	7.88
10/3/2001	10:00	17.94	20.44	7.59
10/3/2001	11:00	18.53	20.74	7.59
10/3/2001	12:00	18.83	21.05	7.88
10/3/2001	13:00	19.43	21.05	8.17
10/3/2001	14:00	19.73	21.05	8.75
10/3/2001	15:00	20.03	21.36	9.04
10/3/2001	16:00	20.33	21.05	9.61
10/3/2001	17:00	20.33	21.05	10.19
10/3/2001	18:00	20.03	21.05	10.47
10/3/2001	19:00	20.03	20.74	10.76
10/3/2001	20:00	19.73	20.74	11.05
10/3/2001	21:00	19.43	20.44	11.05
10/3/2001	22:00	19.13	20.44	10.76
10/3/2001	23:00	19.13	20.44	10.76
10/4/2001	0:00	18.83	20.44	10.47
10/4/2001	1:00	18.53	20.44	10.47
10/4/2001	2:00	18.53	20.14	9.9
10/4/2001	3:00	18.53	20.14	9.61
10/4/2001	4:00	18.23	20.14	9.32
10/4/2001	5:00	18.23	20.14	8.75
10/4/2001	6:00	18.23	20.14	8.46
10/4/2001	7:00	17.94	20.14	7.88
10/4/2001	8:00	17.94	20.14	7.59
10/4/2001	9:00	17.94	20.14	7.31

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
10/4/2001	10:00	17.94	20.44	7.02
10/4/2001	11:00	18.23	20.74	7.31
10/4/2001	12:00	18.83	21.05	7.31
10/4/2001	13:00	19.43	21.05	7.88
10/4/2001	14:00	19.73	21.05	8.46
10/4/2001	15:00	20.03	21.36	9.04
10/4/2001	16:00	20.03	21.05	9.61
10/4/2001	17:00	20.33	21.05	10.19
10/4/2001	18:00	20.03	20.74	10.47
10/4/2001	19:00	20.03	20.74	10.47
10/4/2001	20:00	19.73	20.74	10.47
10/4/2001	21:00	19.43	20.44	10.19
10/4/2001	22:00	19.13	20.44	10.19
10/4/2001	23:00	18.83	20.44	10.19
10/5/2001	0:00	18.83	20.44	9.9
10/5/2001	1:00	18.53	20.44	9.61
10/5/2001	2:00	18.53	20.14	9.04
10/5/2001	3:00	18.53	20.14	8.75
10/5/2001	4:00	18.23	20.14	8.46
10/5/2001	5:00	18.23	20.14	8.17
10/5/2001	6:00	18.23	20.14	8.17
10/5/2001	7:00	18.23	20.14	7.88
10/5/2001	8:00	18.23	20.14	7.59
10/5/2001	9:00	17.94	20.14	7.31
10/5/2001	10:00	18.23	20.44	7.31
10/5/2001	11:00	18.53	20.74	7.02
10/5/2001	12:00	18.83	21.05	7.31
10/5/2001	13:00	19.43	21.05	7.59
10/5/2001	14:00	19.73	21.05	8.17
10/5/2001	15:00	20.03	21.05	8.46
10/5/2001	16:00	20.03	21.05	9.04
10/5/2001	17:00	20.03	21.05	9.61
10/5/2001	18:00	20.03	20.74	9.9
10/5/2001	19:00	19.73	20.74	9.9
10/5/2001	20:00	19.73	20.74	9.9
10/5/2001	21:00	19.43	20.44	9.9
10/5/2001	22:00	19.13	20.44	9.61
10/5/2001	23:00	18.83	20.44	9.61
10/6/2001	0:00	18.83	20.44	9.32
10/6/2001	1:00	18.53	20.44	9.04
10/6/2001	2:00	18.53	20.14	8.75
10/6/2001	3:00	18.23	20.14	8.46

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
10/6/2001	4:00	18.23	20.14	8.17
10/6/2001	5:00	18.23	20.14	7.88
10/6/2001	6:00	17.94	20.14	7.59
10/6/2001	7:00	17.94	20.14	7.31
10/6/2001	8:00	17.94	20.14	7.02
10/6/2001	9:00	17.94	20.14	6.73
10/6/2001	10:00	18.23	20.44	6.73
10/6/2001	11:00	18.23	20.74	6.44
10/6/2001	12:00	18.83	20.74	6.73
10/6/2001	13:00	19.13	20.74	7.31
10/6/2001	14:00	19.43	20.74	7.88
10/6/2001	15:00	19.43	20.74	8.17
10/6/2001	16:00	19.73	21.05	8.75
10/6/2001	17:00	19.73	20.74	9.32
10/6/2001	18:00	19.43	20.74	9.61
10/6/2001	19:00	19.43	20.74	10.19
10/6/2001	20:00	19.13	20.44	10.19
10/6/2001	21:00	18.83	20.44	10.19
10/6/2001	22:00	18.53	20.44	10.19
10/6/2001	23:00	18.23	20.44	9.9
10/7/2001	0:00	18.23	20.44	9.9
10/7/2001	1:00	18.23	20.14	9.61
10/7/2001	2:00	18.23	20.14	9.32
10/7/2001	3:00	17.94	20.14	9.04
10/7/2001	4:00	17.94	20.14	8.75
10/7/2001	5:00	17.94	20.14	8.46
10/7/2001	6:00	17.94	20.14	8.17
10/7/2001	7:00	17.94	20.14	7.88
10/7/2001	8:00	17.94	20.14	7.59
10/7/2001	9:00	17.94	20.14	7.31
10/7/2001	10:00	17.94	20.14	7.02
10/7/2001	11:00	18.23	20.44	7.31
10/7/2001	12:00	18.53	20.74	7.59
10/7/2001	13:00	19.13	21.05	
10/7/2001	14:00	19.43	21.05	
10/7/2001	15:00	19.73	21.05	
10/7/2001	16:00	20.03	21.05	
10/7/2001	17:00	20.03	21.05	
10/7/2001	18:00	20.03	20.74	
10/7/2001	19:00	20.03	20.74	
10/7/2001	20:00	19.73	20.74	
10/7/2001	21:00	19.43	20.44	

<b>Date</b>	<b>Time (hr:min)</b>	<b>North Pond Temperature (°C)</b>	<b>Lily Pond Temperature (°C)</b>	<b>Utah Lake Temperature (°C)</b>
10/7/2001	22:00	19.13	20.44	
10/7/2001	23:00	19.13	20.44	
10/8/2001	0:00	18.83	20.44	
10/8/2001	1:00	18.53	20.44	
10/8/2001	2:00	18.53	20.14	
10/8/2001	3:00	18.23	20.14	
10/8/2001	4:00	18.23	20.14	
10/8/2001	5:00	17.94	20.14	
10/8/2001	6:00	17.94	20.14	
10/8/2001	7:00		20.14	
10/8/2001	8:00		20.14	
10/8/2001	9:00		20.14	

**Table 39.** Water quality data collected using the Hydrolab DataSonde Water Quality Monitoring Units. Missing values (blanks) occurred when sonde came out of the water.

Site	Date	Time (hr:min)	Temp (°C)	pH	Cond (ms/cm)	Sal (ppt)	DO% (mg/L)
North Pond	07/11/01	14:00	21.49	7.39	2.214	1.2	62.0 4.68
North Pond	07/11/01	14:30	21.79	7.39	2.211	1.2	62.3 4.68
North Pond	07/11/01	15:00	22.02	7.40	2.208	1.2	63.1 4.72
North Pond	07/11/01	15:30	22.18	7.43	2.21	1.2	65.7 4.89
North Pond	07/11/01	16:00	22.39	7.39	2.207	1.2	61.5 4.56
North Pond	07/11/01	16:30	22.50	7.41	2.214	1.2	63.7 4.72
North Pond	07/11/01	17:00	22.54	7.37	2.209	1.2	62.0 4.59
North Pond	07/11/01	17:30	22.52	7.37	2.208	1.2	66.2 4.90
North Pond	07/11/01	18:00	22.45	7.31	2.208	1.2	60.6 4.49
North Pond	07/11/01	18:30	22.38	7.36	2.212	1.2	62.9 4.67
North Pond	07/11/01	19:00	22.22	7.37	2.211	1.2	63.5 4.73
North Pond	07/11/01	19:30	22.07	7.35	2.209	1.2	62.7 4.68
North Pond	07/11/01	20:00	21.88	7.36	2.207	1.2	60.4 4.53
North Pond	07/11/01	20:30	21.49	7.33	2.208	1.2	61.7 4.65
North Pond	07/11/01	21:00	21.40	7.39	2.213	1.2	62.9 4.76
North Pond	07/11/01	21:30	21.22	7.33	2.211	1.2	55.2 4.19
North Pond	07/11/01	22:00	21.12	7.33	2.21	1.2	56.7 4.32
North Pond	07/11/01	22:30	20.84	7.29	2.213	1.2	55.3 4.23
North Pond	07/11/01	23:00	20.64	7.31	2.211	1.2	53.7 4.12
North Pond	07/11/01	23:30	20.50	7.35	2.21	1.2	52.2 4.02
North Pond	07/12/01	0:00	20.35	7.31	2.214	1.2	52.3 4.04
North Pond	07/12/01	0:30	20.19	7.35	2.213	1.2	53.4 4.14
North Pond	07/12/01	1:00	20.07	7.32	2.206	1.2	50.1 3.89
North Pond	07/12/01	1:30	19.84	7.33	2.21	1.2	51.8 4.04
North Pond	07/12/01	2:00	19.81	7.32	2.204	1.2	49.7 3.88
North Pond	07/12/01	2:30	19.55	7.34	2.207	1.2	49.8 3.90
North Pond	07/12/01	3:00	19.30	7.36	2.206	1.2	50.0 3.94
North Pond	07/12/01	3:30	19.15	7.37	2.21	1.2	49.1 3.89
North Pond	07/12/01	4:00	19.17	7.36	2.205	1.2	47.6 3.76
North Pond	07/12/01	4:30	19.06	7.35	2.204	1.2	47.3 3.75
North Pond	07/12/01	5:00	18.87	7.36	2.208	1.2	48.6 3.87
North Pond	07/12/01	5:30	18.77	7.37	2.208	1.2	47.6 3.79
North Pond	07/12/01	6:00	18.75	7.36	2.207	1.2	46.3 3.69
North Pond	07/12/01	6:30	18.86	7.35	2.208	1.2	45.8 3.65
North Pond	07/12/01	7:00	18.81	7.34	2.208	1.2	45.9 3.65
North Pond	07/12/01	7:30	18.77	7.34	2.208	1.2	45.4 3.62
North Pond	07/12/01	8:00	18.91	7.33	2.203	1.2	47.1 3.74
North Pond	07/12/01	8:30	18.93	7.33	2.203	1.2	46.1 3.66
North Pond	07/12/01	9:00	18.86	7.33	2.202	1.2	48.5 3.86
North Pond	07/12/01	9:30	18.93	7.34	2.203	1.2	50.2 3.98

<b>Site</b>	<b>Date</b>	<b>Time (hr:min)</b>	<b>Temp (°C)</b>	<b>pH</b>	<b>Cond (ms/cm)</b>	<b>Sal (ppt)</b>	<b>DO%</b>	<b>DO (mg/L)</b>
North Pond	07/12/01	10:00	19.20	7.34	2.199	1.2	51.9	4.10
North Pond	07/12/01	10:30	19.29	7.36	2.2	1.2	53.6	4.23
North Pond	07/12/01	11:00	19.65	7.38	2.203	1.2	55.5	4.34
North Pond	07/12/01	11:30	20.03	7.38	2.2	1.2	57.0	4.43
North Pond	07/12/01	12:00	20.33	7.40	2.208	1.2	59.0	4.56
North Pond	07/12/01	12:30	20.59	7.44	2.211	1.2	64.9	4.99
North Pond	07/12/01	13:00	20.92	7.46	2.208	1.2	67.1	5.12
North Pond	07/12/01	13:30	21.26	7.47	2.212	1.2	68.8	5.22
North Pond	07/12/01	14:00	21.63	7.51	2.21	1.2	71.4	5.37
North Pond	07/12/01	14:30	21.91	7.45	2.213	1.2	69.7	5.22
North Pond	07/12/01	15:00	22.18	7.55	2.21	1.2	75.8	5.65
North Pond	07/12/01	15:30	22.30	7.51	2.212	1.2	73.5	5.46
North Pond	07/12/01	16:00	22.52	7.44	2.208	1.2	69.9	5.18
North Pond	07/12/01	16:30	22.43	7.33	2.207	1.2	62.1	4.60
North Pond	07/12/01	17:00	22.41	7.28	2.207	1.2	58.3	4.32
North Pond	07/12/01	17:30	22.52	7.29	2.203	1.2	58.4	4.32
North Pond	07/12/01	18:00	22.16	7.18	2.193	1.2	50.6	3.77
North Pond	07/12/01	18:30	22.20	7.16	2.187	1.2	45.3	3.37
North Pond	07/12/01	19:00	22.07	7.21	2.197	1.2	49.7	3.71
North Pond	07/12/01	19:30	21.58	7.11	2.186	1.2	38.9	2.93
North Pond	07/12/01	20:00	21.58	7.12	2.186	1.2	38.0	2.86
North Pond	07/12/01	20:30	21.28	7.10	2.183	1.2	35.8	2.71
North Pond	07/12/01	21:00	21.13	7.09	2.181	1.2	32.4	2.46
North Pond	07/12/01	21:30	21.17	7.10	2.182	1.2	31.3	2.38
North Pond	07/12/01	22:00	21.13	7.10	2.187	1.2	31.5	2.40
North Pond	07/12/01	22:30	21.21	7.36	2.205	1.2	61.1	4.64
North Pond	07/12/01	23:00	21.01	7.29	2.203	1.2	55.9	4.26
North Pond	07/12/01	23:30	20.84	7.25	2.202	1.2	50.1	3.83
North Pond	07/13/01	0:00	20.68	7.26	2.206	1.2	50.5	3.87
North Pond	07/13/01	0:30	20.57	7.27	2.205	1.2	50.3	3.87
North Pond	07/13/01	1:00	20.42	7.27	2.209	1.2	49.0	3.78
North Pond	07/13/01	1:30	20.35	7.28	2.208	1.2	48.6	3.75
North Pond	07/13/01	2:00	20.22	7.28	2.207	1.2	48.2	3.73
North Pond	07/13/01	2:30	20.15	7.30	2.207	1.2	46.6	3.61
North Pond	07/13/01	3:00	20.03	7.30	2.2	1.2	47.1	3.66
North Pond	07/13/01	3:30	20.05	7.29	2.2	1.2	45.3	3.52
North Pond	07/13/01	4:00	20.00	7.28	2.205	1.2	43.3	3.37
North Pond	07/13/01	4:30	19.96	7.26	2.199	1.2	40.7	3.17
North Pond	07/13/01	5:00	19.88	7.26	2.193	1.2	40.9	3.19
North Pond	07/13/01	5:30	19.81	7.27	2.198	1.2	41.4	3.23
North Pond	07/13/01	6:00	19.72	7.26	2.197	1.2	41.1	3.21
North Pond	07/13/01	6:30	19.67	7.26	2.197	1.2	39.4	3.08
North Pond	07/13/01	7:00	19.67	7.25	2.197	1.2	38.5	3.01

<b>Site</b>	<b>Date</b>	<b>Time (hr:min)</b>	<b>Temp (°C)</b>	<b>pH</b>	<b>Cond (ms/cm)</b>	<b>Sal (ppt)</b>	<b>DO%</b>	<b>DO (mg/L)</b>
North Pond	07/13/01	7:30	19.63	7.25	2.191	1.2	38.0	2.98
North Pond	07/13/01	8:00	19.62	7.25	2.191	1.2	38.3	3.00
North Pond	07/13/01	8:30	19.60	7.25	2.191	1.2	38.9	3.05
North Pond	07/13/01	9:00	19.62	7.24	2.191	1.2	40.5	3.17
North Pond	07/13/01	9:30	19.67	7.25	2.191	1.2	42.3	3.31
North Pond	07/13/01	10:00	19.88	7.26	2.187	1.2	44.4	3.46
North Pond	07/13/01	10:30	20.01	7.28	2.188	1.2	50.8	3.95
North Pond	07/13/01	11:00	20.05	7.32	2.194	1.2	54.1	4.20
North Pond	07/13/01	11:30	20.35	7.34	2.197	1.2	58.9	4.55
North Pond	07/13/01	12:00	20.70	7.37	2.194	1.2	58.4	4.48
North Pond	07/13/01	12:30	21.06	7.39	2.198	1.2	60.6	4.61
North Pond	07/13/01	13:00	21.40	7.41	2.196	1.2	62.3	4.71
North Pond	07/13/01	13:30	21.77	7.43	2.2	1.2	62.5	4.69
North Pond	07/13/01	14:00	22.09	7.44	2.197	1.2	64.8	4.83
North Pond	07/13/01	14:30	22.38	7.37	2.201	1.2	66.8	4.96
North Pond	07/13/01	15:00	22.64	7.42	2.198	1.2	67.2	4.96
North Pond	07/13/01	15:30	22.61	7.32	2.204	1.2	62.8	4.64
North Pond	07/13/01	16:00	22.79	7.30	2.206	1.2	62.7	4.62
North Pond	07/13/01	16:30	22.88	7.35	2.201	1.2	63.8	4.69
North Pond	07/13/01	17:00	23.06	7.33	2.203	1.2	62.2	4.56
North Pond	07/13/01	17:30	22.81	7.25	2.194	1.2	58.0	4.27
North Pond	07/13/01	18:00	22.48	7.21	2.19	1.2	54.0	4.00
North Pond	07/13/01	18:30	22.43	7.23	2.19	1.2	54.8	4.06
North Pond	07/13/01	19:00	22.34	7.26	2.195	1.2	57.1	4.24
North Pond	07/13/01	19:30	22.14	7.21	2.192	1.2	53.2	3.97
North Pond	07/13/01	20:00	21.61	7.12	2.186	1.2	40.7	3.07
North Pond	07/13/01	20:30	21.40	7.11	2.184	1.2	37.4	2.83
North Pond	07/13/01	21:00	21.22	7.10	2.182	1.2	33.2	2.52
North Pond	07/13/01	21:30	21.12	7.09	2.181	1.2	30.7	2.34
North Pond	07/13/01	22:00	21.26	7.14	2.183	1.2	27.7	2.10
North Pond	07/13/01	22:30	21.38	7.34	2.195	1.2	44.4	3.36
North Pond	07/13/01	23:00	21.13	7.28	2.199	1.2	55.2	4.20
North Pond	07/13/01	23:30	20.98	7.26	2.197	1.2	51.9	3.96
North Pond	07/14/01	0:00	20.84	7.25	2.196	1.2	51.0	3.90
North Pond	07/14/01	0:30	20.71	7.26	2.2	1.2	47.5	3.64
North Pond	07/14/01	1:00	20.56	7.26	2.199	1.2	49.0	3.77
North Pond	07/14/01	1:30	20.47	7.25	2.204	1.2	45.9	3.54
North Pond	07/14/01	2:00	20.38	7.25	2.197	1.2	44.9	3.46
North Pond	07/14/01	2:30	20.21	7.29	2.201	1.2	48.3	3.74
North Pond	07/14/01	3:00	20.05	7.28	2.2	1.2	46.8	3.64
North Pond	07/14/01	3:30	19.86	7.29	2.198	1.2	46.9	3.66
North Pond	07/14/01	4:00	19.82	7.31	2.198	1.2	45.8	3.57
North Pond	07/14/01	4:30	19.86	7.29	2.198	1.2	44.7	3.49

Site	Date	Time (hr:min)	Temp (°C)	pH	Cond (ms/cm)	Sal (ppt)	DO% %	DO (mg/L)
North Pond	07/14/01	5:00	19.79	7.29	2.198	1.2	42.1	3.29
North Pond	07/14/01	5:30	19.74	7.28	2.197	1.2	40.9	3.20
North Pond	07/14/01	6:00	19.70	7.28	2.197	1.2	40.0	3.13
North Pond	07/14/01	6:30	19.70	7.27	2.197	1.2	39.2	3.07
North Pond	07/14/01	7:00	19.69	7.26	2.197	1.2	39.7	3.10
North Pond	07/14/01	7:30	19.65	7.26	2.191	1.2	38.9	3.05
North Pond	07/14/01	8:00	19.65	7.26	2.197	1.2	39.1	3.06
North Pond	07/14/01	8:30	19.62	7.27	2.196	1.2	39.9	3.12
North Pond	07/14/01	9:00	19.63	7.26	2.191	1.2	43.1	3.38
North Pond	07/14/01	9:30	19.75	7.27	2.186	1.2	43.7	3.41
North Pond	07/14/01	10:00	20.01	7.28	2.194	1.2	47.3	3.68
North Pond	07/14/01	10:30	20.07	7.30	2.189	1.2	49.9	3.87
North Pond	07/14/01	11:00	20.33	7.32	2.197	1.2	51.7	3.99
North Pond	07/14/01	11:30	20.70	7.34	2.2	1.2	57.8	4.43
North Pond	07/14/01	12:00	20.91	7.38	2.196	1.2	61.1	4.67
North Pond	07/14/01	12:30	21.36	7.37	2.201	1.2	62.6	4.74
North Pond	07/14/01	13:00	21.65	7.38	2.204	1.2	61.1	4.60
North Pond	07/14/01	13:30	22.02	7.36	2.202	1.2	60.2	4.50
North Pond	07/14/01	14:00	22.29	7.39	2.202	1.2	65.8	4.89
North Pond	07/14/01	14:30	22.50	7.39	2.202	1.2	68.4	5.07
North Pond	07/14/01	15:00	22.73	7.35	2.199	1.2	62.9	4.64
North Pond	07/14/01	15:30	22.79	7.31	2.2	1.2	64.4	4.74
North Pond	07/14/01	16:00	22.99	7.37	2.202	1.2	66.3	4.86
North Pond	07/14/01	16:30	22.90	7.30	2.201	1.2	59.4	4.36
North Pond	07/14/01	17:00	23.06	7.30	2.203	1.2	61.3	4.49
North Pond	07/14/01	17:30	22.95	7.24	2.196	1.2	58.6	4.30
North Pond	07/14/01	18:00	22.27	7.12	2.182	1.2	45.9	3.41
North Pond	07/14/01	18:30	22.34	7.14	2.183	1.2	45.7	3.40
North Pond	07/14/01	19:00	21.86	7.11	2.183	1.2	41.3	3.09
North Pond	07/14/01	19:30	21.74	7.11	2.182	1.2	41.1	3.09
North Pond	07/14/01	20:00	21.52	7.11	2.18	1.2	39.1	2.95
North Pond	07/14/01	20:30	21.38	7.11	2.184	1.2	35.9	2.72
North Pond	07/14/01	21:00	21.19	7.10	2.182	1.2	31.5	2.39
North Pond	07/14/01	21:30	21.13	7.10	2.181	1.2	30.0	2.28
North Pond	07/14/01	22:00	21.22	7.12	2.182	1.2	27.5	2.09
North Pond	07/14/01	22:30	21.36	7.33	2.201	1.2	52.4	3.96
North Pond	07/14/01	23:00	21.15	7.26	2.199	1.2	50.2	3.81
North Pond	07/14/01	23:30	20.98	7.24	2.203	1.2	48.4	3.69
North Pond	07/15/01	0:00	20.84	7.27	2.202	1.2	48.3	3.69
North Pond	07/15/01	0:30	20.73	7.26	2.201	1.2	46.3	3.55
North Pond	07/15/01	1:00	20.61	7.27	2.205	1.2	48.2	3.70
North Pond	07/15/01	1:30	20.47	7.28	2.204	1.2	47.3	3.64
North Pond	07/15/01	2:00	20.29	7.27	2.202	1.2	46.4	3.59

<b>Site</b>	<b>Date</b>	<b>Time (hr:min)</b>	<b>Temp (°C)</b>	<b>pH</b>	<b>Cond (ms/cm)</b>	<b>Sal (ppt)</b>	<b>DO%</b>	<b>DO (mg/L)</b>
North Pond	07/15/01	2:30	20.21	7.27	2.196	1.2	45.2	3.50
North Pond	07/15/01	3:00	20.05	7.29	2.206	1.2	46.8	3.64
North Pond	07/15/01	3:30	19.96	7.30	2.199	1.2	46.2	3.60
North Pond	07/15/01	4:00	19.93	7.28	2.205	1.2	45.2	3.52
North Pond	07/15/01	4:30	19.77	7.30	2.198	1.2	44.4	3.47
North Pond	07/15/01	5:00	19.72	7.30	2.197	1.2	44.0	3.44
North Pond	07/15/01	5:30	19.67	7.29	2.197	1.2	41.5	3.25
North Pond	07/15/01	6:00	19.67	7.29	2.197	1.2	42.5	3.32
North Pond	07/15/01	6:30	19.60	7.30	2.196	1.2	42.0	3.29
North Pond	07/15/01	7:00	19.56	7.29	2.196	1.2	41.0	3.21
North Pond	07/15/01	7:30	19.56	7.29	2.196	1.2	40.8	3.20
North Pond	07/15/01	8:00	19.56	7.29	2.196	1.2	41.0	3.21
North Pond	07/15/01	8:30	19.55	7.29	2.19	1.2	41.3	3.24
North Pond	07/15/01	9:00	19.53	7.29	2.19	1.2	44.5	3.49
North Pond	07/15/01	9:30	19.53	7.30	2.19	1.2	47.5	3.72
North Pond	07/15/01	10:00	19.69	7.32	2.191	1.2	51.1	4.00
North Pond	07/15/01	10:30	19.84	7.34	2.193	1.2	52.9	4.13
North Pond	07/15/01	11:00	20.21	7.35	2.201	1.2	54.3	4.21
North Pond	07/15/01	11:30	20.47	7.36	2.198	1.2	56.5	4.35
North Pond	07/15/01	12:00	20.77	7.38	2.201	1.2	57.9	4.44
North Pond	07/15/01	12:30	21.15	7.39	2.199	1.2	58.9	4.47
North Pond	07/15/01	13:00	21.56	7.41	2.203	1.2	60.3	4.54
North Pond	07/15/01	13:30	21.89	7.47	2.201	1.2	63.9	4.79
North Pond	07/15/01	14:00	22.25	7.50	2.205	1.2	64.7	4.82
North Pond	07/15/01	14:30	22.55	7.45	2.203	1.2	69.9	5.17
North Pond	07/15/01	15:00	22.66	7.38	2.204	1.2	66.3	4.89
North Pond	07/15/01	15:30	22.64	7.30	2.204	1.2	62.3	4.60
North Pond	07/15/01	16:00	22.82	7.32	2.2	1.2	61.4	4.51
North Pond	07/15/01	16:30	22.77	7.22	2.194	1.2	57.1	4.21
North Pond	07/15/01	17:00	22.75	7.17	2.188	1.2	51.4	3.79
North Pond	07/15/01	17:30	22.34	7.14	2.183	1.2	45.3	3.36
North Pond	07/15/01	18:00	22.25	7.14	2.182	1.2	45.6	3.39
North Pond	07/15/01	18:30	22.16	7.14	2.187	1.2	46.8	3.49
North Pond	07/15/01	19:00	21.93	7.13	2.184	1.2	42.2	3.16
North Pond	07/15/01	19:30	21.74	7.14	2.182	1.2	42.5	3.19
North Pond	07/15/01	20:00	21.72	7.14	2.182	1.2	41.8	3.14
North Pond	07/15/01	20:30	21.42	7.13	2.184	1.2	37.3	2.82
North Pond	07/15/01	21:00	21.38	7.12	2.184	1.2	35.1	2.66
North Pond	07/15/01	21:30	21.36	7.13	2.184	1.2	30.8	2.33
North Pond	07/15/01	22:00	21.40	7.28	2.201	1.2	50.5	3.82
North Pond	07/15/01	22:30	21.29	7.28	2.206	1.2	56.7	4.30
North Pond	07/15/01	23:00	21.13	7.28	2.205	1.2	50.9	3.87
North Pond	07/15/01	23:30	21.03	7.20	2.192	1.2	31.2	2.38

<b>Site</b>	<b>Date</b>	<b>Time (hr:min)</b>	<b>Temp (°C)</b>	<b>pH</b>	<b>Cond (ms/cm)</b>	<b>Sal (ppt)</b>	<b>DO%</b>	<b>DO (mg/L)</b>
North Pond	07/16/01	0:00	20.80	7.24	2.201	1.2	47.0	3.60
North Pond	07/16/01	0:30	20.66	7.25	2.206	1.2	46.2	3.54
North Pond	07/16/01	1:00	20.49	7.25	2.204	1.2	46.4	3.57
North Pond	07/16/01	1:30	20.35	7.27	2.203	1.2	46.0	3.55
North Pond	07/16/01	2:00	20.28	7.28	2.202	1.2	47.4	3.66
North Pond	07/16/01	2:30	20.22	7.26	2.202	1.2	45.4	3.51
North Pond	07/16/01	3:00	20.08	7.27	2.206	1.2	45.4	3.53
North Pond	07/16/01	3:30	19.95	7.29	2.199	1.2	47.3	3.68
North Pond	07/16/01	4:00	19.74	7.32	2.197	1.2	46.9	3.67
North Pond	07/16/01	4:30	19.70	7.32	2.197	1.2	46.6	3.65
North Pond	07/16/01	5:00	19.63	7.31	2.202	1.2	44.6	3.50
North Pond	07/16/01	5:30	19.62	7.31	2.196	1.2	42.6	3.34
North Pond	07/16/01	6:00	19.62	7.29	2.196	1.2	40.8	3.20
North Pond	07/16/01	6:30	19.62	7.29	2.196	1.2	40.3	3.16
North Pond	07/16/01	7:00	19.63	7.28	2.191	1.2	37.2	2.92
North Pond	07/16/01	7:30	19.55	7.28	2.19	1.2	41.0	3.21
North Pond	07/16/01	8:00	19.49	7.29	2.19	1.2	41.3	3.24
North Pond	07/16/01	8:30	19.36	7.30	2.194	1.2	43.5	3.43
North Pond	07/16/01	9:00	19.43	7.31	2.189	1.2	43.3	3.41
North Pond	07/16/01	9:30	19.53	7.30	2.19	1.2	44.2	3.47
North Pond	07/16/01	10:00	19.74	7.31	2.186	1.2	46.5	3.63
North Pond	07/16/01	10:30	19.89	7.32	2.187	1.2	48.4	3.77
North Pond	07/16/01	11:00	20.12	7.33	2.189	1.2	50.0	3.88
North Pond	07/16/01	11:30	20.42	7.35	2.198	1.2	51.9	4.00
North Pond	07/16/01	12:00	20.87	7.35	2.196	1.2	53.6	4.10
Lily Pond	07/11/01	8:00	20.35	7.61	0.605	0.3	53.6	4.17
Lily Pond	07/11/01	8:30	20.71	7.57	0.606	0.3	53.4	4.11
Lily Pond	07/11/01	9:00	19.32	7.10	0.0007	0	70.6	5.61
Lily Pond	07/11/01	9:30	21.12	7.01	2.447	1.3	28.6	2.17
Lily Pond	07/11/01	10:00	21.12	7.00	2.442	1.3	28.9	2.20
Lily Pond	07/11/01	10:30	21.29	7.09	2.293	1.2	52.3	3.96
Lily Pond	07/11/01	11:00	21.29	7.00	2.438	1.3	34.4	2.60
Lily Pond	07/11/01	11:30	21.38	7.00	2.439	1.3	31.2	2.35
Lily Pond	07/11/01	12:00	21.75	7.12	2.292	1.2	57.1	4.29
Lily Pond	07/11/01	12:30	21.84	7.13	2.288	1.2	46.0	3.45
Lily Pond	07/11/01	13:00	21.97	7.14	2.289	1.2	47.0	3.52
Lily Pond	07/11/01	13:30	22.04	7.14	2.284	1.2	48.7	3.64
Lily Pond	07/11/01	14:00	22.05	7.14	2.284	1.2	50.2	3.75
Lily Pond	07/11/01	14:30	21.84	7.14	2.288	1.2	44.5	3.33
Lily Pond	07/11/01	15:00	21.79	7.12	2.287	1.2	41.3	3.10
Lily Pond	07/11/01	15:30	21.98	7.14	2.283	1.2	45.2	3.38
Lily Pond	07/11/01	16:00	21.84	7.14	2.288	1.2	43.1	3.23
Lily Pond	07/11/01	16:30	21.82	7.14	2.287	1.2	41.7	3.13

<b>Site</b>	<b>Date</b>	<b>Time (hr:min)</b>	<b>Temp (°C)</b>	<b>pH</b>	<b>Cond (ms/cm)</b>	<b>Sal (ppt)</b>	<b>DO%</b>	<b>DO (mg/L)</b>
Lily Pond	07/11/01	17:00	21.75	7.13	2.287	1.2	41.4	3.11
Lily Pond	07/11/01	17:30	21.66	7.12	2.286	1.2	38.9	2.92
Lily Pond	07/11/01	18:00	21.56	7.11	2.284	1.2	37.8	2.85
Lily Pond	07/11/01	18:30	21.40	7.11	2.288	1.2	35.6	2.69
Lily Pond	07/11/01	19:00	21.31	7.10	2.293	1.2	34.5	2.61
Lily Pond	07/11/01	19:30	21.26	7.10	2.293	1.2	32.2	2.44
Lily Pond	07/11/01	20:00	21.24	7.09	2.287	1.2	32.9	2.49
Lily Pond	07/11/01	20:30	21.21	7.09	2.286	1.2	32.4	2.46
Lily Pond	07/11/01	21:00	21.15	7.08	2.286	1.2	31.7	2.40
Lily Pond	07/11/01	21:30	21.12	7.08	2.285	1.2	30.3	2.30
Lily Pond	07/11/01	22:00	21.08	7.08	2.285	1.2	29.5	2.25
Lily Pond	07/11/01	22:30	21.05	7.08	2.285	1.2	28.9	2.20
Lily Pond	07/11/01	23:00	21.03	7.08	2.29	1.2	28.6	2.18
Lily Pond	07/11/01	23:30	21.01	7.07	2.29	1.2	28.2	2.15
Lily Pond	07/12/01	0:00	20.98	7.07	2.29	1.2	27.9	2.12
Lily Pond	07/12/01	0:30	20.96	7.06	2.289	1.2	27.1	2.07
Lily Pond	07/12/01	1:00	20.92	7.06	2.289	1.2	27.0	2.06
Lily Pond	07/12/01	1:30	20.92	7.06	2.289	1.2	27.0	2.06
Lily Pond	07/12/01	2:00	20.91	7.06	2.289	1.2	27.1	2.07
Lily Pond	07/12/01	2:30	20.89	7.06	2.289	1.2	27.3	2.08
Lily Pond	07/12/01	3:00	20.87	7.06	2.289	1.2	27.0	2.06
Lily Pond	07/12/01	3:30	20.87	7.06	2.289	1.2	26.8	2.05
Lily Pond	07/12/01	4:00	20.85	7.07	2.288	1.2	27.3	2.08
Lily Pond	07/12/01	4:30	20.84	7.07	2.294	1.2	26.8	2.05
Lily Pond	07/12/01	5:00	20.84	7.07	2.288	1.2	27.1	2.07
Lily Pond	07/12/01	5:30	20.82	7.07	2.288	1.2	26.8	2.05
Lily Pond	07/12/01	6:00	20.80	7.07	2.288	1.2	27.3	2.09
Lily Pond	07/12/01	6:30	20.78	7.07	2.288	1.2	27.1	2.08
Lily Pond	07/12/01	7:00	20.80	7.07	2.294	1.2	27.6	2.11
Lily Pond	07/12/01	7:30	20.82	7.08	2.288	1.2	29.3	2.24
Lily Pond	07/12/01	8:00	20.82	7.08	2.288	1.2	31.3	2.39
Lily Pond	07/12/01	8:30	20.87	7.09	2.289	1.2	32.2	2.46
Lily Pond	07/12/01	9:00	20.92	7.10	2.289	1.2	34.0	2.59
Lily Pond	07/12/01	9:30	21.06	7.11	2.291	1.2	36.9	2.81
Lily Pond	07/12/01	10:00	21.13	7.11	2.291	1.2	39.6	3.01
Lily Pond	07/12/01	10:30	21.22	7.12	2.292	1.2	40.5	3.07
Lily Pond	07/12/01	11:00	21.36	7.12	2.288	1.2	43.2	3.27
Lily Pond	07/12/01	11:30	21.54	7.14	2.29	1.2	44.9	3.38
Lily Pond	07/12/01	12:00	21.66	7.14	2.291	1.2	47.3	3.55
Lily Pond	07/12/01	12:30	21.79	7.15	2.293	1.2	48.3	3.62
Lily Pond	07/12/01	13:00	21.89	7.15	2.294	1.2	49.5	3.71
Lily Pond	07/12/01	13:30	22.02	7.15	2.29	1.2	51.0	3.81
Lily Pond	07/12/01	14:00	22.13	7.16	2.291	1.2	51.1	3.81

Site	Date	Time (hr:min)	Temp (°C)	pH	Cond (ms/cm)	Sal (ppt)	DO% (mg/L)
Lily Pond	07/12/01	14:30	22.22	7.16	2.292	1.2	51.7 3.85
Lily Pond	07/12/01	15:00	22.25	7.15	2.292	1.2	50.7 3.77
Lily Pond	07/12/01	15:30	22.30	7.15	2.293	1.2	50.4 3.75
Lily Pond	07/12/01	16:00	22.47	7.16	2.289	1.2	55.1 4.08
Lily Pond	07/12/01	16:30	22.52	7.16	2.29	1.2	52.6 3.90
Lily Pond	07/12/01	17:00	22.52	7.16	2.29	1.2	53.0 3.92
Lily Pond	07/12/01	17:30	22.50	7.16	2.29	1.2	53.6 3.96
Lily Pond	07/12/01	18:00	22.41	7.16	2.294	1.2	51.9 3.85
Lily Pond	07/12/01	18:30	22.29	7.14	2.293	1.2	49.8 3.70
Lily Pond	07/12/01	19:00	22.14	7.13	2.291	1.2	46.5 3.47
Lily Pond	07/12/01	19:30	22.02	7.12	2.295	1.2	42.9 3.21
Lily Pond	07/12/01	20:00	21.91	7.11	2.294	1.2	40.3 3.02
Lily Pond	07/12/01	20:30	21.81	7.10	2.293	1.2	37.3 2.80
Lily Pond	07/12/01	21:00	21.68	7.09	2.297	1.2	34.9 2.62
Lily Pond	07/12/01	21:30	21.54	7.09	2.296	1.2	33.3 2.51
Lily Pond	07/12/01	22:00	21.43	7.08	2.295	1.2	31.4 2.38
Lily Pond	07/12/01	22:30	21.36	7.08	2.294	1.2	30.5 2.31
Lily Pond	07/12/01	23:00	21.33	7.08	2.293	1.2	30.7 2.32
Lily Pond	07/12/01	23:30	21.26	7.07	2.293	1.2	29.3 2.22
Lily Pond	07/13/01	0:00	21.21	7.07	2.292	1.2	29.5 2.24
Lily Pond	07/13/01	0:30	21.17	7.07	2.292	1.2	28.4 2.16
Lily Pond	07/13/01	1:00	21.12	7.07	2.291	1.2	28.6 2.17
Lily Pond	07/13/01	1:30	21.08	7.06	2.291	1.2	28.5 2.16
Lily Pond	07/13/01	2:00	21.03	7.06	2.29	1.2	28.5 2.17
Lily Pond	07/13/01	2:30	20.99	7.06	2.29	1.2	28.2 2.15
Lily Pond	07/13/01	3:00	20.98	7.06	2.295	1.2	27.6 2.10
Lily Pond	07/13/01	3:30	20.96	7.06	2.295	1.2	27.4 2.09
Lily Pond	07/13/01	4:00	20.94	7.06	2.295	1.2	27.3 2.08
Lily Pond	07/13/01	4:30	20.92	7.06	2.295	1.2	27.4 2.09
Lily Pond	07/13/01	5:00	20.89	7.06	2.295	1.2	27.4 2.09
Lily Pond	07/13/01	5:30	20.87	7.06	2.294	1.2	27.1 2.07
Lily Pond	07/13/01	6:00	20.85	7.06	2.294	1.2	27.3 2.08
Lily Pond	07/13/01	6:30	20.85	7.07	2.294	1.2	27.6 2.11
Lily Pond	07/13/01	7:00	20.84	7.07	2.294	1.2	28.0 2.14
Lily Pond	07/13/01	7:30	20.85	7.07	2.294	1.2	29.1 2.22
Lily Pond	07/13/01	8:00	20.85	7.08	2.294	1.2	31.1 2.38
Lily Pond	07/13/01	8:30	20.87	7.09	2.294	1.2	32.3 2.47
Lily Pond	07/13/01	9:00	20.96	7.09	2.295	1.2	34.8 2.65
Lily Pond	07/13/01	9:30	21.05	7.11	2.296	1.2	38.1 2.90
Lily Pond	07/13/01	10:00	21.15	7.12	2.297	1.2	40.5 3.08
Lily Pond	07/13/01	10:30	21.29	7.13	2.293	1.2	42.9 3.25
Lily Pond	07/13/01	11:00	21.45	7.14	2.295	1.2	45.6 3.45
Lily Pond	07/13/01	11:30	21.56	7.14	2.296	1.2	46.2 3.48

<b>Site</b>	<b>Date</b>	<b>Time (hr:min)</b>	<b>Temp (°C)</b>	<b>pH</b>	<b>Cond (ms/cm)</b>	<b>Sal (ppt)</b>	<b>DO%</b>	<b>DO (mg/L)</b>
Lily Pond	07/13/01	12:00	21.72	7.14	2.292	1.2	49.1	3.69
Lily Pond	07/13/01	12:30	21.82	7.15	2.293	1.2	50.4	3.78
Lily Pond	07/13/01	13:00	21.93	7.15	2.294	1.2	51.1	3.83
Lily Pond	07/13/01	13:30	22.00	7.15	2.289	1.2	51.4	3.84
Lily Pond	07/13/01	14:00	22.16	7.16	2.291	1.2	52.9	3.94
Lily Pond	07/13/01	14:30	22.05	7.16	2.29	1.2	51.1	3.82
Lily Pond	07/13/01	15:00	21.95	7.14	2.295	1.2	45.7	3.42
Lily Pond	07/13/01	15:30	21.95	7.14	2.289	1.2	47.6	3.56
Lily Pond	07/13/01	16:00	21.93	7.14	2.289	1.2	46.0	3.44
Lily Pond	07/13/01	16:30	21.84	7.14	2.293	1.2	45.7	3.42
Lily Pond	07/13/01	17:00	21.74	7.13	2.292	1.2	41.3	3.10
Lily Pond	07/13/01	17:30	21.54	7.10	2.296	1.2	39.5	2.98
Lily Pond	07/13/01	18:00	21.59	7.11	2.296	1.2	40.7	3.07
Lily Pond	07/13/01	18:30	21.63	7.12	2.297	1.2	44.2	3.33
Lily Pond	07/13/01	19:00	21.58	7.12	2.296	1.2	44.7	3.37
Lily Pond	07/13/01	19:30	21.54	7.12	2.296	1.2	41.8	3.15
Lily Pond	07/13/01	20:00	21.49	7.11	2.295	1.2	39.1	2.95
Lily Pond	07/13/01	20:30	21.42	7.10	2.294	1.2	33.9	2.56
Lily Pond	07/13/01	21:00	21.38	7.09	2.294	1.2	31.8	2.40
Lily Pond	07/13/01	21:30	21.35	7.09	2.294	1.2	30.9	2.34
Lily Pond	07/13/01	22:00	21.31	7.09	2.293	1.2	30.2	2.29
Lily Pond	07/13/01	22:30	21.26	7.09	2.293	1.2	28.6	2.17
Lily Pond	07/13/01	23:00	21.26	7.08	2.293	1.2	27.5	2.09
Lily Pond	07/13/01	23:30	21.28	7.08	2.293	1.2	27.4	2.07
Lily Pond	07/14/01	0:00	21.24	7.08	2.292	1.2	27.2	2.06
Lily Pond	07/14/01	0:30	21.21	7.08	2.292	1.2	27.4	2.08
Lily Pond	07/14/01	1:00	21.17	7.09	2.292	1.2	27.4	2.08
Lily Pond	07/14/01	1:30	21.12	7.08	2.291	1.2	27.8	2.12
Lily Pond	07/14/01	2:00	21.08	7.08	2.291	1.2	27.1	2.06
Lily Pond	07/14/01	2:30	21.05	7.07	2.29	1.2	26.3	2.00
Lily Pond	07/14/01	3:00	21.01	7.07	2.296	1.2	25.3	1.92
Lily Pond	07/14/01	3:30	20.99	7.07	2.296	1.2	26.0	1.98
Lily Pond	07/14/01	4:00	20.98	7.07	2.295	1.2	25.6	1.95
Lily Pond	07/14/01	4:30	20.96	7.07	2.295	1.2	25.7	1.96
Lily Pond	07/14/01	5:00	20.94	7.07	2.295	1.2	25.1	1.92
Lily Pond	07/14/01	5:30	20.94	7.07	2.295	1.2	26.0	1.99
Lily Pond	07/14/01	6:00	20.92	7.07	2.295	1.2	26.6	2.03
Lily Pond	07/14/01	6:30	20.92	7.08	2.295	1.2	26.8	2.05
Lily Pond	07/14/01	7:00	20.92	7.08	2.295	1.2	27.0	2.06
Lily Pond	07/14/01	7:30	20.94	7.08	2.295	1.2	28.0	2.14
Lily Pond	07/14/01	8:00	20.96	7.09	2.295	1.2	29.5	2.25
Lily Pond	07/14/01	8:30	20.96	7.10	2.295	1.2	32.9	2.51
Lily Pond	07/14/01	9:00	20.98	7.11	2.295	1.2	33.8	2.58

<b>Site</b>	<b>Date</b>	<b>Time (hr:min)</b>	<b>Temp (°C)</b>	<b>pH</b>	<b>Cond (ms/cm)</b>	<b>Sal (ppt)</b>	<b>DO%</b>	<b>DO (mg/L)</b>
Lily Pond	07/14/01	9:30	21.08	7.12	2.297	1.2	36.9	2.80
Lily Pond	07/14/01	10:00	21.24	7.13	2.292	1.2	38.8	2.94
Lily Pond	07/14/01	10:30	21.29	7.14	2.293	1.2	43.1	3.26
Lily Pond	07/14/01	11:00	21.42	7.15	2.294	1.2	46.9	3.54
Lily Pond	07/14/01	11:30	21.49	7.16	2.295	1.2	49.1	3.71
Lily Pond	07/14/01	12:00	21.45	7.15	2.295	1.2	47.8	3.61
Lily Pond	07/14/01	12:30	21.42	7.15	2.294	1.2	48.7	3.68
Lily Pond	07/14/01	13:00	21.35	7.14	2.294	1.2	46.0	3.48
Lily Pond	07/14/01	13:30	21.29	7.15	2.293	1.2	46.9	3.55
Lily Pond	07/14/01	14:00	21.21	7.14	2.292	1.2	44.6	3.39
Lily Pond	07/14/01	14:30	21.17	7.15	2.292	1.2	43.9	3.33
Lily Pond	07/14/01	15:00	21.33	7.16	2.293	1.2	47.5	3.60
Lily Pond	07/14/01	15:30	21.52	7.18	2.29	1.2	52.0	3.92
Lily Pond	07/14/01	16:00	21.61	7.18	2.291	1.2	52.3	3.94
Lily Pond	07/14/01	16:30	21.63	7.18	2.291	1.2	51.4	3.87
Lily Pond	07/14/01	17:00	21.66	7.18	2.291	1.2	50.5	3.80
Lily Pond	07/14/01	17:30	21.58	7.16	2.296	1.2	47.3	3.56
Lily Pond	07/14/01	18:00	21.45	7.14	2.295	1.2	39.7	3.00
Lily Pond	07/14/01	18:30	21.31	7.13	2.293	1.2	35.1	2.66
Lily Pond	07/14/01	19:00	21.19	7.12	2.286	1.2	33.6	2.55
Lily Pond	07/14/01	19:30	21.06	7.12	2.291	1.2	33.0	2.52
Lily Pond	07/14/01	20:00	21.05	7.11	2.285	1.2	31.8	2.42
Lily Pond	07/14/01	20:30	21.03	7.09	2.29	1.2	30.0	2.28
Lily Pond	07/14/01	21:00	21.03	7.09	2.29	1.2	28.5	2.17
Lily Pond	07/14/01	21:30	21.05	7.09	2.29	1.2	27.8	2.12
Lily Pond	07/14/01	22:00	21.03	7.09	2.29	1.2	27.9	2.12
Lily Pond	07/14/01	22:30	20.99	7.09	2.29	1.2	28.5	2.17
Lily Pond	07/14/01	23:00	20.94	7.09	2.289	1.2	28.0	2.14
Lily Pond	07/14/01	23:30	20.89	7.09	2.289	1.2	27.9	2.13
Lily Pond	07/15/01	0:00	20.85	7.09	2.288	1.2	27.9	2.13
Lily Pond	07/15/01	0:30	20.84	7.09	2.294	1.2	27.9	2.13
Lily Pond	07/15/01	1:00	20.84	7.10	2.288	1.2	27.3	2.08
Lily Pond	07/15/01	1:30	20.77	7.10	2.293	1.2	28.2	2.16
Lily Pond	07/15/01	2:00	20.73	7.10	2.293	1.2	28.1	2.15
Lily Pond	07/15/01	2:30	20.73	7.10	2.293	1.2	28.2	2.16
Lily Pond	07/15/01	3:00	20.73	7.10	2.287	1.2	28.4	2.17
Lily Pond	07/15/01	3:30	20.68	7.11	2.292	1.2	28.4	2.18
Lily Pond	07/15/01	4:00	20.63	7.11	2.292	1.2	29.6	2.27
Lily Pond	07/15/01	4:30	20.59	7.11	2.292	1.2	29.9	2.30
Lily Pond	07/15/01	5:00	20.61	7.11	2.292	1.2	30.4	2.33
Lily Pond	07/15/01	5:30	20.68	7.11	2.287	1.2	29.6	2.27
Lily Pond	07/15/01	6:00	20.70	7.11	2.287	1.2	29.3	2.25
Lily Pond	07/15/01	6:30	20.66	7.11	2.286	1.2	30.4	2.33

Site	Date	Time (hr:min)	Temp (°C)	pH	Cond (ms/cm)	Sal (ppt)	DO% (mg/L)
Lily Pond	07/15/01	7:00	20.66	7.12	2.292	1.2	30.5 2.34
Lily Pond	07/15/01	7:30	20.68	7.12	2.292	1.2	31.7 2.43
Lily Pond	07/15/01	8:00	20.66	7.12	2.292	1.2	33.0 2.53
Lily Pond	07/15/01	8:30	20.71	7.13	2.293	1.2	34.8 2.67
Lily Pond	07/15/01	9:00	20.71	7.13	2.293	1.2	36.3 2.78
Lily Pond	07/15/01	9:30	20.82	7.14	2.294	1.2	39.4 3.01
Lily Pond	07/15/01	10:00	20.92	7.16	2.289	1.2	43.0 3.28
Lily Pond	07/15/01	10:30	20.98	7.16	2.29	1.2	42.9 3.27
Lily Pond	07/15/01	11:00	21.06	7.17	2.291	1.2	46.4 3.53
Lily Pond	07/15/01	11:30	21.24	7.18	2.292	1.2	49.8 3.78
Lily Pond	07/15/01	12:00	21.49	7.19	2.289	1.2	51.6 3.89
Lily Pond	07/15/01	12:30	21.61	7.19	2.291	1.2	53.2 4.01
Lily Pond	07/15/01	13:00	21.75	7.19	2.287	1.2	54.4 4.08
Lily Pond	07/15/01	13:30	21.52	7.17	2.29	1.2	51.9 3.91
Lily Pond	07/15/01	14:00	21.28	7.15	2.293	1.2	44.2 3.35
Lily Pond	07/15/01	14:30	21.19	7.14	2.286	1.2	41.4 3.15
Lily Pond	07/15/01	15:00	21.33	7.16	2.288	1.2	45.1 3.41
Lily Pond	07/15/01	15:30	21.38	7.16	2.288	1.2	47.0 3.56
Lily Pond	07/15/01	16:00	21.58	7.18	2.29	1.2	51.2 3.86
Lily Pond	07/15/01	16:30	21.63	7.18	2.291	1.2	50.9 3.83
Lily Pond	07/15/01	17:00	21.74	7.18	2.292	1.2	52.9 3.97
Lily Pond	07/15/01	17:30	21.66	7.18	2.291	1.2	53.4 4.01
Lily Pond	07/15/01	18:00	21.63	7.17	2.291	1.2	50.0 3.76
Lily Pond	07/15/01	18:30	21.58	7.17	2.29	1.2	50.2 3.78
Lily Pond	07/15/01	19:00	21.47	7.16	2.295	1.2	48.4 3.65
Lily Pond	07/15/01	19:30	21.35	7.15	2.294	1.2	44.9 3.40
Lily Pond	07/15/01	20:00	21.26	7.13	2.293	1.2	41.4 3.14
Lily Pond	07/15/01	20:30	21.21	7.13	2.292	1.2	37.8 2.87
Lily Pond	07/15/01	21:00	21.10	7.12	2.291	1.2	34.9 2.65
Lily Pond	07/15/01	21:30	20.98	7.12	2.29	1.2	33.4 2.54
Lily Pond	07/15/01	22:00	20.91	7.12	2.289	1.2	32.3 2.47
Lily Pond	07/15/01	22:30	20.84	7.11	2.288	1.2	31.1 2.38
Lily Pond	07/15/01	23:00	20.78	7.11	2.293	1.2	30.5 2.33
Lily Pond	07/15/01	23:30	20.73	7.12	2.293	1.2	30.8 2.36
Lily Pond	07/16/01	0:00	20.68	7.12	2.292	1.2	30.7 2.35
Lily Pond	07/16/01	0:30	20.64	7.12	2.292	1.2	30.7 2.35
Lily Pond	07/16/01	1:00	20.57	7.12	2.291	1.2	31.3 2.41
Lily Pond	07/16/01	1:30	20.52	7.13	2.291	1.2	31.6 2.43
Lily Pond	07/16/01	2:00	20.50	7.13	2.291	1.2	30.9 2.37
Lily Pond	07/16/01	2:30	20.50	7.13	2.291	1.2	31.2 2.40
Lily Pond	07/16/01	3:00	20.49	7.13	2.29	1.2	30.9 2.38
Lily Pond	07/16/01	3:30	20.43	7.13	2.29	1.2	31.0 2.39
Lily Pond	07/16/01	4:00	20.40	7.13	2.29	1.2	32.3 2.49

Site	Date	Time (hr:min)	Temp (°C)	pH	Cond (ms/cm)	Sal (ppt)	DO% (mg/L)
Lily Pond	07/16/01	4:30	20.40	7.13	2.29	1.2	31.2 2.41
Lily Pond	07/16/01	5:00	20.36	7.13	2.289	1.2	31.2 2.41
Lily Pond	07/16/01	5:30	20.36	7.13	2.289	1.2	30.9 2.38
Lily Pond	07/16/01	6:00	20.33	7.13	2.289	1.2	31.4 2.42
Lily Pond	07/16/01	6:30	20.33	7.13	2.289	1.2	30.6 2.36
Lily Pond	07/16/01	7:00	20.36	7.13	2.289	1.2	31.2 2.41
Lily Pond	07/16/01	7:30	20.42	7.14	2.29	1.2	32.7 2.52
Lily Pond	07/16/01	8:00	20.40	7.14	2.29	1.2	33.2 2.56
Lily Pond	07/16/01	8:30	20.42	7.14	2.29	1.2	34.9 2.69
Lily Pond	07/16/01	9:00	20.49	7.16	2.29	1.2	37.3 2.87
Lily Pond	07/16/01	9:30	20.57	7.17	2.291	1.2	41.6 3.20
Lily Pond	07/16/01	10:00	20.68	7.18	2.292	1.2	44.9 3.45
Lily Pond	07/16/01	10:30	20.78	7.19	2.293	1.2	47.2 3.61
Lily Pond	07/16/01	11:00	20.92	7.20	2.289	1.2	48.7 3.72
Lily Pond	07/16/01	11:30	21.06	7.20	2.291	1.2	50.9 3.88
Lily Pond	07/16/01	12:00	21.17	7.21	2.292	1.2	52.9 4.02
Utah Lake	07/22/01	22:00	25.09	8.63	1.376	0.7	85.5 6.05
Utah Lake	07/22/01	22:30	24.50	8.63	1.378	0.7	89.7 6.42
Utah Lake	07/22/01	23:00	24.20	8.63	1.374	0.7	88.4 6.35
Utah Lake	07/22/01	23:30	23.95	8.59	1.378	0.7	93.0 6.72
Utah Lake	07/23/01	0:00	23.60	8.58	1.378	0.7	90.9 6.61
Utah Lake	07/23/01	0:30	23.33	8.57	1.39	0.7	87.9 6.43
Utah Lake	07/23/01	1:00	22.72	8.57	1.412	0.7	84.3 6.23
Utah Lake	07/23/01	1:30	22.22	8.52	1.38	0.7	81.6 6.09
Utah Lake	07/23/01	2:00	21.84	8.53	1.403	0.7	76.8 5.77
Utah Lake	07/23/01	2:30	21.36	8.44	1.371	0.7	66.6 5.05
Utah Lake	07/23/01	3:00	21.01	8.44	1.375	0.7	66.3 5.07
Utah Lake	07/23/01	3:30	20.92	8.47	1.409	0.7	64.9 4.97
Utah Lake	07/23/01	4:00	20.49	8.43	1.386	0.7	62.5 4.83
Utah Lake	07/23/01	4:30	20.42	8.41	1.4	0.7	59.0 4.56
Utah Lake	07/23/01	5:00	20.07	8.39	1.4	0.7	57.9 4.51
Utah Lake	07/23/01	5:30	19.17	8.37	1.404	0.7	61.4 4.87
Utah Lake	07/23/01	6:00	19.41	8.34	1.395	0.7	53.1 4.19
Utah Lake	07/23/01	6:30	18.84	8.30	1.423	0.8	55.6 4.44
Utah Lake	07/23/01	7:00	18.84	8.34	1.407	0.7	60.6 4.84
Utah Lake	07/23/01	7:30	18.51	8.31	1.406	0.7	57.3 4.61
Utah Lake	07/23/01	8:00	18.43	8.30	1.405	0.7	55.8 4.49
Utah Lake	07/23/01	8:30	18.41	8.27	1.398	0.7	51.8 4.17
Utah Lake	07/23/01	9:00	19.29	8.39	1.347	0.7	59.9 4.74
Utah Lake	07/23/01	9:30	19.37	8.38	1.347	0.7	57.7 4.56
Utah Lake	07/23/01	10:00	19.25	8.31	1.352	0.7	51.7 4.10
Utah Lake	07/23/01	10:30	19.25	8.31	1.355	0.7	40.6 3.21
Utah Lake	07/23/01	11:00	20.01	8.38	1.348	0.7	59.6 4.65

Site	Date	Time (hr:min)	Temp (°C)	pH	Cond (ms/cm)	Sal (ppt)	DO% DO%	DO (mg/L)
Utah Lake	07/23/01	11:30	20.71	8.45	1.346	0.7	60.3	4.63
Utah Lake	07/23/01	12:00	20.56	8.40	1.368	0.7	58.5	4.51
Utah Lake	07/23/01	12:30	20.82	8.37	1.366	0.7	53.0	4.07
Utah Lake	07/23/01	13:00	21.45	8.40	1.367	0.7	65.0	4.93
Utah Lake	07/23/01	13:30	21.77	8.48	1.38	0.7	61.2	4.61
Utah Lake	07/23/01	14:00	22.88	8.53	1.38	0.7	68.0	5.01
Utah Lake	07/23/01	14:30	23.98	8.56	1.371	0.7	67.0	4.84
Utah Lake	07/23/01	15:00	23.75	8.52	1.368	0.7	64.9	4.70
Utah Lake	07/23/01	15:30	24.51	8.55	1.366	0.7	58.9	4.21
Utah Lake	07/23/01	16:00	25.09	8.55	1.363	0.7	80.4	5.69
Utah Lake	07/23/01	16:30	25.16	8.55	1.36	0.7	76.8	5.42
Utah Lake	07/23/01	17:00	25.03	8.56	1.37	0.7	77.1	5.46
Utah Lake	07/23/01	17:30	24.53	8.52	1.354	0.7	65.7	4.70
Utah Lake	07/23/01	18:00	24.26	8.45	1.338	0.7	56.9	4.09
Utah Lake	07/23/01	18:30	24.02	8.48	1.34	0.7	56.2	4.06
Utah Lake	07/23/01	19:00	24.46	8.52	1.36	0.7	54.0	3.86
Utah Lake	07/23/01	19:30	25.10	8.60	1.372	0.7	72.3	5.11
Utah Lake	07/23/01	20:00	24.86	8.68	1.37	0.7	84.5	6.00
Utah Lake	07/23/01	20:30	24.92	8.66	1.386	0.7	87.5	6.21
Utah Lake	07/23/01	21:00	24.62	8.64	1.375	0.7	79.8	5.69
Utah Lake	07/23/01	21:30	24.29	8.62	1.381	0.7	85.0	6.10
Utah Lake	07/23/01	22:00	23.87	8.60	1.376	0.7	87.3	6.32
Utah Lake	07/23/01	22:30	23.64	8.60	1.371	0.7	77.4	5.63
Utah Lake	07/23/01	23:00	23.36	8.59	1.37	0.7	76.4	5.58
Utah Lake	07/23/01	23:30	22.86	8.56	1.362	0.7	74.4	5.49
Utah Lake	07/24/01	0:00	22.38	8.53	1.356	0.7	73.5	5.47
Utah Lake	07/24/01	0:30	21.98	8.51	1.352	0.7	68.3	5.13
Utah Lake	07/24/01	1:00	22.09	8.50	1.373	0.7	67.7	5.07
Utah Lake	07/24/01	1:30	21.93	8.48	1.389	0.7	65.3	4.90
Utah Lake	07/24/01	2:00	21.66	8.47	1.389	0.7	59.8	4.51
Utah Lake	07/24/01	2:30	21.43	8.44	1.39	0.7	57.6	4.36
Utah Lake	07/24/01	3:00	21.31	8.43	1.4	0.7	54.7	4.16
Utah Lake	07/24/01	3:30	21.12	8.45	1.379	0.7	62.7	4.78
Utah Lake	07/24/01	4:00	20.92	8.41	1.381	0.7	56.5	4.33
Utah Lake	07/24/01	4:30	20.63	8.40	1.394	0.7	55.1	4.24
Utah Lake	07/24/01	5:00	20.56	8.37	1.408	0.7	48.5	3.74
Utah Lake	07/24/01	5:30	20.36	8.35	1.416	0.7	47.2	3.65
Utah Lake	07/24/01	6:00	20.31	8.32	1.385	0.7	45.4	3.51
Utah Lake	07/24/01	6:30	19.98	8.31	1.387	0.7	46.8	3.65
Utah Lake	07/24/01	7:00	19.89	8.31	1.372	0.7	49.3	3.86
Utah Lake	07/24/01	7:30	19.60	8.28	1.39	0.7	47.3	3.72
Utah Lake	07/24/01	8:00	19.30	8.27	1.406	0.7	46.5	3.67
Utah Lake	07/24/01	8:30	19.30	8.31	1.376	0.7	54.5	4.31

Site	Date	Time (hr:min)	Temp (°C)	pH	Cond (ms/cm)	Sal (ppt)	DO% DO%	DO (mg/L)
Utah Lake	07/24/01	9:00	19.36	8.29	1.397	0.7	43.8	3.46
Utah Lake	07/24/01	9:30	19.46	8.24	1.415	0.7	41.6	3.28
Utah Lake	07/24/01	10:00	19.53	8.25	1.411	0.7	35.2	2.77
Utah Lake	07/24/01	10:30	19.53	8.22	1.42	0.8	37.1	2.92
Utah Lake	07/24/01	11:00	19.84	8.25	1.414	0.7	43.8	3.43
Utah Lake	07/24/01	11:30	19.89	8.27	1.407	0.7	48.3	3.77
Utah Lake	07/24/01	12:00	20.15	8.34	1.398	0.7	54.9	4.27
Utah Lake	07/24/01	12:30	20.26	8.35	1.391	0.7	49.2	3.82
Utah Lake	07/24/01	13:00	20.49	8.36	1.399	0.7	51.4	3.97
Utah Lake	07/24/01	13:30	21.05	8.39	1.419	0.8	61.2	4.67
Utah Lake	07/24/01	14:00	21.35	8.40	1.447	0.8	52.2	3.97
Utah Lake	07/24/01	14:30	22.30	8.45	1.454	0.8	64.9	4.83
Utah Lake	07/24/01	15:00	23.55	8.56	1.452	0.8	68.8	5.01
Utah Lake	07/24/01	15:30	23.29	8.52	1.477	0.8	75.1	5.49
Utah Lake	07/24/01	16:00	24.18	8.56	1.454	0.8	72.4	5.21
Utah Lake	07/24/01	16:30	24.13	8.47	1.461	0.8	72.1	5.19
Utah Lake	07/24/01	17:00						
Utah Lake	07/24/01	17:30	25.70	8.58	1.443	0.8	64.4	4.50
Utah Lake	07/24/01	18:00	27.22	8.67	1.422	0.8	94.9	6.46
Utah Lake	07/24/01	18:30						
Utah Lake	07/24/01	19:00	26.97	8.65	1.486	0.8	95.4	6.52
Utah Lake	07/24/01	19:30	27.76	8.69	1.474	0.8		
Utah Lake	07/24/01	20:00	28.28	8.73	1.422	0.8	85.3	5.70
Utah Lake	07/24/01	20:30	28.63	8.86	1.392	0.7		
Utah Lake	07/24/01	21:00	28.28	8.84	1.393	0.7		
Utah Lake	07/24/01	21:30	27.85	8.81	1.383	0.7		
Utah Lake	07/24/01	22:00	27.25	8.78	1.378	0.7		
Utah Lake	07/24/01	22:30	26.74	8.75	1.376	0.7		
Utah Lake	07/24/01	23:00	26.44	8.72	1.384	0.7		
Utah Lake	07/24/01	23:30	26.04	8.70	1.393	0.7		
Utah Lake	07/25/01	0:00	25.51	8.69	1.388	0.7		
Utah Lake	07/25/01	0:30	24.92	8.64	1.431	0.8	96.5	6.85
Utah Lake	07/25/01	1:00	24.37	8.62	1.435	0.8	91.3	6.54
Utah Lake	07/25/01	1:30	23.82	8.56	1.443	0.8	84.1	6.09
Utah Lake	07/25/01	2:00	23.47	8.51	1.451	0.8	65.4	4.77
Utah Lake	07/25/01	2:30	23.24	8.54	1.418	0.8	73.8	5.40
Utah Lake	07/25/01	3:00	23.11	8.49	1.431	0.8	59.4	4.36
Utah Lake	07/25/01	3:30	22.99	8.49	1.39	0.7	62.5	4.60
Utah Lake	07/25/01	4:00	22.57	8.46	1.396	0.7	60.5	4.49
Utah Lake	07/25/01	4:30	22.47	8.49	1.346	0.7	63.0	4.68
Utah Lake	07/25/01	5:00	21.97	8.44	1.374	0.7	54.6	4.10
Utah Lake	07/25/01	5:30	21.28	8.38	1.43	0.8	49.0	3.73
Utah Lake	07/25/01	6:00	21.35	8.38	1.391	0.7	35.4	2.69

Site	Date	Time (hr:min)	Temp (°C)	pH	Cond (ms/cm)	Sal (ppt)	DO% DO%	DO (mg/L)
Utah Lake	07/25/01	6:30	21.17	8.36	1.39	0.7	43.7	3.33
Utah Lake	07/25/01	7:00	20.94	8.31	1.398	0.7	40.7	3.12
Utah Lake	07/25/01	7:30	20.66	8.30	1.392	0.7	40.0	3.08
Utah Lake	07/25/01	8:00	20.28	8.24	1.418	0.8	37.2	2.89
Utah Lake	07/25/01	8:30	20.31	8.26	1.406	0.7	34.7	2.69
Utah Lake	07/25/01	9:00	21.06	8.41	1.323	0.7	55.1	4.21
Utah Lake	07/25/01	9:30	21.06	8.40	1.332	0.7	49.1	3.75
Utah Lake	07/25/01	10:00	21.10	8.37	1.338	0.7	37.2	2.84
Utah Lake	07/25/01	10:30	21.13	8.32	1.346	0.7	26.3	2.01
Utah Lake	07/25/01	11:00	21.22	8.31	1.348	0.7	30.6	2.33
Utah Lake	07/25/01	11:30	21.65	8.36	1.342	0.7	38.3	2.89
Utah Lake	07/25/01	12:00	21.58	8.34	1.344	0.7	27.9	2.11
Utah Lake	07/25/01	12:30	22.00	8.36	1.342	0.7	24.0	1.80
Utah Lake	07/25/01	13:00	22.48	8.40	1.349	0.7	37.5	2.78
Utah Lake	07/25/01	13:30	22.54	8.38	1.35	0.7	30.6	2.27
Utah Lake	07/25/01	14:00	23.04	8.41	1.353	0.7	46.5	3.42
Utah Lake	07/25/01	14:30	23.75	8.45	1.365	0.7	56.9	4.12
Utah Lake	07/25/01	15:00	24.68	8.53	1.393	0.7	72.0	5.13
Utah Lake	07/25/01	15:30	25.42	8.52	1.387	0.7	65.2	4.58
Utah Lake	07/25/01	16:00	25.98	8.55	1.429	0.8	75.4	5.24
Utah Lake	07/25/01	16:30	25.93	8.60	1.437	0.8	71.5	4.98
Utah Lake	07/25/01	17:00	26.04	8.63	1.43	0.8	76.1	5.29
Utah Lake	07/25/01	17:30	26.55	8.73	1.4	0.7		
Utah Lake	07/25/01	18:00	26.38	8.75	1.408	0.7		
Utah Lake	07/25/01	18:30	26.23	8.72	1.412	0.7		
Utah Lake	07/25/01	19:00	26.23	8.73	1.401	0.7		
Utah Lake	07/25/01	19:30	26.13	8.71	1.401	0.7	88.9	6.17
Utah Lake	07/25/01	20:00	26.10	8.74	1.356	0.7	97.6	6.78
Utah Lake	07/25/01	20:30	26.13	8.81	1.326	0.7	90.3	6.27
Utah Lake	07/25/01	21:00	25.89	8.78	1.328	0.7	90.8	6.33
Utah Lake	07/25/01	21:30	25.33	8.73	1.351	0.7	85.3	6.01
Utah Lake	07/25/01	22:00	25.27	8.68	1.367	0.7	74.9	5.28
Utah Lake	07/25/01	22:30	24.83	8.62	1.391	0.7	71.0	5.05
Utah Lake	07/25/01	23:00	24.75	8.60	1.357	0.7	73.7	5.25
Utah Lake	07/25/01	23:30	24.59	8.62	1.36	0.7	67.5	4.82
Utah Lake	07/26/01	0:00	24.39	8.59	1.368	0.7	67.1	4.81
Utah Lake	07/26/01	0:30	23.89	8.59	1.463	0.8	75.7	5.47
Utah Lake	07/26/01	1:00	23.89	8.52	1.436	0.8	56.1	4.05
Utah Lake	07/26/01	1:30	23.93	8.59	1.351	0.7	63.3	4.58
Utah Lake	07/26/01	2:00	23.82	8.59	1.342	0.7	71.6	5.19
Utah Lake	07/26/01	2:30	23.47	8.54	1.363	0.7	63.4	4.62
Utah Lake	07/26/01	3:00	23.13	8.50	1.378	0.7	61.6	4.52
Utah Lake	07/26/01	3:30	22.88	8.46	1.375	0.7	58.8	4.33

<b>Site</b>	<b>Date</b>	<b>Time (hr:min)</b>	<b>Temp (°C)</b>	<b>pH</b>	<b>Cond (ms/cm)</b>	<b>Sal (ppt)</b>	<b>DO%</b>	<b>DO (mg/L)</b>
Utah Lake	07/26/01	4:00	22.48	8.42	1.384	0.7	56.6	4.20
Utah Lake	07/26/01	4:30	22.63	8.57	1.328	0.7	64.1	4.75
Utah Lake	07/26/01	5:00	22.13	8.46	1.353	0.7	55.3	4.14
Utah Lake	07/26/01	5:30	21.79	8.40	1.35	0.7	52.1	3.92
Utah Lake	07/26/01	6:00	21.79	8.52	1.33	0.7	65.4	4.92
Utah Lake	07/26/01	6:30	21.10	8.35	1.362	0.7	56.1	4.28
Utah Lake	07/26/01	7:00	20.61	8.18	1.38	0.7	43.4	3.35
Utah Lake	07/26/01	7:30	20.77	8.37	1.369	0.7	48.6	3.73
Utah Lake	07/26/01	8:00	20.52	8.26	1.359	0.7	50.7	3.91
Utah Lake	07/26/01	8:30	20.56	8.30	1.35	0.7	53.1	4.10
Utah Lake	07/26/01	9:00	20.49	8.24	1.366	0.7	54.7	4.22
Utah Lake	07/26/01	9:30	20.50	8.25	1.351	0.7	56.2	4.34
Utah Lake	07/26/01	10:00	20.61	8.18	1.414	0.7	55.7	4.29
Utah Lake	07/26/01	10:30	20.57	8.22	1.404	0.7	58.2	4.48
Utah Lake	07/26/01	11:00	20.64	8.30	1.354	0.7	61.7	4.75
Utah Lake	07/26/01	11:30	21.03	8.44	1.323	0.7	67.0	5.12
Utah Lake	07/26/01	12:00	21.22	8.48	1.33	0.7	69.1	5.26
Utah Lake	07/26/01	12:30	21.52	8.53	1.314	0.7	67.7	5.13
Utah Lake	07/26/01	13:00	21.77	8.57	1.302	0.7	73.6	5.54
Utah Lake	07/26/01	13:30	22.09	8.58	1.305	0.7	75.6	5.66
Utah Lake	07/26/01	14:00	22.55	8.52	1.318	0.7	74.8	5.55
Utah Lake	07/26/01	14:30	22.73	8.46	1.351	0.7	61.7	4.56
Utah Lake	07/26/01	15:00	23.04	8.38	1.411	0.7	49.3	3.63
Utah Lake	07/26/01	15:30	23.49	8.49	1.356	0.7	60.7	4.42
Utah Lake	07/26/01	16:00	23.51	8.53	1.338	0.7	60.1	4.38
Utah Lake	07/26/01	16:30	23.55	8.55	1.331	0.7	61.1	4.45
Utah Lake	07/26/01	17:00	23.69	8.63	1.317	0.7	80.0	5.81
Utah Lake	07/26/01	17:30	23.71	8.66	1.311	0.7	84.0	6.10
Utah Lake	07/26/01	18:00	23.96	8.66	1.313	0.7	70.8	5.12
Utah Lake	07/26/01	18:30	23.96	8.54	1.366	0.7	85.6	6.18
Utah Lake	07/26/01	19:00	24.07	8.54	1.356	0.7	64.8	4.67
Utah Lake	07/26/01	19:30	24.26	8.51	1.394	0.7	75.4	5.42
Utah Lake	07/26/01	20:00	24.31	8.44	1.409	0.7	56.0	4.02
Utah Lake	07/26/01	20:30	24.35	8.49	1.401	0.7	91.2	6.54
Utah Lake	07/26/01	21:00	24.17	8.41	1.367	0.7	77.7	5.59
Utah Lake	07/26/01	21:30	23.87	8.48	1.332	0.7	79.3	5.74
Utah Lake	07/26/01	22:00	23.75	8.58	1.329	0.7	79.0	5.73
Utah Lake	07/26/01	22:30	23.47	8.56	1.377	0.7	89.2	6.51
Utah Lake	07/26/01	23:00	23.18	8.48	1.396	0.7	84.4	6.18
Utah Lake	07/26/01	23:30	22.95	8.44	1.404	0.7	82.7	6.09
Utah Lake	07/27/01	0:00	22.48	8.48	1.343	0.7	72.7	5.40
Utah Lake	07/27/01	0:30	22.41	8.41	1.411	0.7	77.1	5.74
Utah Lake	07/27/01	1:00	21.86	8.40	1.407	0.7	72.3	5.44

Site	Date	Time (hr:min)	Temp (°C)	pH	Cond (ms/cm)	Sal (ppt)	DO% (mg/L)
Utah Lake	07/27/01	1:30	21.63	8.41	1.388	0.7	71.5 5.40
Utah Lake	07/27/01	2:00	21.22	8.35	1.401	0.7	63.3 4.82
Utah Lake	07/27/01	2:30	20.87	8.50	1.325	0.7	68.6 5.26
Utah Lake	07/27/01	3:00	20.63	8.49	1.322	0.7	68.3 5.26
Utah Lake	07/27/01	3:30	20.29	8.42	1.327	0.7	58.7 4.55
Utah Lake	07/27/01	4:00	20.08	8.48	1.319	0.7	65.9 5.13
Utah Lake	07/27/01	4:30	19.75	8.39	1.323	0.7	60.7 4.75
Utah Lake	07/27/01	5:00	19.55	8.38	1.324	0.7	57.2 4.50
Utah Lake	07/27/01	5:30	19.17	8.35	1.318	0.7	58.9 4.67
Utah Lake	07/27/01	6:00	19.05	8.34	1.324	0.7	54.5 4.33
Utah Lake	07/27/01	6:30	18.57	8.28	1.327	0.7	52.5 4.21
Utah Lake	07/27/01	7:00	18.63	8.41	1.284	0.7	62.0 4.97
Utah Lake	07/27/01	7:30	18.29	8.38	1.294	0.7	54.3 4.39
Utah Lake	07/27/01	8:00	18.07	8.32	1.306	0.7	57.1 4.63
Utah Lake	07/27/01	8:30	18.38	8.44	1.276	0.7	64.1 5.17
Utah Lake	07/27/01	9:00	18.33	8.36	1.299	0.7	52.3 4.22
Utah Lake	07/27/01	9:30	18.57	8.38	1.298	0.7	54.5 4.38
Utah Lake	07/27/01	10:00	18.72	8.34	1.3	0.7	32.0 2.56
Utah Lake	07/27/01	10:30	19.70	8.41	1.292	0.7	44.5 3.49
Utah Lake	07/27/01	11:00	20.31	8.42	1.292	0.7	28.0 2.17
Utah Lake	07/27/01	11:30	20.22	8.40	1.293	0.7	14.0 1.09
Utah Lake	07/27/01	12:00	20.82	8.43	1.297	0.7	18.2 1.40
Utah Lake	09/05/01	13:00	26.62	8.38	1.419	0.8	88.7 6.1
Utah Lake	09/05/01	14:00	26.74	8.69	1.528	0.8	137.9 9.46
Utah Lake	09/05/01	15:00	27.22	8.85	1.47	0.8	159.4 10.85
Utah Lake	09/05/01	16:00	28.4	8.79	1.472	0.8	171.4 11.42
Utah Lake	09/05/01	17:00	28.18	8.71	1.389	0.7	147.5 9.87
Utah Lake	09/05/01	18:00	27.06	8.72	1.283	0.7	137.6 9.39
Utah Lake	09/05/01	19:00	26.43	8.68	1.234	0.7	129.9 8.97
Utah Lake	09/05/01	20:00	25.57	8.65	1.301	0.7	115.7 8.12
Utah Lake	09/05/01	21:00	24.18	8.45	1.341	0.7	77.5 5.58
Utah Lake	09/05/01	22:00					
Utah Lake	09/05/01	23:00	21.87	8.51	1.121	0.6	62.7 4.72
Utah Lake	09/06/01	0:00	21.24	8.36	1.402	0.7	45.2 3.44
Utah Lake	09/06/01	1:00	20.78	8.32	1.323	0.7	33.7 2.59
Utah Lake	09/06/01	2:00	20.05	8.22	1.417	0.7	26.1 2.03
Utah Lake	09/06/01	3:00					
Utah Lake	09/06/01	4:00					
Utah Lake	09/06/01	5:00					
Utah Lake	09/06/01	6:00	13.91	8.65	0.903	0.5	82.3 7.3
Utah Lake	09/06/01	7:00	12.03	8.34	1.278	0.7	80.2 7.41
Utah Lake	09/06/01	8:00	11.8	8.4	1.326	0.7	84 7.8
Utah Lake	09/06/01	9:00	11.92	8.37	1.363	0.7	84.8 7.85

<b>Site</b>	<b>Date</b>	<b>Time (hr:min)</b>	<b>Temp (°C)</b>	<b>pH</b>	<b>Cond (ms/cm)</b>	<b>Sal (ppt)</b>	<b>DO%</b>	<b>DO (mg/L)</b>
Utah Lake	09/06/01	10:00	13.14	8.49	1.234	0.7	79.2	7.14
Utah Lake	09/06/01	11:00	14.46	8.47	1.286	0.7	76.2	6.67
Utah Lake	09/06/01	12:00	17.65	8.63	1.18	0.6	80.6	6.59
Utah Lake	09/06/01	13:00	19.7	8.66	1.162	0.6	88.4	6.94
Utah Lake	09/06/01	14:00	20.99	8.67	1.246	0.7	88.6	6.78
Utah Lake	09/06/01	15:00	21.29	8.52	0.687	0.4	91.3	6.96